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**Department of Defense  
Fiscal Year (FY) 2017 President's Budget Submission**

February 2016



**Army**

*Justification Book of*

***Other Procurement, Army***

**Other Support Equipment / Spares,**

**Budget Activity 3/4**

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The following Justification Books were prepared at a cost of \$1,209,553:  
Aircraft (ACFT), Missile (MSLS), Weapons & Tracked Combat Vehicles (WTCV),  
Ammunition (AMMO), Other Procurement Army (OPA) 1 - Tactical & Support  
Vehicles, Other Procurement Army (OPA) 2 - Communications & Electronics,  
Other Procurement Army (OPA) 3 & 4 - Other Support Equipment & Spares,  
Research, Development, Test and Evaluation (RDTE) for: Budget Activity 1,  
Budget Activity 2, Budget Activity 3, Budget Activity 4, Budget Activity 5A,  
Budget Activity 5B, Budget Activity 6, and Budget Activity 7.



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Army Watercraft Esp	M11101	156	03	55.....	427
Aviation Combined Arms Tactical Trainer	NA0173	164	03	70.....	569
BRIDGE SUPPLEMENTAL SET	G06520	117	03	15.....	61
Base Defense Systems (BDS)	M90101	113	03	10.....	18
Base Level Common Equipment	MB7000	172	03	90.....	644
CBRN Defense	M01001	114	03	10.....	24
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Cargo Aerial Del & Personnel Parachute Systems	MA7804	136	03	25.....	209
Close Combat Tactical Trainer	NA0170	163	03	70.....	560
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Enhanced Rapid Airfield Construction Capap	R07001	152	03	50.....	397
Explosive Ordnance Disposal Eqpmt (EOD EQPMT)	MA9200	125	03	20.....	121
Family Of Engr Combat and Construction Sets	R70001	137	03	25.....	224
Family Of Forklifts	G41001	160	03	65.....	498
Family Of Non-Lethal Equipment (FNLE)	M11205	112	03	10.....	5
Family of Boats and Motors	R12001	128	03	20.....	147
Family of Diver Support Equipment	R07005	153	03	50.....	411
Field Feeding Equipment	M65800	135	03	25.....	195
Force Provider	M80200	134	03	25.....	187
Gaming Technology In Support of Army Training	NA0176	165	03	70.....	577
Generators And Associated Equip	MA9800	158	03	60.....	444
Grader, Road Mtzd, Hvy, 6X4 (CCE)	R03800	144	03	50.....	354
Grnd Standoff Mine Detectn Systm (GSTAMIDS)	R68400	119	03	20.....	70
Ground Soldier System	R80501	132	03	25.....	177
HUSKY MOUNTED DETECTION SYSTEM (HMDS)	R64001	121	03	20.....	87
Heaters and ECU's	MF9000	129	03	25.....	157
High Mobility Engineer Excavator (HMEE)	R05901	151	03	50.....	389

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Items Less Than \$5.0M (Float/Rail)	ML5355	157	03	55.....	436
Items Less Than \$5.0M (Maint Eq)	ML5345	143	03	45.....	349
Items Less Than \$5M (Eng Spt)	ML5301	138	03	25.....	258
M25 STABILIZED BINOCULAR	M62550	169	03	90.....	614
Mobile Maintenance Equipment Systems	G05301	142	03	45.....	318
Mobile Soldier Power	R80800	133	03	25.....	182
Modification Of In-Svc Equipment (OPA-3)	MA4500	173	03	90.....	648
Personnel Recovery Support System (PRSS)	G01101	131	03	25.....	168
Physical Security Systems (OPA3)	MA0780	171	03	90.....	629
Plant, Asphalt Mixing	M08100	150	03	50.....	386
Production Base Support (OTH)	MA0450	174	03	90.....	669
Protective Systems	W01103	111	03	10.....	1
QUALITY SURVEILLANCE EQUIPMENT	MB6400	139	03	30.....	265
Rapid Equipping Soldier Support Equipment	M80101	170	03	90.....	623
Remote Demolition Systems	M60001	126	03	20.....	129
Robotic Combat Support System (RCSS)	M80400	122	03	20.....	100
Robotics and Applique Systems	W12002	124	03	20.....	114

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Special Equipment For User Testing	MA6700	175	03	90.....	672
TRACTOR YARD	MA8975	177	03	90.....	683
Tactical Bridge, Float-Ribbon	MA8890	116	03	15.....	53
Tactical Bridging	MX0100	115	03	15.....	42
Tactical Electric Power Recapitalization	R42501	159	03	60.....	495
Test Equipment Modernization (TEMOD)	N11000	168	03	80.....	608
Tractor, Full Tracked	M05800	148	03	50.....	375
Training Devices, Nonsystem	NA0100	162	03	70.....	516

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Line No	Item Nomenclature	Ident Code	FY 2015 (Base & OCO)		FY 2016 Base Enacted		FY 2016 OCO Enacted		FY 2016 Total Enacted		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
Budget Activity 03: Other Support Equipment											
Chemical Defensive Equipment											
111	Protective Systems	A				248				248	U
112	Family of Non-Lethal Equipment (FNLE)	A		937		1,487				1,487	U
113	Base Defense Systems (BDS)	A		21,296				4,035		4,035	U
114	CBRN Defense	A		17,468		26,302				26,302	U
Bridging Equipment											
115	Tactical Bridging					9,822				9,822	U
116	Tactical Bridge, Float-Ribbon			5,442		21,516				21,516	U
117	Bridge Supplemental Set	A				4,959				4,959	U
118	Common Bridge Transporter (CBT) Recap	A		11,013		52,546				52,546	U
Engineer (Non-Construction) Equipment											
119	Grnd Standoff Mine Detectn Systm (GSTAMIDS)			37,649		58,682				58,682	U
120	Area Mine Detection System (AMDS)	A									U
121	Husky Mounted Detection System (HMDS)	A		18,545		13,565				13,565	U
122	Robotic Combat Support System (RCSS)			4,701		2,136				2,136	U

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			Quantity	Cost	Quantity	Cost	Quantity	Cost	
Budget Activity 03: Other Support Equipment									
Chemical Defensive Equipment									
111	Protective Systems	A		2,966				2,966	U
112	Family of Non-Lethal Equipment (FNLE)	A		9,795				9,795	U
113	Base Defense Systems (BDS)	A							U
114	CBRN Defense	A		17,922		1,841		19,763	U
Bridging Equipment									
115	Tactical Bridging			13,553		26,000		39,553	U
116	Tactical Bridge, Float-Ribbon			25,244				25,244	U
117	Bridge Supplemental Set	A		983				983	U
118	Common Bridge Transporter (CBT) Recap	A		25,176				25,176	U
Engineer (Non-Construction) Equipment									
119	Grnd Standoff Mine Detectn Systm (GSTAMIDS)			39,350				39,350	U
120	Area Mine Detection System (AMDS)	A		10,500				10,500	U
121	Husky Mounted Detection System (HMDS)	A		274				274	U
122	Robotic Combat Support System (RCSS)			2,951				2,951	U

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			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
123	EOD Robotics Systems Recapitalization	A		6,346		6,960				6,960	U
124	Robotics and Applique Systems										U
125	Explosive Ordnance Disposal Eqpmt (EOD EQPMT)			15,856		17,424				17,424	U
126	Remote Demolition Systems	A		4,485		8,284				8,284	U
127	< \$5m, Countermines Equipment	A		2,938		5,459				5,459	U
128	Family of Boats and Motors	A				8,429				8,429	U
	Combat Service Support Equipment										
129	Heaters and ECU'S	A		7,388		18,876				18,876	U
130	Soldier Enhancement			1,677		2,287				2,287	U
131	Personnel Recovery Support System (PRSS)	A		10,728		7,733				7,733	U
132	Ground Soldier System	A		71,761		49,798				49,798	U
133	Mobile Soldier Power	A				38,639				38,639	U
134	Force Provider	A		70,000				53,800		53,800	U
135	Field Feeding Equipment			15,179		13,118				13,118	U
136	Cargo Aerial Del & Personnel Parachute System			30,915		28,278		700		28,978	U
137	Family of Engr Combat and Construction Sets	A		41,967		34,544				34,544	U
138	Items Less Than \$5M (Eng Spt)	A		16,072		595				595	U
	Petroleum Equipment										
139	Quality Surveillance Equipment	A		1,435		5,368				5,368	U
140	Distribution Systems, Petroleum & Water			40,692		35,381				35,381	U

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			Quantity	Cost	Quantity	Cost	Quantity	Cost	
123	EOD Robotics Systems Recapitalization	A		1,949			1,949		U
124	Robotics and Applique Systems			5,203		268	5,471		U
125	Explosive Ordnance Disposal Eqpmt (EOD EQPMT)			5,570			5,570		U
126	Remote Demolition Systems	A		6,238			6,238		U
127	< \$5m, Countermines Equipment	A		836			836		U
128	Family of Boats and Motors	A		3,171		280	3,451		U
	Combat Service Support Equipment								
129	Heaters and ECU'S	A		18,707		894	19,601		U
130	Soldier Enhancement			2,112			2,112		U
131	Personnel Recovery Support System (PRSS)	A		10,856			10,856		U
132	Ground Soldier System	A		32,419			32,419		U
133	Mobile Soldier Power	A		30,014			30,014		U
134	Force Provider	A				53,800	53,800		U
135	Field Feeding Equipment			12,544		2,665	15,209		U
136	Cargo Aerial Del & Personnel Parachute System			18,509		2,400	20,909		U
137	Family of Engr Combat and Construction Sets	A		29,384		9,789	39,173		U
138	Items Less Than \$5M (Eng Spt)	A				300	300		U
	Petroleum Equipment								
139	Quality Surveillance Equipment	A		4,487		4,800	9,287		U
140	Distribution Systems, Petroleum & Water			42,656	174	78,240	174	120,896	U

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			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
Medical Equipment											
141	Combat Support Medical			44,392		73,828				73,828	U
Maintenance Equipment											
142	Mobile Maintenance Equipment Systems	A		27,776		25,270				25,270	U
143	Items Less Than \$5.0M (Maint Eq)	A		2,789		2,760				2,760	U
Construction Equipment											
144	Grader, Road Mtzd, Hvy, 6x4 (CCE)	A		5,827		5,903				5,903	U
145	Scrapers, Earthmoving	A		14,926		26,125				26,125	U
146	Compactor	A		4,348							U
147	Hydraulic Excavator	B		4,938							U
148	Tractor, Full Tracked	A		34,071		27,156				27,156	U
149	All Terrain Cranes	A		4,938		16,750				16,750	U
150	Plant, Asphalt Mixing			667		984				984	U
151	High Mobility Engineer Excavator (HMEE)	A				2,656				2,656	U
152	Enhanced Rapid Airfield Construction Capap	B		14,924		2,531				2,531	U
153	Family of Diver Support Equipment	A				446				446	U
154	Const Equip Esp			15,933		19,640				19,640	U
155	Items Less Than \$5.0M (Const Equip)	A		8,099		5,087				5,087	U
Rail Float Containerization Equipment											
156	Army Watercraft Esp	A		3,509		39,772				39,772	U
157	Items Less Than \$5.0M (Float/Rail)	A		2,166		5,835				5,835	U

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			Quantity	Cost	Quantity	Cost	Quantity	Cost	
Medical Equipment									
141	Combat Support Medical			59,761		5,763		65,524	U
Maintenance Equipment									
142	Mobile Maintenance Equipment Systems	A		35,694		1,609		37,303	U
143	Items Less Than \$5.0M (Maint Eq)	A		2,716		145		2,861	U
Construction Equipment									
144	Grader, Road Mtzd, Hvy, 6x4 (CCE)	A		1,742		3,047		4,789	U
145	Scrapers, Earthmoving	A		26,233				26,233	U
146	Compactor	A							U
147	Hydraulic Excavator	B		1,123				1,123	U
148	Tractor, Full Tracked	A				4,426		4,426	U
149	All Terrain Cranes	A		65,285				65,285	U
150	Plant, Asphalt Mixing								U
151	High Mobility Engineer Excavator (HMEE)	A		1,743		2,900		4,643	U
152	Enhanced Rapid Airfield Construction Capap	B		2,779				2,779	U
153	Family of Diver Support Equipment	A							U
154	Const Equip Esp			26,712				26,712	U
155	Items Less Than \$5.0M (Const Equip)	A		6,649		96		6,745	U
Rail Float Containerization Equipment									
156	Army Watercraft Esp	A		21,860				21,860	U
157	Items Less Than \$5.0M (Float/Rail)	A		1,967				1,967	U

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Line No	Item Nomenclature	Ident Code	FY 2015 (Base & OCO)		FY 2016 Base Enacted		FY 2016 OCO Enacted		FY 2016 Total Enacted		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
Generators											
158	Generators and Associated Equip	A		117,850		166,356				166,356	U
159	Tactical Electric Power Recapitalization	A				11,505				11,505	U
Material Handling Equipment											
160	Family of Forklifts	A		14,392		17,496		10,486		27,982	U
Training Equipment											
161	Combat Training Centers Support			76,362		74,916				74,916	U
162	Training Devices, Nonsystem			117,093		278,236				278,236	U
163	Close Combat Tactical Trainer	A		13,406		45,210				45,210	U
164	Aviation Combined Arms Tactical Trainer			10,040		30,068				30,068	U
165	Gaming Technology In Support of Army Training			10,165		9,793				9,793	U
Test Measure and Dig Equipment (TMD)											
166	Calibration Sets Equipment			5,726		4,650				4,650	U
167	Integrated Family of Test Equipment (IFTE)			37,482		34,487				34,487	U
168	Test Equipment Modernization (TEMOD)			11,711		11,083				11,083	U
Other Support Equipment											
169	M25 Stabilized Binocular	A									U
170	Rapid Equipping Soldier Support Equipment	A		22,380		17,937		8,500		26,437	U
171	Physical Security Systems (OPA3)	A		33,186		52,040				52,040	U
172	Base Level Common Equipment			1,008		1,568				1,568	U
173	Modification of In-Svc Equipment (OPA-3)			97,580		64,219				64,219	U

P-1C1: FY 2017 President's Budget (Published Version of PB Position), as of January 13, 2016 at 10:56:31

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Department of the Army  
 FY 2017 President's Budget  
 Exhibit P-1 FY 2017 President's Budget  
 Total Obligational Authority  
 (Dollars in Thousands)

13 Jan 2016

Appropriation: 2035A Other Procurement, Army

Line No	Item Nomenclature	Ident Code	FY 2017 Base		FY 2017 OCO		FY 2017 Total		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	
Generators									
158	Generators and Associated Equip	A		113,266		31,761		145,027	U
159	Tactical Electric Power Recapitalization	A		7,867				7,867	U
Material Handling Equipment									
160	Family of Forklifts	A		2,307		846		3,153	U
Training Equipment									
161	Combat Training Centers Support			75,359				75,359	U
162	Training Devices, Nonsystem			253,050				253,050	U
163	Close Combat Tactical Trainer	A		48,271				48,271	U
164	Aviation Combined Arms Tactical Trainer			40,000				40,000	U
165	Gaming Technology In Support of Army Training			11,543				11,543	U
Test Measure and Dig Equipment (TMD)									
166	Calibration Sets Equipment			4,963				4,963	U
167	Integrated Family of Test Equipment (IFTE)			29,781				29,781	U
168	Test Equipment Modernization (TEMOD)			6,342		1,140		7,482	U
Other Support Equipment									
169	M25 Stabilized Binocular	A		3,149				3,149	U
170	Rapid Equipping Soldier Support Equipment	A		18,003		8,500		26,503	U
171	Physical Security Systems (OPA3)	A		44,082				44,082	U
172	Base Level Common Equipment			2,168				2,168	U
173	Modification of In-Svc Equipment (OPA-3)			67,367				67,367	U

P-1C1: FY 2017 President's Budget (Published Version of PB Position), as of January 13, 2016 at 10:56:31

UNCLASSIFIED

Department of the Army  
 FY 2017 President's Budget  
 Exhibit P-1 FY 2017 President's Budget  
 Total Obligational Authority  
 (Dollars in Thousands)

13 Jan 2016

Appropriation: 2035A Other Procurement, Army

Line No	Item Nomenclature	Ident Code	FY 2015 (Base & OCO)		FY 2016 Base Enacted		FY 2016 OCO Enacted		FY 2016 Total Enacted		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
174	Production Base Support (OTH)			1,697		1,525				1,525	U
175	Special Equipment for User Testing			25,394		6,268				6,268	U
176	AMC Critical Items OPA3	A		7,785							U
177	Tractor Yard			3,100		7,191				7,191	U
178	Closed Account Adjustments			1							U
Total Other Support Equipment				1,250,151		1,561,727		77,521		1,639,248	
Budget Activity 04: Spare and Repair Parts											
-----											
OPA2											
179	Initial Spares - C&E			34,232		48,511				48,511	U
Total Spare and Repair Parts				34,232		48,511				48,511	
Total Other Procurement, Army				5,655,672		5,718,811		1,175,596		6,894,407	

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Department of the Army  
 FY 2017 President's Budget  
 Exhibit P-1 FY 2017 President's Budget  
 Total Obligational Authority  
 (Dollars in Thousands)

13 Jan 2016

Appropriation: 2035A Other Procurement, Army

Line No	Item Nomenclature	Ident Code	FY 2017 Base		FY 2017 OCO		FY 2017 Total		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	
174	Production Base Support (OTH)			1,528				1,528	U
175	Special Equipment for User Testing			8,289				8,289	U
176	AMC Critical Items OPA3	A							U
177	Tractor Yard			6,888				6,888	U
178	Closed Account Adjustments								U
Total Other Support Equipment				1,371,856		241,510		1,613,366	
Budget Activity 04: Spare and Repair Parts									
-----									
OPA2									
179	Initial Spares - C&E			27,243				27,243	U
Total Spare and Repair Parts				27,243				27,243	
Total Other Procurement, Army				5,873,949		1,373,010		7,246,959	

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**Exhibit P-40, Budget Line Item Justification:** PB 2017 Army **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 10: Chemical Defensive Equipment	<b>P-1 Line Item Number / Title:</b> W01103 / Protective Systems
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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<b>Line Item MDAP/MAIS Code:</b> N/A	<b>Item MDAP/MAIS Code(s):</b> N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	4	4,891	-	4,891	4,890	4,889	-	-	-	14,674
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	69.629	-	0.248	2.966	-	2.966	2.391	2.531	-	-	-	77.765
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	69.629	-	0.248	2.966	-	2.966	2.391	2.531	-	-	-	77.765
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>69.629</b>	<b>-</b>	<b>0.248</b>	<b>2.966</b>	<b>-</b>	<b>2.966</b>	<b>2.391</b>	<b>2.531</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>77.765</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost ( <i>\$ in Thousands</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Thousands</i> )	-	-	62.000	0.606	-	0.606	0.489	0.518	-	-	-	5.300

**Description:**

Protective Systems includes Kits for Evidence Collection and Detainee processing (KECDP). KECDP will support Military Police conducting detainee processing at the point of capture during offensive, defensive, stability, or civil support operations. As a result of operational need, units conducting detainee capture and processing have developed numerous ad hoc kits that lack standardization and sufficient items of quantity and quality to hold or prosecute captured personnel associated with criminal, insurgency and terrorist activities. The current Prisoner of War (POW) Kit does not contain any of the equipment used in modern detainee operations at the point of capture. Units are placed in a position through changing policies and regulations to purchase items not funded through operational funds for point of capture detainee processing. The current kits are not effective or safe for the Service Member or those detained and has resulted in improperly attained or mishandled processing of evidence found at the point of capture which has resulted in the releasing of persons that continue to engage in insurgent activities leading to injury and death of U.S. and Coalition Forces. KECDP Estimated Army Acquisition Objective (AAO): Individual Point of Capture Kit (IPOCK) 8,592; Leaders Point of Capture Kit (LPOCK) 2,685; Team Evidence Collection Kit (TECK); 1,611 Platoon Evidence Collection Kit(PECK)1,782

FY13-17 BAIS funding has been moved to Base Defense Systems (M90202).

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	Quantity	-	4	1,377	-	1,377	1,377	1,376	-
	Total Obligation Authority	-	0.248	1.021	-	1.021	0.832	0.878	-
ANG	Quantity	-	-	2,682	-	2,682	2,681	2,681	-
	Total Obligation Authority	-	-	1.449	-	1.449	1.160	1.230	-
AR	Quantity	-	-	832	-	832	832	832	-
	Total Obligation Authority	-	-	0.496	-	0.496	0.399	0.423	-
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	<b>-</b>	<b>4</b>	<b>4,891</b>	<b>-</b>	<b>4,891</b>	<b>4,890</b>	<b>4,889</b>	<b>-</b>
	<b>Total Obligation Authority</b>	<b>-</b>	<b>0.248</b>	<b>2.966</b>	<b>-</b>	<b>2.966</b>	<b>2.391</b>	<b>2.531</b>	<b>-</b>



**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** PB 2017 Army **Date:** February 2016

**Appropriation / Budget Activity / Budget Sub Activity:**  
 2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 10:  
 Chemical Defensive Equipment **P-1 Line Item Number / Title:**  
 W01103 / Protective Systems

**ID Code** (A=Service Ready, B=Not Service Ready): **Program Elements for Code B Items:** N/A **Other Related Program Elements:** N/A

**Line Item MDAP/MAIS Code:** N/A **Item MDAP/MAIS Code(s):** N/A

Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	G30115 / Kits for Evid Collection and Detainee Proc (KECDP)			- / -	- / -	4 / 0.248	4,891 / 2.966	- / -	4,891 / 2.966
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>			<b>- / 69.629</b>	<b>- / -</b>	<b>4 / 0.248</b>	<b>4,891 / 2.966</b>	<b>- / -</b>	<b>4,891 / 2.966</b>

\*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

**Justification:**  
 FY17 Base procurement funding in the amount of \$2.966 million procures a 2,864 IPOCK, 895 LPOCK, 537 TECK, and 595 PECK. KECDP kits will give our forces modernized and standardized evidence collection capability supporting the Military Police disciplines (Security and Mobility Support, Police Operations, & Detention Operations) and intelligence collection processes.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), these items are necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 10		<b>P-1 Line Item Number / Title:</b> W01103 / Protective Systems
		<b>Item Number / Title [DODIC]:</b> G30115 / Kits for Evid Collection and Detainee Proc (KECDP)

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>
Procurement Quantity (Units in Each)	-	-	4	4,891	-	4,891
Gross/Weapon System Cost (\$ in Millions)	-	-	0.248	2.966	-	2.966
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	-	0.248	2.966	-	2.966
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	-	-	<b>0.248</b>	<b>2.966</b>	-	<b>2.966</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	62.000	0.606	-	0.606

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

<b>Cost Elements</b>	<b>Prior Years</b>			<b>FY 2015</b>			<b>FY 2016</b>			<b>FY 2017 Base</b>			<b>FY 2017 OCO</b>			<b>FY 2017 Total</b>		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
<b>Hardware Cost</b>																		
<b>Recurring Cost</b>																		
IPOCK	-	-	-	-	-	-	0.130	1	*.***	0.130	2,864	0.372	-	-	-	0.130	2,864	0.372
LPOCK	-	-	-	-	-	-	0.270	1	*.***	0.270	895	0.242	-	-	-	0.270	895	0.242
TECK	-	-	-	-	-	-	0.340	1	*.***	0.340	537	0.183	-	-	-	0.340	537	0.183
PECK	-	-	-	-	-	-	1.050	1	0.001	1.050	595	0.625	-	-	-	1.050	595	0.625
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	0.002	-	-	1.421	-	-	-	-	-	1.421
<i>Subtotal: Hardware Cost</i>	-	-	-	-	-	-	-	-	<b>0.002</b>	-	-	<b>1.421</b>	-	-	-	-	-	<b>1.421</b>
<b>Support - Fielding Cost</b>																		
Fielding	-	-	-	-	-	-	-	-	0.049	-	-	0.330	-	-	-	-	-	0.330
<i>Subtotal: Support - Fielding Cost</i>	-	-	-	-	-	-	-	-	<b>0.049</b>	-	-	<b>0.330</b>	-	-	-	-	-	<b>0.330</b>
<b>Support - Production Engineering Cost</b>																		
Production Engineering	-	-	-	-	-	-	-	-	0.049	-	-	0.375	-	-	-	-	-	0.375
<i>Subtotal: Support - Production Engineering Cost</i>	-	-	-	-	-	-	-	-	<b>0.049</b>	-	-	<b>0.375</b>	-	-	-	-	-	<b>0.375</b>
<b>Support - Program Management Cost</b>																		
Government Management	-	-	-	-	-	-	-	-	0.100	-	-	0.490	-	-	-	-	-	0.490
<i>Subtotal: Support - Program Management Cost</i>	-	-	-	-	-	-	-	-	<b>0.100</b>	-	-	<b>0.490</b>	-	-	-	-	-	<b>0.490</b>
<b>Support - Quality Assurance Cost</b>																		

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 10	<b>P-1 Line Item Number / Title:</b> W01103 / Protective Systems	<b>Item Number / Title [DODIC]:</b> G30115 / Kits for Evid Collection and Detainee Proc (KECDP)
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :		<b>MDAP/MAIS Code:</b>

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Quality Assurance	-	-	-	-	-	-	-	-	0.048	-	-	0.350	-	-	-	-	-	0.350
<i>Subtotal: Support - Quality Assurance Cost</i>	-	-	-	-	-	-	-	-	<b>0.048</b>	-	-	<b>0.350</b>	-	-	-	-	-	<b>0.350</b>
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	-	<b>62.000</b>	<b>4</b>	<b>0.248</b>	<b>0.606</b>	<b>4,891</b>	<b>2.966</b>	-	-	-	<b>0.606</b>	<b>4,891</b>	<b>2.966</b>

\*.\*\*\* represents funding below \$1,000.00

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	-	4	1,377	-	1,377
	Total Obligation Authority	-	0.248	1.021	-	1.021
ANG	Quantity	-	-	2,682	-	2,682
	Total Obligation Authority	-	-	1.449	-	1.449
AR	Quantity	-	-	832	-	832
	Total Obligation Authority	-	-	0.496	-	0.496
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	-	<b>4</b>	<b>4,891</b>	-	<b>4,891</b>
	<b>Total Obligation Authority</b>	-	<b>0.248</b>	<b>2.966</b>	-	<b>2.966</b>

**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** PB 2017 Army **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 10: Chemical Defensive Equipment	<b>P-1 Line Item Number / Title:</b> M11205 / Family Of Non-Lethal Equipment (FNLE)
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready): B	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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<b>Line Item MDAP/MAIS Code:</b> N/A	<b>Item MDAP/MAIS Code(s):</b> N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	14	427	-	427	235	556	543	530	Continuing	Continuing
Gross/Weapon System Cost <i>(\$ in Millions)</i>	2.972	0.937	1.487	9.795	-	9.795	8.137	11.355	11.355	11.355	Continuing	Continuing
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	2.972	0.937	1.487	9.795	-	9.795	8.137	11.355	11.355	11.355	Continuing	Continuing
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority <i>(\$ in Millions)</i></b>	<b>2.972</b>	<b>0.937</b>	<b>1.487</b>	<b>9.795</b>	<b>-</b>	<b>9.795</b>	<b>8.137</b>	<b>11.355</b>	<b>11.355</b>	<b>11.355</b>	<b>Continuing</b>	<b>Continuing</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost <i>(\$ in Thousands)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Thousands)</i>	-	-	106.214	22.939	-	22.939	34.626	20.423	20.912	21.425	Continuing	Continuing

**Description:**

This line contains Non-Lethal Equipment, All Types.

M11309 The Acoustic Hailing Device (AHD) is a non-kinetic, long range hailing and warning device capable of producing highly directional sound beams to project warning tones and intelligible voice commands to distances of 300 meters with background noise present at the target's location. AHDs will support Military Police (MP) and Transportation units, to engage non-combatants during support and stability operations. Less than lethal force is desired and necessary to prevent and minimize civilian casualties. Equipment will allow Soldiers to effectively determine the intent of a person, crowd, vessel or vehicle at a safe distance and potentially deter them prior to escalating to lethal force. This item is Code B, not approved for service use.

M11206 The Remote Deployment Device (RDD) / Single Net solution (SNS) system is wheeled vehicle stopping system. The RDD is a hand-wound spring powered device with pulleys capable of deploying a SNS in 2 seconds. The SNS is a a single use net with spikes designed to stop wheeled vehicles up to 22,000 lbs. traveling up to 30 mph within 200 ft. The SNS can be hand emplaced or remotely deployed with an RDD from a standoff distance of up to 100 meters. A complete RDD/SNS system includes (1) RDD and (4) SNS. This item is Code B, not approved for service use.

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	-	14	344	-	344	68	172	168	164
	0.937	1.487	6.141	-	6.141	2.360	3.520	3.520	3.520
ANG	-	-	55	-	55	117	286	278	272
	-	-	2.413	-	2.413	4.069	5.791	5.791	5.791
AR	-	-	28	-	28	50	98	97	94
	-	-	1.241	-	1.241	1.708	2.044	2.044	2.044
<b>Total:</b>	<b>-</b>	<b>14</b>	<b>427</b>	<b>-</b>	<b>427</b>	<b>235</b>	<b>556</b>	<b>543</b>	<b>530</b>
<b>Secondary Distribution</b>	<b>0.937</b>	<b>1.487</b>	<b>9.795</b>	<b>-</b>	<b>9.795</b>	<b>8.137</b>	<b>11.355</b>	<b>11.355</b>	<b>11.355</b>

**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** PB 2017 Army **Date:** February 2016

**Appropriation / Budget Activity / Budget Sub Activity:**  
 2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 10:  
 Chemical Defensive Equipment **P-1 Line Item Number / Title:**  
 M11205 / Family Of Non-Lethal Equipment (FNLE)

**ID Code** (A=Service Ready, B=Not Service Ready): B **Program Elements for Code B Items:** N/A **Other Related Program Elements:** N/A

**Line Item MDAP/MAIS Code:** N/A **Item MDAP/MAIS Code(s):** N/A

Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	M11206 / REMOTE DEPLOYED DEVICE (RDD)	P-5a, P-21		- / -	- / -	- / -	315 / 4.909	- / -	315 / 4.909
P-5	M11309 / ACOUSTIC HAILING DEVICE (AHD)	P-5a, P-21	B	- / 2.972	- / 0.937	14 / 1.487	112 / 4.886	- / -	112 / 4.886
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>			<b>- / 2.972</b>	<b>- / 0.937</b>	<b>14 / 1.487</b>	<b>427 / 9.795</b>	<b>- / -</b>	<b>427 / 9.795</b>

\*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

**Justification:**  
 FY 2017 Base procurement dollars in the amount of \$9.795 million supports procurement of 112 AHDs and supports the procurement of 63 RDD/SNS Systems (63 RDDs and 252 SNSs). Funding also supports Fielding and New Equipment Training (NET).  
  
 In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

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<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 10		<b>P-1 Line Item Number / Title:</b> M11205 / Family Of Non-Lethal Equipment (FNLE)
		<b>Item Number / Title [DODIC]:</b> M11206 / REMOTE DEPLOYED DEVICE (RDD)

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>
Procurement Quantity <i>(Units in Each)</i>	-	-	-	315	-	315
Gross/Weapon System Cost <i>(\$ in Millions)</i>	-	-	-	4.909	-	4.909
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	-	-	-	4.909	-	4.909
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
<b>Total Obligation Authority</b> <i>(\$ in Millions)</i>	-	-	-	<b>4.909</b>	-	<b>4.909</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Thousands)</i>	-	-	-	15.584	-	15.584

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

<b>Cost Elements</b>	<b>Prior Years</b>			<b>FY 2015</b>			<b>FY 2016</b>			<b>FY 2017 Base</b>			<b>FY 2017 OCO</b>			<b>FY 2017 Total</b>		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
<b>Hardware Cost</b>																		
<b>Recurring Cost</b>																		
Remote Deployed Device (RDD) <sup>(†)</sup>	-	-	-	-	-	-	-	-	-	13.360	315	4.208	-	-	-	13.360	315	4.208
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	-	4.208	-	-	-	-	-	4.208
<i>Subtotal: Hardware Cost</i>	-	-	-	-	-	-	-	-	-	-	-	4.208	-	-	-	-	-	4.208
<b>Support Cost</b>																		
Production Engineering	-	-	-	-	-	-	-	-	-	-	-	0.701	-	-	-	-	-	0.701
<i>Subtotal: Support Cost</i>	-	-	-	-	-	-	-	-	-	-	-	0.701	-	-	-	-	-	0.701
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	-	-	-	-	15.584	315	4.909	-	-	-	15.584	315	4.909

<b>Secondary Distribution</b>		<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>
Army	Quantity	-	-	315	-	315
	Total Obligation Authority	-	-	4.909	-	4.909
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	-	-	315	-	315
	<b>Total Obligation Authority</b>	-	-	4.909	-	4.909

(†) indicates the presence of a P-5a

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<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2017 Army							<b>Date:</b> February 2016					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 10			<b>P-1 Line Item Number / Title:</b> M11205 / Family Of Non-Lethal Equipment (FNLE)				<b>Item Number / Title [DODIC]:</b> M11206 / REMOTE DEPLOYED DEVICE (RDD)					
<b>Cost Elements</b>	<b>O C O</b>	<b>FY</b>	<b>Contractor and Location</b>	<b>Method/Type or Funding Vehicle</b>	<b>Location of PCO</b>	<b>Award Date</b>	<b>Date of First Delivery</b>	<b>Qty (Each)</b>	<b>Unit Cost (\$ K)</b>	<b>Specs Avail Now?</b>	<b>Date Revision Available</b>	<b>RFP Issue Date</b>
Remote Deployed Device (RDD) <sup>(†)</sup>		2017	TBS / TBS	C / FFP	Picatinny Arsenal, NJ	May 2017	Dec 2018	315	13.360			

<sup>(†)</sup> indicates the presence of a P-21

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<b>Exhibit P-21, Production Schedule:</b> PB 2017 Army															<b>Date:</b> February 2016														
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 10										<b>P-1 Line Item Number / Title:</b> M11205 / Family Of Non-Lethal Equipment (FNLE)										<b>Item Number / Title [DODIC]:</b> M11206 / REMOTE DEPLOYED DEVICE (RDD)									

Cost Elements <i>(Units in Each)</i>				Fiscal Year 2017														Fiscal Year 2018														BALANCE			
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2016	BAL DUE AS OF 1 OCT	Calendar Year 2017														Calendar Year 2018														
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					
Remote Deployed Device (RDD)																																			
	1	2017	ARMY	315	-	315										A	-	-	-	-	-	-	-	-	-	-	-	-	-	315					
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					



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<b>Exhibit P-21, Production Schedule:</b> PB 2017 Army															<b>Date:</b> February 2016														
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 10										<b>P-1 Line Item Number / Title:</b> M11205 / Family Of Non-Lethal Equipment (FNLE)										<b>Item Number / Title [DODIC]:</b> M11206 / REMOTE DEPLOYED DEVICE (RDD)									

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2019												Fiscal Year 2020												BALANCE	
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2018	BAL DUE AS OF 1 OCT	Calendar Year 2019												Calendar Year 2020												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P

Remote Deployed Device (RDD)																																-
1	2017	ARMY	315	-	315	-	-	40	40	40	40	40	40	40	40	35																

O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P										
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<b>Exhibit P-21, Production Schedule:</b> PB 2017 Army		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 10		<b>P-1 Line Item Number / Title:</b> M11205 / Family Of Non-Lethal Equipment (FNLE)
		<b>Item Number / Title [DODIC]:</b> M11206 / REMOTE DEPLOYED DEVICE (RDD)

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2017	1-8-5 For 2017	MAX For 2017	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	TBS - TBS	10	125	200	15	15	4	19	15	15	2	17

"A" in the Delivery Schedule indicates the Contract Award Date.

**Note:** Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

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<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 10		<b>P-1 Line Item Number / Title:</b> M11205 / Family Of Non-Lethal Equipment (FNLE)
		<b>Item Number / Title [DODIC]:</b> M11309 / ACOUSTIC HAILING DEVICE (AHD)

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : B	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	-	-	14	112	-	112
Gross/Weapon System Cost (\$ in Millions)	2.972	0.937	1.487	4.886	-	4.886
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	2.972	0.937	1.487	4.886	-	4.886
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	<b>2.972</b>	<b>0.937</b>	<b>1.487</b>	<b>4.886</b>	<b>-</b>	<b>4.886</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	106.214	43.625	-	43.625

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
Acoustic Hailing Device System <sup>(†)</sup>	-	-	-	-	-	-	26.750	14	0.375	27.720	112	3.105	-	-	-	27.720	112	3.105
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	0.375	-	-	3.105	-	-	-	-	-	3.105
<i>Subtotal: Hardware Cost</i>	-	-	-	-	-	-	-	-	0.375	-	-	3.105	-	-	-	-	-	3.105
Support Cost																		
Production Engineering	-	-	2.972	-	-	0.720	-	-	0.724	-	-	0.859	-	-	-	-	-	0.859
Fielding and NET	-	-	-	-	-	-	-	-	-	-	-	0.922	-	-	-	-	-	0.922
Testing	-	-	-	-	-	0.217	-	-	0.239	-	-	-	-	-	-	-	-	-
Log Demonstration	-	-	-	-	-	-	-	-	0.150	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support Cost</i>	-	-	2.972	-	-	0.937	-	-	1.113	-	-	1.781	-	-	-	-	-	1.781
<b>Gross/Weapon System Cost</b>	-	-	2.972	-	-	0.937	106.214	14	1.487	43.625	112	4.886	-	-	-	43.625	112	4.886

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	-	14	29	-	29
	Total Obligation Authority	0.937	1.487	1.232	-	1.232
ANG	Quantity	-	-	55	-	55
	Total Obligation Authority	-	-	2.413	-	2.413

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<b>Exhibit P-5, Cost Analysis:</b> PB 2017 Army		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 10	<b>P-1 Line Item Number / Title:</b> M11205 / Family Of Non-Lethal Equipment (FNLE)	<b>Item Number / Title [DODIC]:</b> M11309 / ACOUSTIC HAILING DEVICE (AHD)

**ID Code** (A=Service Ready, B=Not Service Ready) : B **MDAP/MAIS Code:**

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
AR	Quantity	-	-	28	-	28
	Total Obligation Authority	-	-	1.241	-	1.241
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	-	14	112	-	112
	<b>Total Obligation Authority</b>	0.937	1.487	4.886	-	4.886

(t) indicates the presence of a P-5a

**UNCLASSIFIED**

<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2017 Army							<b>Date:</b> February 2016				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 10			<b>P-1 Line Item Number / Title:</b> M11205 / Family Of Non-Lethal Equipment (FNLE)				<b>Item Number / Title [DODIC]:</b> M11309 / ACOUSTIC HAILING DEVICE (AHD)				

<b>Cost Elements</b>	<b>O C O</b>	<b>FY</b>	<b>Contractor and Location</b>	<b>Method/Type or Funding Vehicle</b>	<b>Location of PCO</b>	<b>Award Date</b>	<b>Date of First Delivery</b>	<b>Qty (Each)</b>	<b>Unit Cost (\$ K)</b>	<b>Specs Avail Now?</b>	<b>Date Revision Available</b>	<b>RFP Issue Date</b>
Acoustic Hailing Device System <sup>(†)</sup>		2016	TBS / TBS	C / FFP	Picatinny, NJ	May 2016	Sep 2017	14	26.750	Y		
Acoustic Hailing Device System <sup>(†)</sup>		2017	TBS / TBS	C / FFP	Picatinny, NJ	May 2017	Jul 2018	112	27.720	Y		

<sup>(†)</sup> indicates the presence of a P-21



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<b>Exhibit P-21, Production Schedule:</b> PB 2017 Army															<b>Date:</b> February 2016														
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 10										<b>P-1 Line Item Number / Title:</b> M11205 / Family Of Non-Lethal Equipment (FNLE)										<b>Item Number / Title [DODIC]:</b> M11309 / ACOUSTIC HAILING DEVICE (AHD)									

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2018												Fiscal Year 2019												B A L A N C E	
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2017	BAL DUE AS OF 1 OCT	Calendar Year 2018												Calendar Year 2019												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P
Acoustic Hailing Device System																															
	1	2016	ARMY	14	14	-																								-	
	1	2017	ARMY	112	-	112	-	-	-	-	-	-	-	-	-	20	20	20	20	20	20	12									-
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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<b>Exhibit P-21, Production Schedule:</b> PB 2017 Army		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 10		<b>P-1 Line Item Number / Title:</b> M11205 / Family Of Non-Lethal Equipment (FNLE)
		<b>Item Number / Title [DODIC]:</b> M11309 / ACOUSTIC HAILING DEVICE (AHD)

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2017	1-8-5 For 2017	MAX For 2017	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	TBS - TBS	10	125	200	15	15	4	19	15	15	2	17

"A" in the Delivery Schedule indicates the Contract Award Date.

**Note:** Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).



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**Exhibit P-40, Budget Line Item Justification:** PB 2017 Army **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 10: Chemical Defensive Equipment	<b>P-1 Line Item Number / Title:</b> M90101 / Base Defense Systems (BDS)
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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<b>Line Item MDAP/MAIS Code:</b> N/A	<b>Item MDAP/MAIS Code(s):</b> N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	9	19	64	48	Continuing	Continuing
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	34.183	21.296	4.035	-	-	-	8.042	23.336	40.655	31.483	Continuing	Continuing
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	34.183	21.296	4.035	-	-	-	8.042	23.336	40.655	31.483	Continuing	Continuing
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>34.183</b>	<b>21.296</b>	<b>4.035</b>	-	-	-	<b>8.042</b>	<b>23.336</b>	<b>40.655</b>	<b>31.483</b>	<b>Continuing</b>	<b>Continuing</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost ( <i>\$ in Thousands</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Thousands</i> )	-	-	-	-	-	-	893.556	1,228.211	635.234	655.896	Continuing	Continuing

**Description:**

Base Defense Systems (BDS) includes Non-Intrusive Inspection Systems (NIIS) (M90108), Battlefield Anti-Intrusion System (BAIS) (M90202), Lighting Kit Motion Detection (LKMD) (M90204), Integrated Ground Security, Surveillance and Response Capability (IGSSR-C)(M90106) and Integrated Base Defense (IBD) Kitting (M90115)

NIIS is a family of systems that inspects for the presence of explosives, weapons and other contraband in vehicles, cargo containers and personnel from a distance providing stand-off ballistic and blast protection. The current family of systems includes the Z-backscatter Van (ZBV), Military Mobile Vehicle and Cargo Inspection System (MMVACIS) and personnel scanners such as the Secure-1000. All systems are either mobile or fully relocatable. It is a force multiplier that maximizes protection of personnel, equipment and installations while minimizing manpower requirements. NIIS provides the capability to non-intrusively inspect vehicles, cargo containers and personnel for the presence of explosives, weapons or other contraband which can kill or injure Soldiers and destroy critical warfighting materiel. NIIS supports the urgent need for Counter-Improvised Explosive Device equipment to support military operations.

BAIS is a compact, modular, light-weight, unattended tactical ground seismic/acoustic sensor that provides tactical units and Forward Operating Bases with an enhanced force protection capability. BAIS enhances force protection and provides early detection and warning of personnel and wheeled or tracked vehicles, increasing situational awareness during defensive and ambush-type operations. BAIS can be integrated into a layered system of systems force protection plan for small tactical units. BAIS is also one of the sub-systems included in the Force Protection Suite that is part of the Base Expeditionary Targeting and Surveillance System, Combined, employed in Forward Operating Bases (FOB) and Combat Outpost (COP) defense and force protection. BAIS provides combat Soldiers a force multiplier force protection system that significantly increases the combat potential and Soldier survivability, enhancing the probability of successful mission accomplishment. BAIS replaces the Platoon Early Warning System (PEWS), which is no longer in production. The Army Acquisition Objective (AAO) is 8,933 systems.

LKMD is a lightweight, man-portable, easily emplaced and recoverable motion activated warning device. LKMD provides an early detection and warning capability enhancing force protection and situational awareness during all types of combat operations. LKMD is a motion activated (Infrared (IR) and Microwave) warning and illumination (visible light, IR and strobe) system. LKMD can be employed in a stand-alone configuration or as part of an integrated protection plan. LKMD provides small-unit Commanders with close-in warning of imminent intrusion and illuminates the intrusion where it occurs, permitting easier identification and facilitating appropriate responses. LKMD systems will be organic to appropriate tactical units. LKMD provides support systems to Army units either operating in or deploying to combat theaters, thereby increasing force protection posture. The Army fielding plan, based on the approved Basis of Issue Plan, requires systems be provided to the following types of units: Military Police, Infantry, Armor and Combat Engineers. LKMD replaces the M49 Trip Flare, Electronic which is no longer in production. The Army Acquisition Objective (AAO) is 23,545 systems.

**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** PB 2017 Army **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 10: Chemical Defensive Equipment	<b>P-1 Line Item Number / Title:</b> M90101 / Base Defense Systems (BDS)
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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<b>Line Item MDAP/MAIS Code:</b> N/A	<b>Item MDAP/MAIS Code(s):</b> N/A
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The IGSSR-C is a Joint Requirement that provides a layered approach to integrate sensors, sensor systems and unmanned systems with automated fusion capabilities to create an in-depth security, surveillance and response Force Protection (FP) COP capability for CONUS fixed, OCONUS semi-fixed or expeditionary elements in all Operating Environments (OE). This capability will enable rapid decision analysis, speed the response process as well as increase information dissemination horizontally and vertically along the chain of command and with outside supporting organizations. IGSSR-C is a software centric fusion engine that connects legacy and emerging FP systems, legacy Chemical, Biological, Radiological, Nuclear, and Explosive (CBRNE), unmanned systems, biometric identification and forensic data systems. The desired end state is to achieve interoperability with current and emerging FP systems used by Joint Forces, Department of Defense (DoD) agencies and multi-national forces.

The purpose of IBD Kitting is to harvest and refurbish physical security and FP Non-Standard Equipment and package them into integrated and interoperable IBD capabilities. IBD packages support expeditionary ground operations and provide a bridge to the enduring IBD capability. IBD kits are integrated into a System of Systems (SoS) to provide an interim IBD capability to increase protective effectiveness, enhance situational awareness and reduce troop-to-task requirements.

The Tactical Security System (TSS) provides a modular, scalable, lightweight, rapidly deployable, ground based security and surveillance Family of Systems designed for hasty emplacement to support short and long term security, surveillance and detection missions. The system will be tailorable to support various missions including internment/resettlement operations; perimeter security; internal security within base camps or installations; external security outside the perimeter and route clearance. TSS will be employed at fixed, semi-fixed or expeditionary sites providing all weather imaging during daylight/twilight and during periods of limited visibility regardless of environmental conditions to enhance the Commander's situational awareness and increase Soldier survivability. TSS is designed to be employed as a stand-alone, in a layered effort or integrated with additional force protection systems including motion, acoustic, seismic, surface and subterranean detection technologies.

TSS will address four of the five base camp core protection/security capabilities identified in the IBD Concept of Operations including perimeter security, entry control, persistent surveillance and warning and alerting. TSS can be employed in support of contingency, short-notice, early-entry operations in a variety of weather and terrain from open desert to complex urban environments. TSS will assist in countering individuals and provide clandestine observation of detainees, individuals, either on foot or in vehicles from intruding into areas designated for security purposes. TSS will allow the Commander to detect and observe enemy or adversarial forces from a distance prior to entering the base area of operations. This advanced warning will allow the Commander to better deploy forces in a more effective manner to mitigate threat.

<b>Secondary Distribution</b>		<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>
Army	Quantity	-	-	-	-	-	9	14	46	34
	Total Obligation Authority	21.296	4.035	-	-	-	8.042	16.930	29.188	21.879
ANG	Quantity	-	-	-	-	-	-	2	8	7
	Total Obligation Authority	-	-	-	-	-	-	2.745	5.212	4.802
AR	Quantity	-	-	-	-	-	-	3	10	7
	Total Obligation Authority	-	-	-	-	-	-	3.661	6.255	4.802
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	-	-	-	-	-	<b>9</b>	<b>19</b>	<b>64</b>	<b>48</b>
	<b>Total Obligation Authority</b>	<b>21.296</b>	<b>4.035</b>	-	-	-	<b>8.042</b>	<b>23.336</b>	<b>40.655</b>	<b>31.483</b>

**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** PB 2017 Army **Date:** February 2016

**Appropriation / Budget Activity / Budget Sub Activity:**  
 2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 10:  
 Chemical Defensive Equipment **P-1 Line Item Number / Title:**  
 M90101 / Base Defense Systems (BDS)

**ID Code** (A=Service Ready, B=Not Service Ready): **Program Elements for Code B Items:** N/A **Other Related Program Elements:** N/A

**Line Item MDAP/MAIS Code:** N/A **Item MDAP/MAIS Code(s):** N/A

Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	M90108 / NON-INTRUSIVE INSPECTION SYSTEMS (NIIS)			- / 2.740	- / 6.455	- / 1.345	- / -	- / -	- / -
P-5	M90202 / BATTLEFIELD ANTI-INTRUSION SYSTEM (BAIS)			- / 31.443	- / 6.456	- / 1.345	- / -	- / -	- / -
P-40a	M90204 / LIGHTING KIT, MOTION DETECTOR (LKMD), AN/GAR-2			- / -	- / 8.385	- / 1.345	- / -	- / -	- / -
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>			<b>- / 34.183</b>	<b>- / 21.296</b>	<b>- / 4.035</b>	<b>- / -</b>	<b>- / -</b>	<b>- / -</b>

\*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

**Justification:**  
 No FY17 funding request

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 10	<b>P-1 Line Item Number / Title:</b> M90101 / Base Defense Systems (BDS)	<b>Item Number / Title [DODIC]:</b> M90108 / NON-INTRUSIVE INSPECTION SYSTEMS (NIIS)

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	2.740	6.455	1.345	-	-	-
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	2.740	6.455	1.345	-	-	-
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>2.740</b>	<b>6.455</b>	<b>1.345</b>	-	-	-

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Thousands</i> )	-	-	-	-	-	-

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

<b>Cost Elements</b>	<b>Prior Years</b>			<b>FY 2015</b>			<b>FY 2016</b>			<b>FY 2017 Base</b>			<b>FY 2017 OCO</b>			<b>FY 2017 Total</b>		
	<b>Unit Cost</b> (\$ K)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ K)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ K)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ K)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ K)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ K)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)
Flyaway Cost																		
Recurring Cost																		
Hardware	-	-	2.740	-	-	6.455	-	-	1.345	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	2.740	-	-	6.455	-	-	1.345	-	-	-	-	-	-	-	-	-
<i>Subtotal: Flyaway Cost</i>	-	-	2.740	-	-	6.455	-	-	1.345	-	-	-	-	-	-	-	-	-
<b>Gross/Weapon System Cost</b>	-	-	<b>2.740</b>	-	-	<b>6.455</b>	-	-	<b>1.345</b>	-	-	-	-	-	-	-	-	-

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 10	<b>P-1 Line Item Number / Title:</b> M90101 / Base Defense Systems (BDS)	<b>Item Number / Title [DODIC]:</b> M90202 / BATTLEFILELD ANTI-INTRUSION SYSTEM (BAIS)

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	31.443	6.456	1.345	-	-	-
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	31.443	6.456	1.345	-	-	-
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>31.443</b>	<b>6.456</b>	<b>1.345</b>	-	-	-

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Thousands</i> )	-	-	-	-	-	-

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

<b>Cost Elements</b>	<b>Prior Years</b>			<b>FY 2015</b>			<b>FY 2016</b>			<b>FY 2017 Base</b>			<b>FY 2017 OCO</b>			<b>FY 2017 Total</b>		
	<b>Unit Cost</b> (\$ K)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ K)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ K)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ K)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ K)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ K)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)
Flyaway Cost																		
Recurring Cost																		
BAIS Systems	-	-	15.872	-	-	6.456	-	-	1.345	-	-	-	-	-	-	-	-	-
Fielding Support	-	-	12.511	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Government Program Management Support	-	-	1.689	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SETA Contract Support	-	-	1.371	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	31.443	-	-	6.456	-	-	1.345	-	-	-	-	-	-	-	-	-
<i>Subtotal: Flyaway Cost</i>	-	-	31.443	-	-	6.456	-	-	1.345	-	-	-	-	-	-	-	-	-
<b>Gross/Weapon System Cost</b>	-	-	<b>31.443</b>	-	-	<b>6.456</b>	-	-	<b>1.345</b>	-	-	-	-	-	-	-	-	-

**UNCLASSIFIED**

**Exhibit P-40a, Budget Item Justification For Aggregated Items:** PB 2017 Army **Date:** February 2016

**Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 03 / 10 **P-1 Line Item Number / Title:** M90101 / Base Defense Systems (BDS) **Aggregated Items Title:** Various

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
			Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
<b>LIGHTING KIT, MOTION DETECTOR (LKMD), AN/GAR-2</b>																				
M90204 / LIGHTING KIT, MOTION DETECTOR (LKMD), AN/GAR-2			-	-	-	-	-	8.385	-	-	1.345	-	-	-	-	-	-	-	-	-
<b>Subtotal: LIGHTING KIT, MOTION DETECTOR (LKMD), AN/GAR-2</b>			-	-	-	-	-	8.385	-	-	1.345	-	-	-	-	-	-	-	-	-
<b>Total</b>			-	-	-	-	-	8.385	-	-	1.345	-	-	-	-	-	-	-	-	-

Note: Subtotals or Totals in this Exhibit P-40a may not be exact or sum exactly, due to rounding.

**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** PB 2017 Army **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 10: Chemical Defensive Equipment	<b>P-1 Line Item Number / Title:</b> M01001 / CBRN Defense
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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<b>Line Item MDAP/MAIS Code:</b> N/A	<b>Item MDAP/MAIS Code(s):</b> N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	52	-	-	14,188	162	14,350	-	-	-	-	Continuing	Continuing
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	227.286	17.468	26.302	17.922	1.841	19.763	14.918	39.652	46.280	74.829	Continuing	Continuing
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	227.286	17.468	26.302	17.922	1.841	19.763	14.918	39.652	46.280	74.829	Continuing	Continuing
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>227.286</b>	<b>17.468</b>	<b>26.302</b>	<b>17.922</b>	<b>1.841</b>	<b>19.763</b>	<b>14.918</b>	<b>39.652</b>	<b>46.280</b>	<b>74.829</b>	<b>Continuing</b>	<b>Continuing</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost ( <i>\$ in Thousands</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Thousands</i> )	4,370.885	-	-	1.263	11.364	1.377	-	-	-	-	Continuing	Continuing

**Description:**

Funds acquisition of critically required Chemical Biological equipment needed to support Army mission requirements in five primary categories: Collective Protection (M01006), Decontamination (M01007), Contamination Avoidance (M01008), Individual Protection (M99001), and Weapons of Mass Destruction (WMD) Elimination (M01011). Collective protection platforms include hard and soft wall shelters, vehicles, and structures. The Decontamination program consists of the Joint Service Transportable Decontamination System, Small Scale (JSTDS-SS). The Contamination Avoidance program includes systems that provide detection, identification, collection and reporting of Chemical, Biological, Radiological and Nuclear (CBRN) hazards. The Individual Protection program provides Protective Masks and test equipment. The WMD Elimination (M01011) procurement efforts support missions to systematically detect, locate, characterize, identify, secure, disable and/or destroy WMD weapons, materials and related capabilities within CONUS, OCONUS and Theater.

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	Quantity	-	-	12,405	162	12,567	-	-	-
	Total Obligation Authority	17.468	26.302	3.572	1.841	5.413	14.918	39.652	46.280
ANG	Quantity	-	-	1,022	-	1,022	-	-	-
	Total Obligation Authority	-	-	9.781	-	9.781	-	-	-
AR	Quantity	-	-	761	-	761	-	-	-
	Total Obligation Authority	-	-	4.569	-	4.569	-	-	-
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	<b>-</b>	<b>-</b>	<b>14,188</b>	<b>162</b>	<b>14,350</b>	<b>-</b>	<b>-</b>	<b>-</b>
	<b>Total Obligation Authority</b>	<b>17.468</b>	<b>26.302</b>	<b>17.922</b>	<b>1.841</b>	<b>19.763</b>	<b>14.918</b>	<b>39.652</b>	<b>46.280</b>

**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** PB 2017 Army **Date:** February 2016

**Appropriation / Budget Activity / Budget Sub Activity:**  
2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 10: Chemical Defensive Equipment

**P-1 Line Item Number / Title:**  
M01001 / CBRN Defense

**ID Code** (A=Service Ready, B=Not Service Ready): **Program Elements for Code B Items:** N/A **Other Related Program Elements:** N/A

**Line Item MDAP/MAIS Code:** N/A **Item MDAP/MAIS Code(s):** N/A

Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	M01006 / COLLECTIVE PROTECTION (CP)	P-5a, P-21		- / 17.992	- / 2.963	- / 21.343	16 / 13.740	- / -	16 / 13.740
P-5	M01008 / CONTAMINATION AVOIDANCE (CA)	P-5a, P-21		- / 205.294	- / -	- / -	5,151 / 1.723	162 / 1.841	5,313 / 3.564
P-5	M01011 / CBRNE WMD - Elimination	P-5a, P-21		52 / 4.000	- / 14.505	- / 4.959	9,021 / 2.459	- / -	9,021 / 2.459
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>			<b>52 / 227.286</b>	<b>- / 17.468</b>	<b>- / 26.302</b>	<b>14,188 / 17.922</b>	<b>162 / 1.841</b>	<b>14,350 / 19.763</b>

\*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

**Justification:**

FY17 Base dollars in the amount of \$17.922 million supports the procurement of Chemical Biological Protective Shelter (CBPS) Systems. The CBPS provides the Forward Surgical Team (FST) and the Area Support Medical Company (ASMC) with a CB protective shelter system that allows their mission to continue in a chemical/biological environment. The FST and ASMC, which by doctrine must function together, are critical assets to the Brigade Combat Team Commander. The CBPS also provides chemical protective shelter capabilities to the Role 1 Medical Treatment Facility (MTF)/Battalion Aide Station (BAS) mission. In addition, funding supports the procurement and fielding of National Fire Protection Act (NFPA) Class One, Two, and Three Personal Protective Equipment (PPE) suits in support of United States Army North (ARNORTH) Defense CBRNE Response Force (DCRF) and Command and Control CBRNE Response Element (C2CRE) units. This effort supports Headquarters, Department of Army (DA) Operational Project (OPROJ) P24 dated 03 Jun 11 for U. S. Army North (ARNORTH) Logistics Support to Joint Task Force/DA. Personal Protective Equipment (PPE).

FY17 OCO funding in the amount of \$1.841 will procure Joint Chemical Agent Detector and Communication Adapter capabilities for use in theater.



**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 10	<b>P-1 Line Item Number / Title:</b> M01001 / CBRN Defense	<b>Item Number / Title [DODIC]:</b> M01006 / COLLECTIVE PROTECTION (CP)

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>
Procurement Quantity (Units in Each)	-	-	-	16	-	16
Gross/Weapon System Cost (\$ in Millions)	17.992	2.963	21.343	13.740	-	13.740
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	17.992	2.963	21.343	13.740	-	13.740
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	<b>17.992</b>	<b>2.963</b>	<b>21.343</b>	<b>13.740</b>	<b>-</b>	<b>13.740</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	858.750	-	858.750

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

<b>Cost Elements</b>	<b>Prior Years</b>			<b>FY 2015</b>			<b>FY 2016</b>			<b>FY 2017 Base</b>			<b>FY 2017 OCO</b>			<b>FY 2017 Total</b>		
	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>
<b>Flyaway Cost</b>																		
<b>Recurring Cost</b>																		
CB Protective Shelter <sup>(†)</sup>	1,799.200	10	17.992	728.736	3	2.186	818.667	25	20.467	837.984	16	13.408	-	-	-	837.984	16	13.408
Bed Reinforcement Kit	-	-	-	6.000	3	0.018	6.196	25	0.155	6.381	16	0.102	-	-	-	6.381	16	0.102
Stowage Bay Kit	-	-	-	4.667	3	0.014	0.293	25	0.007	0.302	16	0.005	-	-	-	0.302	16	0.005
M98 Filter Set	-	-	-	1.585	6	0.010	1.750	50	0.088	1.750	32	0.056	-	-	-	1.750	32	0.056
Handheld Remote Control Radio Device	-	-	-	1.000	3	0.003	2.167	25	0.054	2.167	16	0.035	-	-	-	2.167	16	0.035
Total Package Fielding (Spares)	-	-	-	3.402	3	0.010	3.500	25	0.088	3.605	16	0.058	-	-	-	3.605	16	0.058
<i>Subtotal: Recurring Cost</i>	-	-	17.992	-	-	2.241	-	-	20.858	-	-	13.663	-	-	-	-	-	13.663
<i>Subtotal: Flyaway Cost</i>	-	-	17.992	-	-	2.241	-	-	20.858	-	-	13.663	-	-	-	-	-	13.663
<b>Support - Staging and Transportation Cost</b>																		
Staging and Transportation	-	-	-	-	-	0.722	-	-	0.485	-	-	0.077	-	-	-	-	-	0.077
<i>Subtotal: Support - Staging and Transportation Cost</i>	-	-	-	-	-	0.722	-	-	0.485	-	-	0.077	-	-	-	-	-	0.077
<b>Gross/Weapon System Cost</b>	-	-	17.992	-	-	2.963	-	-	21.343	858.750	16	13.740	-	-	-	858.750	16	13.740

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 10	<b>P-1 Line Item Number / Title:</b> M01001 / CBRN Defense	<b>Item Number / Title [DODIC]:</b> M01006 / COLLECTIVE PROTECTION (CP)

**ID Code** (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

<b>Secondary Distribution</b>		<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	2.963	21.343	-	-	-
ANG	Quantity	-	-	11	-	11
	Total Obligation Authority	-	-	9.432	-	9.432
AR	Quantity	-	-	5	-	5
	Total Obligation Authority	-	-	4.308	-	4.308
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	-	-	<b>16</b>	-	<b>16</b>
	<b>Total Obligation Authority</b>	<b>2.963</b>	<b>21.343</b>	<b>13.740</b>	-	<b>13.740</b>

(t) indicates the presence of a P-5a

**UNCLASSIFIED**

<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2017 Army							<b>Date:</b> February 2016				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 10			<b>P-1 Line Item Number / Title:</b> M01001 / CBRN Defense				<b>Item Number / Title [DODIC]:</b> M01006 / COLLECTIVE PROTECTION (CP)				

<b>Cost Elements</b>	<b>O C O</b>	<b>FY</b>	<b>Contractor and Location</b>	<b>Method/Type or Funding Vehicle</b>	<b>Location of PCO</b>	<b>Award Date</b>	<b>Date of First Delivery</b>	<b>Qty (Each)</b>	<b>Unit Cost (\$ K)</b>	<b>Specs Avail Now?</b>	<b>Date Revision Available</b>	<b>RFP Issue Date</b>
CB Protective Shelter <sup>(†)</sup>		2014	Smiths Detection / Edgewood	C / FFP	ACC, APG, NCD, Natick, MA	May 2014	Jan 2016	10	1,635.636	Y		
CB Protective Shelter <sup>(†)</sup>		2015	Smiths Detection / Edgewood	C / FFP	ACC, APG, NCD, Natick, MA	Apr 2015	Mar 2016	3	728.736	Y		
CB Protective Shelter <sup>(†)</sup>		2016	Pine Bluff Arsenal / Pine Bluff, AR	MIPR	NA	Feb 2016	Dec 2016	25	818.667	Y		
CB Protective Shelter <sup>(†)</sup>		2017	Pine Bluff Arsenal / Pine Bluff, AR	MIPR	N/A	Jan 2017	Feb 2018	16	837.984	Y		

<sup>(†)</sup> indicates the presence of a P-21

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<b>Exhibit P-21, Production Schedule:</b> PB 2017 Army		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 10		<b>P-1 Line Item Number / Title:</b> M01001 / CBRN Defense
		<b>Item Number / Title [DODIC]:</b> M01006 / COLLECTIVE PROTECTION (CP)

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2014												Fiscal Year 2015												B A L A N C E	
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEP T P R I O R T O 1 O C T 2 0 1 3	BAL D U E A S O F 1 O C T	Calendar Year 2014												Calendar Year 2015												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P
CB Protective Shelter																															
	1	2014	ARMY	10	-	10																								10	
	1	2015	ARMY	3	-	3																								3	
	2	2016	ARMY	25	-	25																								25	
	2	2017	ARMY	16	-	16																								16	
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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<b>Exhibit P-21, Production Schedule:</b> PB 2017 Army														<b>Date:</b> February 2016															
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 10										<b>P-1 Line Item Number / Title:</b> M01001 / CBRN Defense										<b>Item Number / Title [DODIC]:</b> M01006 / COLLECTIVE PROTECTION (CP)									

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2016														Fiscal Year 2017														BALANCE		
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2015	BAL DUE AS OF 1 OCT	Calendar Year 2016														Calendar Year 2017															
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P						
CB Protective Shelter																																				
1		2014	ARMY	10	-	10	-	-	-	5	5																									-
1		2015	ARMY	3	-	3	-	-	-	-	-	3																								-
2		2016	ARMY	25	-	25																														-
2		2017	ARMY	16	-	16																														16

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<b>Exhibit P-21, Production Schedule:</b> PB 2017 Army															<b>Date:</b> February 2016												
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 10										<b>P-1 Line Item Number / Title:</b> M01001 / CBRN Defense										<b>Item Number / Title [DODIC]:</b> M01006 / COLLECTIVE PROTECTION (CP)							

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2018												Fiscal Year 2019												BALANCE	
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2017	BAL DUE AS OF 1 OCT	Calendar Year 2018												Calendar Year 2019												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P
CB Protective Shelter																															
	1	2014	ARMY	10	10	-																							-		
	1	2015	ARMY	3	3	-																							-		
	2	2016	ARMY	25	25	-																							-		
	2	2017	ARMY	16	-	16	-	-	-	-	-	5	5	5	1														-		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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<b>Exhibit P-21, Production Schedule:</b> PB 2017 Army		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 10		<b>P-1 Line Item Number / Title:</b> M01001 / CBRN Defense
		<b>Item Number / Title [DODIC]:</b> M01006 / COLLECTIVE PROTECTION (CP)

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2017	1-8-5 For 2017	MAX For 2017	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	Smiths Detection - Edgewood	2	5	18	-	-	-	-	-	2	11	13
2	Pine Bluff Arsenal - Pine Bluff, AR	1	5	5	-	4	10	14	-	2	8	10

"A" in the Delivery Schedule indicates the Contract Award Date.

**Note:** Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

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<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 10	<b>P-1 Line Item Number / Title:</b> M01001 / CBRN Defense	<b>Item Number / Title [DODIC]:</b> M01008 / CONTAMINATION AVOIDANCE (CA)

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>
Procurement Quantity (Units in Each)	-	-	-	5,151	162	5,313
Gross/Weapon System Cost (\$ in Millions)	205.294	-	-	1.723	1.841	3.564
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	205.294	-	-	1.723	1.841	3.564
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	<b>205.294</b>	<b>-</b>	<b>-</b>	<b>1.723</b>	<b>1.841</b>	<b>3.564</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	0.334	11.364	0.671

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

<b>Cost Elements</b>	<b>Prior Years</b>			<b>FY 2015</b>			<b>FY 2016</b>			<b>FY 2017 Base</b>			<b>FY 2017 OCO</b>			<b>FY 2017 Total</b>		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
CRESS Kits <sup>(†)</sup>	-	-	-	-	-	-	-	-	-	0.334	5,151	1.720	-	-	-	0.334	5,151	1.720
JCAD <sup>(†)</sup>	13.101	11,149	146.063	-	-	-	-	-	-	-	-	-	6.753	162	1.094	6.753	162	1.094
Com Adapter <sup>(†)</sup>	5.896	10,046	59.231	-	-	-	-	-	-	-	-	-	4.611	162	0.747	4.611	162	0.747
<i>Subtotal: Recurring Cost</i>	-	-	205.294	-	-	-	-	-	-	-	-	1.720	-	-	1.841	-	-	3.561
<i>Subtotal: Flyaway Cost</i>	-	-	205.294	-	-	-	-	-	-	-	-	1.720	-	-	1.841	-	-	3.561
<b>Gross/Weapon System Cost</b>	-	-	205.294	-	-	-	-	-	-	0.334	5,151	1.723	11.364	162	1.841	0.671	5,313	3.564

<b>Secondary Distribution</b>		<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>
Army	Quantity	-	-	3,384	162	3,546
	Total Obligation Authority	-	-	1.113	1.841	2.954
ANG	Quantity	-	-	1,011	-	1,011
	Total Obligation Authority	-	-	0.349	-	0.349
AR	Quantity	-	-	756	-	756
	Total Obligation Authority	-	-	0.261	-	0.261
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	-	-	<b>5,151</b>	<b>162</b>	<b>5,313</b>
	<b>Total Obligation Authority</b>	-	-	<b>1.723</b>	<b>1.841</b>	<b>3.564</b>



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<b>Exhibit P-5, Cost Analysis:</b> PB 2017 Army		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 10	<b>P-1 Line Item Number / Title:</b> M01001 / CBRN Defense	<b>Item Number / Title [DODIC]:</b> M01008 / CONTAMINATION AVOIDANCE (CA)
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :		<b>MDAP/MAIS Code:</b>
<sup>(†)</sup> indicates the presence of a P-5a		

**UNCLASSIFIED**

<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2017 Army							<b>Date:</b> February 2016				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 10			<b>P-1 Line Item Number / Title:</b> M01001 / CBRN Defense				<b>Item Number / Title [DODIC]:</b> M01008 / CONTAMINATION AVOIDANCE (CA)				

Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
CRESS Kits <sup>(†)</sup>		2017	TBD / TBD	MIPR	TBD	Jan 2017	Mar 2017	5,151	0.334	N		
JCAD <sup>(†)</sup>	✓	2017	TBD / TBD	C / FFP	TBD	Jan 2017	Mar 2017	162	6.753	N		
Com Adapter <sup>(†)</sup>	✓	2017	TBD / TBD	C / FFP	TBD	Jan 2017	Mar 2017	162	4.611	N		

<sup>(†)</sup> indicates the presence of a P-21

**UNCLASSIFIED**

<b>Exhibit P-21, Production Schedule:</b> PB 2017 Army															<b>Date:</b> February 2016														
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 10										<b>P-1 Line Item Number / Title:</b> M01001 / CBRN Defense										<b>Item Number / Title [DODIC]:</b> M01008 / CONTAMINATION AVOIDANCE (CA)									

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2017												Fiscal Year 2018												BALANCE			
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2016	BAL DUE AS OF 1 OCT	Calendar Year 2017												Calendar Year 2018														
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P		
CRESS Kits																																	
	1	2017	ARMY	5,151	-	5,151																											80
JCAD																																	
Prior Years Deliveries: 11149																																	
✓	2	2017	ARMY	162	-	162																											-
Com Adapter																																	
Prior Years Deliveries: 10046																																	
✓	3	2017	ARMY	162	-	162																											-
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

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<b>Exhibit P-21, Production Schedule:</b> PB 2017 Army		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 10		<b>P-1 Line Item Number / Title:</b> M01001 / CBRN Defense
<b>Item Number / Title [DODIC]:</b> M01008 / CONTAMINATION AVOIDANCE (CA)		

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)								
		MSR For 2017	1-8-5 For 2017	MAX For 2017	Initial				Reorder				
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	
1	TBD - TBD	1	1,923	1,923	-	-	-	-	-	-	-	-	-
2	TBD - TBD	1	1,923	1,923	-	-	-	-	-	-	-	-	-
3	TBD - TBD	1	1,923	1,923	-	-	-	-	-	-	-	-	-

"A" in the Delivery Schedule indicates the Contract Award Date.

**Note:** Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

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<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 10	<b>P-1 Line Item Number / Title:</b> M01001 / CBRN Defense	<b>Item Number / Title [DODIC]:</b> M01011 / CBRNE WMD - Elimination

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	52	-	-	9,021	-	9,021
Gross/Weapon System Cost (\$ in Millions)	4.000	14.505	4.959	2.459	-	2.459
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	4.000	14.505	4.959	2.459	-	2.459
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	<b>4.000</b>	<b>14.505</b>	<b>4.959</b>	<b>2.459</b>	<b>-</b>	<b>2.459</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	76.923	-	-	0.273	-	0.273

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Non Recurring Cost																		
PPE Suit NFPA Class 2 <sup>(†)</sup>	-	-	2.000	-	-	14.505	-	-	4.959	2.065	662	1.367	-	-	-	2.065	662	1.367
PPE Suit NFPA Class 3 <sup>(†)</sup>	-	-	2.000	-	-	-	-	-	-	0.665	1,112	0.740	-	-	-	0.665	1,112	0.740
HAZMAT Boots <sup>(†)</sup>	-	-	-	-	-	-	-	-	-	0.084	2,500	0.210	-	-	-	0.084	2,500	0.210
Filter Canisters <sup>(†)</sup>	-	-	-	-	-	-	-	-	-	0.043	3,309	0.142	-	-	-	0.043	3,309	0.142
<i>Subtotal: Non Recurring Cost</i>	-	-	4.000	-	-	14.505	-	-	4.959	-	-	2.459	-	-	-	-	-	2.459
<i>Subtotal: Flyaway Cost</i>	-	-	4.000	-	-	14.505	-	-	4.959	-	-	2.459	-	-	-	-	-	2.459
<b>Gross/Weapon System Cost</b>	<b>76.923</b>	<b>52</b>	<b>4.000</b>	<b>-</b>	<b>-</b>	<b>14.505</b>	<b>-</b>	<b>-</b>	<b>4.959</b>	<b>0.273</b>	<b>9,021</b>	<b>2.459</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0.273</b>	<b>9,021</b>	<b>2.459</b>

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	-	-	9,021	-	9,021
	Total Obligation Authority	14.505	4.959	2.459	-	2.459
<b>Total:</b>	<b>Quantity</b>	<b>-</b>	<b>-</b>	<b>9,021</b>	<b>-</b>	<b>9,021</b>
<b>Secondary Distribution</b>	<b>Total Obligation Authority</b>	<b>14.505</b>	<b>4.959</b>	<b>2.459</b>	<b>-</b>	<b>2.459</b>

<sup>(†)</sup> indicates the presence of a P-5a

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**Exhibit P-5a, Procurement History and Planning: PB 2017 Army** **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 10	<b>P-1 Line Item Number / Title:</b> M01001 / CBRN Defense	<b>Item Number / Title [DODIC]:</b> M01011 / CBRNE WMD - Elimination
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Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
PPE Suit NFPA Class 2 <sup>(†)</sup>		2017	Veterans Corp / Fairfax	C / FP	Aberdeen Proving Ground, MD	Feb 2017	May 2017	662	2.065	Y		
PPE Suit NFPA Class 3 <sup>(†)</sup>		2017	Veterans Corp / Fairfax	C / FP	Aberdeen Proving Ground, MD	Feb 2017	May 2017	1,112	0.665	Y		
HAZMAT Boots <sup>(†)</sup>		2017	Veterans Corp / Fairfax	C / FP	Aberdeen Proving Ground, MD	Feb 2017	May 2017	2,500	0.084	Y		
Filter Canisters <sup>(†)</sup>		2017	Veterans Corp / Fairfax	C / FP	Aberdeen Proving Ground, MD	Feb 2017	May 2017	3,309	0.043	Y		

<sup>(†)</sup> indicates the presence of a P-21

**UNCLASSIFIED**

**Exhibit P-21, Production Schedule:** PB 2017 Army **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 10	<b>P-1 Line Item Number / Title:</b> M01001 / CBRN Defense	<b>Item Number / Title [DODIC]:</b> M01011 / CBRNE WMD - Elimination
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2017												Fiscal Year 2018												B A L A N C E	
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2016	BAL DUE AS OF 1 OCT	Calendar Year 2017												Calendar Year 2018												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P
PPE Suit NFPA Class 2																															
	1	2017	ARMY <sup>(I)</sup>	662	-	662																									
PPE Suit NFPA Class 3																															
	2	2017	ARMY <sup>(II)</sup>	1,112	-	1,112																									
HAZMAT Boots																															
	3	2017	ARMY <sup>(III)</sup>	2,500	-	2,500																									
Filter Canisters																															
	4	2017	ARMY <sup>(IV)</sup>	3,309	-	3,309																									
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

**UNCLASSIFIED**

**Exhibit P-21, Production Schedule:** PB 2017 Army **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 10	<b>P-1 Line Item Number / Title:</b> M01001 / CBRN Defense	<b>Item Number / Title [DODIC]:</b> M01011 / CBRNE WMD - Elimination
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MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2017	1-8-5 For 2017	MAX For 2017	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	Veterans Corp - Fairfax	1	775	875	1	4	4	8	1	4	3	7
2	Veterans Corp - Fairfax	1	775	875	1	4	4	8	1	4	3	7
3	Veterans Corp - Fairfax	1	775	875	1	4	4	8	1	4	3	7
4	Veterans Corp - Fairfax	1	775	875	1	4	4	8	1	4	3	7

"A" in the Delivery Schedule indicates the Contract Award Date.

**Note:** Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

**Service/Agency Suffixes:**

- (I) 2017
- (II) 2017
- (III) 2017
- (IV) 2017



**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** PB 2017 Army **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 15: Bridging Equipment	<b>P-1 Line Item Number / Title:</b> MX0100 / Tactical Bridging
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ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	2	4	6	2	3	4	3	Continuing	Continuing
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	44.410	-	9.822	13.553	26.000	39.553	16.429	18.710	23.634	19.447	Continuing	Continuing
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	44.410	-	9.822	13.553	26.000	39.553	16.429	18.710	23.634	19.447	Continuing	Continuing
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>44.410</b>	<b>-</b>	<b>9.822</b>	<b>13.553</b>	<b>26.000</b>	<b>39.553</b>	<b>16.429</b>	<b>18.710</b>	<b>23.634</b>	<b>19.447</b>	<b>Continuing</b>	<b>Continuing</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost ( <i>\$ in Thousands</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Thousands</i> )	-	-	-	6,776.500	6,500.000	6,592.167	8,214.500	6,236.667	5,908.500	6,482.333	Continuing	Continuing

**Description:**

The Line of Communication Bridge (LOCB) system provides a 50 meter dry gap crossing capability and a 280 meter wet gap crossing capability to the Multi-Role Bridge Company (MRBC). The LOCB supports up to Military Load Class (MLC) 120 tracked and MLC 150 (caution) wheeled equipment. The LOCB has a roadway width of 4.5 meters. Each 50 meter fixed LOCB system consists of girder beams, cross bracing, decking, guard rails, erection and anchorage sets, tools and all associated hardware, and will come with a ramp set, 5 meter pier, and ground beams. Additionally available will be pedestrian walkways. The 280 meter float LOCB system will consist of the same hardware as the 50 meter LOCB, and will come with floatation equipment. One 50 meter fixed LOCB will be fielded per MRBC. Forty 50 meter fixed LOCBs and 5 280 meter float LOCBs will be located in Army Prepositioned Stock for rapid deployment to the theater of operations. Also U.S. Army Engineering School will have 6 50 meter fixed LOCBs and 2 130 meter float LOCBs for training.

The Dry Support Bridge (DSB) is a mobile, rapidly erected, modular military bridging system used by the MRBC. The 40 Meter DSB can span a 40-meter gap or two 20-meter gaps. The 46 Meter DSB can span a 46-meter gap or two 28-meter gaps (with the 46-meter upgrade). Both have a crossing capability of MLC 100 Wheeled/MLC 80 Tracked. The DSB has a road width of 4.3 meters and an emplacement time of 90 minutes or less, with little or no site preparation. The DSB will support the Joint Force Commander's ability to employ and sustain forces throughout the global battle space.

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	Quantity	-	-	1	4	5	2	-	-
	Total Obligation Authority	-	9.822	6.694	26.000	32.694	16.429	-	-
ANG	Quantity	-	-	1	-	1	-	2	2
	Total Obligation Authority	-	-	6.859	-	6.859	-	12.418	11.712
AR	Quantity	-	-	-	-	-	-	1	2
	Total Obligation Authority	-	-	-	-	-	-	6.292	11.922
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	<b>-</b>	<b>-</b>	<b>2</b>	<b>4</b>	<b>6</b>	<b>2</b>	<b>3</b>	<b>4</b>
	<b>Total Obligation Authority</b>	<b>-</b>	<b>9.822</b>	<b>13.553</b>	<b>26.000</b>	<b>39.553</b>	<b>16.429</b>	<b>18.710</b>	<b>23.634</b>

**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** PB 2017 Army **Date:** February 2016

**Appropriation / Budget Activity / Budget Sub Activity:** 2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 15: Bridging Equipment **P-1 Line Item Number / Title:** MX0100 / Tactical Bridging

**ID Code** (A=Service Ready, B=Not Service Ready): B **Program Elements for Code B Items:** N/A **Other Related Program Elements:** N/A

**Line Item MDAP/MAIS Code:** N/A **Item MDAP/MAIS Code(s):** N/A

Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	G82400 / DRY SUPPORT BRIDGE	P-5a, P-21	A	- / -	- / -	- / -	- / -	4 / 26.000	4 / 26.000
P-5	G82404 / LINE OF COMMUNICATION BRIDGE LOCB	P-5a, P-21		- / 44.412	- / -	- / 9.822	2 / 13.553	- / -	2 / 13.553
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>			<b>- / 44.410</b>	<b>- / -</b>	<b>- / 9.822</b>	<b>2 / 13.553</b>	<b>4 / 26.000</b>	<b>6 / 39.553</b>

\*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

**Justification:**  
 FY 17 Base procurement dollars in the amount of \$13.553 million supports the procurement of the first two Low Rate Initial Production (LRIP) LOCB systems. Production is anticipated at Rock Island Arsenal (RIA) following a successful Milestone (MS) C decision. The LOCB system provides the United States Army with an enhanced support bridging capability to replace the obsolete, 1940s era Bailey Bridge (BB).  
 The FY17 OCO includes \$26.000 million to support the COCOM requirement for unit equipment sets to deter potential adversaries and support the European Reassurance Initiatives. This procures 4 46-meter Dry Support Bridges.  
 IAW Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active components and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 15	<b>P-1 Line Item Number / Title:</b> MX0100 / Tactical Bridging	<b>Item Number / Title [DODIC]:</b> G82400 / DRY SUPPORT BRIDGE

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	4	4
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	-	-	-	26.000	26.000
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	-	-	-	26.000	26.000
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	-	-	-	<b>26.000</b>	<b>26.000</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Thousands</i> )	-	-	-	-	6,500.000	6,500.000

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
1. Bridge/Launcher-Base <sup>(t)</sup>	-	-	-	-	-	-	-	-	-	-	-	-	5,500.000	4	22.000	5,500.000	4	22.000
Data	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.500	-	-	0.500
Fielding	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.000	-	-	2.000
System Engineering/Program Management	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.500	-	-	1.500
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	26.000	-	-	26.000
<i>Subtotal: Flyaway Cost</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	26.000	-	-	26.000
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	-	-	-	-	-	-	-	6,500.000	4	26.000	6,500.000	4	26.000

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	-	-	-	4	4
Total Obligation Authority	-	-	-	26.000	26.000
<b>Total: Secondary Distribution</b>	-	-	-	4	4
Total Obligation Authority	-	-	-	26.000	26.000

(t) indicates the presence of a P-5a

**UNCLASSIFIED**

**Exhibit P-5a, Procurement History and Planning:** PB 2017 Army **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 15	<b>P-1 Line Item Number / Title:</b> MX0100 / Tactical Bridging	<b>Item Number / Title [DODIC]:</b> G82400 / DRY SUPPORT BRIDGE
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Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
1. Bridge/Launcher-Base <sup>(†)</sup>	✓	2017	WFEL / Stockport	SS / FFP	TACOM, Warren, MI	Apr 2017	Apr 2018	4	5,500.000	Y		

<sup>(†)</sup> indicates the presence of a P-21

**UNCLASSIFIED**

**Exhibit P-21, Production Schedule:** PB 2017 Army **Date:** February 2016

**Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 03 / 15 **P-1 Line Item Number / Title:** MX0100 / Tactical Bridging **Item Number / Title [DODIC]:** G82400 / DRY SUPPORT BRIDGE

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2017												Fiscal Year 2018												BALANCE	
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2016	BAL DUE AS OF 1 OCT	Calendar Year 2017												Calendar Year 2018												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P
1. Bridge/Launcher-Base																															
✓	1	2017	ARMY (V)	4	-	4																									

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**Exhibit P-21, Production Schedule:** PB 2017 Army **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 15	<b>P-1 Line Item Number / Title:</b> MX0100 / Tactical Bridging	<b>Item Number / Title [DODIC]:</b> G82400 / DRY SUPPORT BRIDGE
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MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2017	1-8-5 For 2017	MAX For 2017	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	WFEL - Stockport	1	12	24	9	7	12	19	-	-	-	-

"A" in the Delivery Schedule indicates the Contract Award Date.

**Note:** Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

**Service/Agency Suffixes:**

(V) OCO

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>		Date: February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 15	<b>P-1 Line Item Number / Title:</b> MX0100 / Tactical Bridging	<b>Item Number / Title [DODIC]:</b> G82404 / LINE OF COMMUNICATION BRIDGE LOCB

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>
Procurement Quantity (Units in Each)	-	-	-	2	-	2
Gross/Weapon System Cost (\$ in Millions)	44.412	-	9.822	13.553	-	13.553
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	44.412	-	9.822	13.553	-	13.553
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	<b>44.412</b>	<b>-</b>	<b>9.822</b>	<b>13.553</b>	<b>-</b>	<b>13.553</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	6,776.500	-	6,776.500

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

<b>Cost Elements</b>	<b>Prior Years</b>			<b>FY 2015</b>			<b>FY 2016</b>			<b>FY 2017 Base</b>			<b>FY 2017 OCO</b>			<b>FY 2017 Total</b>		
	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>
<b>Flyaway Cost</b>																		
<b>Recurring Cost</b>																		
1. Fixed Bridge <sup>(†)</sup>	-	-	35.798	-	-	-	-	-	-	5,049.000	2	10.098	-	-	-	5,049.000	2	10.098
2. M3 Container Roll-In/Out Platform	-	-	1.000	-	-	-	-	-	-	9.000	52	0.468	-	-	-	9.000	52	0.468
Fielding	-	-	2.000	-	-	-	-	-	-	-	-	0.349	-	-	-	-	-	0.349
System Engineering/Program Management	-	-	5.614	-	-	-	-	-	-	-	-	1.600	-	-	-	-	-	1.600
<b>Subtotal: Recurring Cost</b>	<b>-</b>	<b>-</b>	<b>44.412</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>12.515</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>12.515</b>
<b>Non Recurring Cost</b>																		
Start Up Tooling/Fixtures	-	-	-	-	-	-	-	-	9.822	-	-	-	-	-	-	-	-	-
Logistics Products	-	-	-	-	-	-	-	-	-	-	-	1.038	-	-	-	-	-	1.038
<b>Subtotal: Non Recurring Cost</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>9.822</b>	<b>-</b>	<b>-</b>	<b>1.038</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1.038</b>
<b>Subtotal: Flyaway Cost</b>	<b>-</b>	<b>-</b>	<b>44.412</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>9.822</b>	<b>-</b>	<b>-</b>	<b>13.553</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>13.553</b>
<b>Gross/Weapon System Cost</b>	<b>-</b>	<b>-</b>	<b>44.412</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>9.822</b>	<b>6,776.500</b>	<b>2</b>	<b>13.553</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>6,776.500</b>	<b>2</b>	<b>13.553</b>

<b>Secondary Distribution</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>
Army Quantity	-	-	1	-	1

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis:</b> PB 2017 Army		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 15	<b>P-1 Line Item Number / Title:</b> MX0100 / Tactical Bridging	<b>Item Number / Title [DODIC]:</b> G82404 / LINE OF COMMUNICATION BRIDGE LOCB

**ID Code** (A=Service Ready, B=Not Service Ready) : \_\_\_\_\_ **MDAP/MAIS Code:** \_\_\_\_\_

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
	Total Obligation Authority	-	9.822	6.694	-	6.694
ANG	Quantity	-	-	1	-	1
	Total Obligation Authority	-	-	6.859	-	6.859
<b>Total:</b>	<b>Quantity</b>	-	-	2	-	2
<b>Secondary Distribution</b>	<b>Total Obligation Authority</b>	-	9.822	13.553	-	13.553

(t) indicates the presence of a P-5a



**UNCLASSIFIED**

<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2017 Army							<b>Date:</b> February 2016					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 15			<b>P-1 Line Item Number / Title:</b> MX0100 / Tactical Bridging				<b>Item Number / Title [DODIC]:</b> G82404 / LINE OF COMMUNICATION BRIDGE LOCB					
<b>Cost Elements</b>	<b>O C O</b>	<b>FY</b>	<b>Contractor and Location</b>	<b>Method/Type or Funding Vehicle</b>	<b>Location of PCO</b>	<b>Award Date</b>	<b>Date of First Delivery</b>	<b>Qty (Each)</b>	<b>Unit Cost (\$ K)</b>	<b>Specs Avail Now?</b>	<b>Date Revision Available</b>	<b>RFP Issue Date</b>
1. Fixed Bridge <sup>(†)</sup>		2017	Rock Island Arsenal / Rock Island	MIPR	TACOM, Warren, MI	Jan 2017	Jul 2017	2	5,049.000	N		

<sup>(†)</sup> indicates the presence of a P-21

**Remarks:**  
Production to be completed pending MS C decision

**UNCLASSIFIED**

<b>Exhibit P-21, Production Schedule:</b> PB 2017 Army															<b>Date:</b> February 2016														
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 15										<b>P-1 Line Item Number / Title:</b> MX0100 / Tactical Bridging										<b>Item Number / Title [DODIC]:</b> G82404 / LINE OF COMMUNICATION BRIDGE LOCB									

Cost Elements <i>(Units in Each)</i>							Fiscal Year 2017										Fiscal Year 2018										BALANCE
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2016	BAL DUE AS OF 1 OCT	Calendar Year 2017										Calendar Year 2018										
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	

1. Fixed Bridge																																			
1	2017	ARMY		2	-	2				A	-	-	-	-	-	-	1	1																	-

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**UNCLASSIFIED**

<b>Exhibit P-21, Production Schedule:</b> PB 2017 Army		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 15		<b>P-1 Line Item Number / Title:</b> MX0100 / Tactical Bridging
		<b>Item Number / Title [DODIC]:</b> G82404 / LINE OF COMMUNICATION BRIDGE LOCB

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2017	1-8-5 For 2017	MAX For 2017	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	Rock Island Arsenal - Rock Island	1	2	4	-	4	6	10	-	4	6	10

"A" in the Delivery Schedule indicates the Contract Award Date.

**Note:** Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

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**Exhibit P-40, Budget Line Item Justification:** PB 2017 Army **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 15: Bridging Equipment	<b>P-1 Line Item Number / Title:</b> MA8890 / Tactical Bridge, Float-Ribbon
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	34	4	24	34	-	34	37	18	14	45	Continuing	Continuing
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	160.845	5.442	21.516	25.244	-	25.244	28.013	14.771	12.060	34.501	Continuing	Continuing
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	160.845	5.442	21.516	25.244	-	25.244	28.013	14.771	12.060	34.501	Continuing	Continuing
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>160.845</b>	<b>5.442</b>	<b>21.516</b>	<b>25.244</b>	<b>-</b>	<b>25.244</b>	<b>28.013</b>	<b>14.771</b>	<b>12.060</b>	<b>34.501</b>	<b>Continuing</b>	<b>Continuing</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost ( <i>\$ in Thousands</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Thousands</i> )	4,730.735	1,360.500	896.500	742.471	-	742.471	757.108	820.611	861.429	766.689	Continuing	Continuing

**Description:**

The Tactical Float Ribbon Bridge line supports the Multi-Role Bridge Company (MRBC). One Tactical Float Ribbon Bridge System consists of the Improved Ribbon Bridge (IRB) bays (30 Interior and 12 Ramp), 14 Propulsion Bridge Erection Boats (BEB) and 56 Common Bridge Transporters (CBT). These components are required to transport, launch, erect and retrieve up to 210 meters of floating bridge. The IRB has a Military Load Class (MLC) 96 wheeled (normal) and 110 (caution)/MLC 70 tracked (normal) and 85 (caution) and is used to transport weapon systems, Troops, and supplies over water when permanent bridges are not available. This capability will support the Joint Force Commander's ability to employ and sustain forces throughout the global battlespace. The Army plans to have 25 MRBCs.

AAO IRB Interior Bays: 1128  
 AAO IRB Ramp Bays: 454  
 AAO BEB: 379

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	5.442	21.516	-	-	9.642	4.771	4.238	11.297
ANG	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	12.417	-	12.417	9.951	5.000	4.345
AR	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	12.827	-	12.827	8.420	5.000	3.477
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
	<b>Total Obligation Authority</b>	<b>5.442</b>	<b>21.516</b>	<b>25.244</b>	<b>-</b>	<b>25.244</b>	<b>28.013</b>	<b>14.771</b>	<b>34.501</b>

**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** PB 2017 Army **Date:** February 2016

**Appropriation / Budget Activity / Budget Sub Activity:** 2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 15: Bridging Equipment **P-1 Line Item Number / Title:** MA8890 / Tactical Bridge, Float-Ribbon

**ID Code** (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** N/A

**Line Item MDAP/MAIS Code:** N/A **Item MDAP/MAIS Code(s):** N/A

Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	M27200 / BRIDGE, FLOAT-RIBBON, PROPULSION	P-5a, P-21	A	34 / 160.845	4 / 5.442	24 / 21.516	34 / 25.244	- / -	34 / 25.244
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>			<b>34 / 160.845</b>	<b>4 / 5.442</b>	<b>24 / 21.516</b>	<b>34 / 25.244</b>	<b>- / -</b>	<b>34 / 25.244</b>

\*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

**Justification:**  
 FY 2017 Base procurement dollars in the amount of \$25.244 million supports the procurement of 34 BEBs for National Guard and Reserve Army requirements. The newly designed BEB will improve fleet readiness by improving the basic design to meet current survivability, transportability, and interoperability requirements. Funding supports a balanced investment strategy for the Army's approved force structure and Army Force Generation (ARFORGEN) requirements.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 15		<b>P-1 Line Item Number / Title:</b> MA8890 / Tactical Bridge, Float-Ribbon
		<b>Item Number / Title [DODIC]:</b> M27200 / BRIDGE, FLOAT-RIBBON, PROPULSION

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	34	4	24	34	-	34
Gross/Weapon System Cost (\$ in Millions)	160.845	5.442	21.516	25.244	-	25.244
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	160.845	5.442	21.516	25.244	-	25.244
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	<b>160.845</b>	<b>5.442</b>	<b>21.516</b>	<b>25.244</b>	<b>-</b>	<b>25.244</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	4,730.735	1,360.500	896.500	742.471	-	742.471

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
Hardware <sup>(†)</sup>	4,730.735	34	160.845	621.000	4	2.484	621.000	24	14.904	615.000	34	20.910	-	-	-	615.000	34	20.910
Crew Protection Kit	-	-	-	31.000	4	0.124	32.000	24	0.768	32.000	34	1.088	-	-	-	32.000	34	1.088
Bridge Adapter Pallet	-	-	-	42.000	4	0.168	42.000	24	1.008	42.000	34	1.428	-	-	-	42.000	34	1.428
Fielding	-	-	-	-	-	0.030	-	-	0.075	-	-	0.100	-	-	-	-	-	0.100
System Test & Evaluation, Production	-	-	-	-	-	0.436	-	-	2.250	-	-	-	-	-	-	-	-	-
System Engineering/ Program Management	-	-	-	-	-	2.200	-	-	2.200	-	-	1.718	-	-	-	-	-	1.718
Engineering Changes	-	-	-	-	-	-	-	-	0.311	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	<i>-</i>	<i>-</i>	<i>160.845</i>	<i>-</i>	<i>-</i>	<i>5.442</i>	<i>-</i>	<i>-</i>	<i>21.516</i>	<i>-</i>	<i>-</i>	<i>25.244</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>25.244</i>
<i>Subtotal: Flyaway Cost</i>	<i>-</i>	<i>-</i>	<i>160.845</i>	<i>-</i>	<i>-</i>	<i>5.442</i>	<i>-</i>	<i>-</i>	<i>21.516</i>	<i>-</i>	<i>-</i>	<i>25.244</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>25.244</i>
<b>Gross/Weapon System Cost</b>	<b>4,730.735</b>	<b>34</b>	<b>160.845</b>	<b>1,360.500</b>	<b>4</b>	<b>5.442</b>	<b>896.500</b>	<b>24</b>	<b>21.516</b>	<b>742.471</b>	<b>34</b>	<b>25.244</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>742.471</b>	<b>34</b>	<b>25.244</b>

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	4	24	-	-	-
	Total Obligation Authority	5.442	21.516	-	-	-
ANG	Quantity	-	-	17	-	17
	Total Obligation Authority	-	-	12.417	-	12.417

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis:</b> PB 2017 Army		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 15	<b>P-1 Line Item Number / Title:</b> MA8890 / Tactical Bridge, Float-Ribbon	<b>Item Number / Title [DODIC]:</b> M27200 / BRIDGE, FLOAT-RIBBON, PROPULSION

**ID Code** (A=Service Ready, B=Not Service Ready) : A **MDAP/MAIS Code:**

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
AR	Quantity	-	-	17	-	17
	Total Obligation Authority	-	-	12.827	-	12.827
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	<b>4</b>	<b>24</b>	<b>34</b>	-	<b>34</b>
	<b>Total Obligation Authority</b>	<b>5.442</b>	<b>21.516</b>	<b>25.244</b>	-	<b>25.244</b>

(t) indicates the presence of a P-5a

**UNCLASSIFIED**

<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2017 Army							<b>Date:</b> February 2016				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 15			<b>P-1 Line Item Number / Title:</b> MA8890 / Tactical Bridge, Float-Ribbon				<b>Item Number / Title [DODIC]:</b> M27200 / BRIDGE, FLOAT-RIBBON, PROPULSION				

Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
Hardware <sup>(t)</sup>		2015	Birdon America Inc / Denver	C / FFP	TACOM, Warren, MI	Jun 2015	Jun 2016	4	621.000	Y		
Hardware <sup>(t)</sup>		2016	Birdon America Inc / Denver	C / FFP	TACOM, Warren, MI	Feb 2016	Aug 2016	24	621.000	Y		
Hardware <sup>(t)</sup>		2017	Birdon America Inc / Denver	C / FFP	TACOM, Warren, MI	Feb 2017	Aug 2017	34	615.000	Y		

<sup>(t)</sup> indicates the presence of a P-21



**UNCLASSIFIED**

<b>Exhibit P-21, Production Schedule:</b> PB 2017 Army																	<b>Date:</b> February 2016											
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 15										<b>P-1 Line Item Number / Title:</b> MA8890 / Tactical Bridge, Float-Ribbon										<b>Item Number / Title [DODIC]:</b> M27200 / BRIDGE, FLOAT-RIBBON, PROPULSION								

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2015											Fiscal Year 2016											B A L A N C E									
O C C O #	M F R Y	S E R V I C E	P R O C Q T Y	A C C E P T P R I O R T O 1 O C T 2 0 1 4	B A L D U E A S O F 1 O C T	Calendar Year 2015											Calendar Year 2016																				
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L		A U G	S E P							
Hardware																																					
Prior Years Deliveries: 34																																					
1	2015	ARMY (VI)	4	-	4												A	-	-	-	-	-	-	-	-	-	-	-	2	2			-				
1	2016	ARMY (VII)	24	-	24																						A	-	-	-	-	-	-	-	2	2	20
1	2017	ARMY (VIII)	34	-	34																															34	
O C T N O V D E C J A N F E B M A R A P R M A Y J U N J U L A U G S E P O C T N O V D E C J A N F E B M A R A P R M A Y J U N J U L A U G S E P																																					

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<b>Exhibit P-21, Production Schedule:</b> PB 2017 Army															<b>Date:</b> February 2016														
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 15										<b>P-1 Line Item Number / Title:</b> MA8890 / Tactical Bridge, Float-Ribbon										<b>Item Number / Title [DODIC]:</b> M27200 / BRIDGE, FLOAT-RIBBON, PROPULSION									

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2017												Fiscal Year 2018												BALANCE	
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2016	BAL DUE AS OF 1 OCT	Calendar Year 2017												Calendar Year 2018												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P
Hardware																															
Prior Years Deliveries: 34																															
1		2015	ARMY (VI)	4	4	-																							-		
1		2016	ARMY (VII)	24	4	20	2	2	2	2	2	2	2	2	2														-		
1		2017	ARMY (VIII)	34	-	34																							-		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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<b>Exhibit P-21, Production Schedule:</b> PB 2017 Army		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 15		<b>P-1 Line Item Number / Title:</b> MA8890 / Tactical Bridge, Float-Ribbon
		<b>Item Number / Title [DODIC]:</b> M27200 / BRIDGE, FLOAT-RIBBON, PROPULSION

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2017	1-8-5 For 2017	MAX For 2017	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	Birdon America Inc - Denver	2	6	8	-	9	12	21	-	5	6	11

"A" in the Delivery Schedule indicates the Contract Award Date.  
**Note:** Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

**Service/Agency Suffixes:**  
 (VI) BASE  
 (VII) BASE  
 (VIII) BASE

**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** PB 2017 Army **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 15: Bridging Equipment	<b>P-1 Line Item Number / Title:</b> G06520 / BRIDGE SUPPLEMENTAL SET
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	5	-	-	-	3	3	2	3	-	16
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	-	4.959	0.983	-	0.983	5.890	5.912	4.956	5.948	-	28.648
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	-	4.959	0.983	-	0.983	5.890	5.912	4.956	5.948	-	28.648
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	-	<b>4.959</b>	<b>0.983</b>	-	<b>0.983</b>	<b>5.890</b>	<b>5.912</b>	<b>4.956</b>	<b>5.948</b>	-	<b>28.648</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost ( <i>\$ in Thousands</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Thousands</i> )	-	-	991.800	-	-	-	1,963.333	1,970.667	2,478.000	1,982.667	-	1,790.500

**Description:**

The Bridge Supplemental Set (BSS) is transported and composed of four subsystems (Anchorage, Bridge Protection Device, Site Stability, and Power Generator & Tools) that support the Multi-Role Bridge Company (MRBC). Anchorage is utilized to anchor float bridges within the MRBC, such as the Improved Ribbon Bridge (IRB) for an extended period beyond 72 hours. The Bridge Protection Device provides protection from debris upstream from any bridge site. Site Stability enhances access/egress to and from the bridge site in less than desirable geography. Power Generator & Tools support all subsystems during employment plus support repairs on or to existing MRBC bridges. All subsystems except the Bridge Protection Device will be transported on the equivalent of four or fewer M1077 flat racks by the Common Bridge Transporter under 22,000 Lbs. per load. The BSS unit of issue will be two per MRBC (56 total). The Bridge Protection Device will be issued only to Army Prepositioned Stock units and to the training base (11 total).  
AAO: 56

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	Quantity	-	5	-	-	-	3	3	2	3
	Total Obligation Authority	-	4.959	0.983	-	0.983	5.890	5.912	4.956	5.948
<b>Total:</b> Secondary Distribution	Quantity	-	<b>5</b>	-	-	-	<b>3</b>	<b>3</b>	<b>2</b>	<b>3</b>
	Total Obligation Authority	-	<b>4.959</b>	<b>0.983</b>	-	<b>0.983</b>	<b>5.890</b>	<b>5.912</b>	<b>4.956</b>	<b>5.948</b>

**Justification:**

FY 2017 Base Procurement dollars in the amount of \$0.983 million supports the System Engineering/Program Management and fielding.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities

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**Exhibit P-40, Budget Line Item Justification:** PB 2017 Army **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 15: Bridging Equipment	<b>P-1 Line Item Number / Title:</b> G07000 / Common Bridge Transporter (CBT) Recap
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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<b>Line Item MDAP/MAIS Code:</b> N/A	<b>Item MDAP/MAIS Code(s):</b> N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	32	22	120	54	-	54	52	18	26	49	-	373
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	4.756	11.013	52.546	25.176	-	25.176	27.046	11.659	19.903	29.737	-	181.836
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	4.756	11.013	52.546	25.176	-	25.176	27.046	11.659	19.903	29.737	-	181.836
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>4.756</b>	<b>11.013</b>	<b>52.546</b>	<b>25.176</b>	<b>-</b>	<b>25.176</b>	<b>27.046</b>	<b>11.659</b>	<b>19.903</b>	<b>29.737</b>	<b>-</b>	<b>181.836</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost ( <i>\$ in Thousands</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Thousands</i> )	148.625	500.591	437.883	466.222	-	466.222	520.115	647.722	765.500	606.878	-	487.496

**Description:**

The M1977A4 Common Bridge Transporter (CBT) and M1064 Palletized Load System Trailer (PLST) are part of the Ribbon Bridge System. The CBT transports and launches the Bridge Erection Boat (BEB) and Improved Ribbon Bridge (IRB) Bays in the Multi-Role Bridge Company (MRBC) allowing Bridging formation assets to maintain pace with supported combat units. The CBT is also the transporter and launch vehicle for the Rapidly Emplaced Bridge System (REBS) supporting the 9 Stryker Brigade Combat Teams (SBCT) and 5 Airborne Companies. The Army plans to recapitalize 100% of the CBT fleet; 24 MRBCs (56 each), 9 SBCTs (4 each), 5 Airborne Companies (2 each), 1 European Activity Set (EAS), 1 Army pre-positioned set (APS) Korea (56) and 24 CBTs in the training base.

AAO: 1526

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army									
Quantity	22	120	54	-	54	52	18	26	49
Total Obligation Authority	11.013	52.546	25.176	-	25.176	27.046	11.659	19.903	29.737
<b>Total:</b>									
<b>Secondary Distribution</b>									
Quantity	<b>22</b>	<b>120</b>	<b>54</b>	<b>-</b>	<b>54</b>	<b>52</b>	<b>18</b>	<b>26</b>	<b>49</b>
Total Obligation Authority	<b>11.013</b>	<b>52.546</b>	<b>25.176</b>	<b>-</b>	<b>25.176</b>	<b>27.046</b>	<b>11.659</b>	<b>19.903</b>	<b>29.737</b>

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**Exhibit P-40, Budget Line Item Justification:** PB 2017 Army **Date:** February 2016

**Appropriation / Budget Activity / Budget Sub Activity:**  
2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 15: Bridging Equipment

**P-1 Line Item Number / Title:**  
G07000 / Common Bridge Transporter (CBT) Recap

**ID Code** (A=Service Ready, B=Not Service Ready): **Program Elements for Code B Items:** N/A **Other Related Program Elements:** N/A

**Line Item MDAP/MAIS Code:** N/A **Item MDAP/MAIS Code(s):** N/A

Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	G07000 / Common Bridge Transporter (CBT) Recap	P-5a, P-21		32 / 4.756	22 / 11.013	120 / 52.546	54 / 25.176	- / -	54 / 25.176
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>			<b>32 / 4.756</b>	<b>22 / 11.013</b>	<b>120 / 52.546</b>	<b>54 / 25.176</b>	<b>- / -</b>	<b>54 / 25.176</b>

\*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

**Justification:**  
FY 2017 Base procurement dollars in the amount of \$25.176 million supports the recapitalization of 54 Common Bridge Transporters. The currently fielded M1977A0 and M1977A2 CBTs have significant obsolescence issues due to armor, electrical, and powertrain improvements. The M1977A4 provides the Soldier with key survivability requirements to include a Long Term Armor Strategy (LTAS) compliant cab, new engine and transmission, air ride suspension, anti-lock brakes and traction control, and an updated electrical system to support current and future communications equipment and diagnostic/prognostics systems.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

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<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 15	<b>P-1 Line Item Number / Title:</b> G07000 / Common Bridge Transporter (CBT) Recap	<b>Item Number / Title [DODIC]:</b> G07000 / Common Bridge Transporter (CBT) Recap

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>
Procurement Quantity (Units in Each)	32	22	120	54	-	54
Gross/Weapon System Cost (\$ in Millions)	4.756	11.013	52.546	25.176	-	25.176
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	4.756	11.013	52.546	25.176	-	25.176
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	<b>4.756</b>	<b>11.013</b>	<b>52.546</b>	<b>25.176</b>	<b>-</b>	<b>25.176</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	148.625	500.591	437.883	466.222	-	466.222

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

<b>Cost Elements</b>	<b>Prior Years</b>			<b>FY 2015</b>			<b>FY 2016</b>			<b>FY 2017 Base</b>			<b>FY 2017 OCO</b>			<b>FY 2017 Total</b>		
	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>
<b>Flyaway Cost</b>																		
<b>Recurring Cost</b>																		
M1977A4 CBT RECAP <sup>(†)</sup>	-	-	-	375.000	22	8.250	375.000	120	45.000	375.000	54	20.250	-	-	-	375.000	54	20.250
FRET	-	-	-	-	-	0.958	-	-	5.160	-	-	2.000	-	-	-	-	-	2.000
Engineering Changes	-	-	-	-	-	0.100	-	-	0.100	-	-	0.500	-	-	-	-	-	0.500
System Engineering/ Program Management	-	-	2.000	-	-	0.150	-	-	1.500	-	-	1.610	-	-	-	-	-	1.610
System Test & Evaluation, Production	-	-	-	-	-	-	-	-	-	-	-	0.500	-	-	-	-	-	0.500
Data	-	-	2.756	-	-	1.105	-	-	-	-	-	-	-	-	-	-	-	-
Fielding	-	-	-	-	-	0.450	-	-	0.786	-	-	0.316	-	-	-	-	-	0.316
<i>Subtotal: Recurring Cost</i>	-	-	4.756	-	-	11.013	-	-	52.546	-	-	25.176	-	-	-	-	-	25.176
<i>Subtotal: Flyaway Cost</i>	-	-	<b>4.756</b>	-	-	<b>11.013</b>	-	-	<b>52.546</b>	-	-	<b>25.176</b>	-	-	-	-	-	<b>25.176</b>
<b>Gross/Weapon System Cost</b>	<b>148.625</b>	<b>32</b>	<b>4.756</b>	<b>500.591</b>	<b>22</b>	<b>11.013</b>	<b>437.883</b>	<b>120</b>	<b>52.546</b>	<b>466.222</b>	<b>54</b>	<b>25.176</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>466.222</b>	<b>54</b>	<b>25.176</b>

<b>Secondary Distribution</b>		<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>
Army	Quantity	22	120	54	-	54
	Total Obligation Authority	11.013	52.546	25.176	-	25.176
<b>Total:</b>	<b>Quantity</b>	<b>22</b>	<b>120</b>	<b>54</b>	<b>-</b>	<b>54</b>

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<b>Exhibit P-5, Cost Analysis:</b> PB 2017 Army			<b>Date:</b> February 2016			
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 15		<b>P-1 Line Item Number / Title:</b> G07000 / Common Bridge Transporter (CBT) Recap		<b>Item Number / Title [DODIC]:</b> G07000 / Common Bridge Transporter (CBT) Recap		
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :			<b>MDAP/MAIS Code:</b>			
<b>Secondary Distribution</b>		<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>
<b>Secondary Distribution</b>	<b>Total Obligation Authority</b>	11.013	52.546	25.176	-	25.176

(t) indicates the presence of a P-5a



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<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2017 Army							<b>Date:</b> February 2016				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 15			<b>P-1 Line Item Number / Title:</b> G07000 / Common Bridge Transporter (CBT) Recap				<b>Item Number / Title [DODIC]:</b> G07000 / Common Bridge Transporter (CBT) Recap				

Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
M1977A4 CBT RECAP <sup>(†)</sup>		2015	Oshkosh Corp / Oshkosh	SS / FPIF	TACOM, Warren, MI	Jun 2015	May 2016	22	375.000	Y		
M1977A4 CBT RECAP <sup>(†)</sup>		2016	Oshkosh Corp / Oshkosh	SS / FPIF	TACOM, Warren, MI	Apr 2016	Sep 2016	120	375.000	Y		
M1977A4 CBT RECAP <sup>(†)</sup>		2017	Oshkosh Corp / Oshkosh	SS / FPIF	TACOM, Warren, MI	Apr 2017	Sep 2017	54	375.000	Y		

<sup>(†)</sup> indicates the presence of a P-21

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<b>Exhibit P-21, Production Schedule:</b> PB 2017 Army			<b>Date:</b> February 2016				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 15		<b>P-1 Line Item Number / Title:</b> G07000 / Common Bridge Transporter (CBT) Recap			<b>Item Number / Title [DODIC]:</b> G07000 / Common Bridge Transporter (CBT) Recap		

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2015												Fiscal Year 2016												B A L A N C E						
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2014	BAL DUE AS OF 1 OCT	Calendar Year 2015												Calendar Year 2016																	
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P					
M1977A4 CBT RECAP																																				
	1	2015	ARMY	22	-	22											A	-	-	-	-	-	-	-	-	-	-	-	5	5	3	5	4	-		
	1	2016	ARMY	120	-	120																							A	-	-	-	-	-	10	110
	1	2017	ARMY	54	-	54																														54
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P						

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<b>Exhibit P-21, Production Schedule:</b> PB 2017 Army															<b>Date:</b> February 2016														
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 15										<b>P-1 Line Item Number / Title:</b> G07000 / Common Bridge Transporter (CBT) Recap										<b>Item Number / Title [DODIC]:</b> G07000 / Common Bridge Transporter (CBT) Recap									

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2017												Fiscal Year 2018												BALANCE	
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2016	BAL DUE AS OF 1 OCT	Calendar Year 2017												Calendar Year 2018												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P
M1977A4 CBT RECAP																															
	1	2015	ARMY	22	22	-																								-	
	1	2016	ARMY	120	10	110	10	10	10	10	10	10	10	10	10	10														-	
	1	2017	ARMY	54	-	54											4	4	4	4	4	4	4	5	5	5	5	5	5	-	
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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<b>Exhibit P-21, Production Schedule:</b> PB 2017 Army		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 15	<b>P-1 Line Item Number / Title:</b> G07000 / Common Bridge Transporter (CBT) Recap	<b>Item Number / Title [DODIC]:</b> G07000 / Common Bridge Transporter (CBT) Recap

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2017	1-8-5 For 2017	MAX For 2017	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	Oshkosh Corp - Oshkosh	20	924	2,520	-	9	11	20	-	7	5	12

"A" in the Delivery Schedule indicates the Contract Award Date.

**Note:** Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

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**Exhibit P-40, Budget Line Item Justification:** PB 2017 Army **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 20: Engineer (Non-Construction) Equipment	<b>P-1 Line Item Number / Title:</b> R68400 / Grnd Standoff Mine Detectn Systm (GSTAMIDS)
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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<b>Line Item MDAP/MAIS Code:</b> N/A	<b>Item MDAP/MAIS Code(s):</b> N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	155	208	176	-	176	131	143	211	185	Continuing	Continuing
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	1,866.419	37.649	58.682	39.350	-	39.350	34.055	33.336	48.591	46.020	Continuing	Continuing
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	1,866.419	37.649	58.682	39.350	-	39.350	34.055	33.336	48.591	46.020	Continuing	Continuing
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>1,866.419</b>	<b>37.649</b>	<b>58.682</b>	<b>39.350</b>	<b>-</b>	<b>39.350</b>	<b>34.055</b>	<b>33.336</b>	<b>48.591</b>	<b>46.020</b>	<b>Continuing</b>	<b>Continuing</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost ( <i>\$ in Thousands</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Thousands</i> )	-	242.897	282.125	223.580	-	223.580	259.962	233.119	230.289	248.757	Continuing	Continuing

**Description:**

This is an All Types line covering ground vehicle mounted or towed landmine detection, marking and neutralization systems. This Program Element contributes to Area Access (A2) to support unified land operations and improve soldier survivability. This line is used to procure Improvised Explosive Devices (IED) and landmine detection, interrogation, neutralization, protection, Area Access, route clearance and area clearance capabilities. Procurement of improved detection, interrogation, neutralization and protection capabilities for mine, IED and Explosive Hazard threats are needed as technology becomes available. This exhibit contains the following programs:

**Explosive Hazard Pre-Detonation (EHP)**

EHP provides the capability of a Roller System (on the Medium Mine Protected Vehicles (MMPV) Type II), Debris Blower (on the Buffalo Mine Protected Clearance Vehicle), and Wire Neutralization (on the Husky based Vehicle Mounted Mine Detection system). EHP enhances route clearance capabilities while on the move to detect (by encounter), neutralize and survive against a full spectrum of explosive hazard landmines, IEDs, Explosively Formed Penetrator, unexploded ordnance, battlefield munitions and trigger their mechanisms while conducting route clearance operations. The Army Acquisition Objective (AAO) for the Roller System is 338, the Debris Blower is 178, and the Wire Neutralization System (WNS) is 338. For FY2017, the AAOs increased due to the new requirement for route clearance vehicles and enablers for the Army Prepositioned Stock (APS), Korea Enduring Equipment Set (KEES), European Activity Sets (EAS).

**Mine Clearing Vehicle (MCV)**

The M1271 Mine Clearing Vehicle is a medium, commercially available, blast protected, mechanical flail. The MCV is a manually controlled, self powered vehicle with an adjustable depth flail head designed to clear large areas of anti-tank and anti-personnel land mines. The AAO for MCV is 39.

**Vehicle Optics Sensor System (VOSS)**

VOSS provides a telescoping, gyro-stabilized, high resolution, triple sensor (day camera, Image Intensify Night Vision Sensor and an Infrared Sensor) surveillance system to optically detect from standoff distances, explosive hazards (Improvised Explosive Device (IEDs) and landmines), and their trigger sources. VOSS is mounted on MMPV located within Route Clearance Platoons and Explosive Ordnance Disposal (EOD) Companies. PM Ground Sensors is pursuing an acquisition approach which harvests Quick Reaction Capability (QRC) procured systems for refresh into the Program of Record (POR). The refresh effort will be conducted at Tobyhanna Army Depot.

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**Exhibit P-40, Budget Line Item Justification:** PB 2017 Army **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 20: Engineer (Non-Construction) Equipment	<b>P-1 Line Item Number / Title:</b> R68400 / Grnd Standoff Mine Detectn Syst (GSTAMIDS)
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
<b>Line Item MDAP/MAIS Code:</b> N/A	<b>Item MDAP/MAIS Code(s):</b> N/A	

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	Quantity	103	161	149	-	149	61	62	106	93
	Total Obligation Authority	24.838	47.842	35.156	-	35.156	19.055	18.536	18.591	20.170
ANG	Quantity	26	-	7	-	7	37	54	54	49
	Total Obligation Authority	6.405	-	3.000	-	3.000	7.500	7.400	15.000	13.200
AR	Quantity	26	47	20	-	20	33	27	51	43
	Total Obligation Authority	6.406	10.840	1.194	-	1.194	7.500	7.400	15.000	12.650
<b>Total:</b>	<b>Quantity</b>	<b>155</b>	<b>208</b>	<b>176</b>	<b>-</b>	<b>176</b>	<b>131</b>	<b>143</b>	<b>211</b>	<b>185</b>
<b>Secondary Distribution</b>	<b>Total Obligation Authority</b>	<b>37.649</b>	<b>58.682</b>	<b>39.350</b>	<b>-</b>	<b>39.350</b>	<b>34.055</b>	<b>33.336</b>	<b>48.591</b>	<b>46.020</b>

**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** PB 2017 Army **Date:** February 2016

**Appropriation / Budget Activity / Budget Sub Activity:**  
2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 20: Engineer (Non-Construction) Equipment

**P-1 Line Item Number / Title:**  
R68400 / Grnd Standoff Mine Detectn Systm (GSTAMIDS)

**ID Code** (A=Service Ready, B=Not Service Ready): **Program Elements for Code B Items:** N/A **Other Related Program Elements:** N/A

**Line Item MDAP/MAIS Code:** N/A **Item MDAP/MAIS Code(s):** N/A

Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	R68102 / GRND STANDOFF MINE DETECTN SYSM (GSTAMIDS)BLK 1	P-5a, P-21		- / 1,866.419	155 / 37.649	208 / 58.682	176 / 39.350	- / -	176 / 39.350
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>			<b>- / 1,866.419</b>	<b>155 / 37.649</b>	<b>208 / 58.682</b>	<b>176 / 39.350</b>	<b>- / -</b>	<b>176 / 39.350</b>

\*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

**Justification:**

Total FY2017 Base procurement dollars in this funding line are \$39.350 million procures the following:

FY2017 Base procurement dollars in the amount of \$29.637 million will support the procurement, logistics development, and fielding of EHP capabilities onto the Route Clearance vehicles. Also includes procurement of EHP training aides (target sets) and incorporates EHP capabilities into the existing 28 Virtual Clearance Training Suite (VCTS) systems. EHP Debris Blower funding supports production of 60 blowers which includes fielding, special tools and test equipment (STTE), spares, and A kits (which will enable the Buffalo vehicles to accept the debris blowers). WNS funding supports production and fielding of 48 systems, which includes target training sets, the VCTS, STTE, and spares. EHP Roller funding support production and fielding of 47 systems which includes logistics manuals, STTE, VCTS, target training sets, and spares.

FY2017 Base procurement dollars in the amount of \$0.820 million supports the fielding of previously procured MCVs with Interim Contractor Support (ICS) which will be used until soldier maintenance is available at the end of FY2017.

FY2017 Base procurement dollars in the amount of \$8.893 million supports the VOSS refresh and upgrade effort at Tobyhanna Army Depot and continued Total Package Fielding to Explosive Ordinance Disposal (EOD) and Engineers.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 20		<b>P-1 Line Item Number / Title:</b> R68400 / Grnd Standoff Mine Detectn Systm (GSTAMIDS)
		<b>Item Number / Title [DODIC]:</b> R68102 / GRND STANDOFF MINE DETECTN SYSM (GSTAMIDS)BLK 1

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	-	155	208	176	-	176
Gross/Weapon System Cost (\$ in Millions)	1,866.419	37.649	58.682	39.350	-	39.350
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	1,866.419	37.649	58.682	39.350	-	39.350
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	<b>1,866.419</b>	<b>37.649</b>	<b>58.682</b>	<b>39.350</b>	<b>-</b>	<b>39.350</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	242.897	282.125	223.580	-	223.580

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
EHP Program Mgt	-	-	-	-	-	-	-	-	2.500	-	-	2.000	-	-	-	-	-	2.000
EHP VCTS (ECPs) / Training Aids	-	-	-	-	-	-	-	-	1.965	-	-	1.397	-	-	-	-	-	1.397
Roller System Production <sup>(†)</sup>	-	-	-	-	-	-	-	-	-	220.000	47	10.340	-	-	-	220.000	47	10.340
Roller System STTE	-	-	-	-	-	-	-	-	-	-	-	0.035	-	-	-	-	-	0.035
Roller System Fielding	-	-	-	-	-	-	-	-	-	-	-	0.397	-	-	-	-	-	0.397
Roller System Spares	-	-	-	-	-	-	-	-	-	-	-	0.950	-	-	-	-	-	0.950
Debris Blower Production <sup>(†)</sup>	-	-	-	-	-	-	60.000	24	1.440	53.000	60	3.180	-	-	-	53.000	60	3.180
Debris Blower Buffalo A-Kit	-	-	-	-	-	-	20.000	100	2.000	20.000	60	1.200	-	-	-	20.000	60	1.200
Debris Blower STTE	-	-	-	-	-	-	-	-	0.040	-	-	0.100	-	-	-	-	-	0.100
Debris Blower Fielding	-	-	-	-	-	-	-	-	0.324	-	-	0.510	-	-	-	-	-	0.510
Debris Blower Spares	-	-	-	-	-	-	-	-	0.255	-	-	0.435	-	-	-	-	-	0.435
Wire Neutralization System Production <sup>(†)</sup>	-	-	-	-	-	-	-	-	-	118.000	48	5.664	-	-	-	118.000	48	5.664
Wire Neutralization System STTE	-	-	-	-	-	-	-	-	-	-	-	0.040	-	-	-	-	-	0.040
Wire Neutralization System Fielding	-	-	-	-	-	-	-	-	-	-	-	0.648	-	-	-	-	-	0.648



**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 20	<b>P-1 Line Item Number / Title:</b> R68400 / Grnd Standoff Mine Detectn Systm (GSTAMIDS)	<b>Item Number / Title [DODIC]:</b> R68102 / GRND STANDOFF MINE DETECTN SYSM (GSTAMIDS)BLK 1

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Wire Neutralization System Spares	-	-	-	-	-	-	-	-	-	-	-	0.741	-	-	-	-	-	0.741
EHP Log Development	-	-	-	-	-	7.300	-	-	9.056	-	-	2.000	-	-	-	-	-	2.000
MCV Fielding support	-	-	-	-	-	1.500	-	-	5.148	-	-	0.820	-	-	-	-	-	0.820
MCV VCTS (ECPs)	-	-	-	-	-	-	-	-	4.235	-	-	-	-	-	-	-	-	-
VOSS HW Refresh Effort	-	-	-	99.239	155	15.382	105.505	184	19.413	134.952	21	2.834	-	-	-	134.952	21	2.834
DLA & CECOM Spares	-	-	-	-	-	2.796	-	-	-	-	-	-	-	-	-	-	-	-
Engineering Support	-	-	-	-	-	1.161	-	-	1.029	-	-	0.836	-	-	-	-	-	0.836
Project Management Office	-	-	-	-	-	1.770	-	-	1.913	-	-	0.671	-	-	-	-	-	0.671
Logistics Support	-	-	-	-	-	0.665	-	-	0.704	-	-	0.296	-	-	-	-	-	0.296
Tobyhanna Refresh Labor	-	-	-	-	-	0.835	-	-	1.691	-	-	1.068	-	-	-	-	-	1.068
Fielding	-	-	-	-	-	2.347	-	-	2.603	-	-	1.806	-	-	-	-	-	1.806
Virtual Clearance Training Suite HW	-	-	-	-	-	2.231	-	-	-	-	-	-	-	-	-	-	-	-
Initial Spares	-	-	-	-	-	1.662	-	-	2.389	-	-	0.589	-	-	-	-	-	0.589
TYAD Fabrication of Cables & Brushguard	-	-	-	-	-	-	-	-	1.977	-	-	0.793	-	-	-	-	-	0.793
Prior Year Funding	-	-	1,866.419	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	<i>1,866.419</i>	-	-	<i>37.649</i>	-	-	<i>58.682</i>	-	-	<i>39.350</i>	-	-	-	-	-	<i>39.350</i>
<i>Subtotal: Hardware Cost</i>	-	-	<i>1,866.419</i>	-	-	<i>37.649</i>	-	-	<i>58.682</i>	-	-	<i>39.350</i>	-	-	-	-	-	<i>39.350</i>
<b>Gross/Weapon System Cost</b>	-	-	<b>1,866.419</b>	<b>242.897</b>	<b>155</b>	<b>37.649</b>	<b>282.125</b>	<b>208</b>	<b>58.682</b>	<b>223.580</b>	<b>176</b>	<b>39.350</b>	-	-	-	<b>223.580</b>	<b>176</b>	<b>39.350</b>

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	103	161	149	-	149
	Total Obligation Authority	24.838	47.842	35.156	-	35.156
ANG	Quantity	26	-	7	-	7
	Total Obligation Authority	6.405	-	3.000	-	3.000
AR	Quantity	26	47	20	-	20
	Total Obligation Authority	6.406	10.840	1.194	-	1.194
<b>Total:</b>	<b>Quantity</b>	<b>155</b>	<b>208</b>	<b>176</b>	<b>-</b>	<b>176</b>

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<b>Exhibit P-5, Cost Analysis:</b> PB 2017 Army			<b>Date:</b> February 2016			
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 20		<b>P-1 Line Item Number / Title:</b> R68400 / Grnd Standoff Mine Detectn Systm (GSTAMIDS)		<b>Item Number / Title [DODIC]:</b> R68102 / GRND STANDOFF MINE DETECTN SYSM (GSTAMIDS)BLK 1		
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :			<b>MDAP/MAIS Code:</b>			
<b>Secondary Distribution</b>		<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>
<b>Secondary Distribution</b>	<b>Total Obligation Authority</b>	37.649	58.682	39.350	-	39.350

(t) indicates the presence of a P-5a

**UNCLASSIFIED**

<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2017 Army							<b>Date:</b> February 2016				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 20			<b>P-1 Line Item Number / Title:</b> R68400 / Grnd Standoff Mine Detectn Systm (GSTAMIDS)				<b>Item Number / Title [DODIC]:</b> R68102 / GRND STANDOFF MINE DETECTN SYSM (GSTAMIDS)BLK 1				

Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$ K)	Specs Avail Now?	Date Revision Available	RFP Issue Date
Roller System Production <sup>(†)</sup>		2017	TBS / TBS	TBD	TACOM, Warren, MI	Apr 2017	Aug 2017	47	220.000	Y		
Debris Blower Production <sup>(†)</sup>		2016	Buffalo Turbine / Springville, NY	SS / FFP	TACOM, Warren, MI	Jun 2016	Oct 2016	24	60.000	Y		
Debris Blower Production <sup>(†)</sup>		2017	Buffalo Turbine / Springville, NY	SS / FFP	TACOM, Warren, MI	Dec 2016	Feb 2017	60	53.000	Y		
Wire Neutralization System Production <sup>(†)</sup>		2017	TBS / TBS	TBD	TACOM, Warren, MI	Nov 2016	May 2017	48	118.000	Y		

<sup>(†)</sup> indicates the presence of a P-21

**Remarks:**

FY2017 Base procurement dollars in the amount of \$29.637 million will support the procurement, logistics development, and fielding of EHP capabilities onto the Route Clearance vehicles. Also includes procurement of EHP training aides (target sets) and incorporates EHP capabilities into the existing 28 Virtual Clearance Training Suite (VCTS) systems. EHP Debris Blower funding supports production of 60 blowers which includes fielding, special tools and test equipment (STTE), spares, and A kits (which will enable the Buffalo vehicles to accept the debris blowers). WNS funding supports production and fielding of 48 systems, which includes target training sets, the VCTS, STTE, and spares. EHP Roller funding support production and fielding of 47 systems which includes logistics manuals, STTE, VCTS, target training sets, and spares.

FY2017 Base procurement dollars in the amount of \$0.820 million supports the fielding of previously procured MCVs with Interim Contractor Support (ICS) which will be used until soldier maintenance is available at the end of FY2017.

VOSS - The VOSS program is conducting refresh and repair of QRC materiel and components at the Tobyhanna Army Depot, there is no contract award or delivery schedule.

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<b>Exhibit P-21, Production Schedule:</b> PB 2017 Army															<b>Date:</b> February 2016														
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 20										<b>P-1 Line Item Number / Title:</b> R68400 / Grnd Standoff Mine Detectn Systm (GSTAMIDS)										<b>Item Number / Title [DODIC]:</b> R68102 / GRND STANDOFF MINE DETECTN SYSM (GSTAMIDS)BLK 1									

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2016														Fiscal Year 2017														BALANCE									
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2015	BAL DUE AS OF 1 OCT	Calendar Year 2016														Calendar Year 2017																						
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P													
Roller System Production																																											
1		2017	ARMY	47	-	47																							A -	-	-	-	5	5	37								
Debris Blower Production																																											
2		2016	ARMY	24	-	24																							A -	-	-	-	5	5	5	5	4			-			
2		2017	ARMY	60	-	60																								A -	-	5	5	5	5	5	5	5	5	5	5	20	
Wire Neutralization System Production																																											
3		2017	ARMY	48	-	48																								A -	-	-	-	-	-	-	5	5	5	5	5	5	23
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P													

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<b>Exhibit P-21, Production Schedule:</b> PB 2017 Army															<b>Date:</b> February 2016														
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 20										<b>P-1 Line Item Number / Title:</b> R68400 / Grnd Standoff Mine Detectn Systm (GSTAMIDS)										<b>Item Number / Title [DODIC]:</b> R68102 / GRND STANDOFF MINE DETECTN SYSM (GSTAMIDS)BLK 1									

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2018												Fiscal Year 2019												B A L A N C E		
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2017	BAL DUE AS OF 1 OCT	Calendar Year 2018												Calendar Year 2019													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P	
Roller System Production																																
	1	2017	ARMY	47	10	37	5	5	5	5	5	5	5	5	2																	-
Debris Blower Production																																
	2	2016	ARMY	24	24	-																										-
	2	2017	ARMY	60	40	20	5	5	5	5																						-
Wire Neutralization System Production																																
	3	2017	ARMY	48	25	23	5	5	5	5	3																					-
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P		

**UNCLASSIFIED**

<b>Exhibit P-21, Production Schedule:</b> PB 2017 Army		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 20		<b>P-1 Line Item Number / Title:</b> R68400 / Grnd Standoff Mine Detectn Systm (GSTAMIDS)
		<b>Item Number / Title [DODIC]:</b> R68102 / GRND STANDOFF MINE DETECTN SYSM (GSTAMIDS)BLK 1

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2017	1-8-5 For 2017	MAX For 2017	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	TBS - TBS	3	5	8	8	3	4	7	-	2	2	4
2	Buffalo Turbine - Springville, NY	3	5	7	6	8	4	12	-	3	2	5
3	TBS - TBS	3	5	8	10	1	6	7	-	3	2	5

"A" in the Delivery Schedule indicates the Contract Award Date.

**Note:** Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

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**Exhibit P-40, Budget Line Item Justification:** PB 2017 Army **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 20: Engineer (Non-Construction) Equipment	<b>P-1 Line Item Number / Title:</b> R68260 / AREA MINE DETECTION SYSTEM (AMDS)
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> 0654808A
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<b>Line Item MDAP/MAIS Code:</b> N/A	<b>Item MDAP/MAIS Code(s):</b> N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	16	-	16	33	56	63	-	-	168
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	-	-	10.500	-	10.500	16.968	26.767	29.476	-	-	83.711
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	-	-	10.500	-	10.500	16.968	26.767	29.476	-	-	83.711
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	-	-	<b>10.500</b>	-	<b>10.500</b>	<b>16.968</b>	<b>26.767</b>	<b>29.476</b>	-	-	<b>83.711</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost ( <i>\$ in Thousands</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Thousands</i> )	-	-	-	656.250	-	656.250	514.182	477.982	467.873	-	-	498.280

**Description:**

The Autonomous Mine Detection System (AMDS) provides increased survivability through mine and explosive hazards stand-off detection, marking and neutralization capability for the dismounted soldier. It provides area access and freedom of movement for the Commander. AMDS consists of payload modules to be mounted on man-portable unmanned ground vehicles. The payloads, consisting of detection, marking, and neutralization payloads, are for surface laid and buried threats to include mines and explosive hazards. This capability allows a soldier to remain in a protective posture while detecting and neutralizing a wide variety of hybrid and conventional explosive threats.

AMDS will transition from PE 0654808A, Project 415, Landmine Warfare/Barrier - Eng Dev, Engineering Manufacturing Development (EMD) phase to Low Rate Initial Production (LRIP) in FY 2017 as a new start. The Army Acquisition Objective (AAO) for AMDS is 173.

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	
Army	Quantity	-	-	16	-	16	33	36	9	-
	Total Obligation Authority	-	-	10.500	-	10.500	16.968	17.123	3.988	-
ANG	Quantity	-	-	-	-	-	-	20	18	-
	Total Obligation Authority	-	-	-	-	-	-	9.644	8.496	-
AR	Quantity	-	-	-	-	-	-	-	36	-
	Total Obligation Authority	-	-	-	-	-	-	-	16.992	-
<b>Total:</b> Secondary Distribution	<b>Quantity</b>	-	-	<b>16</b>	-	<b>16</b>	<b>33</b>	<b>56</b>	<b>63</b>	-
	<b>Total Obligation Authority</b>	-	-	<b>10.500</b>	-	<b>10.500</b>	<b>16.968</b>	<b>26.767</b>	<b>29.476</b>	-

**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** PB 2017 Army **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 20: Engineer (Non-Construction) Equipment	<b>P-1 Line Item Number / Title:</b> R68260 / AREA MINE DETECTION SYSTEM (AMDS)
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> 0654808A
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<b>Line Item MDAP/MAIS Code:</b> N/A	<b>Item MDAP/MAIS Code(s):</b> N/A
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Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	R68260 / AREA MINE DETECTION SYSTEM (AMDS)	P-5a, P-21		- / -	- / -	- / -	16 / 10.500	- / -	16 / 10.500
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>			<b>- / -</b>	<b>- / -</b>	<b>- / -</b>	<b>16 / 10.500</b>	<b>- / -</b>	<b>16 / 10.500</b>

\*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

**Justification:**  
 FY 2017 Base procurement dollars in the amount of \$10.500 million supports procurement of 16 Autonomous Mine Detection Systems (AMDSs) for Low Rate Initial Production (LRIP).

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.



**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 20	<b>P-1 Line Item Number / Title:</b> R68260 / AREA MINE DETECTION SYSTEM (AMDS)	<b>Item Number / Title [DODIC]:</b> R68260 / AREA MINE DETECTION SYSTEM (AMDS)

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	-	-	-	16	-	16
Gross/Weapon System Cost (\$ in Millions)	-	-	-	10.500	-	10.500
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	-	-	10.500	-	10.500
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	-	-	-	<b>10.500</b>	-	<b>10.500</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	656.250	-	656.250

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
AMDS Hardware <sup>(†)</sup>	-	-	-	-	-	-	-	-	-	406.375	16	6.502	-	-	-	406.375	16	6.502
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	-	6.502	-	-	-	-	-	6.502
<i>Subtotal: Hardware Cost</i>	-	-	-	-	-	-	-	-	-	-	-	<b>6.502</b>	-	-	-	-	-	<b>6.502</b>
Support - Acceptance Testing Cost																		
First Article Test	-	-	-	-	-	-	-	-	-	-	-	0.270	-	-	-	-	-	0.270
Acceptance Test	-	-	-	-	-	-	-	-	-	-	-	0.056	-	-	-	-	-	0.056
<i>Subtotal: Support - Acceptance Testing Cost</i>	-	-	-	-	-	-	-	-	-	-	-	<b>0.326</b>	-	-	-	-	-	<b>0.326</b>
Support - Production Engineering Cost																		
Production Engineering	-	-	-	-	-	-	-	-	-	-	-	2.027	-	-	-	-	-	2.027
<i>Subtotal: Support - Production Engineering Cost</i>	-	-	-	-	-	-	-	-	-	-	-	<b>2.027</b>	-	-	-	-	-	<b>2.027</b>
Support - Program Management Cost																		
Government Management	-	-	-	-	-	-	-	-	-	-	-	1.050	-	-	-	-	-	1.050
<i>Subtotal: Support - Program Management Cost</i>	-	-	-	-	-	-	-	-	-	-	-	<b>1.050</b>	-	-	-	-	-	<b>1.050</b>
Support - Staging and Transportation Cost																		
Staging and Transportation	-	-	-	-	-	-	-	-	-	-	-	0.056	-	-	-	-	-	0.056

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<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 20	<b>P-1 Line Item Number / Title:</b> R68260 / AREA MINE DETECTION SYSTEM (AMDS)	<b>Item Number / Title [DODIC]:</b> R68260 / AREA MINE DETECTION SYSTEM (AMDS)

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
<i>Subtotal: Support - Staging and Transportation Cost</i>	-	-	-	-	-	-	-	-	-	-	-	0.056	-	-	-	-	-	0.056
Support - Training Cost																		
Services	-	-	-	-	-	-	-	-	-	-	-	0.539	-	-	-	-	-	0.539
<i>Subtotal: Support - Training Cost</i>	-	-	-	-	-	-	-	-	-	-	-	0.539	-	-	-	-	-	0.539
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	-	-	-	-	656.250	16	10.500	-	-	-	656.250	16	10.500

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	-	-	16	-	16
	Total Obligation Authority	-	-	10.500	-	10.500
<b>Total:</b>	Quantity	-	-	16	-	16
<b>Secondary Distribution</b>	Total Obligation Authority	-	-	10.500	-	10.500

(t) indicates the presence of a P-5a

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<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2017 Army							<b>Date:</b> February 2016					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 20			<b>P-1 Line Item Number / Title:</b> R68260 / AREA MINE DETECTION SYSTEM (AMDS)				<b>Item Number / Title [DODIC]:</b> R68260 / AREA MINE DETECTION SYSTEM (AMDS)					
<b>Cost Elements</b>	<b>O C O</b>	<b>FY</b>	<b>Contractor and Location</b>	<b>Method/Type or Funding Vehicle</b>	<b>Location of PCO</b>	<b>Award Date</b>	<b>Date of First Delivery</b>	<b>Qty (Each)</b>	<b>Unit Cost (\$ K)</b>	<b>Specs Avail Now?</b>	<b>Date Revision Available</b>	<b>RFP Issue Date</b>
AMDS Hardware <sup>(†)</sup>		2017	Carnegie Robotics LLC / Pittsburgh, PA	C / CPIF	Picatinny Arsenal, NJ	Jun 2017	Mar 2018	16	406.375			

<sup>(†)</sup> indicates the presence of a P-21

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<b>Exhibit P-21, Production Schedule:</b> PB 2017 Army														<b>Date:</b> February 2016															
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 20										<b>P-1 Line Item Number / Title:</b> R68260 / AREA MINE DETECTION SYSTEM (AMDS)										<b>Item Number / Title [DODIC]:</b> R68260 / AREA MINE DETECTION SYSTEM (AMDS)									

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2017														Fiscal Year 2018														BALANCE	
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2016	BAL DUE AS OF 1 OCT	Calendar Year 2017														Calendar Year 2018														
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					
AMDS Hardware																																			
	1	2017	ARMY	16	-	16									A	-	-	-	-	-	-	-	-	-	-	-	4	-	-	12		-			
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					

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<b>Exhibit P-21, Production Schedule:</b> PB 2017 Army		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 20		<b>P-1 Line Item Number / Title:</b> R68260 / AREA MINE DETECTION SYSTEM (AMDS)
		<b>Item Number / Title [DODIC]:</b> R68260 / AREA MINE DETECTION SYSTEM (AMDS)

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2017	1-8-5 For 2017	MAX For 2017	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	Carnegie Robotics LLC - Pittsburgh, PA	1	5	12	9	9	9	18	9	9	4	13

"A" in the Delivery Schedule indicates the Contract Award Date.

**Note:** Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** PB 2017 Army **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 20: Engineer (Non-Construction) Equipment	<b>P-1 Line Item Number / Title:</b> R64001 / HUSKY MOUNTED DETECTION SYSTEM (HMDS)
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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<b>Line Item MDAP/MAIS Code:</b> N/A	<b>Item MDAP/MAIS Code(s):</b> N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	84	40	-	-	-	56	175	212	167	Continuing	Continuing
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	18.545	13.565	0.274	-	0.274	26.578	51.645	67.044	71.133	Continuing	Continuing
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	18.545	13.565	0.274	-	0.274	26.578	51.645	67.044	71.133	Continuing	Continuing
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	-	<b>18.545</b>	<b>13.565</b>	<b>0.274</b>	-	<b>0.274</b>	<b>26.578</b>	<b>51.645</b>	<b>67.044</b>	<b>71.133</b>	<b>Continuing</b>	<b>Continuing</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost ( <i>\$ in Thousands</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Thousands</i> )	-	220.774	339.125	-	-	-	474.607	295.114	316.245	425.946	Continuing	Continuing

**Description:**

This line is used to procure Improvised Explosive Devices (IED) and landmine detection, interrogation, neutralization, protection, route clearance and area clearance capabilities required for future battlefields. Procurements of improved detection, neutralization, and protection capabilities for mine and IED threats are expected as technology becomes available.

The Husky Mounted Detection System (HMDS) is a counter-explosive device capability that provides standoff detection and marking of metallic and low-metallic surface-laid and shallow-buried antitank landmines, unexploded ordnance, trigger mechanisms, and deep buried metallic improvised explosive devices (IEDs) and metallic encased caches in support of route and area-clearance operations. It provides area access and freedom of movement for the Commander. HMDS is a mission equipment package, mounted on the Husky route clearance vehicle, which consists of Shallow Buried Detection capability, Deep Buried Detection (DBD) capability, and Semi-Autonomous Control (SAC) capability. Program is broken out into three increments. The Shallow Buried capability (Increment A1) will detect and accurately mark a broad spectrum of suspected explosive hazards and trigger mechanisms in a wider range of road surfaces and varying soil conditions. The DBD capability (Increment A2) will detect and accurately mark suspected deep buried metallic Improvised Explosive Devices (IEDs) and metallic encased caches. The SAC capability (Increment B) will enable an operator to remotely and semi-autonomously control all functions of the Husky and HMDS from inside the Mine Protected Clearance Vehicle (MMPV) Type II, improving survivability of the operator during the detection mission. The HMDS Common Operating Group (COG) is comprised of the Common Installation Kits, DBD Trainer, Ground Penetrating Radar (GPR) Trainer, and Wire Detect (WD) Trainer. The Army Acquisition Objective for the components are as follows: GPR trainer (666), GPR (325), WD (325), DBD (175), SAC (325), and COG (666).

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	Quantity	50	20	-	-	-	56	175	140	47
	Total Obligation Authority	11.127	6.783	0.274	-	0.274	26.578	51.645	37.044	11.133
ANG	Quantity	17	10	-	-	-	-	-	36	60
	Total Obligation Authority	4.080	3.391	-	-	-	-	-	15.000	30.000
AR	Quantity	17	10	-	-	-	-	-	36	60
	Total Obligation Authority	3.338	3.391	-	-	-	-	-	15.000	30.000
<b>Total:</b>	<b>Quantity</b>	<b>84</b>	<b>40</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>56</b>	<b>175</b>	<b>212</b>	<b>167</b>

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**Exhibit P-40, Budget Line Item Justification:** PB 2017 Army **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 20: Engineer (Non-Construction) Equipment	<b>P-1 Line Item Number / Title:</b> R64001 / HUSKY MOUNTED DETECTION SYSTEM (HMDS)
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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<b>Line Item MDAP/MAIS Code:</b> N/A	<b>Item MDAP/MAIS Code(s):</b> N/A
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Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Secondary Distribution	Total Obligation Authority	18.545	13.565	0.274	-	0.274	26.578	51.645	67.044	71.133

**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** PB 2017 Army **Date:** February 2016

**Appropriation / Budget Activity / Budget Sub Activity:**  
2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 20:  
Engineer (Non-Construction) Equipment

**P-1 Line Item Number / Title:**  
R64001 / HUSKY MOUNTED DETECTION SYSTEM (HMDS)

**ID Code** (A=Service Ready, B=Not Service Ready): **Program Elements for Code B Items:** N/A **Other Related Program Elements:** N/A

**Line Item MDAP/MAIS Code:** N/A **Item MDAP/MAIS Code(s):** N/A

Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	R64002 / HMDS - GROUND PENETRATING RADAR	P-5a, P-21		- / -	84 / 18.545	- / -	- / 0.274	- / -	- / 0.274
P-5	R64005 / HMDS - Common Operating Group (COG)	P-5a, P-21		- / -	- / -	40 / 13.565	- / -	- / -	- / -
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>			- / -	<b>84 / 18.545</b>	<b>40 / 13.565</b>	<b>- / 0.274</b>	<b>- / -</b>	<b>- / 0.274</b>

\*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

**Justification:**  
FY 2017 Base procurement dollars in the amount of \$0.274 million supports systems engineering and program management.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

The FY 2017 funding request was reduced by \$14.836 million to account for the availability of prior year execution balances.



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<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 20	<b>P-1 Line Item Number / Title:</b> R64001 / HUSKY MOUNTED DETECTION SYSTEM (HMDS)	<b>Item Number / Title [DODIC]:</b> R64002 / HMDS - GROUND PENETRATING RADAR

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>
Procurement Quantity (Units in Each)	-	84	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	18.545	-	0.274	-	0.274
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	18.545	-	0.274	-	0.274
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	-	<b>18.545</b>	-	<b>0.274</b>	-	<b>0.274</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	220.774	-	-	-	-

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

<b>Cost Elements</b>	<b>Prior Years</b>			<b>FY 2015</b>			<b>FY 2016</b>			<b>FY 2017 Base</b>			<b>FY 2017 OCO</b>			<b>FY 2017 Total</b>		
	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>
<b>Hardware Cost</b>																		
<b>Recurring Cost</b>																		
HMDS GPR TRAINER <sup>(†)</sup>	-	-	-	127.100	84	10.676	-	-	-	-	-	-	-	-	-	-	-	-
Production Engineering	-	-	-	-	-	0.278	-	-	-	-	-	-	-	-	-	-	-	-
Con/Integrated Logistics Support	-	-	-	-	-	0.726	-	-	-	-	-	-	-	-	-	-	-	-
Program Support	-	-	-	-	-	1.855	-	-	-	-	-	0.274	-	-	-	-	-	0.274
Technical Data	-	-	-	-	-	1.021	-	-	-	-	-	-	-	-	-	-	-	-
Engineering Changes	-	-	-	-	-	0.235	-	-	-	-	-	-	-	-	-	-	-	-
New Equipment Training	-	-	-	-	-	0.320	-	-	-	-	-	-	-	-	-	-	-	-
Production Phase Testing	-	-	-	-	-	0.203	-	-	-	-	-	-	-	-	-	-	-	-
Initial Spares/Repair Parts	-	-	-	-	-	2.810	-	-	-	-	-	-	-	-	-	-	-	-
Fielding/Initial Support Equipment	-	-	-	-	-	0.421	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	18.545	-	-	-	-	-	0.274	-	-	-	-	-	0.274
<i>Subtotal: Hardware Cost</i>	-	-	-	-	-	18.545	-	-	-	-	-	0.274	-	-	-	-	-	0.274
<b>Gross/Weapon System Cost</b>	-	-	-	220.774	84	18.545	-	-	-	-	-	0.274	-	-	-	-	-	0.274

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 20	<b>P-1 Line Item Number / Title:</b> R64001 / HUSKY MOUNTED DETECTION SYSTEM (HMDS)	<b>Item Number / Title [DODIC]:</b> R64002 / HMDS - GROUND PENETRATING RADAR

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :		<b>MDAP/MAIS Code:</b>				
<b>Secondary Distribution</b>		<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>
Army	Quantity	50	-	-	-	-
	Total Obligation Authority	11.127	-	0.274	-	0.274
ANG	Quantity	17	-	-	-	-
	Total Obligation Authority	4.080	-	-	-	-
AR	Quantity	17	-	-	-	-
	Total Obligation Authority	3.338	-	-	-	-
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	<b>84</b>	-	-	-	-
	<b>Total Obligation Authority</b>	<b>18.545</b>	-	<b>0.274</b>	-	<b>0.274</b>

(t) indicates the presence of a P-5a

**UNCLASSIFIED**

<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2017 Army							<b>Date:</b> February 2016					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 20			<b>P-1 Line Item Number / Title:</b> R64001 / HUSKY MOUNTED DETECTION SYSTEM (HMDS)				<b>Item Number / Title [DODIC]:</b> R64002 / HMDS - GROUND PENETRATING RADAR					
<b>Cost Elements</b>	<b>O C O</b>	<b>FY</b>	<b>Contractor and Location</b>	<b>Method/Type or Funding Vehicle</b>	<b>Location of PCO</b>	<b>Award Date</b>	<b>Date of First Delivery</b>	<b>Qty (Each)</b>	<b>Unit Cost (\$ K)</b>	<b>Specs Avail Now?</b>	<b>Date Revision Available</b>	<b>RFP Issue Date</b>
HMDS GPR TRAINER <sup>(†)</sup>		2015	Tobyhanna Army Depot / Tobyhanna	MIPR	Tobyhanna Army Depot, PA	Sep 2016	Dec 2016	84	127.100			

<sup>(†)</sup> indicates the presence of a P-21

**UNCLASSIFIED**

<b>Exhibit P-21, Production Schedule:</b> PB 2017 Army															<b>Date:</b> February 2016														
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 20										<b>P-1 Line Item Number / Title:</b> R64001 / HUSKY MOUNTED DETECTION SYSTEM (HMDS)										<b>Item Number / Title [DODIC]:</b> R64002 / HMDS - GROUND PENETRATING RADAR									

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2016												Fiscal Year 2017												BALANCE	
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2015	BAL DUE AS OF 1 OCT	Calendar Year 2016												Calendar Year 2017												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P
HMDS GPR TRAINER																										-					
	1	2015	ARMY	84	-	84																						-			
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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<b>Exhibit P-21, Production Schedule:</b> PB 2017 Army		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 20		<b>P-1 Line Item Number / Title:</b> R64001 / HUSKY MOUNTED DETECTION SYSTEM (HMDS)
		<b>Item Number / Title [DODIC]:</b> R64002 / HMDS - GROUND PENETRATING RADAR

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2017	1-8-5 For 2017	MAX For 2017	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	Tobyhanna Army Depot - Tobyhanna	10	20	20	12	12	3	15	-	8	3	11

"A" in the Delivery Schedule indicates the Contract Award Date.

**Note:** Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 20	<b>P-1 Line Item Number / Title:</b> R64001 / HUSKY MOUNTED DETECTION SYSTEM (HMDS)	<b>Item Number / Title [DODIC]:</b> R64005 / HMDS - Common Operating Group (COG)

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>
Procurement Quantity (Units in Each)	-	-	40	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	-	13.565	-	-	-
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	-	13.565	-	-	-
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	-	-	<b>13.565</b>	-	-	-

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	339.125	-	-	-

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

<b>Cost Elements</b>	<b>Prior Years</b>			<b>FY 2015</b>			<b>FY 2016</b>			<b>FY 2017 Base</b>			<b>FY 2017 OCO</b>			<b>FY 2017 Total</b>		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
<b>Hardware Cost</b>																		
Recurring Cost																		
HMDS Common Operating Group <sup>(†)</sup>	-	-	-	-	-	-	135.975	40	5.439	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	5.439	-	-	-	-	-	-	-	-	-
<i>Subtotal: Hardware Cost</i>	-	-	-	-	-	-	-	-	<b>5.439</b>	-	-	-	-	-	-	-	-	-
<b>Support Cost</b>																		
Program Support	-	-	-	-	-	-	-	-	2.176	-	-	-	-	-	-	-	-	-
Production Support	-	-	-	-	-	-	-	-	2.140	-	-	-	-	-	-	-	-	-
Technical Data	-	-	-	-	-	-	-	-	1.210	-	-	-	-	-	-	-	-	-
Engineering Changes	-	-	-	-	-	-	-	-	0.140	-	-	-	-	-	-	-	-	-
New Equipment Training	-	-	-	-	-	-	-	-	0.790	-	-	-	-	-	-	-	-	-
Initial Spares/Repair Parts	-	-	-	-	-	-	-	-	1.530	-	-	-	-	-	-	-	-	-
Initial Support Equipment	-	-	-	-	-	-	-	-	0.140	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support Cost</i>	-	-	-	-	-	-	-	-	<b>8.126</b>	-	-	-	-	-	-	-	-	-
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	-	<b>339.125</b>	<b>40</b>	<b>13.565</b>	-	-	-	-	-	-	-	-	-

<b>Secondary Distribution</b>		<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>
Army	Quantity	-	20	-	-	-

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 20	<b>P-1 Line Item Number / Title:</b> R64001 / HUSKY MOUNTED DETECTION SYSTEM (HMDS)	<b>Item Number / Title [DODIC]:</b> R64005 / HMDS - Common Operating Group (COG)

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
	Total Obligation Authority	-	6.783	-	-	-
ANG	Quantity	-	10	-	-	-
	Total Obligation Authority	-	3.391	-	-	-
AR	Quantity	-	10	-	-	-
	Total Obligation Authority	-	3.391	-	-	-
<b>Total:</b>	<b>Quantity</b>	-	<b>40</b>	-	-	-
<b>Secondary Distribution</b>	<b>Total Obligation Authority</b>	-	<b>13.565</b>	-	-	-

(t) indicates the presence of a P-5a

**UNCLASSIFIED**

<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2017 Army								<b>Date:</b> February 2016				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 20			<b>P-1 Line Item Number / Title:</b> R64001 / HUSKY MOUNTED DETECTION SYSTEM (HMDS)					<b>Item Number / Title [DODIC]:</b> R64005 / HMDS - Common Operating Group (COG)				
<b>Cost Elements</b>	<b>O C O</b>	<b>FY</b>	<b>Contractor and Location</b>	<b>Method/Type or Funding Vehicle</b>	<b>Location of PCO</b>	<b>Award Date</b>	<b>Date of First Delivery</b>	<b>Qty (Each)</b>	<b>Unit Cost (\$ K)</b>	<b>Specs Avail Now?</b>	<b>Date Revision Available</b>	<b>RFP Issue Date</b>
HMDS Common Operating Group <sup>(†)</sup>		2016	Tobyhanna Army Depot / Tobyhanna	MIPR	Tobyhanna Army Depot, PA	Mar 2016	Jun 2016	40	135.975			

<sup>(†)</sup> indicates the presence of a P-21



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<b>Exhibit P-21, Production Schedule:</b> PB 2017 Army																									<b>Date:</b> February 2016					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 20										<b>P-1 Line Item Number / Title:</b> R64001 / HUSKY MOUNTED DETECTION SYSTEM (HMDS)										<b>Item Number / Title [DODIC]:</b> R64005 / HMDS - Common Operating Group (COG)										
<b>Cost Elements</b> <i>(Units in Each)</i>						<b>Fiscal Year 2016</b>												<b>Fiscal Year 2017</b>										<b>B A L A N C E</b>		
<b>O C O</b>	<b>M F R #</b>	<b>FY</b>	<b>SERVICE</b>	<b>PROC QTY</b>	<b>ACCEPT PRIOR TO 1 OCT 2015</b>	<b>BAL DUE AS OF 1 OCT</b>	<b>Calendar Year 2016</b>													<b>Calendar Year 2017</b>										
							<b>O</b>	<b>N</b>	<b>D</b>	<b>J</b>	<b>F</b>	<b>M</b>	<b>A</b>	<b>M</b>	<b>J</b>	<b>J</b>	<b>A</b>	<b>S</b>	<b>O</b>	<b>N</b>	<b>D</b>	<b>J</b>	<b>F</b>	<b>M</b>	<b>A</b>	<b>M</b>	<b>J</b>		<b>J</b>	<b>A</b>
HMDS Common Operating Group						A	-	-	-	10	10	10	10											-						
						<b>O</b>	<b>N</b>	<b>D</b>	<b>J</b>	<b>F</b>	<b>M</b>	<b>A</b>	<b>M</b>	<b>J</b>	<b>J</b>	<b>A</b>	<b>S</b>	<b>O</b>	<b>N</b>	<b>D</b>	<b>J</b>	<b>F</b>	<b>M</b>	<b>A</b>	<b>M</b>	<b>J</b>	<b>J</b>	<b>A</b>	<b>S</b>	
						<b>C</b>	<b>O</b>	<b>E</b>	<b>A</b>	<b>E</b>	<b>A</b>	<b>A</b>	<b>A</b>	<b>U</b>	<b>U</b>	<b>U</b>	<b>E</b>	<b>C</b>	<b>O</b>	<b>V</b>	<b>E</b>	<b>A</b>	<b>E</b>	<b>A</b>	<b>A</b>	<b>U</b>	<b>U</b>	<b>A</b>	<b>S</b>	
						<b>T</b>	<b>V</b>	<b>C</b>	<b>N</b>	<b>B</b>	<b>R</b>	<b>R</b>	<b>Y</b>	<b>N</b>	<b>L</b>	<b>G</b>	<b>P</b>	<b>T</b>	<b>V</b>	<b>C</b>	<b>N</b>	<b>B</b>	<b>R</b>	<b>R</b>	<b>Y</b>	<b>N</b>	<b>L</b>	<b>G</b>	<b>P</b>	

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<b>Exhibit P-21, Production Schedule:</b> PB 2017 Army		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 20		<b>P-1 Line Item Number / Title:</b> R64001 / HUSKY MOUNTED DETECTION SYSTEM (HMDS)
		<b>Item Number / Title [DODIC]:</b> R64005 / HMDS - Common Operating Group (COG)

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2017	1-8-5 For 2017	MAX For 2017	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	Tobyhanna Army Depot - Tobyhanna	1	5	10	-	4	2	6	-	4	2	6

"A" in the Delivery Schedule indicates the Contract Award Date.  
**Note:** Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** PB 2017 Army **Date:** February 2016

**Appropriation / Budget Activity / Budget Sub Activity:**  
2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 20: Engineer (Non-Construction) Equipment

**P-1 Line Item Number / Title:**  
M80400 / Robotic Combat Support System (RCSS)

**ID Code** (A=Service Ready, B=Not Service Ready): B **Program Elements for Code B Items:** 0606808A **Other Related Program Elements:** N/A

**Line Item MDAP/MAIS Code:** N/A **Item MDAP/MAIS Code(s):** N/A

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	33	1	7	16	-	16	19	33	31	53	Continuing	Continuing
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	98.841	4.701	2.136	2.951	-	2.951	6.260	15.086	13.680	21.907	Continuing	Continuing
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	98.841	4.701	2.136	2.951	-	2.951	6.260	15.086	13.680	21.907	Continuing	Continuing
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>98.841</b>	<b>4.701</b>	<b>2.136</b>	<b>2.951</b>	<b>-</b>	<b>2.951</b>	<b>6.260</b>	<b>15.086</b>	<b>13.680</b>	<b>21.907</b>	<b>Continuing</b>	<b>Continuing</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost ( <i>\$ in Thousands</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Thousands</i> )	2,995.182	4,701.000	305.143	184.438	-	184.438	329.474	457.152	441.290	413.340	Continuing	Continuing

**Description:**

This Robotic Combat Support System (RCSS) Budget line procures the M160 and the Route Clearance and Interrogation System (RCIS) Type I.

The M160 is a 6.1-ton tracked, combat engineer vehicle designed for teleoperation by soldiers from either mounted or dismounted positions to perform area clearance of antipersonnel mine-sown areas. The revised Army Acquisition Objective (AAO) is 72. The M160 detonates or destroys anti-personnel mines in a 68-inch wide path through the action of a rotating chain and hammer flail system. The M160 provides standoff and increased protection for engineer units in conducting route and area clearance missions. It fills the Light Flail mission in the Area Clearance Family of Systems. The M160 is a program of record, developed from a modified Commercial Off The Shelf (COTS) system.

The Route Clearance and Interrogation System (RCIS) Type I and Type II will enable an operator to semi-autonomously control (tele-operate) a Type I (High Mobility Engineering Excavator (HMEE)) and semi-autonomously control of Type II (RG-31). The RCIS Type I (HMEE) enables the soldier to interrogate, classify and excavate deep buried explosive hazards, Improvised Explosive Devices (IEDs), and caches in a wide range of road surfaces and soil conditions, from a standoff distance for soldier protection. The RCIS Type II (RG-31) enables soldiers to semi-autonomously control the RG-31 and its route clearance payloads. RCIS procurement is scheduled to start in FY19.

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army									
Quantity	1	-	5	-	5	5	17	19	17
Total Obligation Authority	4.701	-	0.951	-	0.951	4.260	12.586	8.930	6.896
ANG									
Quantity	-	-	5	-	5	6	8	10	-
Total Obligation Authority	-	-	1.000	-	1.000	1.000	1.250	4.250	-
AR									
Quantity	-	7	6	-	6	8	8	2	36
Total Obligation Authority	-	2.136	1.000	-	1.000	1.000	1.250	0.500	15.011
<b>Total:</b>									
<b>Quantity</b>	<b>1</b>	<b>7</b>	<b>16</b>	<b>-</b>	<b>16</b>	<b>19</b>	<b>33</b>	<b>31</b>	<b>53</b>

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**Exhibit P-40, Budget Line Item Justification:** PB 2017 Army **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 20: Engineer (Non-Construction) Equipment	<b>P-1 Line Item Number / Title:</b> M80400 / Robotic Combat Support System (RCSS)
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready): B	<b>Program Elements for Code B Items:</b> 0606808A	<b>Other Related Program Elements:</b> N/A
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<b>Line Item MDAP/MAIS Code:</b> N/A	<b>Item MDAP/MAIS Code(s):</b> N/A
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Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Secondary Distribution	Total Obligation Authority	4.701	2.136	2.951	-	2.951	6.260	15.086	13.680	21.907

**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** PB 2017 Army **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 20: Engineer (Non-Construction) Equipment	<b>P-1 Line Item Number / Title:</b> M80400 / Robotic Combat Support System (RCSS)
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready): B	<b>Program Elements for Code B Items:</b> 0606808A	<b>Other Related Program Elements:</b> N/A
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<b>Line Item MDAP/MAIS Code:</b> N/A	<b>Item MDAP/MAIS Code(s):</b> N/A
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Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	M80400 / Robotic Combat Support System (RCSS)	P-5a	B	33 / 98.841	1 / 4.701	7 / 2.136	16 / 2.951	- / -	16 / 2.951
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>			<b>33 / 98.841</b>	<b>1 / 4.701</b>	<b>7 / 2.136</b>	<b>16 / 2.951</b>	<b>- / -</b>	<b>16 / 2.951</b>

\*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

**Justification:**  
 FY 2017 Base procurement dollars in the amount of \$2.951 million supports the Total Package Fielding of M160s to Army IBCTs, National Guard and Reserve Area Clearance Platoons. System fielding includes operator and field level maintenance new equipment training with an increased PM fielding staff and equipment transportation. Additionally, funding supports M160 attachment equipment rack procurement, engineering change proposal modifications that improve maintainability and performance, and technical manual updates.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities..

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 20		<b>P-1 Line Item Number / Title:</b> M80400 / Robotic Combat Support System (RCSS)
		<b>Item Number / Title [DODIC]:</b> M80400 / Robotic Combat Support System (RCSS)

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : B	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	33	1	7	16	-	16
Gross/Weapon System Cost (\$ in Millions)	98.841	4.701	2.136	2.951	-	2.951
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	98.841	4.701	2.136	2.951	-	2.951
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	<b>98.841</b>	<b>4.701</b>	<b>2.136</b>	<b>2.951</b>	<b>-</b>	<b>2.951</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	2,995.182	4,701.000	305.143	184.438	-	184.438

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
M160 Mech Anti-Personnel Mine Clear System	516.000	142	73.273	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
M160 Total Package Fielding	-	-	-	-	-	-	-	-	-	-	-	0.510	-	-	-	-	-	0.510
M160 Racks <sup>(†)</sup>	-	-	-	-	-	-	30.000	3	0.090	30.000	16	0.480	-	-	-	30.000	16	0.480
M160 ECPs	-	-	-	-	-	-	85.000	4	0.340	-	-	-	-	-	-	-	-	-
M160 Initial Spares & Repair Parts	-	-	4.208	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
M160 Crew Radio Kits	-	-	7.592	-	-	0.400	-	-	-	-	-	-	-	-	-	-	-	-
M160 Transportation	-	-	3.378	-	-	-	-	-	-	-	-	0.050	-	-	-	-	-	0.050
M160 System Technical Support	-	-	3.489	2,561.000	1	2.561	-	-	-	-	-	0.150	-	-	-	-	-	0.150
M160 PM Support	-	-	4.415	-	-	1.740	-	-	1.706	-	-	1.761	-	-	-	-	-	1.761
RCIS PM Support	-	-	2.486	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	<i>-</i>	<i>-</i>	<i>98.840</i>	<i>-</i>	<i>-</i>	<i>4.701</i>	<i>-</i>	<i>-</i>	<i>2.136</i>	<i>-</i>	<i>-</i>	<i>2.951</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>2.951</i>
<i>Subtotal: Flyaway Cost</i>	<i>-</i>	<i>-</i>	<i>98.840</i>	<i>-</i>	<i>-</i>	<i>4.701</i>	<i>-</i>	<i>-</i>	<i>2.136</i>	<i>-</i>	<i>-</i>	<i>2.951</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>2.951</i>
<b>Gross/Weapon System Cost</b>	<b>2,995.182</b>	<b>33</b>	<b>98.841</b>	<b>4,701.000</b>	<b>1</b>	<b>4.701</b>	<b>305.143</b>	<b>7</b>	<b>2.136</b>	<b>184.438</b>	<b>16</b>	<b>2.951</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>184.438</b>	<b>16</b>	<b>2.951</b>

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<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 20	<b>P-1 Line Item Number / Title:</b> M80400 / Robotic Combat Support System (RCSS)	<b>Item Number / Title [DODIC]:</b> M80400 / Robotic Combat Support System (RCSS)

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : B	<b>MDAP/MAIS Code:</b>
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Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	1	-	5	-	5
	Total Obligation Authority	4.701	-	0.951	-	0.951
ANG	Quantity	-	-	5	-	5
	Total Obligation Authority	-	-	1.000	-	1.000
AR	Quantity	-	7	6	-	6
	Total Obligation Authority	-	2.136	1.000	-	1.000
<b>Total:</b>	<b>Quantity</b>	<b>1</b>	<b>7</b>	<b>16</b>	<b>-</b>	<b>16</b>
<b>Secondary Distribution</b>	<b>Total Obligation Authority</b>	<b>4.701</b>	<b>2.136</b>	<b>2.951</b>	<b>-</b>	<b>2.951</b>

(t) indicates the presence of a P-5a

**UNCLASSIFIED**

<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2017 Army							<b>Date:</b> February 2016					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 20			<b>P-1 Line Item Number / Title:</b> M80400 / Robotic Combat Support System (RCSS)				<b>Item Number / Title [DODIC]:</b> M80400 / Robotic Combat Support System (RCSS)					
<b>Cost Elements</b>	<b>O C O</b>	<b>FY</b>	<b>Contractor and Location</b>	<b>Method/Type or Funding Vehicle</b>	<b>Location of PCO</b>	<b>Award Date</b>	<b>Date of First Delivery</b>	<b>Qty (Each)</b>	<b>Unit Cost (\$ K)</b>	<b>Specs Avail Now?</b>	<b>Date Revision Available</b>	<b>RFP Issue Date</b>
M160 Racks		2017	TBD / TBD	MIPR	WARREN MI	Oct 2016	Mar 2017	16	30.000	Y		

**Remarks:**  
The M160 System is a Commercial-Off-The-Shelf (COTS) item so a P-21 is not required.



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**Exhibit P-40, Budget Line Item Justification:** PB 2017 Army **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 20: Engineer (Non-Construction) Equipment	<b>P-1 Line Item Number / Title:</b> W12001 / EOD Robotics Systems Recapitalization
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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<b>Line Item MDAP/MAIS Code:</b> N/A	<b>Item MDAP/MAIS Code(s):</b> N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	17	145	63	18	-	18	9	9	9	-	-	270
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	1.563	6.346	6.960	1.949	-	1.949	0.988	0.992	0.992	-	-	19.790
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	1.563	6.346	6.960	1.949	-	1.949	0.988	0.992	0.992	-	-	19.790
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>1.563</b>	<b>6.346</b>	<b>6.960</b>	<b>1.949</b>	<b>-</b>	<b>1.949</b>	<b>0.988</b>	<b>0.992</b>	<b>0.992</b>	<b>-</b>	<b>-</b>	<b>19.790</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost ( <i>\$ in Thousands</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Thousands</i> )	91.941	43.766	110.476	108.278	-	108.278	109.778	110.222	110.222	-	-	73.296

**Description:**

Army Explosive Ordnance Disposal (EOD) Robotics Recapitalization Program encompasses the Man Transportable Robotic System (MTRS) family of robots. The robot provides EOD teams with a peacetime/wartime remote, standoff capability to perform EOD reconnaissance, access sites, conduct render-safe procedures, "pick-up and carry away" hazardous material, and perform disposal tasks in a high-risk and/or contaminated environment. Recapitalization is intended to upgrade the MTRS MKII platform to address obsolescence and wear issues. Robots have not been reset subsequent to Operation Enduring Freedom.

This SSN will transition from Program Executive Office, Ammunition (PEO AMMO), Project Manager Close Combat Systems (PM CCS) to Program Executive Office, Combat Support and Combat Service Support (PEO CS&CSS), Robot Logistics Support Center (RLSC), in FY 2016, per Army Acquisition Executive (AAE) memorandum dated 28 July 2014.

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	Quantity	145	63	18	-	18	9	9	9
	Total Obligation Authority	6.346	6.960	1.949	-	1.949	0.988	0.992	0.992
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	<b>145</b>	<b>63</b>	<b>18</b>	<b>-</b>	<b>18</b>	<b>9</b>	<b>9</b>	<b>9</b>
	<b>Total Obligation Authority</b>	<b>6.346</b>	<b>6.960</b>	<b>1.949</b>	<b>-</b>	<b>1.949</b>	<b>0.988</b>	<b>0.992</b>	<b>0.992</b>

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**Exhibit P-40, Budget Line Item Justification:** PB 2017 Army **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 20: Engineer (Non-Construction) Equipment	<b>P-1 Line Item Number / Title:</b> W12001 / EOD Robotics Systems Recapitalization
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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<b>Line Item MDAP/MAIS Code:</b> N/A	<b>Item MDAP/MAIS Code(s):</b> N/A
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Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	W12001 / EOD Robotics Systems Recapitalization	P-5a, P-21		17 / 1.563	145 / 6.346	63 / 6.960	18 / 1.949	- / -	18 / 1.949
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>			<b>17 / 1.563</b>	<b>145 / 6.346</b>	<b>63 / 6.960</b>	<b>18 / 1.949</b>	<b>- / -</b>	<b>18 / 1.949</b>

\*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

**Justification:**  
 FY 2017 Base procurement dollars in the amount of \$1.949 million procures refresh/recapitalization of 18 Man Transportable Robotic System (MTRS) platforms that will address obsolescence issues, reduce sustainment cost and eliminate dependency on the original manufacturer. This recap includes the first zero-hour reset for these systems after the close of Operation Enduring Freedom. Completion of the program will extend the life of the system through the next decade. The Army Acquisition Objective (AAO) for MTRS MK II robots is 585.

Funding for active component only.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 20		<b>P-1 Line Item Number / Title:</b> W12001 / EOD Robotics Systems Recapitalization
		<b>Item Number / Title [DODIC]:</b> W12001 / EOD Robotics Systems Recapitalization

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>
Procurement Quantity ( <i>Units in Each</i> )	17	145	63	18	-	18
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	1.563	6.346	6.960	1.949	-	1.949
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	1.563	6.346	6.960	1.949	-	1.949
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>1.563</b>	<b>6.346</b>	<b>6.960</b>	<b>1.949</b>	<b>-</b>	<b>1.949</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Thousands</i> )	91.941	43.766	110.476	108.278	-	108.278

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

<b>Cost Elements</b>	<b>Prior Years</b>			<b>FY 2015</b>			<b>FY 2016</b>			<b>FY 2017 Base</b>			<b>FY 2017 OCO</b>			<b>FY 2017 Total</b>		
	<b>Unit Cost</b> (\$ K)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ K)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ K)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ K)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ K)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ K)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)
<b>Hardware Cost</b>																		
<b>Recurring Cost</b>																		
Man Transportable Robotic System (MTRS) <sup>(†)</sup>	91.000	17	1.547	36.531	145	5.297	105.000	63	6.615	105.000	18	1.890	-	-	-	105.000	18	1.890
<i>Subtotal: Recurring Cost</i>	-	-	1.547	-	-	5.297	-	-	6.615	-	-	1.890	-	-	-	-	-	1.890
<i>Subtotal: Hardware Cost</i>	-	-	1.547	-	-	5.297	-	-	6.615	-	-	1.890	-	-	-	-	-	1.890
<b>Support Cost</b>																		
Program Management	-	-	0.016	-	-	1.006	-	-	0.214	-	-	0.029	-	-	-	-	-	0.029
Transportation	-	-	-	-	-	0.043	-	-	0.043	-	-	0.005	-	-	-	-	-	0.005
New Equipment Training (NET)	-	-	-	-	-	-	-	-	0.088	-	-	0.025	-	-	-	-	-	0.025
<i>Subtotal: Support Cost</i>	-	-	0.016	-	-	1.049	-	-	0.345	-	-	0.059	-	-	-	-	-	0.059
<b>Gross/Weapon System Cost</b>	<b>91.941</b>	<b>17</b>	<b>1.563</b>	<b>43.766</b>	<b>145</b>	<b>6.346</b>	<b>110.476</b>	<b>63</b>	<b>6.960</b>	<b>108.278</b>	<b>18</b>	<b>1.949</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>108.278</b>	<b>18</b>	<b>1.949</b>

<b>Secondary Distribution</b>		<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>
Army	Quantity	145	63	18	-	18
	Total Obligation Authority	6.346	6.960	1.949	-	1.949
<b>Total:</b>	<b>Quantity</b>	<b>145</b>	<b>63</b>	<b>18</b>	<b>-</b>	<b>18</b>

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<b>Exhibit P-5, Cost Analysis:</b> PB 2017 Army		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 20	<b>P-1 Line Item Number / Title:</b> W12001 / EOD Robotics Systems Recapitalization	<b>Item Number / Title [DODIC]:</b> W12001 / EOD Robotics Systems Recapitalization

**ID Code** (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

<b>Secondary Distribution</b>		<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>
<b>Secondary Distribution</b>	<b>Total Obligation Authority</b>	6.346	6.960	1.949	-	1.949

(t) indicates the presence of a P-5a

**UNCLASSIFIED**

<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2017 Army								<b>Date:</b> February 2016				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 20			<b>P-1 Line Item Number / Title:</b> W12001 / EOD Robotics Systems Recapitalization					<b>Item Number / Title [DODIC]:</b> W12001 / EOD Robotics Systems Recapitalization				
<b>Cost Elements</b>	<b>O C O</b>	<b>FY</b>	<b>Contractor and Location</b>	<b>Method/Type or Funding Vehicle</b>	<b>Location of PCO</b>	<b>Award Date</b>	<b>Date of First Delivery</b>	<b>Qty (Each)</b>	<b>Unit Cost (\$ K)</b>	<b>Specs Avail Now?</b>	<b>Date Revision Available</b>	<b>RFP Issue Date</b>
Man Transportable Robotic System (MTRS) <sup>(†)</sup>		2015	Remotec, Inc. / Clinton, TN	SS / IDIQ	Indian Head, MD	Jun 2015	Oct 2015	145	36.531			
Man Transportable Robotic System (MTRS) <sup>(†)</sup>		2016	Robot Log Spt Center / Harrison Twp, MI	SS / IDIQ	Detroit, MI	Jun 2016	Jul 2016	63	105.000			
Man Transportable Robotic System (MTRS) <sup>(†)</sup>		2017	Robot Log Spt Center / Harrison Twp, MI	SS / IDIQ	Detroit, MI	Dec 2016	Jan 2017	18	105.000			

<sup>(†)</sup> indicates the presence of a P-21

**Remarks:**

The PM Force Projection/Robotics Logistics Support Center is the lead service for EOD Recap.

**UNCLASSIFIED**

<b>Exhibit P-21, Production Schedule:</b> PB 2017 Army	<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 20	<b>P-1 Line Item Number / Title:</b> W12001 / EOD Robotics Systems Recapitalization
	<b>Item Number / Title [DODIC]:</b> W12001 / EOD Robotics Systems Recapitalization

Cost Elements (Units in Each)						Fiscal Year 2015												Fiscal Year 2016												B A L A N C E								
O C C O #	M F R #	F Y	S E R V I C E	P R O C Q T Y	A C C E P T P R I O R T O 1 O C T 2 0 1 4	B A L D U E A S O F 1 O C T	Calendar Year 2015												Calendar Year 2016																			
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P							
Man Transportable Robotic System (MTRS)																																						
Prior Years Deliveries: 17																																						
	1	2015	ARMY	145	-	145											A	-	-	-	-	20	20	20	20	20	20	20	20	5								-
	2	2016	ARMY	63	-	63																											A	-	20	20	20	3
	2	2017	ARMY	18	-	18																															18	

**UNCLASSIFIED**

<b>Exhibit P-21, Production Schedule:</b> PB 2017 Army															<b>Date:</b> February 2016														
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 20										<b>P-1 Line Item Number / Title:</b> W12001 / EOD Robotics Systems Recapitalization										<b>Item Number / Title [DODIC]:</b> W12001 / EOD Robotics Systems Recapitalization									

Cost Elements <i>(Units in Each)</i>					Fiscal Year 2017												Fiscal Year 2018												B A L A N C E		
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2016	BAL DUE AS OF 1 OCT	Calendar Year 2017												Calendar Year 2018												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L		A U G	S E P

Man Transportable Robotic System (MTRS)																													
Prior Years Deliveries: 17																													
1	2015	ARMY	145	145	-																								-
2	2016	ARMY	63	60	3	3																							-
2	2017	ARMY	18	-	18			A -	5	5	5	3																	-

O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P
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**UNCLASSIFIED**

<b>Exhibit P-21, Production Schedule:</b> PB 2017 Army		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 20		<b>P-1 Line Item Number / Title:</b> W12001 / EOD Robotics Systems Recapitalization
		<b>Item Number / Title [DODIC]:</b> W12001 / EOD Robotics Systems Recapitalization

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2017	1-8-5 For 2017	MAX For 2017	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	Remotec, Inc. - Clinton, TN	10	20	25	8	9	3	12	8	9	3	12
2	Robot Log Spt Center - Harrison Twp, MI	10	20	25	-	3	7	10	-	1	3	4

"A" in the Delivery Schedule indicates the Contract Award Date.  
**Note:** Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).



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**Exhibit P-40, Budget Line Item Justification:** PB 2017 Army **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 20: Engineer (Non-Construction) Equipment	<b>P-1 Line Item Number / Title:</b> W12002 / Robotics and Applique Systems
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready): B	<b>Program Elements for Code B Items:</b> 0604808A	<b>Other Related Program Elements:</b> N/A
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<b>Line Item MDAP/MAIS Code:</b> N/A	<b>Item MDAP/MAIS Code(s):</b> N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	24	4	28	67	135	158	182	-	570
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	-	-	5.203	0.268	5.471	14.752	29.603	33.558	39.650	-	123.034
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	-	-	5.203	0.268	5.471	14.752	29.603	33.558	39.650	-	123.034
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	-	-	<b>5.203</b>	<b>0.268</b>	<b>5.471</b>	<b>14.752</b>	<b>29.603</b>	<b>33.558</b>	<b>39.650</b>	-	<b>123.034</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost ( <i>\$ in Thousands</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Thousands</i> )	-	-	-	216.792	67.000	195.393	220.179	219.281	212.392	217.857	-	215.849

**Description:**

The Man-Transportable Robotic System (MTRS) Inc II is a modular system providing a common chassis with a multitude of standoff capabilities through different payloads for the Army reducing overall procurement, training and sustainment costs. These capabilities include detect and confirm presence, identify disposition and counter hazards by providing a platform for payloads in support of current and future mission requirements. Additionally, MTRS Inc II will support current and future payload missions for the engineer's route clearance platoons, Special Operational Forces (SOF) detachments and Chemical Biological Radiological and Nuclear (CBRN) Units. MTRS Inc II will provide a medium sized robot configuration compatible with legacy robotic systems across all medium-sized robot users. Approved Acquisition Objective (AAO) of 566.

All funding is for the Active Component.

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	Quantity	-	-	24	4	28	36	56	81	99
	Total Obligation Authority	-	-	5.203	0.268	5.471	7.852	12.125	16.565	21.408
ANG	Quantity	-	-	-	-	-	31	71	28	42
	Total Obligation Authority	-	-	-	-	-	6.900	15.708	6.179	9.231
AR	Quantity	-	-	-	-	-	-	8	49	41
	Total Obligation Authority	-	-	-	-	-	-	1.770	10.814	9.011
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	-	-	<b>24</b>	<b>4</b>	<b>28</b>	<b>67</b>	<b>135</b>	<b>158</b>	<b>182</b>
	<b>Total Obligation Authority</b>	-	-	<b>5.203</b>	<b>0.268</b>	<b>5.471</b>	<b>14.752</b>	<b>29.603</b>	<b>33.558</b>	<b>39.650</b>

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**Exhibit P-40, Budget Line Item Justification:** PB 2017 Army **Date:** February 2016

**Appropriation / Budget Activity / Budget Sub Activity:**  
2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 20: Engineer (Non-Construction) Equipment

**P-1 Line Item Number / Title:**  
W12002 / Robotics and Applique Systems

**ID Code** (A=Service Ready, B=Not Service Ready): B **Program Elements for Code B Items:** 0604808A **Other Related Program Elements:** N/A

**Line Item MDAP/MAIS Code:** N/A **Item MDAP/MAIS Code(s):** N/A

Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	R67050 / Man Transportable Robotic Sys Inc II (MTRS Inc II)	P-5a, P-21	B	- / -	- / -	- / -	24 / 5.203	4 / 0.268	28 / 5.471
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>			- / -	- / -	- / -	<b>24 / 5.203</b>	<b>4 / 0.268</b>	<b>28 / 5.471</b>

\*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

**Justification:**  
FY 2017 procurement dollars in the amount of \$5.203 million supports the Man-Transportable Robotic System (MTRS) Inc II low rate initial production, tech manual development, provisioning and sustainment products. Providing Soldiers these systems will give them the ability to locate, identify and clear landmines and unexploded ordinance and improvised explosive devices in the path of maneuvering US Army or Joint Forces. It also provides Chemical, Biological, Radiological, Nuclear (CBRN) Soldiers with the capability to employ CBRN sensors from a standoff distance.

The FY 2017 OCO includes \$0.268 million to support the COCOM requirement for unit equipment sets to deter potential adversaries and support the European Reassurance Initiatives. The procurements includes reset to 4 TALON robots for the European Army Preposition Stock (APS) and the European activities set.

In accordance with Section 1815 of the FY2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

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<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>													<b>Date:</b> February 2016					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 20						<b>P-1 Line Item Number / Title:</b> W12002 / Robotics and Applique Systems						<b>Item Number / Title [DODIC]:</b> R67050 / Man Transportable Robotic Sys Inc II (MTRS Inc II)						
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : B									<b>MDAP/MAIS Code:</b>									
<b>Resource Summary</b>				<b>Prior Years</b>		<b>FY 2015</b>			<b>FY 2016</b>			<b>FY 2017 Base</b>			<b>FY 2017 OCO</b>		<b>FY 2017 Total</b>	
Procurement Quantity ( <i>Units in Each</i> )				-		-			-			24			4		28	
Gross/Weapon System Cost ( <i>\$ in Millions</i> )				-		-			-			5.203			0.268		5.471	
Less PY Advance Procurement ( <i>\$ in Millions</i> )				-		-			-			-			-		-	
Net Procurement (P-1) ( <i>\$ in Millions</i> )				-		-			-			5.203			0.268		5.471	
Plus CY Advance Procurement ( <i>\$ in Millions</i> )				-		-			-			-			-		-	
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )				-		-			-			<b>5.203</b>			<b>0.268</b>		<b>5.471</b>	
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>																		
Initial Spares ( <i>\$ in Millions</i> )				-		-			-			-			-		-	
Gross/Weapon System Unit Cost ( <i>\$ in Thousands</i> )				-		-			-			216.792			67.000		195.393	
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
<b>Cost Elements</b>	<b>Prior Years</b>			<b>FY 2015</b>			<b>FY 2016</b>			<b>FY 2017 Base</b>			<b>FY 2017 OCO</b>			<b>FY 2017 Total</b>		
	<b>Unit Cost</b> (\$ K)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ K)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ K)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ K)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ K)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ K)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)
Hardware Cost																		
Recurring Cost																		
MTRS Robot <sup>(†)</sup>	-	-	-	-	-	-	-	-	-	66.000	24	1.584	-	-	-	66.000	24	1.584
TALON 4 Robots <sup>(†)</sup>	-	-	-	-	-	-	-	-	-	-	-	-	67.000	4	0.268	67.000	4	0.268
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	-	1.584	-	-	0.268	-	-	1.852
<i>Subtotal: Hardware Cost</i>	-	-	-	-	-	-	-	-	-	-	-	<b>1.584</b>	-	-	<b>0.268</b>	-	-	<b>1.852</b>
Support - Data Cost																		
Technical Publications	-	-	-	-	-	-	-	-	-	-	-	2.000	-	-	-	-	-	2.000
<i>Subtotal: Support - Data Cost</i>	-	-	-	-	-	-	-	-	-	-	-	<b>2.000</b>	-	-	-	-	-	<b>2.000</b>
Support - Program Management Cost																		
Government Management	-	-	-	-	-	-	-	-	-	-	-	1.619	-	-	-	-	-	1.619
<i>Subtotal: Support - Program Management Cost</i>	-	-	-	-	-	-	-	-	-	-	-	<b>1.619</b>	-	-	-	-	-	<b>1.619</b>
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	-	-	-	-	216.792	24	5.203	67.000	4	0.268	195.393	28	5.471
<b>Secondary Distribution</b>				<b>FY 2015</b>			<b>FY 2016</b>			<b>FY 2017 Base</b>			<b>FY 2017 OCO</b>		<b>FY 2017 Total</b>			
Army	Quantity			-			-			24			4		28			
	Total Obligation Authority			-			-			5.203			0.268		5.471			

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<b>Exhibit P-5, Cost Analysis:</b> PB 2017 Army		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 20	<b>P-1 Line Item Number / Title:</b> W12002 / Robotics and Applique Systems	<b>Item Number / Title [DODIC]:</b> R67050 / Man Transportable Robotic Sys Inc II (MTRS Inc II)

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : B		<b>MDAP/MAIS Code:</b>				
<b>Secondary Distribution</b>		<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>
<b>Total:</b>	<b>Quantity</b>	-	-	24	4	28
<b>Secondary Distribution</b>	<b>Total Obligation Authority</b>	-	-	5.203	0.268	5.471

(t) indicates the presence of a P-5a

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<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2017 Army							<b>Date:</b> February 2016				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 20			<b>P-1 Line Item Number / Title:</b> W12002 / Robotics and Applique Systems				<b>Item Number / Title [DODIC]:</b> R67050 / Man Transportable Robotic Sys Inc II (MTRS Inc II)				

Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
MTRS Robot <sup>(†)</sup>		2017	TBD / TBD	C / FFP	Warren, MI	Mar 2017	Mar 2018	24	66.000	N		
TALON 4 Robots <sup>(†)</sup>	✓	2017	Robot Log Spt Center / Harrison Twp	C / FFP	Warren, MI	Feb 2017	Mar 2017	4	67.000	N		

<sup>(†)</sup> indicates the presence of a P-21

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<b>Exhibit P-21, Production Schedule:</b> PB 2017 Army													<b>Date:</b> February 2016																		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 20						<b>P-1 Line Item Number / Title:</b> W12002 / Robotics and Applique Systems													<b>Item Number / Title [DODIC]:</b> R67050 / Man Transportable Robotic Sys Inc II (MTRS Inc II)												

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2017													Fiscal Year 2018													B A L A N C E	
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2016	BAL DUE AS OF 1 OCT	Calendar Year 2017													Calendar Year 2018													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			
MTRS Robot																																	
	1	2017	ARMY	24	-	24																											
TALON 4 Robots																																	
✓	2	2017	ARMY	4	-	4							A	-																			
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

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<b>Exhibit P-21, Production Schedule:</b> PB 2017 Army		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 20		<b>P-1 Line Item Number / Title:</b> W12002 / Robotics and Applique Systems
		<b>Item Number / Title [DODIC]:</b> R67050 / Man Transportable Robotic Sys Inc II (MTRS Inc II)

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2017	1-8-5 For 2017	MAX For 2017	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	TBD - TBD	5	30	60	-	6	12	18	-	-	-	-
2	Robot Log Spt Center - Harrison Twp	5	30	60	-	-	-	-	-	-	-	-

"A" in the Delivery Schedule indicates the Contract Award Date.

**Note:** Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

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**Exhibit P-40, Budget Line Item Justification:** PB 2017 Army **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 20: Engineer (Non-Construction) Equipment	<b>P-1 Line Item Number / Title:</b> MA9200 / Explosive Ordnance Disposal Eqpmt (EOD EQPMT)
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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<b>Line Item MDAP/MAIS Code:</b> N/A	<b>Item MDAP/MAIS Code(s):</b> N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	131	164	640	-	640	560	475	475	-	Continuing	Continuing
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	15.856	17.424	5.570	-	5.570	4.172	3.921	3.920	-	Continuing	Continuing
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	15.856	17.424	5.570	-	5.570	4.172	3.921	3.920	-	Continuing	Continuing
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	-	<b>15.856</b>	<b>17.424</b>	<b>5.570</b>	-	<b>5.570</b>	<b>4.172</b>	<b>3.921</b>	<b>3.920</b>	-	<b>Continuing</b>	<b>Continuing</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost ( <i>\$ in Thousands</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Thousands</i> )	-	121.038	106.244	8.703	-	8.703	7.450	8.255	8.253	-	Continuing	Continuing

**Description:**

The Explosive Ordnance Disposal (EOD) equipment provides the capability to examine, identify, and defuse ordnance effectively and safely for Homeland Defense and Force Protection throughout the world. This equipment enables EOD soldiers to rapidly and safely render safe Unexploded Ordnance (UXO) and Improvised Explosive Devices (IEDs) that constitute a hazard to friendly operations, installations, personnel, or materiel, and is also used for dismounted operations. EOD equipment will be fielded throughout the active Army and National Guard units.

Future Radiographic System (FRS) -- The FRS, Radiographic Imaging System EOD (RISEOD), AN/GSQ-275, provides the EOD soldier with the integrated capability to obtain real time digital x-ray images of fuzes and Improvised Explosive Devices (IEDs). The Army Acquisition Objective (AAO) for FRS is 627.

Decision Support System (DSS) -- Common control station hardware and software for all EOD systems including FRS. The Army Acquisition Objective (AAO) for DSS is 640.

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army									
Quantity	91	123	486	-	486	560	475	475	-
Total Obligation Authority	12.843	12.700	3.577	-	3.577	4.172	3.921	3.920	-
ANG									
Quantity	40	41	154	-	154	-	-	-	-
Total Obligation Authority	3.013	4.724	1.993	-	1.993	-	-	-	-
<b>Total: Secondary Distribution</b>	<b>131</b>	<b>164</b>	<b>640</b>	<b>-</b>	<b>640</b>	<b>560</b>	<b>475</b>	<b>475</b>	<b>-</b>
<b>Total Obligation Authority</b>	<b>15.856</b>	<b>17.424</b>	<b>5.570</b>	<b>-</b>	<b>5.570</b>	<b>4.172</b>	<b>3.921</b>	<b>3.920</b>	<b>-</b>



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**Exhibit P-40, Budget Line Item Justification:** PB 2017 Army **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 20: Engineer (Non-Construction) Equipment	<b>P-1 Line Item Number / Title:</b> MA9200 / Explosive Ordnance Disposal Eqpmt (EOD EQPMT)
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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<b>Line Item MDAP/MAIS Code:</b> N/A	<b>Item MDAP/MAIS Code(s):</b> N/A
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Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	MA9200 / Explosive Ordnance Disposal Eqpmt (EOD EQPMT)	P-5a, P-21		- / -	131 / 15.856	164 / 17.424	640 / 5.570	- / -	640 / 5.570
P-40	Total Gross/Weapon System Cost			- / -	131 / 15.856	164 / 17.424	640 / 5.570	- / -	640 / 5.570

\*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

**Justification:**  
 FY 2017 Base procurement dollars in the amount of \$5.570 million procures equipment for modernization and uneconomically repairable assets, to include: 640 Decision Support Systems (DSSs). This equipment will increase operational capabilities of EOD units, as well as enhance the safety of EOD soldiers.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

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<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>													<b>Date:</b> February 2016					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 20						<b>P-1 Line Item Number / Title:</b> MA9200 / Explosive Ordnance Disposal Eqpmt (EOD EQPMT)						<b>Item Number / Title [DODIC]:</b> MA9200 / Explosive Ordnance Disposal Eqpmt (EOD EQPMT)						
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :									<b>MDAP/MAIS Code:</b>									
<b>Resource Summary</b>				<b>Prior Years</b>		<b>FY 2015</b>			<b>FY 2016</b>			<b>FY 2017 Base</b>			<b>FY 2017 OCO</b>		<b>FY 2017 Total</b>	
Procurement Quantity (Units in Each)				-		131			164			640			-		640	
Gross/Weapon System Cost (\$ in Millions)				-		15.856			17.424			5.570			-		5.570	
Less PY Advance Procurement (\$ in Millions)				-		-			-			-			-		-	
Net Procurement (P-1) (\$ in Millions)				-		15.856			17.424			5.570			-		5.570	
Plus CY Advance Procurement (\$ in Millions)				-		-			-			-			-		-	
<b>Total Obligation Authority (\$ in Millions)</b>				-		<b>15.856</b>			<b>17.424</b>			<b>5.570</b>			-		<b>5.570</b>	
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>																		
Initial Spares (\$ in Millions)				-		-			-			-			-		-	
Gross/Weapon System Unit Cost (\$ in Thousands)				-		121.038			106.244			8.703			-		8.703	
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
<b>Cost Elements</b>	<b>Prior Years</b>			<b>FY 2015</b>			<b>FY 2016</b>			<b>FY 2017 Base</b>			<b>FY 2017 OCO</b>			<b>FY 2017 Total</b>		
	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>
Hardware Cost																		
Recurring Cost																		
Future Radiographic System (FRS) <sup>(t)</sup>	-	-	-	89.656	131	11.745	81.735	164	13.405	-	-	-	-	-	-	-	-	-
Decision Support System (DSS) <sup>(t)</sup>	-	-	-	-	-	-	-	-	-	5.759	640	3.686	-	-	-	5.759	640	3.686
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	11.745	-	-	13.405	-	-	3.686	-	-	-	-	-	3.686
<i>Subtotal: Hardware Cost</i>	-	-	-	-	-	11.745	-	-	13.405	-	-	3.686	-	-	-	-	-	3.686
Support - Production Engineering Cost																		
Production Engineering	-	-	-	-	-	3.350	-	-	2.842	-	-	1.242	-	-	-	-	-	1.242
<i>Subtotal: Support - Production Engineering Cost</i>	-	-	-	-	-	3.350	-	-	2.842	-	-	1.242	-	-	-	-	-	1.242
Support - Program Management Cost																		
Government Management	-	-	-	-	-	0.538	-	-	0.851	-	-	0.557	-	-	-	-	-	0.557
<i>Subtotal: Support - Program Management Cost</i>	-	-	-	-	-	0.538	-	-	0.851	-	-	0.557	-	-	-	-	-	0.557
Support - Staging and Transportation Cost																		
Staging and Transportation	-	-	-	-	-	0.025	-	-	0.107	-	-	0.025	-	-	-	-	-	0.025
<i>Subtotal: Support - Staging and Transportation Cost</i>	-	-	-	-	-	0.025	-	-	0.107	-	-	0.025	-	-	-	-	-	0.025
Support - Training Cost																		

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<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 20	<b>P-1 Line Item Number / Title:</b> MA9200 / Explosive Ordnance Disposal Eqpmt (EOD EQPMT)	<b>Item Number / Title [DODIC]:</b> MA9200 / Explosive Ordnance Disposal Eqpmt (EOD EQPMT)
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :		<b>MDAP/MAIS Code:</b>

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Services	-	-	-	-	-	0.198	-	-	0.219	-	-	0.060	-	-	-	-	-	0.060
<i>Subtotal: Support - Training Cost</i>	-	-	-	-	-	<i>0.198</i>	-	-	<i>0.219</i>	-	-	<i>0.060</i>	-	-	-	-	-	<i>0.060</i>
<b>Gross/Weapon System Cost</b>	-	-	-	<b>121.038</b>	<b>131</b>	<b>15.856</b>	<b>106.244</b>	<b>164</b>	<b>17.424</b>	<b>8.703</b>	<b>640</b>	<b>5.570</b>	-	-	-	<b>8.703</b>	<b>640</b>	<b>5.570</b>

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	91	123	486	-	486
	Total Obligation Authority	12.843	12.700	3.577	-	3.577
ANG	Quantity	40	41	154	-	154
	Total Obligation Authority	3.013	4.724	1.993	-	1.993
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	<b>131</b>	<b>164</b>	<b>640</b>	-	<b>640</b>
	<b>Total Obligation Authority</b>	<b>15.856</b>	<b>17.424</b>	<b>5.570</b>	-	<b>5.570</b>

(t) indicates the presence of a P-5a

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<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2017 Army							<b>Date:</b> February 2016					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 20			<b>P-1 Line Item Number / Title:</b> MA9200 / Explosive Ordnance Disposal Eqpmt (EOD EQPMT)				<b>Item Number / Title [DODIC]:</b> MA9200 / Explosive Ordnance Disposal Eqpmt (EOD EQPMT)					

Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
Future Radiographic System (FRS) <sup>(†)</sup>		2015	LEIDOS, INC. / Reston, VA	SS / FFP	Indian Head, MD	May 2016	Apr 2017	131	89.656			
Future Radiographic System (FRS) <sup>(†)</sup>		2016	LEIDOS, INC. / Reston, VA	SS / FFP	Indian Head, MD	May 2016	Aug 2017	164	81.735			
Decision Support System (DSS) <sup>(†)</sup>		2017	TBS / TBS01	C / FFP	Indian Head, MD	May 2017	Dec 2017	640	5.759			

<sup>(†)</sup> indicates the presence of a P-21

**Remarks:**

The U.S. Navy is the Single Manager for EOD Equipment.

FRS failed the Navy's Government Acceptance Test (GAT). Leidos, Inc., is correcting the issues. Navy GAT re-commenced in January 2016. If FRS passes successfully, the next delivery order will be awarded with FY 2015 and FY 2016 funds in May 2016.

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Exhibit P-21, Production Schedule: PB 2017 Army															Date: February 2016																				
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 03 / 20										P-1 Line Item Number / Title: MA9200 / Explosive Ordnance Disposal Eqpmt (EOD EQPMT)										Item Number / Title [DODIC]: MA9200 / Explosive Ordnance Disposal Eqpmt (EOD EQPMT)															
Cost Elements (Units in Each)						Fiscal Year 2016																Fiscal Year 2017												B A L A N C E	
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEP T P R I O R T O 1 O C T 2 0 1 5	BAL D U E A S O F 1 O C T	Calendar Year 2016																Calendar Year 2017												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					
Future Radiographic System (FRS)																																			
	1	2015	ARMY	131	-	131																													
	1	2016	ARMY	164	-	164																													
Decision Support System (DSS)																																			
	2	2017	ARMY	640	-	640																													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					

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<b>Exhibit P-21, Production Schedule:</b> PB 2017 Army															<b>Date:</b> February 2016														
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 20										<b>P-1 Line Item Number / Title:</b> MA9200 / Explosive Ordnance Disposal Eqpmt (EOD EQPMT)										<b>Item Number / Title [DODIC]:</b> MA9200 / Explosive Ordnance Disposal Eqpmt (EOD EQPMT)									

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2018												Fiscal Year 2019												B A L A N C E	
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2017	BAL DUE AS OF 1 OCT	Calendar Year 2018												Calendar Year 2019												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P
Future Radiographic System (FRS)																															
	1	2015	ARMY	131	131	-																							-		
	1	2016	ARMY	164	51	113	32	32	32	17																			-		
Decision Support System (DSS)																															
	2	2017	ARMY	640	-	640	-	-	54	54	54	54	54	54	54	54	54	54	54	46										-	
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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<b>Exhibit P-21, Production Schedule:</b> PB 2017 Army		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 20		<b>P-1 Line Item Number / Title:</b> MA9200 / Explosive Ordnance Disposal Eqpmt (EOD EQPMT)
		<b>Item Number / Title [DODIC]:</b> MA9200 / Explosive Ordnance Disposal Eqpmt (EOD EQPMT)

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2017	1-8-5 For 2017	MAX For 2017	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	LEIDOS, INC. - Reston, VA	10	32	32	8	8	9	17	8	8	9	17
2	TBS - TBS01	5	54	100	8	8	7	15	6	6	4	10

"A" in the Delivery Schedule indicates the Contract Award Date.

**Note:** Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

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**Exhibit P-40, Budget Line Item Justification:** PB 2017 Army **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 20: Engineer (Non-Construction) Equipment	<b>P-1 Line Item Number / Title:</b> M60001 / Remote Demolition Systems
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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<b>Line Item MDAP/MAIS Code:</b> N/A	<b>Item MDAP/MAIS Code(s):</b> N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	571	18	142	102	-	102	12	-	-	-	Continuing	Continuing
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	24.568	4.485	8.284	6.238	-	6.238	1.971	-	-	-	Continuing	Continuing
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	24.568	4.485	8.284	6.238	-	6.238	1.971	-	-	-	Continuing	Continuing
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>24.568</b>	<b>4.485</b>	<b>8.284</b>	<b>6.238</b>	<b>-</b>	<b>6.238</b>	<b>1.971</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>Continuing</b>	<b>Continuing</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost ( <i>\$ in Thousands</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Thousands</i> )	43.026	249.167	58.338	61.157	-	61.157	164.250	-	-	-	Continuing	Continuing

**Description:**

Radio Frequency Remote Activation Munition System (RF RAMS)(MK152) M60002 is a radio-controlled wireless firing device that provides the capability to wirelessly control the initiation and the detonation of demolition charges or the remote operation of other items such as laser markers and radio functioning munitions. The basic components of the RF RAMS complete set are (1) MK26 Transmitter with two antennas, (6) MK16 Receivers with antennas and (1) M6 Battery Retainer which provides additional power for the transmitter. RF RAMS has a nominal range of 2 kilometers line-of-sight (LOS) and 5 kilometers LOS with the M6 Battery Retainer. The Shock Tube Initiator (STI) M50 is an associated component/interface that is required when using the MK152 to initiate Modernized Demolition Initiators M19, M21 and M23. This item is Code A, approved for service use.

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	Quantity	8	63	5	-	5	-	-	-
	Total Obligation Authority	1.956	3.690	0.211	-	0.211	-	-	-
ANG	Quantity	3	53	79	-	79	12	-	-
	Total Obligation Authority	0.819	3.102	4.912	-	4.912	1.971	-	-
AR	Quantity	7	26	18	-	18	-	-	-
	Total Obligation Authority	1.710	1.492	1.115	-	1.115	-	-	-
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	<b>18</b>	<b>142</b>	<b>102</b>	<b>-</b>	<b>102</b>	<b>12</b>	<b>-</b>	<b>-</b>
	<b>Total Obligation Authority</b>	<b>4.485</b>	<b>8.284</b>	<b>6.238</b>	<b>-</b>	<b>6.238</b>	<b>1.971</b>	<b>-</b>	<b>-</b>



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**Exhibit P-40, Budget Line Item Justification:** PB 2017 Army **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 20: Engineer (Non-Construction) Equipment	<b>P-1 Line Item Number / Title:</b> M60001 / Remote Demolition Systems
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	M60002 / RADIO FREQUENCY RAMS	P-5a, P-21	A	571 / 24.568	18 / 4.485	142 / 8.284	102 / 6.238	- / -	102 / 6.238
P-40	Total Gross/Weapon System Cost			571 / 24.568	18 / 4.485	142 / 8.284	102 / 6.238	- / -	102 / 6.238

\*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

**Justification:**  
 FY 2017 Base procurement dollars in the amount of \$6.238 million supports production of 102 RF RAMS sets.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses and providing military support to civil authorities.

The FY 2017 funding request was reduced by \$1.058 million to account for the availability of prior year execution balances.

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<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 20	<b>P-1 Line Item Number / Title:</b> M60001 / Remote Demolition Systems	<b>Item Number / Title [DODIC]:</b> M60002 / RADIO FREQUENCY RAMS

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	571	18	142	102	-	102
Gross/Weapon System Cost (\$ in Millions)	24.568	4.485	8.284	6.238	-	6.238
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	24.568	4.485	8.284	6.238	-	6.238
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	<b>24.568</b>	<b>4.485</b>	<b>8.284</b>	<b>6.238</b>	<b>-</b>	<b>6.238</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	43.026	249.167	58.338	61.157	-	61.157

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
RF RAMS Complete Set <sup>(†)</sup>	37.063	571	21.163	32.000	18	0.576	32.606	142	4.630	46.333	102	4.726	-	-	-	46.333	102	4.726
RF RAMS Shock Tube Initiator, M50 <sup>(†)</sup>	-	-	-	1.352	1,700	2.298	2.698	630	1.700	-	-	-	-	-	-	-	-	-
RF RAMS Trainer / Receiver, M85A1 <sup>(†)</sup>	-	-	-	1.500	200	0.300	-	-	-	-	-	-	-	-	-	-	-	-
Production Engineering	-	-	2.647	-	-	1.146	-	-	1.954	-	-	1.512	-	-	-	-	-	1.512
Production Tooling	-	-	0.758	-	-	0.164	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	24.568	-	-	4.484	-	-	8.284	-	-	6.238	-	-	-	-	-	6.238
<i>Subtotal: Flyaway Cost</i>	-	-	24.568	-	-	4.484	-	-	8.284	-	-	6.238	-	-	-	-	-	6.238
<b>Gross/Weapon System Cost</b>	<b>43.026</b>	<b>571</b>	<b>24.568</b>	<b>249.167</b>	<b>18</b>	<b>4.485</b>	<b>58.338</b>	<b>142</b>	<b>8.284</b>	<b>61.157</b>	<b>102</b>	<b>6.238</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>61.157</b>	<b>102</b>	<b>6.238</b>

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	8	63	5	-	5
	Total Obligation Authority	1.956	3.690	0.211	-	0.211
ANG	Quantity	3	53	79	-	79
	Total Obligation Authority	0.819	3.102	4.912	-	4.912
AR	Quantity	7	26	18	-	18

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**Exhibit P-5, Cost Analysis: PB 2017 Army** **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 20	<b>P-1 Line Item Number / Title:</b> M60001 / Remote Demolition Systems	<b>Item Number / Title [DODIC]:</b> M60002 / RADIO FREQUENCY RAMS
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A		<b>MDAP/MAIS Code:</b>				
<b>Secondary Distribution</b>		<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>
	Total Obligation Authority	1.710	1.492	1.115	-	1.115
<b>Total:</b>	<b>Quantity</b>	<b>18</b>	<b>142</b>	<b>102</b>	-	<b>102</b>
<b>Secondary Distribution</b>	<b>Total Obligation Authority</b>	<b>4.485</b>	<b>8.284</b>	<b>6.238</b>	-	<b>6.238</b>

(t) indicates the presence of a P-5a

**UNCLASSIFIED**

**Exhibit P-5a, Procurement History and Planning: PB 2017 Army** **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 20	<b>P-1 Line Item Number / Title:</b> M60001 / Remote Demolition Systems	<b>Item Number / Title [DODIC]:</b> M60002 / RADIO FREQUENCY RAMS
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Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
RF RAMS Complete Set <sup>(†)</sup>		2013	Raytheon / Indianapolis, IN	C / FP	Picatinny NJ	Oct 2013	Mar 2016	200	9.900			
RF RAMS Complete Set <sup>(†)</sup>		2015	TBS / TBS	C / FP	Picatinny NJ	Dec 2016	Mar 2018	18	32.000			
RF RAMS Complete Set <sup>(†)</sup>		2016	TBS / TBS	C / FP	Picatinny NJ	Dec 2016	Mar 2018	142	32.606			
RF RAMS Complete Set <sup>(†)</sup>		2017	TBS / TBS	C / FP	Picatinny NJ	May 2017	May 2018	102	46.333			
RF RAMS Shock Tube Initiator, M50 <sup>(†)</sup>		2015	TBS / TBS	C / FP	Picatinny NJ	Jun 2016	Sep 2017	1,700	1.352			
RF RAMS Shock Tube Initiator, M50 <sup>(†)</sup>		2016	TBS / TBS	C / FP	Picatinny NJ	Mar 2017	Mar 2018	630	2.698			
RF RAMS Trainer / Receiver, M85A1 <sup>(†)</sup>		2015	OGA/Work Order / ARL, MD	MIPR	Picatinny NJ	Mar 2016	May 2017	200	1.500			

<sup>(†)</sup> indicates the presence of a P-21

**Remarks:**

RF RAMS Complete Set will be a new contract in FY 2016  
 RF RAMS STI, XM50 will be new contract in FY 2016

The FY 2015 and FY 2016 funding for RF RAMS complete set will be combined for quantity increase and more economical buy for the Army.

**UNCLASSIFIED**

**Exhibit P-21, Production Schedule:** PB 2017 Army **Date:** February 2016

**Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 03 / 20 **P-1 Line Item Number / Title:** M60001 / Remote Demolition Systems **Item Number / Title [DODIC]:** M60002 / RADIO FREQUENCY RAMS

Cost Elements <i>(Units in Each)</i>				Fiscal Year 2014														Fiscal Year 2015														B A L A N C E			
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2013	BAL DUE AS OF 1 OCT	Calendar Year 2014														Calendar Year 2015														
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					
RF RAMS Complete Set																																			
Prior Years Deliveries: 371																																			
	1	2013	ARMY	200	-	200	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	200						
	2	2015	ARMY	18	-	18																							18						
	2	2016	ARMY	142	-	142																							142						
	2	2017	ARMY	102	-	102																							102						
RF RAMS Shock Tube Initiator, M50																																			
	3	2015	ARMY	1,700	-	1,700																							1,700						
	3	2016	ARMY	630	-	630																							630						
RF RAMS Trainer / Receiver, M85A1																																			
	4	2015	ARMY	200	-	200																							200						
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					

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**Exhibit P-21, Production Schedule:** PB 2017 Army **Date:** February 2016

**Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 03 / 20 **P-1 Line Item Number / Title:** M60001 / Remote Demolition Systems **Item Number / Title [DODIC]:** M60002 / RADIO FREQUENCY RAMS

Cost Elements <i>(Units in Each)</i>				Fiscal Year 2016														Fiscal Year 2017												BALANCE			
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2015	BAL DUE AS OF 1 OCT	Calendar Year 2016														Calendar Year 2017												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P		
RF RAMS Complete Set																																	
Prior Years Deliveries: 371																																	
	1	2013	ARMY	200	-	200	-	-	-	-	-	-	20	20	35	35	35	35	20											-			
	2	2015	ARMY	18	-	18																								18			
	2	2016	ARMY	142	-	142																								142			
	2	2017	ARMY	102	-	102																								102			
RF RAMS Shock Tube Initiator, M50																																	
	3	2015	ARMY	1,700	-	1,700																								1,680			
	3	2016	ARMY	630	-	630																								630			
RF RAMS Trainer / Receiver, M85A1																																	
	4	2015	ARMY	200	-	200																								100			
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

**UNCLASSIFIED**

**Exhibit P-21, Production Schedule:** PB 2017 Army **Date:** February 2016

**Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 03 / 20 **P-1 Line Item Number / Title:** M60001 / Remote Demolition Systems **Item Number / Title [DODIC]:** M60002 / RADIO FREQUENCY RAMS

Cost Elements <i>(Units in Each)</i>					Fiscal Year 2018													Fiscal Year 2019												BALANCE		
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2017	BAL DUE AS OF 1 OCT	Calendar Year 2018													Calendar Year 2019												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P	
RF RAMS Complete Set																																
Prior Years Deliveries: 371																																
	1	2013	ARMY	200	200	-																							-			
	2	2015	ARMY	18	-	18	-	-	-	-	-	-	18																-			
	2	2016	ARMY	142	-	142	-	-	-	-	-	32	32	32	32	14													-			
	2	2017	ARMY	102	-	102	-	-	-	-	-	-	-	18	18	26	40												-			
RF RAMS Shock Tube Initiator, M50																																
	3	2015	ARMY	1,700	20	1,680	300	300	300	300	300	180																-				
	3	2016	ARMY	630	-	630	-	-	-	-	-	120	200	200	110														-			
RF RAMS Trainer / Receiver, M85A1																																
	4	2015	ARMY	200	100	100																						100				
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P		

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**Exhibit P-21, Production Schedule:** PB 2017 Army **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 20	<b>P-1 Line Item Number / Title:</b> M60001 / Remote Demolition Systems	<b>Item Number / Title [DODIC]:</b> M60002 / RADIO FREQUENCY RAMS
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MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2017	1-8-5 For 2017	MAX For 2017	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	Raytheon - Indianapolis, IN	5	20	50	8	8	15	23	6	6	12	18
2	TBS - TBS	5	20	300	8	8	15	23	6	6	12	18
3	TBS - TBS	5	20	300	8	8	15	23	6	6	12	18
4	OGA/Work Order - ARL, MD	5	20	300	8	8	15	23	6	6	12	18

"A" in the Delivery Schedule indicates the Contract Award Date.

**Note:** Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).



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**Exhibit P-40, Budget Line Item Justification:** PB 2017 Army **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 20: Engineer (Non-Construction) Equipment	<b>P-1 Line Item Number / Title:</b> MA7700 / < \$5M, Countermine Equipment
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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<b>Line Item MDAP/MAIS Code:</b> N/A	<b>Item MDAP/MAIS Code(s):</b> N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	211	58	132	-	-	-	-	-	-	-	Continuing	Continuing
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	56.361	2.938	5.459	0.836	-	0.836	1.100	0.800	-	-	Continuing	Continuing
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	56.361	2.938	5.459	0.836	-	0.836	1.100	0.800	-	-	Continuing	Continuing
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>56.361</b>	<b>2.938</b>	<b>5.459</b>	<b>0.836</b>	<b>-</b>	<b>0.836</b>	<b>1.100</b>	<b>0.800</b>	<b>-</b>	<b>-</b>	<b>Continuing</b>	<b>Continuing</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost ( <i>\$ in Thousands</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Thousands</i> )	267.114	50.655	41.356	-	-	-	-	-	-	-	Continuing	Continuing

**Description:**

This line covers procurement of countermine equipment with a total cost of less than five million dollars. This line includes detectors, neutralizing devices, training aids and devices to support New Equipment Training (NET), initial entry training, and institutional training, as well as any related tasks.

The M303 Blasting Demolition Kit (BDK) contains shaped charge liners and other demolition items that are used to fabricate customized demolitions in the field. The kit can be procured as a whole kit or as individual components.

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	Quantity	29	44	-	-	-	-	-	-
	Total Obligation Authority	1.469	1.859	0.836	-	0.836	-	-	-
ANG	Quantity	29	44	-	-	-	-	-	-
	Total Obligation Authority	1.469	1.800	-	-	-	1.100	-	-
AR	Quantity	-	44	-	-	-	-	-	-
	Total Obligation Authority	-	1.800	-	-	-	-	0.800	-
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	<b>58</b>	<b>132</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
	<b>Total Obligation Authority</b>	<b>2.938</b>	<b>5.459</b>	<b>0.836</b>	<b>-</b>	<b>0.836</b>	<b>1.100</b>	<b>0.800</b>	<b>-</b>

**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** PB 2017 Army **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 20: Engineer (Non-Construction) Equipment	<b>P-1 Line Item Number / Title:</b> MA7700 / < \$5M, Countermine Equipment
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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<b>Line Item MDAP/MAIS Code:</b> N/A	<b>Item MDAP/MAIS Code(s):</b> N/A
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Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	MA7700 / < \$5M, Countermine Equipment	P-5a, P-21	A	211 / 56.361	58 / 2.938	132 / 5.459	- / 0.836	- / -	- / 0.836
P-40	Total Gross/Weapon System Cost			211 / 56.361	58 / 2.938	132 / 5.459	- / 0.836	- / -	- / 0.836

\*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

**Justification:**

FY 2017 Procurement dollars in the amount of \$0.836 million supports initial fielding and deployment of Blasting Demolition Kits to combat engineers. War reserve requirements support OSD-approved Combatant Commander Operational Plans, Homeland Defense, and other OSD-directed missions. Training requirements support individual and collective training of Active and Reserve Component forces at Army schools, home station and the combined training centers. Test requirements support the development, fielding, safety and quality assurance of Army munitions and equipment throughout their life-cycle.

The FY 2017 Base procurement dollars in the amount of \$0.836M supports the Fielding and New Equipment Training for the M303 Blasting Demolition Kits.

The M303 BDK is currently on contract and is in the process of being produced. Current buy is with FY 2012, FY 2013 and FY 2014 funds. First deliveries are estimated for depot in December 2016. The next procurement will be a combined FY 2015 and FY 2016 buy which will put the contract in the high quantity, low dollar range. This buy will fill the BOIP. Final production and last deliver to the depot is expected the end of CY 2018 from the contractor. The funds in the FY 2017, FY 2018, and FY 2019 will be used to cover engineering support. Program Management support, quality and logistic personnel, and fielding/new equipment training to the units receiving the kits. Without funds in FY 2017, FY 2018 and FY 2019 these efforts will not be able to be conducted and the gaining units will not be able to receive their kits, since New Equipment Training is a requirement.

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 20		<b>P-1 Line Item Number / Title:</b> MA7700 / < \$5M, Countermine Equipment
		<b>Item Number / Title [DODIC]:</b> MA7700 / < \$5M, Countermine Equipment

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	211	58	132	-	-	-
Gross/Weapon System Cost (\$ in Millions)	56.361	2.938	5.459	0.836	-	0.836
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	56.361	2.938	5.459	0.836	-	0.836
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	<b>56.361</b>	<b>2.938</b>	<b>5.459</b>	<b>0.836</b>	<b>-</b>	<b>0.836</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	267.114	50.655	41.356	-	-	-

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
<b>Hardware Cost</b>																		
<b>Recurring Cost</b>																		
M303 BDK/ Individual Hardware Components <sup>(†)</sup>	254.549	211	53.710	31.030	58	1.800	31.610	132	4.172	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	53.710	-	-	1.800	-	-	4.173	-	-	-	-	-	-	-	-	-
<b>Non Recurring Cost</b>																		
Production Engineering - M303 BDK	-	-	2.247	-	-	1.138	-	-	1.286	-	-	0.836	-	-	-	-	-	0.836
FAT - Blasting Demo Kit	-	-	0.100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Engineering Change Proposal - BDK	-	-	0.104	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Technical Data Package Update - BDK	-	-	0.200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Non Recurring Cost</i>	-	-	2.651	-	-	1.138	-	-	1.286	-	-	0.836	-	-	-	-	-	0.836
<i>Subtotal: Hardware Cost</i>	-	-	56.361	-	-	2.938	-	-	5.459	-	-	0.836	-	-	-	-	-	0.836
<b>Gross/Weapon System Cost</b>	<b>267.114</b>	<b>211</b>	<b>56.361</b>	<b>50.655</b>	<b>58</b>	<b>2.938</b>	<b>41.356</b>	<b>132</b>	<b>5.459</b>	<b>-</b>	<b>-</b>	<b>0.836</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0.836</b>

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<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 20	<b>P-1 Line Item Number / Title:</b> MA7700 / < \$5M, Countertermine Equipment	<b>Item Number / Title [DODIC]:</b> MA7700 / < \$5M, Countertermine Equipment

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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<b>Secondary Distribution</b>		<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>
Army	Quantity	29	44	-	-	-
	Total Obligation Authority	1.469	1.859	0.836	-	0.836
ANG	Quantity	29	44	-	-	-
	Total Obligation Authority	1.469	1.800	-	-	-
AR	Quantity	-	44	-	-	-
	Total Obligation Authority	-	1.800	-	-	-
<b>Total:</b>	<b>Quantity</b>	<b>58</b>	<b>132</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>Secondary Distribution</b>	<b>Total Obligation Authority</b>	<b>2.938</b>	<b>5.459</b>	<b>0.836</b>	<b>-</b>	<b>0.836</b>

(t) indicates the presence of a P-5a

**UNCLASSIFIED**

<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2017 Army							<b>Date:</b> February 2016					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 20			<b>P-1 Line Item Number / Title:</b> MA7700 / < \$5M, Countermine Equipment				<b>Item Number / Title [DODIC]:</b> MA7700 / < \$5M, Countermine Equipment					

Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$ K)	Specs Avail Now?	Date Revision Available	RFP Issue Date
M303 BDK/Individual Hardware Components <sup>(†)</sup>		2012	Spectra Technologies; LLC / Camden, AR	C / IDIQ	Picatinny Arsenal, NJ	Aug 2014	Dec 2016	132	24.538			
M303 BDK/Individual Hardware Components <sup>(†)</sup>		2013	Spectra Technologies; LLC / Camden, AR	C / IDIQ	Picatinny Arsenal, NJ	Aug 2014	Jun 2017	39	24.538			
M303 BDK/Individual Hardware Components <sup>(†)</sup>		2014	Spectra Technologies; LLC / Camden, AR	C / IDIQ	Picatinny Arsenal, NJ	Aug 2014	Jul 2017	40	31.922			
M303 BDK/Individual Hardware Components <sup>(†)</sup>		2015	Spectra Technologies; LLC / Camden, AR	C / IDIQ	Picatinny Arsenal, NJ	May 2016	Sep 2017	58	31.030			
M303 BDK/Individual Hardware Components <sup>(†)</sup>		2016	Spectra Technologies; LLC / Camden, AR	C / IDIQ	Picatinny Arsenal, NJ	May 2016	Nov 2017	132	31.610			

<sup>(†)</sup> indicates the presence of a P-21

**Remarks:**

FY 2015 and FY 2016 awards will be delivery orders on the contract awarded in FY 2014 and will be combined for an economical procurement.

The M303 was awarded in Aug 2014. Since the award, the contractor has had multiple issues with the TDP, and controlling their sub-contractors. Currently the contract has slipped by 8 months and the government is awaiting the contractor-to-contractor to begin First Article Test (FAT). Upon successful completion of FAT, the contractor will begin production and will turn on their sub's which will provide a lot of the individual items that make up the kit. The latest schedule from the contractor predicting first deliveries to depot in December 2016.

**UNCLASSIFIED**

<b>Exhibit P-21, Production Schedule:</b> PB 2017 Army															<b>Date:</b> February 2016									
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 20										<b>P-1 Line Item Number / Title:</b> MA7700 / < \$5M, Countermine Equipment										<b>Item Number / Title [DODIC]:</b> MA7700 / < \$5M, Countermine Equipment				

Cost Elements <i>(Units in Each)</i>					Fiscal Year 2014												Fiscal Year 2015												B A L A N C E		
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2013	BAL DUE AS OF 1 OCT	Calendar Year 2014												Calendar Year 2015												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L		A U G	S E P
M303 BDK/Individual Hardware Components																															
	1	2012	ARMY <sup>(IX)</sup>	132	-	132																							132		
	1	2013	ARMY <sup>(X)</sup>	39	-	39																							39		
	1	2014	ARMY <sup>(XI)</sup>	40	-	40																							40		
	1	2015	ARMY <sup>(XII)</sup>	58	-	58																							58		
	1	2016	ARMY <sup>(XIII)</sup>	132	-	132																							132		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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<b>Exhibit P-21, Production Schedule: PB 2017 Army</b>	<b>Date:</b> February 2016
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<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 20	<b>P-1 Line Item Number / Title:</b> MA7700 / < \$5M, Countermine Equipment	<b>Item Number / Title [DODIC]:</b> MA7700 / < \$5M, Countermine Equipment
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Cost Elements <i>(Units in Each)</i>					Fiscal Year 2016														Fiscal Year 2017														BALANCE																		
O C C #	M F R #	F Y	S E R V I C E	P R O C Q T Y	A C C E P T P R I O R T O 1 O C T 2 0 1 5	B A L D U E A S O F 1 O C T	Calendar Year 2016														Calendar Year 2017																														
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P																					
M303 BDK/Individual Hardware Components																																																			
	1	2012	ARMY <sup>(IX)</sup>	132	-	132	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-																						
	1	2013	ARMY <sup>(X)</sup>	39	-	39	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	22	17	-	-																					
	1	2014	ARMY <sup>(XI)</sup>	40	-	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	22	13																				
	1	2015	ARMY <sup>(XII)</sup>	58	-	58	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9																					
	1	2016	ARMY <sup>(XIII)</sup>	132	-	132	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-																					
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>O C C #</td> <td>N O V</td> <td>D E C</td> <td>J A N</td> <td>F E B</td> <td>M A R</td> <td>A P R</td> <td>M A Y</td> <td>J U N</td> <td>J U L</td> <td>A U G</td> <td>S E P</td> <td>O C T</td> <td>N O V</td> <td>D E C</td> <td>J A N</td> <td>F E B</td> <td>M A R</td> <td>A P R</td> <td>M A Y</td> <td>J U N</td> <td>J U L</td> <td>A U G</td> <td>S E P</td> </tr> </table>																												O C C #	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P
O C C #	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P																												

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<b>Exhibit P-21, Production Schedule:</b> PB 2017 Army		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 20		<b>P-1 Line Item Number / Title:</b> MA7700 / < \$5M, Countermine Equipment
		<b>Item Number / Title [DODIC]:</b> MA7700 / < \$5M, Countermine Equipment

Cost Elements <i>(Units in Each)</i>					Fiscal Year 2018												Fiscal Year 2019												BALANCE		
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2017	BAL DUE AS OF 1 OCT	Calendar Year 2018												Calendar Year 2019												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L		A U G	S E P
M303 BDK/Individual Hardware Components																															
1		2012	ARMY <sup>(IX)</sup>	132	132	-																							-		
1		2013	ARMY <sup>(X)</sup>	39	39	-																							-		
1		2014	ARMY <sup>(XI)</sup>	40	40	-																							-		
1		2015	ARMY <sup>(XII)</sup>	58	9	49	22	15	12																				-		
1		2016	ARMY <sup>(XIII)</sup>	132	-	132	-	6	10	22	22	22	22	28															-		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	



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<b>Exhibit P-21, Production Schedule:</b> PB 2017 Army		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 20		<b>P-1 Line Item Number / Title:</b> MA7700 / < \$5M, Countermine Equipment
		<b>Item Number / Title [DODIC]:</b> MA7700 / < \$5M, Countermine Equipment

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2017	1-8-5 For 2017	MAX For 2017	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	Spectra Technologies; LLC - Camden, AR	10	22	35	15	15	18	33	3	3	12	15

"A" in the Delivery Schedule indicates the Contract Award Date.  
**Note:** Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

- Service/Agency Suffixes:**  
 (IX) BASE  
 (X) BASE  
 (XI) BASE  
 (XII) BASE  
 (XIII) BASE

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**Exhibit P-40, Budget Line Item Justification:** PB 2017 Army **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 20: Engineer (Non-Construction) Equipment	<b>P-1 Line Item Number / Title:</b> R12001 / Family of Boats and Motors
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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<b>Line Item MDAP/MAIS Code:</b> N/A	<b>Item MDAP/MAIS Code(s):</b> N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	300	79	20	99	143	250	130	70	Continuing	Continuing
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	-	8.429	3.171	0.280	3.451	4.302	5.966	4.199	2.168	Continuing	Continuing
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	-	8.429	3.171	0.280	3.451	4.302	5.966	4.199	2.168	Continuing	Continuing
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	-	<b>8.429</b>	<b>3.171</b>	<b>0.280</b>	<b>3.451</b>	<b>4.302</b>	<b>5.966</b>	<b>4.199</b>	<b>2.168</b>	<b>Continuing</b>	<b>Continuing</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost ( <i>\$ in Thousands</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Thousands</i> )	-	-	28.097	40.139	14.000	34.859	30.084	23.864	32.300	30.971	Continuing	Continuing

**Description:**

The Family of Boats and Motors (FoBaM) consists of 7-person Inflatable Combat Raiding Craft (I-CRC), 15 person Inflatable Combat Assault Craft (I-CAC), Common Motor, and Rigid Inflatable Boat (RIB). The 7-person I-CRC, 15-person I-CAC, and Common Motor replace current outdated legacy systems. The RIB adds a new capability to the field. All systems support both engineer and special forces in a variety of operations such as: assault landings; reconnaissance and river crossing operations; infiltration and exfiltration; long-range surveillance; amphibious raid, surface swimming, dive, submarine, ravine, anti-mine, bridging, and air operations; underwater construction; underwater repair work; dam and pier repairs; light salvage; and humanitarian aid/disaster relief. Army Acquisition Objective (AAO) for FoBaM is: 7-person I-CRC 394, 15-person I-CAC 528, Common Motor 932, and RIB 19.

Funds in this program are realignment of funds from program Items Less than \$5M, SSN ML5301 for more efficient, effective program management.

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	Quantity	-	114	32	20	52	54	98	31	39
	Total Obligation Authority	-	3.698	2.225	0.280	2.505	1.976	3.152	2.187	1.412
ANG	Quantity	-	167	38	-	38	73	124	74	31
	Total Obligation Authority	-	3.873	0.782	-	0.782	1.962	2.098	1.444	0.756
AR	Quantity	-	19	9	-	9	16	28	25	-
	Total Obligation Authority	-	0.858	0.164	-	0.164	0.364	0.716	0.568	-
<b>Total:</b>	<b>Quantity</b>	<b>-</b>	<b>300</b>	<b>79</b>	<b>20</b>	<b>99</b>	<b>143</b>	<b>250</b>	<b>130</b>	<b>70</b>
<b>Secondary Distribution</b>	<b>Total Obligation Authority</b>	<b>-</b>	<b>8.429</b>	<b>3.171</b>	<b>0.280</b>	<b>3.451</b>	<b>4.302</b>	<b>5.966</b>	<b>4.199</b>	<b>2.168</b>

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**Exhibit P-40, Budget Line Item Justification:** PB 2017 Army **Date:** February 2016

**Appropriation / Budget Activity / Budget Sub Activity:**  
2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 20: Engineer (Non-Construction) Equipment

**P-1 Line Item Number / Title:**  
R12001 / Family of Boats and Motors

**ID Code** (A=Service Ready, B=Not Service Ready): **Program Elements for Code B Items:** N/A **Other Related Program Elements:** N/A

**Line Item MDAP/MAIS Code:** N/A **Item MDAP/MAIS Code(s):** N/A

Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	R12010 / FoBAM Common Motor			- / -	- / -	197 / 4.667	42 / 0.834	- / -	42 / 0.834
P-5	R12015 / FoBAM Rigid Inflatable Boat			- / -	- / -	6 / 1.955	5 / 1.606	- / -	5 / 1.606
P-5	R12016 / FoBAM 7-Man Boat			- / -	- / -	28 / 0.431	16 / 0.427	20 / 0.280	36 / 0.707
P-5	R12028 / FoBAM 15-Man Boat			- / -	- / -	69 / 1.376	16 / 0.304	- / -	16 / 0.304
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>			- / -	- / -	<b>300 / 8.429</b>	<b>79 / 3.171</b>	<b>20 / 0.280</b>	<b>99 / 3.451</b>

\*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

**Justification:**  
FY17 Base procurement dollars in the amount of \$3.171 million supports a quantity of 42 Common Motors, 5 RIB, 16 7-person I-CRC, and 16 15-person I-CAC. Providing soldiers these systems will give them the capability to complete required missions, provide support to civil authorities and deter and defeat hybrid threats in support of Army Force Generation (ARFORGEN) requirements.

The FY17 OCO includes \$.280 million to support the COCOM requirement for unit equipment sets to deter potential adversaries and support the European Reassurance Initiatives. The procurements include a quantity of 20 7-person I-CRC.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

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<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>					<b>Date:</b> February 2016				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 20			<b>P-1 Line Item Number / Title:</b> R12001 / Family of Boats and Motors			<b>Item Number / Title [DODIC]:</b> R12010 / FoBAM Common Motor			
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :					<b>MDAP/MAIS Code:</b>				
<b>Resource Summary</b>			<b>Prior Years</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>	
Procurement Quantity (Units in Each)			-	-	197	42	-	42	
Gross/Weapon System Cost (\$ in Millions)			-	-	4.667	0.834	-	0.834	
Less PY Advance Procurement (\$ in Millions)			-	-	-	-	-	-	
Net Procurement (P-1) (\$ in Millions)			-	-	4.667	0.834	-	0.834	
Plus CY Advance Procurement (\$ in Millions)			-	-	-	-	-	-	
<b>Total Obligation Authority (\$ in Millions)</b>			-	-	<b>4.667</b>	<b>0.834</b>	-	<b>0.834</b>	
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>									
Initial Spares (\$ in Millions)			-	-	-	-	-	-	
Gross/Weapon System Unit Cost (\$ in Thousands)			-	-	23.690	19.857	-	19.857	

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
<b>Hardware Cost</b>																		
Recurring Cost																		
Common Motor	-	-	-	-	-	-	22.000	197	4.334	15.290	42	0.642	-	-	-	15.290	42	0.642
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	4.334	-	-	0.642	-	-	-	-	-	0.642
<b>Subtotal: Hardware Cost</b>	-	-	-	-	-	-	-	-	<b>4.334</b>	-	-	<b>0.642</b>	-	-	-	-	-	<b>0.642</b>
<b>Support - Fielding Cost</b>																		
Fielding	-	-	-	-	-	-	-	-	0.106	-	-	0.054	-	-	-	-	-	0.054
<i>Subtotal: Support - Fielding Cost</i>	-	-	-	-	-	-	-	-	<b>0.106</b>	-	-	<b>0.054</b>	-	-	-	-	-	<b>0.054</b>
<b>Support - Production Engineering Cost</b>																		
Production Engineering	-	-	-	-	-	-	-	-	0.076	-	-	0.046	-	-	-	-	-	0.046
<i>Subtotal: Support - Production Engineering Cost</i>	-	-	-	-	-	-	-	-	<b>0.076</b>	-	-	<b>0.046</b>	-	-	-	-	-	<b>0.046</b>
<b>Support - Program Management Cost</b>																		
Government Management	-	-	-	-	-	-	-	-	0.075	-	-	0.046	-	-	-	-	-	0.046
<i>Subtotal: Support - Program Management Cost</i>	-	-	-	-	-	-	-	-	<b>0.075</b>	-	-	<b>0.046</b>	-	-	-	-	-	<b>0.046</b>
<b>Support - Quality Assurance Cost</b>																		
Quality Assurance	-	-	-	-	-	-	-	-	0.076	-	-	0.046	-	-	-	-	-	0.046
<i>Subtotal: Support - Quality Assurance Cost</i>	-	-	-	-	-	-	-	-	<b>0.076</b>	-	-	<b>0.046</b>	-	-	-	-	-	<b>0.046</b>
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	-	23.690	197	4.667	19.857	42	0.834	-	-	-	19.857	42	0.834

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<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>	<b>Date:</b> February 2016
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<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 20	<b>P-1 Line Item Number / Title:</b> R12001 / Family of Boats and Motors	<b>Item Number / Title [DODIC]:</b> R12010 / FoBAM Common Motor
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	-	84	17	-	17
	Total Obligation Authority	-	1.962	0.343	-	0.343
ANG	Quantity	-	113	21	-	21
	Total Obligation Authority	-	2.705	0.420	-	0.420
AR	Quantity	-	-	4	-	4
	Total Obligation Authority	-	-	0.071	-	0.071
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	-	<b>197</b>	<b>42</b>	-	<b>42</b>
	<b>Total Obligation Authority</b>	-	<b>4.667</b>	<b>0.834</b>	-	<b>0.834</b>

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<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 20	<b>P-1 Line Item Number / Title:</b> R12001 / Family of Boats and Motors	<b>Item Number / Title [DODIC]:</b> R12015 / FoBAM Rigid Inflatable Boat

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	-	-	6	5	-	5
Gross/Weapon System Cost (\$ in Millions)	-	-	1.955	1.606	-	1.606
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	-	1.955	1.606	-	1.606
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	-	-	<b>1.955</b>	<b>1.606</b>	-	<b>1.606</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	325.833	321.200	-	321.200

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
<b>Hardware Cost</b>																		
Recurring Cost																		
Rigid Inflatable Boat	-	-	-	-	-	-	238.000	6	1.428	275.000	5	1.375	-	-	-	275.000	5	1.375
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	1.428	-	-	1.375	-	-	-	-	-	1.375
<b>Subtotal: Hardware Cost</b>	-	-	-	-	-	-	-	-	<b>1.428</b>	-	-	<b>1.375</b>	-	-	-	-	-	<b>1.375</b>
<b>Support - Fielding Cost</b>																		
Fielding	-	-	-	-	-	-	-	-	0.100	-	-	0.075	-	-	-	-	-	0.075
<i>Subtotal: Support - Fielding Cost</i>	-	-	-	-	-	-	-	-	<b>0.100</b>	-	-	<b>0.075</b>	-	-	-	-	-	<b>0.075</b>
<b>Support - Program Management Cost</b>																		
Government Management	-	-	-	-	-	-	-	-	0.327	-	-	0.106	-	-	-	-	-	0.106
<i>Subtotal: Support - Program Management Cost</i>	-	-	-	-	-	-	-	-	<b>0.327</b>	-	-	<b>0.106</b>	-	-	-	-	-	<b>0.106</b>
<b>Support - Quality Assurance Cost</b>																		
Quality Assurance	-	-	-	-	-	-	-	-	0.100	-	-	0.050	-	-	-	-	-	0.050
<i>Subtotal: Support - Quality Assurance Cost</i>	-	-	-	-	-	-	-	-	<b>0.100</b>	-	-	<b>0.050</b>	-	-	-	-	-	<b>0.050</b>
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	-	<b>325.833</b>	<b>6</b>	<b>1.955</b>	<b>321.200</b>	<b>5</b>	<b>1.606</b>	-	-	-	<b>321.200</b>	<b>5</b>	<b>1.606</b>

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	-	5	5	-	5

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<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>				<b>Date:</b> February 2016		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 20		<b>P-1 Line Item Number / Title:</b> R12001 / Family of Boats and Motors		<b>Item Number / Title [DODIC]:</b> R12015 / FoBAM Rigid Inflatable Boat		
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :			<b>MDAP/MAIS Code:</b>			
<b>Secondary Distribution</b>		<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>
Total Obligation Authority		-	1.312	1.606	-	1.606
ANG	Quantity	-	1	-	-	-
Total Obligation Authority		-	0.643	-	-	-
<b>Total:</b>	<b>Quantity</b>	-	<b>6</b>	<b>5</b>	-	<b>5</b>
<b>Secondary Distribution</b>	<b>Total Obligation Authority</b>	-	<b>1.955</b>	<b>1.606</b>	-	<b>1.606</b>

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>					<b>Date:</b> February 2016				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 20			<b>P-1 Line Item Number / Title:</b> R12001 / Family of Boats and Motors			<b>Item Number / Title [DODIC]:</b> R12016 / FoBAM 7-Man Boat			
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :					<b>MDAP/MAIS Code:</b>				
<b>Resource Summary</b>			<b>Prior Years</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>	
Procurement Quantity (Units in Each)			-	-	28	16	20	36	
Gross/Weapon System Cost (\$ in Millions)			-	-	0.431	0.427	0.280	0.707	
Less PY Advance Procurement (\$ in Millions)			-	-	-	-	-	-	
Net Procurement (P-1) (\$ in Millions)			-	-	0.431	0.427	0.280	0.707	
Plus CY Advance Procurement (\$ in Millions)			-	-	-	-	-	-	
<b>Total Obligation Authority (\$ in Millions)</b>			-	-	<b>0.431</b>	<b>0.427</b>	<b>0.280</b>	<b>0.707</b>	
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>									
Initial Spares (\$ in Millions)			-	-	-	-	-	-	
Gross/Weapon System Unit Cost (\$ in Thousands)			-	-	15.393	26.688	14.000	19.639	

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
7-person I-CRC	-	-	-	-	-	-	12.000	28	0.336	14.000	16	0.224	14.000	20	0.280	14.000	36	0.504
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	0.336	-	-	0.224	-	-	0.280	-	-	0.504
<b>Subtotal: Hardware Cost</b>	-	-	-	-	-	-	-	-	<b>0.336</b>	-	-	<b>0.224</b>	-	-	<b>0.280</b>	-	-	<b>0.504</b>
Support - Fielding Cost																		
Fielding	-	-	-	-	-	-	-	-	0.025	-	-	0.057	-	-	-	-	-	0.057
<i>Subtotal: Support - Fielding Cost</i>	-	-	-	-	-	-	-	-	<b>0.025</b>	-	-	<b>0.057</b>	-	-	-	-	-	<b>0.057</b>
Support - Production Engineering Cost																		
Production Engineering	-	-	-	-	-	-	-	-	0.025	-	-	0.057	-	-	-	-	-	0.057
<i>Subtotal: Support - Production Engineering Cost</i>	-	-	-	-	-	-	-	-	<b>0.025</b>	-	-	<b>0.057</b>	-	-	-	-	-	<b>0.057</b>
Support - Program Management Cost																		
Government Management	-	-	-	-	-	-	-	-	0.020	-	-	0.032	-	-	-	-	-	0.032
<i>Subtotal: Support - Program Management Cost</i>	-	-	-	-	-	-	-	-	<b>0.020</b>	-	-	<b>0.032</b>	-	-	-	-	-	<b>0.032</b>
Support - Quality Assurance Cost																		
Quality Assurance	-	-	-	-	-	-	-	-	0.025	-	-	0.057	-	-	-	-	-	0.057
<i>Subtotal: Support - Quality Assurance Cost</i>	-	-	-	-	-	-	-	-	<b>0.025</b>	-	-	<b>0.057</b>	-	-	-	-	-	<b>0.057</b>
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	-	<b>15.393</b>	<b>28</b>	<b>0.431</b>	<b>26.688</b>	<b>16</b>	<b>0.427</b>	<b>14.000</b>	<b>20</b>	<b>0.280</b>	<b>19.639</b>	<b>36</b>	<b>0.707</b>



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<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>	<b>Date:</b> February 2016
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<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 20	<b>P-1 Line Item Number / Title:</b> R12001 / Family of Boats and Motors	<b>Item Number / Title [DODIC]:</b> R12016 / FoBAM 7-Man Boat
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	-	18	10	20	30
	Total Obligation Authority	-	0.286	0.276	0.280	0.556
ANG	Quantity	-	10	6	-	6
	Total Obligation Authority	-	0.145	0.151	-	0.151
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	-	<b>28</b>	<b>16</b>	<b>20</b>	<b>36</b>
	<b>Total Obligation Authority</b>	-	<b>0.431</b>	<b>0.427</b>	<b>0.280</b>	<b>0.707</b>

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<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>					<b>Date:</b> February 2016					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 20			<b>P-1 Line Item Number / Title:</b> R12001 / Family of Boats and Motors			<b>Item Number / Title [DODIC]:</b> R12028 / FoBAM 15-Man Boat				
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :					<b>MDAP/MAIS Code:</b>					
<b>Resource Summary</b>			<b>Prior Years</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>		
Procurement Quantity (Units in Each)			-	-	69	16	-	-	16	
Gross/Weapon System Cost (\$ in Millions)			-	-	1.376	0.304	-	-	0.304	
Less PY Advance Procurement (\$ in Millions)			-	-	-	-	-	-	-	
Net Procurement (P-1) (\$ in Millions)			-	-	1.376	0.304	-	-	0.304	
Plus CY Advance Procurement (\$ in Millions)			-	-	-	-	-	-	-	
<b>Total Obligation Authority (\$ in Millions)</b>			-	-	<b>1.376</b>	<b>0.304</b>	-	-	<b>0.304</b>	
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>										
Initial Spares (\$ in Millions)			-	-	-	-	-	-	-	
Gross/Weapon System Unit Cost (\$ in Thousands)			-	-	19.942	19.000	-	-	19.000	

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
<b>Hardware Cost</b>																		
Recurring Cost																		
15-person I-CAC	-	-	-	-	-	-	15.000	69	1.035	14.000	16	0.224	-	-	-	14.000	16	0.224
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	1.035	-	-	0.224	-	-	-	-	-	0.224
<i>Subtotal: Hardware Cost</i>	-	-	-	-	-	-	-	-	1.035	-	-	0.224	-	-	-	-	-	0.224
<b>Support - Fielding Cost</b>																		
Fielding	-	-	-	-	-	-	-	-	0.084	-	-	0.020	-	-	-	-	-	0.020
<i>Subtotal: Support - Fielding Cost</i>	-	-	-	-	-	-	-	-	0.084	-	-	0.020	-	-	-	-	-	0.020
<b>Support - Production Engineering Cost</b>																		
Production Engineering	-	-	-	-	-	-	-	-	0.084	-	-	0.020	-	-	-	-	-	0.020
<i>Subtotal: Support - Production Engineering Cost</i>	-	-	-	-	-	-	-	-	0.084	-	-	0.020	-	-	-	-	-	0.020
<b>Support - Program Management Cost</b>																		
Government Management	-	-	-	-	-	-	-	-	0.089	-	-	0.020	-	-	-	-	-	0.020
<i>Subtotal: Support - Program Management Cost</i>	-	-	-	-	-	-	-	-	0.089	-	-	0.020	-	-	-	-	-	0.020
<b>Support - Quality Assurance Cost</b>																		
Quality Assurance	-	-	-	-	-	-	-	-	0.084	-	-	0.020	-	-	-	-	-	0.020
<i>Subtotal: Support - Quality Assurance Cost</i>	-	-	-	-	-	-	-	-	0.084	-	-	0.020	-	-	-	-	-	0.020
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	-	19.942	69	1.376	19.000	16	0.304	-	-	-	19.000	16	0.304

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**Exhibit P-5, Cost Analysis: PB 2017 Army** **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 20	<b>P-1 Line Item Number / Title:</b> R12001 / Family of Boats and Motors	<b>Item Number / Title [DODIC]:</b> R12028 / FoBAM 15-Man Boat
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**ID Code** (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	-	7	-	-	-
	Total Obligation Authority	-	0.138	-	-	-
ANG	Quantity	-	43	11	-	11
	Total Obligation Authority	-	0.380	0.211	-	0.211
AR	Quantity	-	19	5	-	5
	Total Obligation Authority	-	0.858	0.093	-	0.093
<b>Total:</b>	<b>Quantity</b>	-	<b>69</b>	<b>16</b>	-	<b>16</b>
<b>Secondary Distribution</b>	<b>Total Obligation Authority</b>	-	<b>1.376</b>	<b>0.304</b>	-	<b>0.304</b>

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**Exhibit P-40, Budget Line Item Justification:** PB 2017 Army **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 25: Combat Service Support Equipment	<b>P-1 Line Item Number / Title:</b> MF9000 / Heaters and ECU's
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> 0608804A
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<b>Line Item MDAP/MAIS Code:</b> N/A	<b>Item MDAP/MAIS Code(s):</b> N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	662	385	1,624	1,396	68	1,464	1,064	272	272	1,595	Continuing	Continuing
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	112.588	7.388	18.876	18.707	0.894	19.601	16.277	8.198	8.463	27.857	Continuing	Continuing
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	112.588	7.388	18.876	18.707	0.894	19.601	16.277	8.198	8.463	27.857	Continuing	Continuing
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>112.588</b>	<b>7.388</b>	<b>18.876</b>	<b>18.707</b>	<b>0.894</b>	<b>19.601</b>	<b>16.277</b>	<b>8.198</b>	<b>8.463</b>	<b>27.857</b>	<b>Continuing</b>	<b>Continuing</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost ( <i>\$ in Thousands</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Thousands</i> )	170.073	19.190	11.623	13.400	13.147	13.389	15.298	30.140	31.114	17.465	Continuing	Continuing

**Description:**

This budget line represents the Army's family of Improved Environmental Control Units (IECUs), commonly known as Air Conditioners. IECUs provide cooling and supplemental heating for Army tents and shelters. Systems range in size from 9,000 to 60,000 British Thermal Units/hour (BTU/hr) and are powered by common electrical currents supplied by both mobile electric power systems and standard commercial facilities. IECUs also provide dehumidification and filtering of air in support of environmentally sensitive electronic equipment in mobile shelters and vans. IECUs support critical electronic equipment that would not support the Army mission without proper environmental control. IECUs support over 180 separate tactical weapon systems. The majority of the supported weapon systems are command, control, and communication items. Other applications include medical facilities, force provider systems, support equipment, satellite communications, intelligence gathering systems, petroleum and water logistics laboratories, electronic shop sets, Test Measurement and Diagnostic Equipment (TMDE), aviation shop sets and topographic support sets.

The IECU program will provide a new generation of Environmental Control Units (ECUs) that use environmentally approved refrigerants, with zero ozone-depleting chemicals (ODCs), to replace the current Military Standard (MIL-STD) Family of ECUs. The IECUs will provide improved cooling, heating, and dehumidification to soldiers and materiel systems in combat, combat support and combat service support units. IECUs are required to replace currently fielded environmental control units in order to comply with statutory and regulatory restrictions on the use of Class II Ozone Depleting Chemicals (ODCs) and to increase the performance of military ECUs. They are form, fit and function replacements to the current MIL-STD ECUs. IECUs operate at wider operating temperatures, are more ruggedized than commercial ECUs, and employ embedded diagnostics and automatic safety controls. Technical improvements over existing military-standard ECUs will yield significant fuel and weight savings, reduction in scheduled maintenance, and increased reliability.

60,000 (3 phase / 50-60 hertz) BTUH (British Thermal Units per Hour) Army Acquisition Objective (AAO) = 2,432

9,000 (single phase / 60 hertz) BTUH AAO = 2,129,

18,000 (3 phase / 60 hertz / 208V) BTUH AAO = 3,625

18,000 (single phase / 60 hertz / 230V) BTUH AAO= 819

36,000 (3 phase / 60 hertz) BTUH AAO= 879

All OCO funding is Active Component.

<b>Secondary Distribution</b>		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	Quantity	207	862	739	68	807	575	144	144	875

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**Exhibit P-40, Budget Line Item Justification:** PB 2017 Army **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 25: Combat Service Support Equipment	<b>P-1 Line Item Number / Title:</b> MF9000 / Heaters and ECU's
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> 0608804A
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<b>Line Item MDAP/MAIS Code:</b> N/A	<b>Item MDAP/MAIS Code(s):</b> N/A
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Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
	Total Obligation Authority	3.988	10.022	9.949	0.894	10.843	8.748	4.345	4.480	15.133
ANG	Quantity	126	545	471	-	471	409	85	85	634
	Total Obligation Authority	2.407	6.329	6.258	-	6.258	6.272	2.603	2.687	11.205
AR	Quantity	52	217	186	-	186	80	43	43	86
	Total Obligation Authority	0.993	2.525	2.500	-	2.500	1.257	1.250	1.296	1.519
<b>Total:</b>	<b>Quantity</b>	<b>385</b>	<b>1,624</b>	<b>1,396</b>	<b>68</b>	<b>1,464</b>	<b>1,064</b>	<b>272</b>	<b>272</b>	<b>1,595</b>
<b>Secondary Distribution</b>	<b>Total Obligation Authority</b>	<b>7.388</b>	<b>18.876</b>	<b>18.707</b>	<b>0.894</b>	<b>19.601</b>	<b>16.277</b>	<b>8.198</b>	<b>8.463</b>	<b>27.857</b>

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**Exhibit P-40, Budget Line Item Justification:** PB 2017 Army **Date:** February 2016

**Appropriation / Budget Activity / Budget Sub Activity:**  
2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 25:  
Combat Service Support Equipment **P-1 Line Item Number / Title:**  
MF9000 / Heaters and ECU's

**ID Code** (A=Service Ready, B=Not Service Ready): **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0608804A

**Line Item MDAP/MAIS Code:** N/A **Item MDAP/MAIS Code(s):** N/A

Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	MF9303 / IMPROVED ENVIRONMENTAL CONTROL UNITS	P-5a, P-21		662 / 112.588	385 / 7.388	1,624 / 18.876	1,396 / 18.707	68 / 0.894	1,464 / 19.601
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>			<b>662 / 112.588</b>	<b>385 / 7.388</b>	<b>1,624 / 18.876</b>	<b>1,396 / 18.707</b>	<b>68 / 0.894</b>	<b>1,464 / 19.601</b>

\*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

**Justification:**

FY17 Base procurement dollars in the amount of \$18.934 million supports the family of Improved Environmental Control Units 9,000 BTU/hr (British Thermal Units), 18,000 BTU/hr and 36,000 BTU/hr IECUs that are required as a component or separately authorized in support of fielded tactical weapon systems. They are required to fill existing shortages or provide replacement for assets that are overaged, non-supportable, and non-repairable. The IECUs are critical to the systems they support. Additionally, IECUs are required to fill urgent shortages on new fieldings of high priority weapon systems. They are used in select shelters which house critical life-saving operations in Combat Support Hospitals and storage of perishable supplies in Brigade Support Battalions. The 9,000 BTU/hr, 18,000 BTU/hr and 36,000 BTU/hr IECUs provide an EPA compliant capability to the force structure before commercial/military stocks of previously used refrigerant are exhausted and no longer available.

FY17 OCO procurement dollars in the amount of \$0.894 million supports the European Reassurance Initiative effort.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

The FY 2017 funding request was reduced for \$0.676 million to account for the availability of prior year execution balances.

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<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>											<b>Date:</b> February 2016								
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 25						<b>P-1 Line Item Number / Title:</b> MF9000 / Heaters and ECU's						<b>Item Number / Title [DODIC]:</b> MF9303 / IMPROVED ENVIRONMENTAL CONTROL UNITS							
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :											<b>MDAP/MAIS Code:</b>								
<b>Resource Summary</b>				<b>Prior Years</b>			<b>FY 2015</b>			<b>FY 2016</b>			<b>FY 2017 Base</b>			<b>FY 2017 OCO</b>		<b>FY 2017 Total</b>	
Procurement Quantity (Units in Each)				662			385			1,624			1,396			68		1,464	
Gross/Weapon System Cost (\$ in Millions)				112.588			7.388			18.876			18.707			0.894		19.601	
Less PY Advance Procurement (\$ in Millions)				-			-			-			-			-		-	
Net Procurement (P-1) (\$ in Millions)				112.588			7.388			18.876			18.707			0.894		19.601	
Plus CY Advance Procurement (\$ in Millions)				-			-			-			-			-		-	
<b>Total Obligation Authority (\$ in Millions)</b>				<b>112.588</b>			<b>7.388</b>			<b>18.876</b>			<b>18.707</b>			<b>0.894</b>		<b>19.601</b>	
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>																			
Initial Spares (\$ in Millions)				-			-			-			-			-		-	
Gross/Weapon System Unit Cost (\$ in Thousands)				170.073			19.190			11.623			13.400			13.147		13.389	

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
1. Engineering Support	-	-	20.818	-	-	0.782	-	-	0.799	-	-	0.910	-	-	-	-	-	0.910
2. Engineering Change Orders	-	-	2.214	-	-	0.060	-	-	0.061	-	-	0.262	-	-	-	-	-	0.262
3. Testing	-	-	2.150	-	-	0.200	-	-	0.061	-	-	0.859	-	-	-	-	-	0.859
4. System Fielding Support	-	-	1.200	-	-	0.376	-	-	0.500	-	-	0.510	-	-	-	-	-	0.510
5. System Assessment	-	-	-	-	-	0.055	-	-	0.081	-	-	0.286	-	-	-	-	-	0.286
6. Logistic Support	-	-	23.911	-	-	0.623	-	-	0.706	-	-	0.720	-	-	-	-	-	0.720
7. Data	-	-	1.097	-	-	0.598	-	-	0.051	-	-	0.332	-	-	-	-	-	0.332
8. Program Management Support	-	-	25.009	-	-	0.885	-	-	1.016	-	-	1.124	-	-	-	-	-	1.124
9,000 BTU/H ECU <sup>(†)</sup>	-	-	-	8.916	157	1.400	8.917	594	5.297	9.299	607	5.644	-	-	-	9.299	607	5.644
18,000 BTU/H ECU (208V 3PH/50/60Hz) <sup>(†)</sup>	-	-	-	9.656	76	0.734	9.657	584	5.640	9.983	430	4.293	-	-	-	9.983	430	4.293
18,000 BTU/H ECU (230V 1PH/50/60Hz) <sup>(†)</sup>	-	-	-	9.386	76	0.713	9.389	300	2.817	9.705	277	2.688	-	-	-	9.705	277	2.688
36,000 BTU/H ECU <sup>(†)</sup>	-	-	-	12.656	76	0.962	12.660	146	1.848	13.147	82	1.078	13.147	68	0.894	13.147	150	1.972

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<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 25		<b>P-1 Line Item Number / Title:</b> MF9000 / Heaters and ECU's
		<b>Item Number / Title [DODIC]:</b> MF9303 / IMPROVED ENVIRONMENTAL CONTROL UNITS
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :		<b>MDAP/MAIS Code:</b>

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
60,000 BTU/H IECU (Full Rate)	9.975	3,628	36.189	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	112.588	-	-	7.388	-	-	18.876	-	-	18.707	-	-	0.894	-	-	19.601
<i>Subtotal: Flyaway Cost</i>	-	-	112.588	-	-	7.388	-	-	18.876	-	-	18.707	-	-	0.894	-	-	19.601
<b>Gross/Weapon System Cost</b>	<b>170.073</b>	<b>662</b>	<b>112.588</b>	<b>19.190</b>	<b>385</b>	<b>7.388</b>	<b>11.623</b>	<b>1,624</b>	<b>18.876</b>	<b>13.400</b>	<b>1,396</b>	<b>18.707</b>	<b>13.147</b>	<b>68</b>	<b>0.894</b>	<b>13.389</b>	<b>1,464</b>	<b>19.601</b>

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	207	862	739	68	807
	Total Obligation Authority	3.988	10.022	9.949	0.894	10.843
ANG	Quantity	126	545	471	-	471
	Total Obligation Authority	2.407	6.329	6.258	-	6.258
AR	Quantity	52	217	186	-	186
	Total Obligation Authority	0.993	2.525	2.500	-	2.500
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	<b>385</b>	<b>1,624</b>	<b>1,396</b>	<b>68</b>	<b>1,464</b>
	<b>Total Obligation Authority</b>	<b>7.388</b>	<b>18.876</b>	<b>18.707</b>	<b>0.894</b>	<b>19.601</b>

(t) indicates the presence of a P-5a



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<b>Exhibit P-5a, Procurement History and Planning: PB 2017 Army</b>							<b>Date:</b> February 2016				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 25			<b>P-1 Line Item Number / Title:</b> MF9000 / Heaters and ECU's				<b>Item Number / Title [DODIC]:</b> MF9303 / IMPROVED ENVIRONMENTAL CONTROL UNITS				

Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$ K)	Specs Avail Now?	Date Revision Available	RFP Issue Date
9,000 BTU/H ECU <sup>(†)</sup>		2015	Mainstream Engr / Rockledge, FL	C / FP	CECOM	Sep 2015	Sep 2016	157	8.916	Y		
9,000 BTU/H ECU <sup>(†)</sup>		2016	Mainstream Engr / Rockledge, FL	C / FP	CECOM	Sep 2016	Sep 2017	594	8.917	Y		
9,000 BTU/H ECU <sup>(†)</sup>		2017	Mainstream Engr / Rockledge, FL	C / FP	CECOM	Sep 2016	Sep 2018	607	9.299	Y		
18,000 BTU/H ECU (208V 3PH/50/60Hz) <sup>(†)</sup>		2015	Mainstream Engr / Rockledge, FL	C / FP	CECOM	Sep 2015	Sep 2016	76	9.656	Y		
18,000 BTU/H ECU (208V 3PH/50/60Hz) <sup>(†)</sup>		2016	Mainstream Engr / Rockledge, FL	C / FP	CECOM	Sep 2016	Sep 2017	584	9.657	Y		
18,000 BTU/H ECU (208V 3PH/50/60Hz) <sup>(†)</sup>		2017	Mainstream Engr / Rockledge, FL	C / FP	CECOM	Sep 2017	Sep 2018	430	9.983	Y		
18,000 BTU/H ECU (230V 1PH/50/60Hz) <sup>(†)</sup>		2015	Mainstream Engr / Rockledge, FL	C / FP	CECOM	Sep 2015	Sep 2016	76	9.386	Y		
18,000 BTU/H ECU (230V 1PH/50/60Hz) <sup>(†)</sup>		2016	Mainstream Engr / Rockledge, FL	C / FP	CECOM	Sep 2016	Sep 2017	300	9.389	Y		
18,000 BTU/H ECU (230V 1PH/50/60Hz) <sup>(†)</sup>		2017	Mainstream Engr / Rockledge, FL	C / FP	CECOM	Sep 2017	Sep 2018	277	9.705	Y		
36,000 BTU/H ECU <sup>(†)</sup>		2015	Mainstream Engr / Rockledge, FL	C / FP	CECOM	Sep 2015	Sep 2016	76	12.656	Y		
36,000 BTU/H ECU <sup>(†)</sup>		2016	Mainstream Engr / Rockledge, FL	C / FP	CECOM	Sep 2016	Sep 2017	146	12.660	Y		
36,000 BTU/H ECU <sup>(†)</sup>		2017	Mainstream Engr / Rockledge, FL	C / FP	CECOM	Sep 2017	Sep 2018	150	13.147	Y		

<sup>(†)</sup> indicates the presence of a P-21

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<b>Exhibit P-21, Production Schedule:</b> PB 2017 Army										<b>Date:</b> February 2016									
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 25					<b>P-1 Line Item Number / Title:</b> MF9000 / Heaters and ECU's										<b>Item Number / Title [DODIC]:</b> MF9303 / IMPROVED ENVIRONMENTAL CONTROL UNITS				

Cost Elements (Units in Each)						Fiscal Year 2015														Fiscal Year 2016														B A L A N C E		
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2014	BAL DUE AS OF 1 OCT	Calendar Year 2015														Calendar Year 2016															
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P						
<b>9,000 BTU/H ECU</b>																																				
	1	2015	ARMY	157	-	157														A	-	-	-	-	-	-	-	-	-	-	-	-	-	13	144	
	1	2016	ARMY	594	-	594																														594
	1	2017	ARMY	607	-	607																														607
<b>18,000 BTU/H ECU (208V 3PH/50/60Hz)</b>																																				
	2	2015	ARMY	76	-	76														A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	69
	2	2016	ARMY	584	-	584																														584
	2	2017	ARMY	430	-	430																														430
<b>18,000 BTU/H ECU (230V 1PH/50/60Hz)</b>																																				
	3	2015	ARMY	76	-	76														A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	69
	3	2016	ARMY	300	-	300																														300
	3	2017	ARMY	277	-	277																														277
<b>36,000 BTU/H ECU</b>																																				
	4	2015	ARMY	76	-	76														A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	69
	4	2016	ARMY	146	-	146																														146
	4	2017	ARMY	150	-	150																														150

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<b>Exhibit P-21, Production Schedule:</b> PB 2017 Army															<b>Date:</b> February 2016														
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 25										<b>P-1 Line Item Number / Title:</b> MF9000 / Heaters and ECU's										<b>Item Number / Title [DODIC]:</b> MF9303 / IMPROVED ENVIRONMENTAL CONTROL UNITS									

Cost Elements <i>(Units in Each)</i>					Fiscal Year 2017												Fiscal Year 2018												BALANCE		
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2016	BAL DUE AS OF 1 OCT	Calendar Year 2017												Calendar Year 2018												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L		A U G	S E P
9,000 BTU/H ECU																															
	1	2015	ARMY	157	13	144	13	13	13	13	13	13	13	13	13	14															-
	1	2016	ARMY	594	-	594	-	-	-	-	-	-	-	-	-	-	50	50	50	50	50	50	50	49	49	49	49	49	49	-	
	1	2017	ARMY	607	-	607	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	50	557	
18,000 BTU/H ECU (208V 3PH/50/60Hz)																															
	2	2015	ARMY	76	7	69	7	7	7	6	6	6	6	6	6	6														-	
	2	2016	ARMY	584	-	584	-	-	-	-	-	-	-	-	-	-	49	49	49	49	49	49	49	49	49	48	48	48	48	-	
	2	2017	ARMY	430	-	430											A -	-	-	-	-	-	-	-	-	-	-	-	36	394	
18,000 BTU/H ECU (230V 1PH/50/60Hz)																															
	3	2015	ARMY	76	7	69	7	7	7	6	6	6	6	6	6	6														-	
	3	2016	ARMY	300	-	300	-	-	-	-	-	-	-	-	-	-	25	25	25	25	25	25	25	25	25	25	25	25	25	-	
	3	2017	ARMY	277	-	277											A -	-	-	-	-	-	-	-	-	-	-	-	23	254	
36,000 BTU/H ECU																															
	4	2015	ARMY	76	7	69	7	7	7	6	6	6	6	6	6	6														-	
	4	2016	ARMY	146	-	146	-	-	-	-	-	-	-	-	-	-	12	12	12	12	12	12	12	12	12	12	12	12	13	13	-
	4	2017	ARMY	150	-	150											A -	-	-	-	-	-	-	-	-	-	-	-	12	138	
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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<b>Exhibit P-21, Production Schedule:</b> PB 2017 Army															<b>Date:</b> February 2016														
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 25										<b>P-1 Line Item Number / Title:</b> MF9000 / Heaters and ECU's										<b>Item Number / Title [DODIC]:</b> MF9303 / IMPROVED ENVIRONMENTAL CONTROL UNITS									

Cost Elements <i>(Units in Each)</i>					Fiscal Year 2019													Fiscal Year 2020													BALANCE				
O C O #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2018	BAL DUE AS OF 1 OCT	Calendar Year 2019													Calendar Year 2020															
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					
9,000 BTU/H ECU																																			
	1	2015	ARMY	157	157	-																													-
	1	2016	ARMY	594	594	-																													-
	1	2017	ARMY	607	50	557	50	50	50	50	51	51	51	51	51	51	51																		-
18,000 BTU/H ECU (208V 3PH/50/60Hz)																																			
	2	2015	ARMY	76	76	-																													-
	2	2016	ARMY	584	584	-																													-
	2	2017	ARMY	430	36	394	36	36	36	36	36	36	36	36	36	36	35	35																	-
18,000 BTU/H ECU (230V 1PH/50/60Hz)																																			
	3	2015	ARMY	76	76	-																													-
	3	2016	ARMY	300	300	-																													-
	3	2017	ARMY	277	23	254	23	23	23	23	23	23	23	23	23	23	24																		-
36,000 BTU/H ECU																																			
	4	2015	ARMY	76	76	-																													-
	4	2016	ARMY	146	146	-																													-
	4	2017	ARMY	150	12	138	12	12	12	12	12	13	13	13	13	13	13																		-
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					

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<b>Exhibit P-21, Production Schedule:</b> PB 2017 Army		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 25		<b>P-1 Line Item Number / Title:</b> MF9000 / Heaters and ECU's
<b>Item Number / Title [DODIC]:</b> MF9303 / IMPROVED ENVIRONMENTAL CONTROL UNITS		

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2017	1-8-5 For 2017	MAX For 2017	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	Mainstream Engr - Rockledge, FL	600	1,000	3,000	6	10	12	22	6	4	12	16
2	Mainstream Engr - Rockledge, FL	600	1,000	3,000	6	10	12	22	6	4	12	16
3	Mainstream Engr - Rockledge, FL	600	1,000	3,000	6	10	12	22	6	4	12	16
4	Mainstream Engr - Rockledge, FL	600	1,000	3,000	6	10	12	22	6	4	12	16

"A" in the Delivery Schedule indicates the Contract Award Date.

**Note:** Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

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**Exhibit P-40, Budget Line Item Justification:** PB 2017 Army **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 25: Combat Service Support Equipment	<b>P-1 Line Item Number / Title:</b> MA6800 / Soldier Enhancement
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	1,190	-	-	-	-	-	-	-	-	-	Continuing	Continuing
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	261.782	1.677	2.287	2.112	-	2.112	2.166	2.214	2.257	2.304	Continuing	Continuing
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	261.782	1.677	2.287	2.112	-	2.112	2.166	2.214	2.257	2.304	Continuing	Continuing
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>261.782</b>	<b>1.677</b>	<b>2.287</b>	<b>2.112</b>	<b>-</b>	<b>2.112</b>	<b>2.166</b>	<b>2.214</b>	<b>2.257</b>	<b>2.304</b>	<b>Continuing</b>	<b>Continuing</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost ( <i>\$ in Thousands</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Thousands</i> )	219.985	-	-	-	-	-	-	-	-	-	Continuing	Continuing

**Description:**

The Soldier Enhancement Program (SEP) was established by the National Defense Authorization Act for Fiscal Year 1990 and 1991. The SEP evaluates available Commercial Off the Shelf (COTS), Government Off the Shelf (GOTS) and Non-Developmental Items (NDI) equipment to determine if items have the potential to provide increased combat effectiveness to the Soldier. The SEP procures selected types of equipment designed to increase Soldiers' mission command, situational awareness and operational effectiveness. SEP OPA3 funding provides the means of procuring individual equipment designed to increase Soldiers' operational effectiveness.

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	1.677	2.287	2.112	-	2.112	2.166	2.214	2.257	2.304
<b>Total:</b>									
<b>Secondary Distribution</b>									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	<b>1.677</b>	<b>2.287</b>	<b>2.112</b>	<b>-</b>	<b>2.112</b>	<b>2.166</b>	<b>2.214</b>	<b>2.257</b>	<b>2.304</b>

**Justification:**

FY 2017 Base procurement dollars in the amount of \$2.112 million procures approved COTS, GOTS, and NDIs SEP initiative hardware (optics and accessories, night vision devices, and individual Soldier equipment) for Soldier evaluation for the purpose of Soldier evaluation.

"In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for the use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities."

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**Exhibit P-40, Budget Line Item Justification:** PB 2017 Army **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 25: Combat Service Support Equipment	<b>P-1 Line Item Number / Title:</b> G01101 / Personnel Recovery Support System (PRSS)
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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<b>Line Item MDAP/MAIS Code:</b> N/A	<b>Item MDAP/MAIS Code(s):</b> N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	33,290	3,750	2,250	8,032	-	8,032	8,355	8,658	8,697	8,517	Continuing	Continuing
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	69.283	10.728	7.733	10.856	-	10.856	11.552	11.776	11.756	11.756	Continuing	Continuing
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	69.283	10.728	7.733	10.856	-	10.856	11.552	11.776	11.756	11.756	Continuing	Continuing
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>69.283</b>	<b>10.728</b>	<b>7.733</b>	<b>10.856</b>	<b>-</b>	<b>10.856</b>	<b>11.552</b>	<b>11.776</b>	<b>11.756</b>	<b>11.756</b>	<b>Continuing</b>	<b>Continuing</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost ( <i>\$ in Thousands</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Thousands</i> )	2.081	2.861	3.437	1.352	-	1.352	1.383	1.360	1.352	1.380	Continuing	Continuing

**Description:**

The Personnel Recovery Support System (PRSS) consists of items including Secure Personal Locator Beacons and Personnel Recovery equipment items to report and locate isolated, missing, detained and captured Soldiers.

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	
Army	Quantity	3,750	2,250	8,032	-	8,032	8,355	8,658	8,697	8,517
	Total Obligation Authority	10.728	7.733	10.856	-	10.856	11.552	11.776	11.756	11.756
<b>Total:</b> Secondary Distribution	<b>Quantity</b>	<b>3,750</b>	<b>2,250</b>	<b>8,032</b>	<b>-</b>	<b>8,032</b>	<b>8,355</b>	<b>8,658</b>	<b>8,697</b>	<b>8,517</b>
	<b>Total Obligation Authority</b>	<b>10.728</b>	<b>7.733</b>	<b>10.856</b>	<b>-</b>	<b>10.856</b>	<b>11.552</b>	<b>11.776</b>	<b>11.756</b>	<b>11.756</b>

**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** PB 2017 Army **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 25: Combat Service Support Equipment	<b>P-1 Line Item Number / Title:</b> G01101 / Personnel Recovery Support System (PRSS)
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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<b>Line Item MDAP/MAIS Code:</b> N/A	<b>Item MDAP/MAIS Code(s):</b> N/A
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Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	G01101 / Personnel Recovery Support System (PRSS)	P-5a, P-21		33,290 / 69.283	3,750 / 10.728	2,250 / 7.733	8,032 / 10.856	- / -	8,032 / 10.856
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>			<b>33,290 / 69.283</b>	<b>3,750 / 10.728</b>	<b>2,250 / 7.733</b>	<b>8,032 / 10.856</b>	<b>- / -</b>	<b>8,032 / 10.856</b>

\*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

**Justification:**  
 FY 17 Base procurement dollars in the amount of \$10.856 million support procurement of Personnel Recovery Support System (PRSS) products that support the Army's capability to report and locate isolated, missing, detained, and captured Soldiers. Funding procures equipment and materiel to support a balanced investment strategy for the Army's approved force structure.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

The FY 2017 funding request was reduced by \$.669 million to account for the availability of prior year execution balances.



**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 25	<b>P-1 Line Item Number / Title:</b> G01101 / Personnel Recovery Support System (PRSS)	<b>Item Number / Title [DODIC]:</b> G01101 / Personnel Recovery Support System (PRSS)

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>
Procurement Quantity (Units in Each)	33,290	3,750	2,250	8,032	-	8,032
Gross/Weapon System Cost (\$ in Millions)	69.283	10.728	7.733	10.856	-	10.856
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	69.283	10.728	7.733	10.856	-	10.856
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	<b>69.283</b>	<b>10.728</b>	<b>7.733</b>	<b>10.856</b>	<b>-</b>	<b>10.856</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	2.081	2.861	3.437	1.352	-	1.352

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

<b>Cost Elements</b>	<b>Prior Years</b>			<b>FY 2015</b>			<b>FY 2016</b>			<b>FY 2017 Base</b>			<b>FY 2017 OCO</b>			<b>FY 2017 Total</b>		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
Personnel Recovery Equipment Items <sup>(†)</sup>	1.146	33,290	38.149	0.804	3,750	3.015	0.825	2,000	1.650	0.842	2,000	1.684	-	-	-	0.842	2,000	1.684
Secure Personal Locator Beacons <sup>(†)</sup>	-	-	-	-	-	-	1.108	250	0.277	0.680	6,032	4.102	-	-	-	0.680	6,032	4.102
MISC - Secure Personal Locator Beacons	0.680	13,878	9.437	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Initial Spares & Repair Parts	-	-	2.177	-	-	-	-	-	0.632	-	-	0.168	-	-	-	-	-	0.168
Support Equipment	-	-	3.465	-	-	-	-	-	0.340	-	-	0.100	-	-	-	-	-	0.100
Systems Test and Evaluation	-	-	0.216	-	-	0.195	-	-	-	-	-	0.136	-	-	-	-	-	0.136
Nonrecurring Engineering	-	-	1.282	-	-	3.824	-	-	0.605	-	-	0.383	-	-	-	-	-	0.383
Systems Integration and Engineering	-	-	2.199	-	-	1.185	-	-	0.672	-	-	0.866	-	-	-	-	-	0.866
Project Management Admin	-	-	1.276	-	-	0.677	-	-	0.740	-	-	0.764	-	-	-	-	-	0.764
Fielding	-	-	0.610	-	-	0.420	-	-	0.341	-	-	0.594	-	-	-	-	-	0.594
Contract Logistics/ Subject Expert Spt	-	-	10.472	-	-	1.412	-	-	2.476	-	-	2.059	-	-	-	-	-	2.059
<i>Subtotal: Recurring Cost</i>	-	-	<i>69.284</i>	-	-	<i>10.728</i>	-	-	<i>7.733</i>	-	-	<i>10.856</i>	-	-	-	-	-	<i>10.856</i>

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 25	<b>P-1 Line Item Number / Title:</b> G01101 / Personnel Recovery Support System (PRSS)	<b>Item Number / Title [DODIC]:</b> G01101 / Personnel Recovery Support System (PRSS)
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :		<b>MDAP/MAIS Code:</b>

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
<i>Subtotal: Flyaway Cost</i>	-	-	69.284	-	-	10.728	-	-	7.733	-	-	10.856	-	-	-	-	-	10.856
<b>Gross/Weapon System Cost</b>	2.081	33,290	69.283	2.861	3,750	10.728	3.437	2,250	7.733	1.352	8,032	10.856	-	-	-	1.352	8,032	10.856

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	3,750	2,250	8,032	-	8,032
	Total Obligation Authority	10.728	7.733	10.856	-	10.856
<b>Total:</b>	<b>Quantity</b>	<b>3,750</b>	<b>2,250</b>	<b>8,032</b>	<b>-</b>	<b>8,032</b>
<b>Secondary Distribution</b>	<b>Total Obligation Authority</b>	<b>10.728</b>	<b>7.733</b>	<b>10.856</b>	<b>-</b>	<b>10.856</b>

(t) indicates the presence of a P-5a

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<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2017 Army							<b>Date:</b> February 2016				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 25			<b>P-1 Line Item Number / Title:</b> G01101 / Personnel Recovery Support System (PRSS)				<b>Item Number / Title [DODIC]:</b> G01101 / Personnel Recovery Support System (PRSS)				

Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$ K)	Specs Avail Now?	Date Revision Available	RFP Issue Date
Personnel Recovery Equipment Items		2014	Various Contractors / Various Locations	C / FP	Aberdeen, MD	Jan 2014	Oct 2014	3,125	0.804	Y		
Personnel Recovery Equipment Items <sup>(†)</sup>		2015	Various Contractors / Various Locations	C / FP	Aberdeen, MD	Jan 2015	Mar 2015	3,750	0.804	Y		
Personnel Recovery Equipment Items <sup>(†)</sup>		2016	Various Contractors / Various Locations	C / FP	Aberdeen, MD	Mar 2016	May 2016	2,000	0.825	Y		
Personnel Recovery Equipment Items <sup>(†)</sup>		2017	Various Contractors / Various Locations	C / FP	Aberdeen, MD	Nov 2016	Jan 2017	2,000	0.842	Y		
Secure Personal Locator Beacons <sup>(†)</sup>		2016	TBD / TBD	C / FFP	Aberdeen, MD	Sep 2016	Dec 2016	250	1.108	Y		
Secure Personal Locator Beacons <sup>(†)</sup>		2017	TBD / TBD	C / FFP	Aberdeen, MD	Mar 2017	Jun 2017	6,032	0.680	Y		

<sup>(†)</sup> indicates the presence of a P-21

**Remarks:**

The FY16 increase to the P5 Cost Element entitled "Contract Logistics/Subject Expert Spt" is due to the addition of the communications infrastructure recurring support costs for the Secure Personal Locator Beacons.

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<b>Exhibit P-21, Production Schedule:</b> PB 2017 Army		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 25		<b>P-1 Line Item Number / Title:</b> G01101 / Personnel Recovery Support System (PRSS)
		<b>Item Number / Title [DODIC]:</b> G01101 / Personnel Recovery Support System (PRSS)

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2014												Fiscal Year 2015												B A L A N C E																																				
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2013	BAL DUE AS OF 1 OCT	Calendar Year 2014												Calendar Year 2015																																															
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P																																			
Personnel Recovery Equipment Items																																																																		
Prior Years Deliveries: 30165																																																																		
	1	2015	ARMY	3,750	-	3,750																							A -	-	600	600	600	600	600	600	150	-																												
	1	2016	ARMY	2,000	-	2,000																																	2,000																											
	1	2017	ARMY	2,000	-	2,000																																	2,000																											
Secure Personal Locator Beacons																																																																		
	2	2016	ARMY	250	-	250																																	250																											
	2	2017	ARMY	6,032	-	6,032																																	6,032																											
<table border="1" style="width:100%; border-collapse: collapse; font-size: 8px;"> <tr> <td>O C T</td> <td>N O V</td> <td>D E C</td> <td>J A N</td> <td>F E B</td> <td>M A R</td> <td>A P R</td> <td>M A Y</td> <td>J U N</td> <td>J U L</td> <td>A U G</td> <td>S E P</td> <td>O C T</td> <td>N O V</td> <td>D E C</td> <td>J A N</td> <td>F E B</td> <td>M A R</td> <td>A P R</td> <td>M A Y</td> <td>J U N</td> <td>J U L</td> <td>A U G</td> <td>S E P</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>																													O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P														
O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P																																											

**UNCLASSIFIED**

<b>Exhibit P-21, Production Schedule:</b> PB 2017 Army															<b>Date:</b> February 2016														
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 25										<b>P-1 Line Item Number / Title:</b> G01101 / Personnel Recovery Support System (PRSS)										<b>Item Number / Title [DODIC]:</b> G01101 / Personnel Recovery Support System (PRSS)									

Cost Elements <i>(Units in Each)</i>					Fiscal Year 2016												Fiscal Year 2017												BALANCE		
O C O #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2015	BAL DUE AS OF 1 OCT	Calendar Year 2016												Calendar Year 2017												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L		A U G	S E P
Personnel Recovery Equipment Items																															
Prior Years Deliveries: 30165																															
	1	2015	ARMY	3,750	3,750	-																								-	
	1	2016	ARMY	2,000	-	2,000																								-	
	1	2017	ARMY	2,000	-	2,000																								-	
Secure Personal Locator Beacons																															
	2	2016	ARMY	250	-	250																								-	
	2	2017	ARMY	6,032	-	6,032																								-	
																															4,024

**UNCLASSIFIED**

<b>Exhibit P-21, Production Schedule:</b> PB 2017 Army																								<b>Date:</b> February 2016											
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 25											<b>P-1 Line Item Number / Title:</b> G01101 / Personnel Recovery Support System (PRSS)											<b>Item Number / Title [DODIC]:</b> G01101 / Personnel Recovery Support System (PRSS)													
<b>Cost Elements</b> <i>(Units in Each)</i>					<b>Fiscal Year 2018</b>														<b>Fiscal Year 2019</b>														<b>B A L A N C E</b>		
<b>O C C O</b>	<b>M F R #</b>	<b>FY</b>	<b>SERVICE</b>	<b>PROC QTY</b>	<b>ACCEPT PRIOR TO 1 OCT 2017</b>	<b>BAL DUE AS OF 1 OCT</b>	<b>Calendar Year 2018</b>														<b>Calendar Year 2019</b>														
							<b>O C T</b>	<b>N O V</b>	<b>D E C</b>	<b>J A N</b>	<b>F E B</b>	<b>M A R</b>	<b>A P R</b>	<b>M A Y</b>	<b>J U N</b>	<b>J U L</b>	<b>A U G</b>	<b>S E P</b>	<b>O C T</b>	<b>N O V</b>	<b>D E C</b>	<b>J A N</b>	<b>F E B</b>	<b>M A R</b>	<b>A P R</b>	<b>M A Y</b>	<b>J U N</b>	<b>J U L</b>	<b>A U G</b>	<b>S E P</b>					
<b>Personnel Recovery Equipment Items</b>																																			
Prior Years Deliveries: 30165																																			
	1	2015	ARMY	3,750	3,750	-																									-				
	1	2016	ARMY	2,000	2,000	-																									-				
	1	2017	ARMY	2,000	2,000	-																									-				
<b>Secure Personal Locator Beacons</b>																																			
	2	2016	ARMY	250	250	-																									-				
	2	2017	ARMY	6,032	2,008	4,024	502	502	502	502	502	502	502	510																	-				
							<b>O C T</b>	<b>N O V</b>	<b>D E C</b>	<b>J A N</b>	<b>F E B</b>	<b>M A R</b>	<b>A P R</b>	<b>M A Y</b>	<b>J U N</b>	<b>J U L</b>	<b>A U G</b>	<b>S E P</b>	<b>O C T</b>	<b>N O V</b>	<b>D E C</b>	<b>J A N</b>	<b>F E B</b>	<b>M A R</b>	<b>A P R</b>	<b>M A Y</b>	<b>J U N</b>	<b>J U L</b>	<b>A U G</b>	<b>S E P</b>					

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<b>Exhibit P-21, Production Schedule:</b> PB 2017 Army		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 25	<b>P-1 Line Item Number / Title:</b> G01101 / Personnel Recovery Support System (PRSS)	<b>Item Number / Title [DODIC]:</b> G01101 / Personnel Recovery Support System (PRSS)

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2017	1-8-5 For 2017	MAX For 2017	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	Various Contractors - Various Locations	167	3,000	4,000	-	6	2	8	-	5	2	7
2	TBD - TBD	100	2,000	3,000	-	11	3	14	-	-	-	-

"A" in the Delivery Schedule indicates the Contract Award Date.

**Note:** Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

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**Exhibit P-40, Budget Line Item Justification:** PB 2017 Army **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 25: Combat Service Support Equipment	<b>P-1 Line Item Number / Title:</b> R80501 / Ground Soldier System
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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<b>Line Item MDAP/MAIS Code:</b> N/A	<b>Item MDAP/MAIS Code(s):</b> N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	13,935	4,324	3,016	1,493	-	1,493	1,666	1,793	1,238	1,027	Continuing	Continuing
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	307.804	71.761	49.798	32.419	-	32.419	36.154	36.562	37.502	37.594	Continuing	Continuing
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	307.804	71.761	49.798	32.419	-	32.419	36.154	36.562	37.502	37.594	Continuing	Continuing
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>307.804</b>	<b>71.761</b>	<b>49.798</b>	<b>32.419</b>	<b>-</b>	<b>32.419</b>	<b>36.154</b>	<b>36.562</b>	<b>37.502</b>	<b>37.594</b>	<b>Continuing</b>	<b>Continuing</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost ( <i>\$ in Thousands</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Thousands</i> )	22.089	16.596	16.511	21.714	-	21.714	21.701	20.392	30.292	36.606	Continuing	Continuing

**Description:**

The Nett Warrior (NW) (named in honor of Medal of Honor recipient Colonel Robert C. Nett and also known as Ground Soldier System) leverages commercial smart phone devices and secure Army tactical radios to provide the dismounted leader an integrated mission command and situational awareness system for use during combat operations. The NW system provides operators real-time information on friendly positions, information about enemy activity and movement, navigational data and map imagery, and other mission related graphics. This information effectively puts the power of the entire Army tactical network in the hands of the dismounted leader. The NW system also provides the same integrated mission command capability tied to Joint Battle Command Platform (JBC-P) to tactical vehicle mounted leaders so that upon dismount, they still have access to the common operating picture (COP) and full situational awareness. This capability provides the dismounted leader faster, more accurate decisions and reduced fratricide in the tactical fight. NW also procures supporting power systems aimed at significantly reducing power requirements in the expeditionary environment. The NW also provides the dismounted common computational platform for the Mobile Handheld Computing Environment. Includes integration and interface of products on Soldiers.

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	Quantity	4,324	3,016	1,493	-	1,493	1,254	1,327	901	739
	Total Obligation Authority	71.761	49.798	32.419	-	32.419	27.104	26.982	27.202	26.944
ANG	Quantity	-	-	-	-	-	412	466	337	288
	Total Obligation Authority	-	-	-	-	-	9.050	9.580	10.300	10.650
<b>Total:</b>	<b>Quantity</b>	<b>4,324</b>	<b>3,016</b>	<b>1,493</b>	<b>-</b>	<b>1,493</b>	<b>1,666</b>	<b>1,793</b>	<b>1,238</b>	<b>1,027</b>
<b>Secondary Distribution</b>	<b>Total Obligation Authority</b>	<b>71.761</b>	<b>49.798</b>	<b>32.419</b>	<b>-</b>	<b>32.419</b>	<b>36.154</b>	<b>36.562</b>	<b>37.502</b>	<b>37.594</b>



**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** PB 2017 Army **Date:** February 2016

**Appropriation / Budget Activity / Budget Sub Activity:**  
2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 25: Combat Service Support Equipment

**P-1 Line Item Number / Title:**  
R80501 / Ground Soldier System

**ID Code** (A=Service Ready, B=Not Service Ready): **Program Elements for Code B Items:** N/A **Other Related Program Elements:** N/A

**Line Item MDAP/MAIS Code:** N/A **Item MDAP/MAIS Code(s):** N/A

Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	R80501 / Ground Soldier System	P-5a		13,935 / 307.804	4,324 / 71.761	3,016 / 49.798	1,493 / 32.419	- / -	1,493 / 32.419
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>			<b>13,935 / 307.804</b>	<b>4,324 / 71.761</b>	<b>3,016 / 49.798</b>	<b>1,493 / 32.419</b>	<b>- / -</b>	<b>1,493 / 32.419</b>

\*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

**Justification:**

FY17 Base procurement dollars in the amount of \$32.419 million procures NW Soldier worn hardware, NW support equipment, NW system fielding, sustainment of New Equipment Training (NET) and support services for fielding to Army Brigade Combat Teams in Capability Set fielding and Army Special Forces. NW equipped units directly enhance the Army's combat overmatch capability in two Army mission essential tasks: 1) Enhances small unit combat fighting capabilities by providing unparalleled situational awareness and mission command to dismounted combat leaders through an integrated smart device and supporting equipment such as battery chargers and power managers and 2) enables commanders to combine the elements of combat power (mission command, movement and maneuver, leadership, intelligence, fires, information, sustainment, and protection) to engage the enemy and swiftly end tactical engagements and reduce possible fratricide. NW brings the dismounted tactical combat leaders into the Army Network and the acquisition program is aligned with Army Capability Sets providing a balanced investment strategy. Due to the commercial nature of the Nett Warrior system hardware (e.g. smart phones, smart phone cases, screen protectors, memory cards and other associated accessories), to address diminishing manufacturing (obsolescence parts) by consolidating the purchase of NW commercial-based items requirements across multiple years in order to execute a buyout of up to two years beyond FY17 as needed.

"In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities."

Comments: P21 form is not provided, as program procures commercial off the shelf (COTS) products.

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**Exhibit P-5, Cost Analysis: PB 2017 Army** **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 25	<b>P-1 Line Item Number / Title:</b> R80501 / Ground Soldier System	<b>Item Number / Title [DODIC]:</b> R80501 / Ground Soldier System
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**ID Code** (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	13,935	4,324	3,016	1,493	-	1,493
Gross/Weapon System Cost (\$ in Millions)	307.804	71.761	49.798	32.419	-	32.419
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	307.804	71.761	49.798	32.419	-	32.419
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	<b>307.804</b>	<b>71.761</b>	<b>49.798</b>	<b>32.419</b>	<b>-</b>	<b>32.419</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	22.089	16.596	16.511	21.714	-	21.714

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
NW Soldier Worn Hardware (COMPO 1) <sup>(f)</sup>	12.452	13,935	173.518	2.777	4,878	13.547	2.686	3,016	8.100	2.074	1,493	3.097	-	-	-	2.074	1,493	3.097
NW Support Equipment (COMPO 1)	-	-	67.782	-	-	33.000	-	-	16.200	-	-	9.538	-	-	-	-	-	9.538
NW Sys Fielding, Sustain & Sup (COMPO 1)	-	-	46.896	-	-	24.579	-	-	25.497	-	-	19.784	-	-	-	-	-	19.784
Dismounted C2/SA Dir Req (COMPO 1)	-	-	19.604	-	-	0.635	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	<i>307.801</i>	-	-	<i>71.760</i>	-	-	<i>49.798</i>	-	-	<i>32.418</i>	-	-	-	-	-	<i>32.418</i>
<i>Subtotal: Hardware Cost</i>	-	-	<i>307.801</i>	-	-	<i>71.760</i>	-	-	<i>49.798</i>	-	-	<i>32.418</i>	-	-	-	-	-	<i>32.418</i>
<b>Gross/Weapon System Cost</b>	<b>22.089</b>	<b>13,935</b>	<b>307.804</b>	<b>16.596</b>	<b>4,324</b>	<b>71.761</b>	<b>16.511</b>	<b>3,016</b>	<b>49.798</b>	<b>21.714</b>	<b>1,493</b>	<b>32.419</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>21.714</b>	<b>1,493</b>	<b>32.419</b>

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	4,324	3,016	1,493	-	1,493
	Total Obligation Authority	71.761	49.798	32.419	-	32.419
<b>Total:</b>	<b>Quantity</b>	<b>4,324</b>	<b>3,016</b>	<b>1,493</b>	<b>-</b>	<b>1,493</b>

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<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>			<b>Date:</b> February 2016			
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 25		<b>P-1 Line Item Number / Title:</b> R80501 / Ground Soldier System		<b>Item Number / Title [DODIC]:</b> R80501 / Ground Soldier System		
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :			<b>MDAP/MAIS Code:</b>			
<b>Secondary Distribution</b>		<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>
<b>Secondary Distribution</b>	<b>Total Obligation Authority</b>	71.761	49.798	32.419	-	32.419

(t) indicates the presence of a P-5a

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**Exhibit P-5a, Procurement History and Planning: PB 2017 Army** **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 25	<b>P-1 Line Item Number / Title:</b> R80501 / Ground Soldier System	<b>Item Number / Title [DODIC]:</b> R80501 / Ground Soldier System
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Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
NW Soldier Worn Hardware (COMPO 1)		2015	Various / Various	C / FFP	APG, MD	May 2015	Jun 2015	4,878	2.777			
NW Soldier Worn Hardware (COMPO 1)		2016	Various / Various	C / FFP	APG, MD	Mar 2016	Apr 2016	3,016	2.686			
NW Soldier Worn Hardware (COMPO 1)		2017	Various / Various	C / FFP	APG, MD	Feb 2017	May 2017	1,493	2.074			

**Remarks:**

Prior year quantity of 13,935 has been delivered.

P21 is not required. The NW program focuses on the integration and evaluation of commercial off the shelf (COTS) smart devices for the MC/SA system.

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**Exhibit P-40, Budget Line Item Justification:** PB 2017 Army **Date:** February 2016

**Appropriation / Budget Activity / Budget Sub Activity:**  
2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 25: Combat Service Support Equipment

**P-1 Line Item Number / Title:**  
R80800 / Mobile Soldier Power

**ID Code** (A=Service Ready, B=Not Service Ready): **Program Elements for Code B Items:** N/A **Other Related Program Elements:** N/A

**Line Item MDAP/MAIS Code:** N/A **Item MDAP/MAIS Code(s):** N/A

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	20,367	13,255	-	13,255	25,155	20,841	24,101	23,716	Continuing	Continuing
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	-	38.639	30.014	-	30.014	42.184	40.549	47.310	48.195	Continuing	Continuing
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	-	38.639	30.014	-	30.014	42.184	40.549	47.310	48.195	Continuing	Continuing
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	-	<b>38.639</b>	<b>30.014</b>	-	<b>30.014</b>	<b>42.184</b>	<b>40.549</b>	<b>47.310</b>	<b>48.195</b>	<b>Continuing</b>	<b>Continuing</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost ( <i>\$ in Thousands</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Thousands</i> )	-	-	1.897	2.264	-	2.264	1.677	1.946	1.963	2.032	Continuing	Continuing

**Description:**

Soldier and Small Unit Power (SUP) Systems enable dismounted Soldiers and squads to execute their missions with significantly less battery weight and enable longer missions without a daily unit re-supply of batteries. These improved renewable systems enable the warfighter to sustain themselves for extended mission duration in the most austere operating environments. An advanced, Integrated Soldier Power/Data System (ISPDS) provides the Soldier with a body-worn power/data capability that is significantly more efficient and lighter than carrying separate batteries for each device. Soldier and Small Unit Power systems address the power and energy capability gap created by the increase in mission essential, Soldier-portable power consumers, such as Situational Awareness (SA) displays, Global Positioning System (GPS) navigation, weapon sensors, precision targeting systems and portable Soldier radios. This effort began as a Congressional add for development and system improvement for early fuel cell and battery technology and has developed into a line of power sources and solutions suited for not only the individual Soldier, but for the small unit as well. These power solutions include, but are not limited to, Soldier-worn power systems, integrated power vests, power management devices and small unit generators including the platoon power generator (PPG), chargers, scavengers or harvesters; all intended for use in the most austere operating environments. Soldier-portable power systems reduce the weight and logistical burden associated with moving fuel and primary (disposable) batteries across the conventional battlefield. By using renewable energy and power scavenging technology, Soldiers and small units are able to operate independently for longer durations without being tethered to a large generator, vehicle, or supply train. This effort supports the following requirements: August 2013 Small Unit Power MDD, September 2013 Small Unit Power Capability Development Document (CDD), March 2011 Soldier Protection CDD, the December 2011 Operational Energy Initial Capabilities Document (ICD), the Army Chief of Staff's Squad: Foundation of the Decisive Force initiative, and the December 2011 Operation Enduring Freedom (OEF) Operational Energy directives.

Platoon Power Generator: (FY18-FY20)

This funding supports the procurement of a Platoon Power Generator (PPG). The SUP PPG (1kW Generator) will provide small units with sufficient portable power to sustain Modified Table of Organizational Equipment (MTOE) unit power demand in support of 48 to 72 hour missions using a common logistical fuel (JP-8). It will be used for charging batteries and powering various types of Army communications and electronics devices. It will provide sufficient power to recharge and power all Platoon equipment and fulfill residual power gaps at the Squad and Soldier level. The generator will provide Platoon power for charging batteries when away from vehicles in Stryker Brigade Combat Teams (SBCT), Armor Brigade Combat Team (ABCT) and as a power source for Infantry Brigade Combat Teams (IBCT) in austere environments. FY18 funds allow for the award and management of a procurement contract. This funding will allow for procurement of the AAO of this PPG system.

By reducing Soldier's load and energy resupply, SUP contributes to the reduction of logistical burden associated with transporting/supplying fuel in the battlefield and gives small units autonomy to operate on extended duration missions. SUP will employ commercial-off-the-shelf (COTS) solution(s), government-off-the-shelf (GOTS), and non-developmental items (NDI).

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**Exhibit P-40, Budget Line Item Justification:** PB 2017 Army **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 25: Combat Service Support Equipment	<b>P-1 Line Item Number / Title:</b> R80800 / Mobile Soldier Power
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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<b>Line Item MDAP/MAIS Code:</b> N/A	<b>Item MDAP/MAIS Code(s):</b> N/A
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Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	Quantity	-	20,367	13,255	-	13,255	25,155	20,841	24,101	23,716
	Total Obligation Authority	-	38.639	30.014	-	30.014	42.184	40.549	47.310	48.195
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	-	<b>20,367</b>	<b>13,255</b>	-	<b>13,255</b>	<b>25,155</b>	<b>20,841</b>	<b>24,101</b>	<b>23,716</b>
	<b>Total Obligation Authority</b>	-	<b>38.639</b>	<b>30.014</b>	-	<b>30.014</b>	<b>42.184</b>	<b>40.549</b>	<b>47.310</b>	<b>48.195</b>

**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** PB 2017 Army **Date:** February 2016

**Appropriation / Budget Activity / Budget Sub Activity:**  
2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 25:  
Combat Service Support Equipment **P-1 Line Item Number / Title:**  
R80800 / Mobile Soldier Power

**ID Code** (A=Service Ready, B=Not Service Ready): **Program Elements for Code B Items:** N/A **Other Related Program Elements:** N/A

**Line Item MDAP/MAIS Code:** N/A **Item MDAP/MAIS Code(s):** N/A

Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	R80010 / Small Unit Power Increment 1	P-5a		- / -	- / -	20,367 / 38.639	13,255 / 30.014	- / -	13,255 / 30.014
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>			- / -	- / -	<b>20,367 / 38.639</b>	<b>13,255 / 30.014</b>	- / -	<b>13,255 / 30.014</b>

\*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

**Justification:**

FY 2017 base procurement dollars in the amount of \$30.014 million procures commercial-off-the-shelf (COTS) solution(s), government-off-the-shelf (GOTS), and non-developmental items (NDI) for Small Unit Power systems.

The increased digital capability of electronic devices generates an increased demand for power. Historically, innovations in Soldier power struggle to keep pace with the growing power requirements that accompany these increased capabilities. Additionally, batteries add weight that consumes more space in the combat load. Power management is a significant mission planning consideration for the dismounted squad leader who manages combat loads. Dismounted squads operating in the most austere environments have traditionally carried enough batteries to sustain individual Soldier devices for up to 72 hours before resupply. Small Unit Power seeks to reduce the number of batteries that the Soldier must carry to reduce the combat load. The Soldier and the squad are the centerpiece of the modernization strategy, as the U.S. Army develops strategies to effectively equip and train the Soldier of Force 2025; it must reconcile how to power the growing number of Soldier-worn devices while also reducing the Soldier's battery load and decreasing the logistical demand for battery resupply. Therefore, Small Unit Power reduces the number of logistical convoys pushing supplies to the forward edge of the battlefield and significantly reducing the cost and risk involved with battery and fuel resupply missions.

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<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 25	<b>P-1 Line Item Number / Title:</b> R80800 / Mobile Soldier Power	<b>Item Number / Title [DODIC]:</b> R80010 / Small Unit Power Increment 1

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	20,367	13,255	-	13,255
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	-	38.639	30.014	-	30.014
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	-	38.639	30.014	-	30.014
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	-	<b>38.639</b>	<b>30.014</b>	-	<b>30.014</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Thousands</i> )	-	-	1.897	2.264	-	2.264

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
Soldier Power Hardware <sup>(†)</sup>	-	-	-	-	-	-	1.696	20,367	34.548	1.832	13,255	24.288	-	-	-	1.832	13,255	24.288
Sys Eng/Prog Mngmt	-	-	-	-	-	-	-	-	2.877	-	-	4.672	-	-	-	-	-	4.672
System Fielding, Sustainment & Support	-	-	-	-	-	-	-	-	1.214	-	-	1.054	-	-	-	-	-	1.054
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	38.633	-	-	30.009	-	-	-	-	-	30.009
<i>Subtotal: Hardware Cost</i>	-	-	-	-	-	-	-	-	38.633	-	-	30.009	-	-	-	-	-	30.009
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	-	1.897	20,367	38.639	2.264	13,255	30.014	-	-	-	2.264	13,255	30.014

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	-	-	13,255	-	13,255
	-	-	38,639	-	38,639
<b>Total:</b>	-	-	13,255	-	13,255
<b>Secondary Distribution</b>	-	-	38,639	-	38,639

(†) indicates the presence of a P-5a



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**Exhibit P-5a, Procurement History and Planning:** PB 2017 Army **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 25	<b>P-1 Line Item Number / Title:</b> R80800 / Mobile Soldier Power	<b>Item Number / Title [DODIC]:</b> R80010 / Small Unit Power Increment 1
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Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
Soldier Power Hardware		2016	TBD / TBD	Various	Various	Jan 2017	Jul 2017	20,367	1.696			
Soldier Power Hardware		2017	TBD / TBD	Various	Various	Jan 2018	Jul 2018	13,255	1.832			

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**Exhibit P-40, Budget Line Item Justification:** PB 2017 Army **Date:** February 2016

**Appropriation / Budget Activity / Budget Sub Activity:**  
2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 25:  
Combat Service Support Equipment

**P-1 Line Item Number / Title:**  
M80200 / Force Provider

**ID Code** (A=Service Ready, B=Not Service Ready): **Program Elements for Code B Items:** N/A **Other Related Program Elements:** N/A

**Line Item MDAP/MAIS Code:** N/A **Item MDAP/MAIS Code(s):** N/A

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	14	16	-	-	12	12	-	-	-	-	Continuing	Continuing
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	1,162.340	70.000	53.800	-	53.800	53.800	-	-	-	-	Continuing	Continuing
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	1,162.340	70.000	53.800	-	53.800	53.800	-	-	-	-	Continuing	Continuing
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>1,162.340</b>	<b>70.000</b>	<b>53.800</b>	<b>-</b>	<b>53.800</b>	<b>53.800</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>Continuing</b>	<b>Continuing</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost ( <i>\$ in Thousands</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Thousands</i> )	83,024.286	4,375.000	-	-	4,483.333	4,483.333	-	-	-	-	Continuing	Continuing

**Description:**

Force Provider is a fully integrated system providing critical basic life support for Soldiers deployed in remote areas. A Force Provider module provides billeting, field feeding and hygiene capabilities that include all the integrated utilities to include climate control, power generation, water and waste water systems, and fuel storage. A typical Force Provider module is capable of sustaining 150 personnel. Force Provider is fully containerized for rapid deployment and is transportable by rail, sea, land, and air using C-130, C-17 or C-5A aircraft. With the addition of Cold Weather Kits (CWKs), the module is deployable in temperatures as low as -15 degrees Fahrenheit. Missions for Force Provider are: Base camps for enforcement missions, peace keeping, theater reception/redeployment, intermediate staging base operations, humanitarian aid and disaster relief (both in theater and in austere environments). Force Provider modules are placed in Prepositioned Stocks to meet critical Operational Plan requirements of the Army Service Component Commands (ASCC). Each Force Provider module is configured in 150-Soldier or 50/75-Soldier expeditionary subsets that are capable of operating independently as mission requirements dictate. These systems are configured with optional Resource and Energy Efficiency Kits, Power Generation Kits, Cold Weather Kits and Prime Power Kits which increase their deployment versatility. The Army Acquisition Objective for Force Provider is 226 each 150-Soldier modules and 20 each 50/75 Soldier modules.

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army									
	Quantity	16	-	-	12	12	-	-	-
	Total Obligation Authority	70.000	53.800	-	53.800	53.800	-	-	-
<b>Total:</b>	<b>Quantity</b>	<b>16</b>	<b>-</b>	<b>-</b>	<b>12</b>	<b>12</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>Secondary Distribution</b>	<b>Total Obligation Authority</b>	<b>70.000</b>	<b>53.800</b>	<b>-</b>	<b>53.800</b>	<b>53.800</b>	<b>-</b>	<b>-</b>	<b>-</b>

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**Exhibit P-40, Budget Line Item Justification:** PB 2017 Army **Date:** February 2016

**Appropriation / Budget Activity / Budget Sub Activity:**  
2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 25:  
Combat Service Support Equipment

**P-1 Line Item Number / Title:**  
M80200 / Force Provider

**ID Code** (A=Service Ready, B=Not Service Ready): **Program Elements for Code B Items:** N/A **Other Related Program Elements:** N/A

**Line Item MDAP/MAIS Code:** N/A **Item MDAP/MAIS Code(s):** N/A

Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	M80200 / Force Provider	P-5a, P-21		14 / 1,162.340	16 / 70.000	- / 53.800	- / -	12 / 53.800	12 / 53.800
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>			<b>14 / 1,162.340</b>	<b>16 / 70.000</b>	<b>- / 53.800</b>	<b>- / -</b>	<b>12 / 53.800</b>	<b>12 / 53.800</b>

\*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

**Justification:**

There are no FY 17 Base funds for this program.

FY 17 OCO procurement dollars in the amount of \$53,800 million supports production of 12 Force Provider 150-Soldier equivalent systems, Power Generation Kits, and Expeditionary TRICON Kits to replace battle losses.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181) this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>											<b>Date:</b> February 2016						
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 25						<b>P-1 Line Item Number / Title:</b> M80200 / Force Provider					<b>Item Number / Title [DODIC]:</b> M80200 / Force Provider						
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :											<b>MDAP/MAIS Code:</b>						
Resource Summary				Prior Years		FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total			
Procurement Quantity (Units in Each)				14		16		-		-		12		12			
Gross/Weapon System Cost (\$ in Millions)				1,162.340		70.000		53.800		-		53.800		53.800			
Less PY Advance Procurement (\$ in Millions)				-		-		-		-		-		-			
Net Procurement (P-1) (\$ in Millions)				1,162.340		70.000		53.800		-		53.800		53.800			
Plus CY Advance Procurement (\$ in Millions)				-		-		-		-		-		-			
<b>Total Obligation Authority (\$ in Millions)</b>				<b>1,162.340</b>		<b>70.000</b>		<b>53.800</b>		<b>-</b>		<b>53.800</b>		<b>53.800</b>			
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>																	
Initial Spares (\$ in Millions)				-		-		-		-		-		-		-	
Gross/Weapon System Unit Cost (\$ in Thousands)				83,024.286		4,375.000		-		-		4,483.333		4,483.333			

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
Hardware Force Provider Module <sup>(†)</sup>	-	-	833.344	3,232.000	4	12.928	3,617.000	12	43.404	-	-	-	3,779.000	12	45.348	3,779.000	12	45.348
Hardware Power Generator Kit <sup>(†)</sup>	-	-	146.015	273.000	18	4.914	300.000	6	1.800	-	-	-	308.000	6	1.848	308.000	6	1.848
Hardware Expeditionary TRICON Set <sup>(†)</sup>	-	-	168.200	337.000	18	6.066	347.000	12	4.164	-	-	-	367.000	6	2.202	367.000	6	2.202
Hardware Force Provider 50/75 Module <sup>(†)</sup>	-	-	-	1,495.000	14	20.930	-	-	-	-	-	-	-	-	-	-	-	-
Hardware Spare Parts	-	-	1.691	-	-	0.310	-	-	0.315	-	-	-	-	-	0.315	-	-	0.315
System Engineering/Program Management	-	-	4.840	-	-	0.750	-	-	0.780	-	-	-	-	-	0.900	-	-	0.900
Data	-	-	3.290	-	-	0.425	-	-	0.130	-	-	-	-	-	0.160	-	-	0.160
Fielding	-	-	4.960	-	-	0.575	-	-	0.383	-	-	-	-	-	0.395	-	-	0.395
Testing	-	-	-	-	-	0.026	-	-	0.450	-	-	-	-	-	0.220	-	-	0.220
Logistics	-	-	-	-	-	2.500	-	-	0.900	-	-	-	-	-	0.310	-	-	0.310
System Technical Support	-	-	-	-	-	2.076	-	-	1.474	-	-	-	-	-	2.102	-	-	2.102
ARCENT Rigid-Wall Base Camp procurement	-	-	-	-	-	18.500	-	-	-	-	-	-	-	-	-	-	-	-

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<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 25		<b>P-1 Line Item Number / Title:</b> M80200 / Force Provider
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :		<b>MDAP/MAIS Code:</b>

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
<i>Subtotal: Recurring Cost</i>	-	-	1,162.340	-	-	70.000	-	-	53.800	-	-	-	-	-	53.800	-	-	53.800
<i>Subtotal: Flyaway Cost</i>	-	-	1,162.340	-	-	70.000	-	-	53.800	-	-	-	-	-	53.800	-	-	53.800
<b>Gross/Weapon System Cost</b>	83,024.286	14	1,162.340	4,375.000	16	70.000	-	-	53.800	-	-	-	4,483.333	12	53.800	4,483.333	12	53.800

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	16	-	-	12	12
	Total Obligation Authority	70.000	53.800	-	53.800	53.800
<b>Total: Secondary Distribution</b>	Quantity	16	-	-	12	12
	Total Obligation Authority	70.000	53.800	-	53.800	53.800

(t) indicates the presence of a P-5a

**UNCLASSIFIED**

**Exhibit P-5a, Procurement History and Planning: PB 2017 Army** **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 25	<b>P-1 Line Item Number / Title:</b> M80200 / Force Provider	<b>Item Number / Title [DODIC]:</b> M80200 / Force Provider
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Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
Hardware Force Provider Module <sup>(†)</sup>		2015	Letterkenny Army Depot / Chambersburg, PA	SS / FP	Natick, MA	May 2016	Feb 2017	4	3,232.000	Y	May 2009	Aug 2010
Hardware Force Provider Module <sup>(†)</sup>		2016	Letterkenny Army Depot / Chambersburg, PA	SS / FP	Natick, MA	Jun 2016	Mar 2017	12	3,617.000	Y	Oct 2015	Oct 2015
Hardware Force Provider Module <sup>(†)</sup>	✓	2017	Letterkenny Army Depot / Chambersburg, PA	SS / FP	Natick, MA	Jan 2017	Oct 2017	12	3,779.000	Y	Oct 2015	Oct 2015
Hardware Power Generator Kit <sup>(†)</sup>		2015	Letterkenny Army Depot / Chambersburg, PA	SS / FP	Natick, MA	Mar 2015	Dec 2015	18	273.000	Y	Oct 2007	Aug 2009
Hardware Power Generator Kit <sup>(†)</sup>		2016	Letterkenny Army Depot / Chambersburg, PA	SS / FP	Natick, MA	Mar 2016	Dec 2016	6	300.000	Y	Oct 2007	Aug 2009
Hardware Power Generator Kit <sup>(†)</sup>	✓	2017	Letterkenny Army Depot / Chambersburg, PA	SS / FP	Natick, MA	Mar 2017	Dec 2017	6	308.000	Y	Oct 2007	Aug 2009
Hardware Expeditionary TRICON Set <sup>(†)</sup>		2015	Letterkenny Army Depot / Chambersburg, PA	C / FP	Natick, MA	Jan 2015	Jul 2015	18	337.000	Y	Sep 2009	Jun 2010
Hardware Expeditionary TRICON Set <sup>(†)</sup>		2016	Letterkenny Army Depot / Chambersburg, PA	C / FP	Natick, MA	Jan 2016	Jul 2016	12	347.000	Y	Sep 2009	Jun 2010
Hardware Expeditionary TRICON Set <sup>(†)</sup>	✓	2017	Letterkenny Army Depot / Chambersburg, PA	C / FP	Natick, MA	Jan 2017	Jul 2017	6	367.000	Y	Sep 2009	Jun 2010
Hardware Force Provider 50/75 Module <sup>(†)</sup>		2015	Letterkenny Army Depot / Chambersburg, PA	SS / FP	Natick, MA	Aug 2015	May 2016	14	1,495.000	Y	Jan 2015	Jun 2015

<sup>(†)</sup> indicates the presence of a P-21

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**Exhibit P-21, Production Schedule:** PB 2017 Army **Date:** February 2016

**Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 03 / 25 **P-1 Line Item Number / Title:** M80200 / Force Provider **Item Number / Title [DODIC]:** M80200 / Force Provider

Cost Elements <i>(Units in Each)</i>					Fiscal Year 2015													Fiscal Year 2016												BALANCE						
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2014	BAL DUE AS OF 1 OCT	Calendar Year 2015													Calendar Year 2016																
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P					
<b>Hardware Force Provider Module</b>																																				
	1	2015	ARMY (XIV)	4	-	4																							A -							4
	1	2016	ARMY (XV)	12	-	12																							A -							12
✓	1	2017	ARMY (XVI)	12	-	12																													12	
<b>Hardware Power Generator Kit</b>																																				
	2	2015	ARMY (XVII)	18	-	18																							A -							6
	2	2016	ARMY (XVIII)	6	-	6																							A -							6
✓	2	2017	ARMY (XIX)	6	-	6																													6	
<b>Hardware Expeditionary TRICON Set</b>																																				
	3	2015	ARMY (XX)	18	-	18																							A -							6
	3	2016	ARMY (XXI)	12	-	12																							A -							6
✓	3	2017	ARMY (XXII)	6	-	6																													6	
<b>Hardware Force Provider 50/75 Module</b>																																				
	4	2015	ARMY	14	-	14																							A -							2
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P						

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**Exhibit P-21, Production Schedule: PB 2017 Army** **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 25	<b>P-1 Line Item Number / Title:</b> M80200 / Force Provider	<b>Item Number / Title [DODIC]:</b> M80200 / Force Provider
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Cost Elements <i>(Units in Each)</i>					Fiscal Year 2017													Fiscal Year 2018												BALANCE		
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2016	BAL DUE AS OF 1 OCT	Calendar Year 2017													Calendar Year 2018												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P	
Hardware Force Provider Module																																
	1	2015	ARMY (XIV)	4	-	4	-	-	-	-	-	2	2																	-		
	1	2016	ARMY (XV)	12	-	12	-	-	-	-	-	-	2	2	2	2	2	2												-		
✓	1	2017	ARMY (XVI)	12	-	12					A	-	-	-	-	-	-	-	-	4	4	4							-			
Hardware Power Generator Kit																																
	2	2015	ARMY (XVII)	18	18	-																								-		
	2	2016	ARMY (XVIII)	6	-	6	-	-	6																					-		
✓	2	2017	ARMY (XIX)	6	-	6					A	-	-	-	-	-	-	-	-	-	-	-	6						-			
Hardware Expeditionary TRICON Set																																
	3	2015	ARMY (XX)	18	18	-																								-		
	3	2016	ARMY (XXI)	12	12	-																								-		
✓	3	2017	ARMY (XXII)	6	-	6				A	-	-	-	-	-	-	6												-			
Hardware Force Provider 50/75 Module																																
	4	2015	ARMY	14	10	4	2	2																						-		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P		



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**Exhibit P-21, Production Schedule:** PB 2017 Army **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 25	<b>P-1 Line Item Number / Title:</b> M80200 / Force Provider	<b>Item Number / Title [DODIC]:</b> M80200 / Force Provider
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MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)							
		MSR For 2017	1-8-5 For 2017	MAX For 2017	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	Letterkenny Army Depot - Chambersburg, PA	4	12	24	-	3	9	12	-	3	9	12
2	Letterkenny Army Depot - Chambersburg, PA	6	24	72	-	5	9	14	-	5	9	14
3	Letterkenny Army Depot - Chambersburg, PA	6	24	72	-	3	6	9	-	3	6	9
4	Letterkenny Army Depot - Chambersburg, PA	8	24	48	-	11	9	20	-	3	9	12

"A" in the Delivery Schedule indicates the Contract Award Date.

**Note:** Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

**Service/Agency Suffixes:**

- (XIV) OCO
- (XV) OCO
- (XVI) OCO
- (XVII) OCO
- (XVIII) OCO
- (XIX) OCO
- (XX) OCO
- (XXI) OCO
- (XXII) OCO

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**Exhibit P-40, Budget Line Item Justification:** PB 2017 Army **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 25: Combat Service Support Equipment	<b>P-1 Line Item Number / Title:</b> M65800 / Field Feeding Equipment
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> 0604713A
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<b>Line Item MDAP/MAIS Code:</b> N/A	<b>Item MDAP/MAIS Code(s):</b> N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	435	149	85	133	51	184	144	149	139	192	Continuing	Continuing
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	258.585	15.179	13.118	12.544	2.665	15.209	15.340	17.789	20.642	28.833	Continuing	Continuing
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	258.585	15.179	13.118	12.544	2.665	15.209	15.340	17.789	20.642	28.833	Continuing	Continuing
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>258.585</b>	<b>15.179</b>	<b>13.118</b>	<b>12.544</b>	<b>2.665</b>	<b>15.209</b>	<b>15.340</b>	<b>17.789</b>	<b>20.642</b>	<b>28.833</b>	<b>Continuing</b>	<b>Continuing</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost ( <i>\$ in Thousands</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Thousands</i> )	594.448	101.872	154.329	94.316	52.255	82.658	106.528	119.389	148.504	150.172	Continuing	Continuing

**Description:**

The Field Feeding and Refrigeration program provides equipment to conduct tactical food service operations. Field Feeding is a combat multiplier which improves morale and enhances the Soldier's physical and cognitive capabilities. Associated with food service operations are storage, preparation, serving and cleanup. Equipment items include: field kitchens, food sanitation centers, and refrigerated containers. This program supports the production of the Battlefield Kitchen that will replace the over-age and outdated Mobile Kitchen Trailer (MKT) as the Army's mid-sized kitchen. The Battlefield Kitchen will provide units with a modern, safer, and more operationally and energy efficient capability. It is designed for today's rations and tactical prime movers that meets Army requirements for improved mobility, survivability, and deployability. In conjunction with food service personnel and field rations, this equipment comprises the Army Field Feeding System (AFFS) which supports the Army standard of one hot prepared meal per day in the field. This program provides a critical capability that supports Army transformation and modularity concept while maintaining readiness through fielding and integration of new equipment. It enhances the field Soldier's well being and reduces requirements for related lift demands, combat zone footprint, and logistical support costs.

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	Quantity	33	31	54	51	105	76	98	98	192
	Total Obligation Authority	3.739	9.961	8.065	2.665	10.730	11.323	14.609	18.037	28.833
ANG	Quantity	104	54	79	-	79	68	51	41	-
	Total Obligation Authority	10.780	3.157	4.479	-	4.479	4.017	3.180	2.605	-
AR	Quantity	12	-	-	-	-	-	-	-	-
	Total Obligation Authority	0.660	-	-	-	-	-	-	-	-
<b>Total:</b>	<b>Quantity</b>	<b>149</b>	<b>85</b>	<b>133</b>	<b>51</b>	<b>184</b>	<b>144</b>	<b>149</b>	<b>139</b>	<b>192</b>
<b>Secondary Distribution</b>	<b>Total Obligation Authority</b>	<b>15.179</b>	<b>13.118</b>	<b>12.544</b>	<b>2.665</b>	<b>15.209</b>	<b>15.340</b>	<b>17.789</b>	<b>20.642</b>	<b>28.833</b>

**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** PB 2017 Army **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 25: Combat Service Support Equipment	<b>P-1 Line Item Number / Title:</b> M65800 / Field Feeding Equipment
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> 0604713A
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<b>Line Item MDAP/MAIS Code:</b> N/A	<b>Item MDAP/MAIS Code(s):</b> N/A
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Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	M65801 / REFRIGERATED CONTAINER SYSTEMS	P-5a, P-21	A	350 / 214.324	56 / 10.290	23 / 9.486	42 / 7.459	- / -	42 / 7.459
P-5	M65806 / Assault Kitchen (AK)	P-5a, P-21	A	85 / 44.261	93 / 4.889	62 / 3.632	91 / 5.085	51 / 2.665	142 / 7.750
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>			<b>435 / 258.585</b>	<b>149 / 15.179</b>	<b>85 / 13.118</b>	<b>133 / 12.544</b>	<b>51 / 2.665</b>	<b>184 / 15.209</b>

\*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

**Justification:**  
 FY 17 Base procurement dollars in the amount of \$12.544 million supports production of 42 Multi Temperature Refrigerated Container Systems (MTRCS) for issue to Subsistence Platoons, and maneuver and Support BCT's to implement the configured load subsistence supply concept and 91 Assault Kitchens (AK's) to support company level feeding in light through heavy forces.

FY 17 OCO procurement dollars in the amount of \$2.665 supports production of an additional 51 Assault Kitchens (AK) to support company level fielding requirements.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 25		<b>P-1 Line Item Number / Title:</b> M65800 / Field Feeding Equipment
		<b>Item Number / Title [DODIC]:</b> M65801 / REFRIGERATED CONTAINER SYSTEMS

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	350	56	23	42	-	42
Gross/Weapon System Cost (\$ in Millions)	214.324	10.290	9.486	7.459	-	7.459
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	214.324	10.290	9.486	7.459	-	7.459
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	<b>214.324</b>	<b>10.290</b>	<b>9.486</b>	<b>7.459</b>	<b>-</b>	<b>7.459</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	612.354	183.750	412.435	177.595	-	177.595

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
Hardware MTRCS <sup>(†)</sup>	1,660.872	117	194.322	113.000	56	6.328	140.913	23	3.241	122.810	42	5.158	-	-	-	122.810	42	5.158
Hardware Spare Parts	-	-	1.089	-	-	0.056	-	-	0.023	-	-	0.042	-	-	-	-	-	0.042
System Engineering/Program Management	-	-	6.267	-	-	1.094	-	-	1.085	-	-	1.040	-	-	-	-	-	1.040
Fielding	-	-	8.730	-	-	1.028	-	-	0.580	-	-	0.546	-	-	-	-	-	0.546
Testing	-	-	2.095	-	-	0.236	-	-	2.450	-	-	-	-	-	-	-	-	-
Data	-	-	1.616	-	-	1.205	-	-	1.250	-	-	-	-	-	-	-	-	-
Engineering Changes	-	-	0.205	-	-	0.343	-	-	0.857	-	-	0.673	-	-	-	-	-	0.673
<i>Subtotal: Recurring Cost</i>	-	-	214.324	-	-	10.290	-	-	9.486	-	-	7.459	-	-	-	-	-	7.459
<i>Subtotal: Flyaway Cost</i>	-	-	214.324	-	-	10.290	-	-	9.486	-	-	7.459	-	-	-	-	-	7.459
<b>Gross/Weapon System Cost</b>	<b>612.354</b>	<b>350</b>	<b>214.324</b>	<b>183.750</b>	<b>56</b>	<b>10.290</b>	<b>412.435</b>	<b>23</b>	<b>9.486</b>	<b>177.595</b>	<b>42</b>	<b>7.459</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>177.595</b>	<b>42</b>	<b>7.459</b>

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	15	23	42	-	42
	Total Obligation Authority	2.815	9.486	7.459	-	7.459
ANG	Quantity	41	-	-	-	-
	Total Obligation Authority	7.475	-	-	-	-

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis:</b> PB 2017 Army		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 25	<b>P-1 Line Item Number / Title:</b> M65800 / Field Feeding Equipment	<b>Item Number / Title [DODIC]:</b> M65801 / REFRIGERATED CONTAINER SYSTEMS

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A		<b>MDAP/MAIS Code:</b>				
<b>Secondary Distribution</b>		<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>
<b>Total:</b>	<b>Quantity</b>	56	23	42	-	42
<b>Secondary Distribution</b>	<b>Total Obligation Authority</b>	10.290	9.486	7.459	-	7.459

(t) indicates the presence of a P-5a

**UNCLASSIFIED**

<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2017 Army								<b>Date:</b> February 2016				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 25			<b>P-1 Line Item Number / Title:</b> M65800 / Field Feeding Equipment					<b>Item Number / Title [DODIC]:</b> M65801 / REFRIGERATED CONTAINER SYSTEMS				
<b>Cost Elements</b>	<b>O C O</b>	<b>FY</b>	<b>Contractor and Location</b>	<b>Method/Type or Funding Vehicle</b>	<b>Location of PCO</b>	<b>Award Date</b>	<b>Date of First Delivery</b>	<b>Qty (Each)</b>	<b>Unit Cost (\$ K)</b>	<b>Specs Avail Now?</b>	<b>Date Revision Available</b>	<b>RFP Issue Date</b>
Hardware MTRCS <sup>(†)</sup>		2015	DRS Environmental Systems / Florence KY	C / FP	RDECOM, Natick, MA	Sep 2015	Jun 2016	56	113.000	Y		Jan 2015
Hardware MTRCS <sup>(†)</sup>		2016	DRS Environmental Systems / Florence KY	C / FP	RDECOM, Natick, MA	Feb 2016	Nov 2016	23	140.913	Y		Jan 2015
Hardware MTRCS <sup>(†)</sup>		2017	TBS / TBS	C / FP	RDECOM, Natick, MA	Jan 2017	Oct 2017	42	122.810	Y		Jul 2015

<sup>(†)</sup> indicates the presence of a P-21

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<b>Exhibit P-21, Production Schedule:</b> PB 2017 Army				<b>Date:</b> February 2016							
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 25				<b>P-1 Line Item Number / Title:</b> M65800 / Field Feeding Equipment				<b>Item Number / Title [DODIC]:</b> M65801 / REFRIGERATED CONTAINER SYSTEMS			

Cost Elements (Units in Each)						Fiscal Year 2015													Fiscal Year 2016													B A L A N C E																
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2014	BAL DUE AS OF 1 OCT	Calendar Year 2015													Calendar Year 2016																												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P																		
Hardware MTRCS																																																
Prior Years Deliveries: 117																																																
	1	2015	ARMY	56	-	56																							A -	-	-	-	-	-	-	-	-	-	8	8	8	8	24					
	1	2016	ARMY	23	-	23																																										23
	2	2017	ARMY	42	-	42																																										42
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P																		

**UNCLASSIFIED**

<b>Exhibit P-21, Production Schedule:</b> PB 2017 Army																<b>Date:</b> February 2016													
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 25										<b>P-1 Line Item Number / Title:</b> M65800 / Field Feeding Equipment										<b>Item Number / Title [DODIC]:</b> M65801 / REFRIGERATED CONTAINER SYSTEMS									

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2017												Fiscal Year 2018												BALANCE							
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2016	BAL DUE AS OF 1 OCT	Calendar Year 2017												Calendar Year 2018																		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P						
Hardware MTRCS																																					
Prior Years Deliveries: 117																																					
	1	2015	ARMY	56	32	24	8	8	8																												-
	1	2016	ARMY	23	-	23	-	1	1	1	9	9	2																								-
	2	2017	ARMY	42	-	42				A	-	-	-	-	-	-	-	2	6	6	6	6	6	6	6	4										-	
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P							



**UNCLASSIFIED**

<b>Exhibit P-21, Production Schedule:</b> PB 2017 Army		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 25		<b>P-1 Line Item Number / Title:</b> M65800 / Field Feeding Equipment
		<b>Item Number / Title [DODIC]:</b> M65801 / REFRIGERATED CONTAINER SYSTEMS

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2017	1-8-5 For 2017	MAX For 2017	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	DRS Environmental Systems - Florence KY	8	20	36	-	12	9	21	-	5	9	14
2	TBS - TBS	6	10	24	-	4	9	13	-	4	9	13

"A" in the Delivery Schedule indicates the Contract Award Date.

**Note:** Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

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<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 25	<b>P-1 Line Item Number / Title:</b> M65800 / Field Feeding Equipment	<b>Item Number / Title [DODIC]:</b> M65806 / Assault Kitchen (AK)

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity ( <i>Units in Each</i> )	85	93	62	91	51	142
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	44.261	4.889	3.632	5.085	2.665	7.750
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	44.261	4.889	3.632	5.085	2.665	7.750
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>44.261</b>	<b>4.889</b>	<b>3.632</b>	<b>5.085</b>	<b>2.665</b>	<b>7.750</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Thousands</i> )	520.718	52.570	58.581	55.879	52.255	54.577

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
Hardware AK BASE <sup>(†)</sup>	369.941	118	43.653	41.000	93	3.813	41.823	62	2.593	42.659	91	3.882	-	-	-	42.659	91	3.882
Hardware AK OCO <sup>(†)</sup>	-	-	-	-	-	-	-	-	-	-	-	-	42.647	51	2.175	42.647	51	2.175
Hardware Spare Parts	-	-	0.012	-	-	0.028	-	-	0.019	-	-	0.027	-	-	0.015	-	-	0.042
Engineering Changes	-	-	0.037	-	-	0.076	-	-	0.052	-	-	0.052	-	-	0.044	-	-	0.096
System Engineering/ Program Management	-	-	0.337	-	-	0.582	-	-	0.615	-	-	0.595	-	-	0.140	-	-	0.735
Fielding	-	-	0.222	-	-	0.390	-	-	0.353	-	-	0.529	-	-	0.291	-	-	0.820
<i>Subtotal: Recurring Cost</i>	-	-	<b>44.261</b>	-	-	<b>4.889</b>	-	-	<b>3.632</b>	-	-	<b>5.085</b>	-	-	<b>2.665</b>	-	-	<b>7.750</b>
<i>Subtotal: Flyaway Cost</i>	-	-	<b>44.261</b>	-	-	<b>4.889</b>	-	-	<b>3.632</b>	-	-	<b>5.085</b>	-	-	<b>2.665</b>	-	-	<b>7.750</b>
<b>Gross/Weapon System Cost</b>	<b>520.718</b>	<b>85</b>	<b>44.261</b>	<b>52.570</b>	<b>93</b>	<b>4.889</b>	<b>58.581</b>	<b>62</b>	<b>3.632</b>	<b>55.879</b>	<b>91</b>	<b>5.085</b>	<b>52.255</b>	<b>51</b>	<b>2.665</b>	<b>54.577</b>	<b>142</b>	<b>7.750</b>

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	18	8	12	51	63
	Total Obligation Authority	0.924	0.475	0.606	2.665	3.271
ANG	Quantity	63	54	79	-	79
	Total Obligation Authority	3.305	3.157	4.479	-	4.479
AR	Quantity	12	-	-	-	-
	Total Obligation Authority	0.660	-	-	-	-

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>				<b>Date:</b> February 2016		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 25		<b>P-1 Line Item Number / Title:</b> M65800 / Field Feeding Equipment		<b>Item Number / Title [DODIC]:</b> M65806 / Assault Kitchen (AK)		
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A			<b>MDAP/MAIS Code:</b>			
<b>Secondary Distribution</b>		<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>
<b>Total:</b>	<b>Quantity</b>	93	62	91	51	142
<b>Secondary Distribution</b>	<b>Total Obligation Authority</b>	4.889	3.632	5.085	2.665	7.750

(t) indicates the presence of a P-5a

**UNCLASSIFIED**

**Exhibit P-5a, Procurement History and Planning: PB 2017 Army** **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 25	<b>P-1 Line Item Number / Title:</b> M65800 / Field Feeding Equipment	<b>Item Number / Title [DODIC]:</b> M65806 / Assault Kitchen (AK)
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Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
Hardware AK BASE <sup>(†)</sup>		2015	Rock Island Arsenal / Rock Island, IL	MIPR	PMFSS, Natick, MA	Jan 2015	Sep 2015	93	41.000	Y		Oct 2011
Hardware AK BASE <sup>(†)</sup>		2016	Rock Island Arsenal / Rock Island, IL	MIPR	PMFSS, Natick, MA	Feb 2016	Oct 2016	62	41.823	Y		Oct 2011
Hardware AK BASE <sup>(†)</sup>		2017	Rock Island Arsenal / Rock Island, IL	MIPR	PMFSS, Natick, MA	Feb 2017	Oct 2017	91	42.659	Y		Oct 2011
Hardware AK OCO <sup>(†)</sup>	✓	2017	Rock Island Arsenal / Rock Island, IL	MIPR	PMFSS, Natick, MA	Feb 2017	Oct 2017	51	42.647	Y		Oct 2011

<sup>(†)</sup> indicates the presence of a P-21

**UNCLASSIFIED**

**Exhibit P-21, Production Schedule:** PB 2017 Army **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 25	<b>P-1 Line Item Number / Title:</b> M65800 / Field Feeding Equipment	<b>Item Number / Title [DODIC]:</b> M65806 / Assault Kitchen (AK)
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2015													Fiscal Year 2016													BALANCE	
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2014	BAL DUE AS OF 1 OCT	Calendar Year 2015													Calendar Year 2016													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			
Hardware AK BASE																																	
Prior Years Deliveries: 118																																	
	1	2015	ARMY (xxiii)	93	-	93																											
	1	2016	ARMY (xxiv)	62	-	62																											
	1	2017	ARMY (xxv)	91	-	91																											
Hardware AK OCO																																	
✓	2	2017	ARMY (xxvi)	51	-	51																											
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

**UNCLASSIFIED**

**Exhibit P-21, Production Schedule:** PB 2017 Army **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 25	<b>P-1 Line Item Number / Title:</b> M65800 / Field Feeding Equipment	<b>Item Number / Title [DODIC]:</b> M65806 / Assault Kitchen (AK)
--	--	--

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2017												Fiscal Year 2018												BALANCE	
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2016	BAL DUE AS OF 1 OCT	Calendar Year 2017												Calendar Year 2018												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P
Hardware AK BASE																															
Prior Years Deliveries: 118																															
	1	2015	ARMY (xxiii)	93	93	-																							-		
	1	2016	ARMY (xxiv)	62	-	62	6	5	5	5	5	5	5	5	5	5	6												-		
	1	2017	ARMY (xxv)	91	-	91					A	-	-	-	-	-	-	-	7	7	7	7	7	7	8	8	8	8	8	-	
Hardware AK OCO																															
✓	2	2017	ARMY (xxvi)	51	-	51					A	-	-	-	-	-	-	-	4	4	5	5	5	5	4	4	4	4	4	-	
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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**Exhibit P-21, Production Schedule:** PB 2017 Army **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 25	<b>P-1 Line Item Number / Title:</b> M65800 / Field Feeding Equipment	<b>Item Number / Title [DODIC]:</b> M65806 / Assault Kitchen (AK)
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MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2017	1-8-5 For 2017	MAX For 2017	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	Rock Island Arsenal - Rock Island, IL	5	20	40	-	4	8	12	-	5	8	13
2	Rock Island Arsenal - Rock Island, IL	5	20	40	-	4	8	12	-	5	8	13

"A" in the Delivery Schedule indicates the Contract Award Date.

**Note:** Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

**Service/Agency Suffixes:**

- (XXIII) BASE
- (XXIV) BASE
- (XXV) BASE
- (XXVI) OCO

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**Exhibit P-40, Budget Line Item Justification:** PB 2017 Army **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 25: Combat Service Support Equipment	<b>P-1 Line Item Number / Title:</b> MA7804 / Cargo Aerial Del & Personnel Parachute Systems
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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<b>Line Item MDAP/MAIS Code:</b> N/A	<b>Item MDAP/MAIS Code(s):</b> N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	1,453	2,192	1,129	57	1,186	2,484	4,128	2,708	1,935	Continuing	Continuing
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	302.149	30.915	28.978	18.509	2.400	20.909	21.027	26.788	29.109	24.322	Continuing	Continuing
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	302.149	30.915	28.978	18.509	2.400	20.909	21.027	26.788	29.109	24.322	Continuing	Continuing
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>302.149</b>	<b>30.915</b>	<b>28.978</b>	<b>18.509</b>	<b>2.400</b>	<b>20.909</b>	<b>21.027</b>	<b>26.788</b>	<b>29.109</b>	<b>24.322</b>	<b>Continuing</b>	<b>Continuing</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost ( <i>\$ in Thousands</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Thousands</i> )	-	21.277	13.220	16.394	42.105	17.630	8.465	6.489	10.749	12.570	Continuing	Continuing

**Description:**

The Advanced Tactical Parachute System (ATPS) is the Army's next generation parachute system for personnel static line airdrop operations and consists of the T-11 (non-steerable) and MC-6 (steerable) systems. The T-11 consists of an integrated harness, reserve parachute and the T-11 main canopy for mass tactical static line airdrop operations. The T-11 replaced the T-10 main canopy, the Modified Improved Reserve Parachute System (MIRPS) and the existing parachute harness. The total Army Acquisition Objective (AAO) of 43,708 has been procured. Fielding was completed in FY15.

The RA-1 Parachute System is replacing the current MC-4 ram air parachute system with a multi-mission High Altitude Low Opening (HALO) and High Altitude High Opening (HAHO) standoff capability, that also provides a static line deployed ram air parachute insertion capability. The RA-1 allows personnel to exit at altitudes between 3,500 ft to 35,000 ft Mean Sea Level with a total jumper weight of 450 lbs. The AAO is 5,470 and is being procured from FY14 through FY18.

The Parachutist Navigation System (PARANAVSYS) is a reliable, easy to use Global Positioning System navigation system that will replace current compass based navigation boards. It will provide integrated mission planning software and increase situational awareness by providing the parachutist mission critical navigation information throughout a High Altitude High Opening/High Altitude Low Opening operation. The AAO is 5,470 and will be procured FY17 through FY19.

The Enhanced Electronic Automatic Activation Device (EEAAD) will be used on the RA-1 to open the reserve parachute system in case of malfunction or if the main canopy is not deployed. The procurement objective is 5,470 (1 for every RA-1) and it will be procured FY18-FY22.

Joint Precision Air Drop System (JPADS) represents the DoD's next generation of cargo aerial delivery. The system provides autonomous guidance of loads dropped from altitudes up to 25,000 feet Mean Sea Level (MSL) at increments of 2,000 (2K) and 10,000 (10K) pounds. JPADS will allow precise delivery of critical supplies to the Warfighter on the ground while allowing aircraft delivering payloads to fly at significantly safer altitudes. This line includes both 2K and 10K procurement.

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army									
Quantity	1,376	1,669	243	57	300	2,229	3,974	2,451	1,872
Total Obligation Authority	29.242	22.723	8.729	2.400	11.129	19.802	25.966	27.890	24.070



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**Exhibit P-40, Budget Line Item Justification:** PB 2017 Army **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 25: Combat Service Support Equipment	<b>P-1 Line Item Number / Title:</b> MA7804 / Cargo Aerial Del & Personnel Parachute Systems
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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<b>Line Item MDAP/MAIS Code:</b> N/A	<b>Item MDAP/MAIS Code(s):</b> N/A
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Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
ANG	Quantity	75	523	693	-	693	255	154	257	63
	Total Obligation Authority	1.400	6.255	7.561	-	7.561	1.225	0.822	1.219	0.252
AR	Quantity	2	-	193	-	193	-	-	-	-
	Total Obligation Authority	0.273	-	2.219	-	2.219	-	-	-	-
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	<b>1,453</b>	<b>2,192</b>	<b>1,129</b>	<b>57</b>	<b>1,186</b>	<b>2,484</b>	<b>4,128</b>	<b>2,708</b>	<b>1,935</b>
	<b>Total Obligation Authority</b>	<b>30.915</b>	<b>28.978</b>	<b>18.509</b>	<b>2.400</b>	<b>20.909</b>	<b>21.027</b>	<b>26.788</b>	<b>29.109</b>	<b>24.322</b>

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**Exhibit P-40, Budget Line Item Justification:** PB 2017 Army **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 25: Combat Service Support Equipment	<b>P-1 Line Item Number / Title:</b> MA7804 / Cargo Aerial Del & Personnel Parachute Systems
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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<b>Line Item MDAP/MAIS Code:</b> N/A	<b>Item MDAP/MAIS Code(s):</b> N/A
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Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	MA7801 / Advanced Tactical Parachute System	P-5a, P-21		- / 178.640	1,358 / 25.996	2,157 / 26.088	1,116 / 16.611	- / -	1,116 / 16.611
P-5	MA7806 / Precision Airdrop	P-5a, P-21		- / 123.509	95 / 4.919	35 / 2.890	13 / 1.898	57 / 2.400	70 / 4.298
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>			<b>- / 302.149</b>	<b>1,453 / 30.915</b>	<b>2,192 / 28.978</b>	<b>1,129 / 18.509</b>	<b>57 / 2.400</b>	<b>1,186 / 20.909</b>

\*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

**Justification:**  
 FY 2017 procurement dollars in the amount of \$20.909 million supports production of 13 JPADS 10K systems. The success of JPADS in theater has reinforced the need to execute critical resupply missions without having to place Soldiers and ground vehicle convoys on the ground in high risk situations. Procurement of this system provides a vital precision aerial resupply capability to support the full spectrum of operations. Funding supports a balanced investment strategy for the Army's approved force structure and Army Force Generation (ARFORGEN) requirements.

FY17 Base procurement dollars in the amount of \$18.509 million supports the procurement of RA-1 parachutes and PARANAVSYS.

FY 17 OCO procurement dollars in the amount of \$2.400 million supports production of an additional 57 Joint Precision Airdrop 2K systems for contingency operations.

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<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 25		<b>P-1 Line Item Number / Title:</b> MA7804 / Cargo Aerial Del & Personnel Parachute Systems
		<b>Item Number / Title [DODIC]:</b> MA7801 / Advanced Tactical Parachute System

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	-	1,358	2,157	1,116	-	1,116
Gross/Weapon System Cost (\$ in Millions)	178.640	25.996	26.088	16.611	-	16.611
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	178.640	25.996	26.088	16.611	-	16.611
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	<b>178.640</b>	<b>25.996</b>	<b>26.088</b>	<b>16.611</b>	<b>-</b>	<b>16.611</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	19.143	12.095	14.884	-	14.884

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
Engrg/Fldg/NET	-	-	51.130	12,510.500	1	12.511	5,999.643	1	6.000	-	-	4.244	-	-	-	-	-	4.244
MC-6 <sup>(†)</sup>	-	-	127.510	-	-	-	3.501	857	3.000	3.800	215	0.817	-	-	-	3.800	215	0.817
RA-1 (ARAPS) <sup>(†)</sup>	-	-	-	11.500	1,039	11.949	11.500	1,300	14.950	11.500	900	10.350	-	-	-	11.500	900	10.350
RA-1 SPARE PARTS <sup>(†)</sup>	-	-	1,537.000	1	1.537	2,138.000	1	2.138	1,200.000	1	1.200	-	-	-	1,200.000	1	1.200	
<i>Subtotal: Recurring Cost</i>	-	-	178.640	-	-	25.996	-	-	26.088	-	-	16.611	-	-	-	-	-	16.611
<i>Subtotal: Flyaway Cost</i>	-	-	178.640	-	-	25.996	-	-	26.088	-	-	16.611	-	-	-	-	-	16.611
<b>Gross/Weapon System Cost</b>	-	-	178.640	19.143	1,358	25.996	12.095	2,157	26.088	14.884	1,116	16.611	-	-	-	14.884	1,116	16.611

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	1,285	1,636	230	-	230
	Total Obligation Authority	24.860	20.097	6.831	-	6.831
ANG	Quantity	73	521	693	-	693
	Total Obligation Authority	1.136	5.991	7.561	-	7.561
AR	Quantity	-	-	193	-	193
	Total Obligation Authority	-	-	2.219	-	2.219
<b>Total:</b>	<b>Quantity</b>	<b>1,358</b>	<b>2,157</b>	<b>1,116</b>	<b>-</b>	<b>1,116</b>

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<b>Exhibit P-5, Cost Analysis:</b> PB 2017 Army				<b>Date:</b> February 2016		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 25		<b>P-1 Line Item Number / Title:</b> MA7804 / Cargo Aerial Del & Personnel Parachute Systems		<b>Item Number / Title [DODIC]:</b> MA7801 / Advanced Tactical Parachute System		
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :			<b>MDAP/MAIS Code:</b>			
<b>Secondary Distribution</b>		<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>
<b>Secondary Distribution</b>	<b>Total Obligation Authority</b>	25.996	26.088	16.611	-	16.611

(t) indicates the presence of a P-5a

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<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2017 Army							<b>Date:</b> February 2016					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 25			<b>P-1 Line Item Number / Title:</b> MA7804 / Cargo Aerial Del & Personnel Parachute Systems				<b>Item Number / Title [DODIC]:</b> MA7801 / Advanced Tactical Parachute System					

Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
MC-6 <sup>(†)</sup>		2016	TBD / TBD	C / FFP	TBD	Apr 2016	Jul 2016	857	3.501			
MC-6 <sup>(†)</sup>		2017	TBD / TBD	C / FFP	TBD	Apr 2017	Jul 2017	215	3.800			
RA-1 (ARAPS) <sup>(†)</sup>		2015	Airborne Systems North America / Santa Ana, CA	C / FFP	Santa Ana, CA	Nov 2014	Jan 2016	1,039	11.500			
RA-1 (ARAPS) <sup>(†)</sup>		2016	TBD / TBD	C / FFP	TBD	Apr 2016	Jul 2016	1,300	11.500			
RA-1 (ARAPS) <sup>(†)</sup>		2017	TBD / TBD	C / FFP	TBD	Jan 2017	Apr 2017	900	11.500			
RA-1 SPARE PARTS <sup>(†)</sup>		2016	TBD / TBD	C / FFP	TBD	Apr 2016	Jul 2016	1	2,138.000			
RA-1 SPARE PARTS <sup>(†)</sup>		2017	TBD / TBD	C / FFP	TBD	Jan 2017	Apr 2017	1	1,200.000			

<sup>(†)</sup> indicates the presence of a P-21

**Remarks:**

The Engineering/Fielding/New Equipment Training Cost element includes funding to procure Technical Data Packages for various systems including Protective Equipment and Organizational Clothing and Equipment valued at more than \$250,000.00

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<b>Exhibit P-21, Production Schedule:</b> PB 2017 Army												<b>Date:</b> February 2016																			
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 25						<b>P-1 Line Item Number / Title:</b> MA7804 / Cargo Aerial Del & Personnel Parachute Systems												<b>Item Number / Title [DODIC]:</b> MA7801 / Advanced Tactical Parachute System													

Cost Elements (Units in Each)						Fiscal Year 2015														Fiscal Year 2016														B A L A N C E																	
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2014	BAL DUE AS OF 1 OCT	Calendar Year 2015														Calendar Year 2016																														
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P																					
MC-6																																																			
1		2016	ARMY	857	-	857																								A -	-	-	32	50	50	725															
1		2017	ARMY	215	-	215																														215															
RA-1 (ARAPS)																																																			
2		2015	ARMY (xxvii)	1,039	-	1,039				A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	150	150	150	150	150	150	139	-														
3		2016	ARMY (xxviii)	1,300	-	1,300																													A -	-	-	150	150	150	850										
3		2017	ARMY (xxix)	900	-	900																																900													
RA-1 SPARE PARTS																																																			
4		2016	ARMY	1	-	1																													A -	-	-	1		-											
4		2017	ARMY	1	-	1																																	1												
<table border="1"> <thead> <tr> <th>O C T</th><th>N O V</th><th>D E C</th><th>J A N</th><th>F E B</th><th>M A R</th><th>A P R</th><th>M A Y</th><th>J U N</th><th>J U L</th><th>A U G</th><th>S E P</th><th>O C T</th><th>N O V</th><th>D E C</th><th>J A N</th><th>F E B</th><th>M A R</th><th>A P R</th><th>M A Y</th><th>J U N</th><th>J U L</th><th>A U G</th><th>S E P</th> </tr> </thead> </table>																												O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P
O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P																												

**UNCLASSIFIED**

<b>Exhibit P-21, Production Schedule:</b> PB 2017 Army															<b>Date:</b> February 2016														
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 25										<b>P-1 Line Item Number / Title:</b> MA7804 / Cargo Aerial Del & Personnel Parachute Systems										<b>Item Number / Title [DODIC]:</b> MA7801 / Advanced Tactical Parachute System									

Cost Elements <i>(Units in Each)</i>					Fiscal Year 2017												Fiscal Year 2018												BALANCE		
O C O #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2016	BAL DUE AS OF 1 OCT	Calendar Year 2017												Calendar Year 2018												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L		A U G	S E P
MC-6																															
	1	2016	ARMY	857	132	725	75	75	75	75	75	75	75	100	100															-	
	1	2017	ARMY	215	-	215								A -	-	-	75	70	70											-	
RA-1 (ARAPS)																															
	2	2015	ARMY (xxvii)	1,039	1,039	-																								-	
	3	2016	ARMY (xxviii)	1,300	450	850	150	150	150	150	150	100																		-	
	3	2017	ARMY (xxix)	900	-	900								A -	-	-	100	100	100	100	100	100	100	100	106	94				-	
RA-1 SPARE PARTS																															
	4	2016	ARMY	1	1	-																								-	
	4	2017	ARMY	1	-	1								A -	-	-	1													-	
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

**UNCLASSIFIED**

<b>Exhibit P-21, Production Schedule:</b> PB 2017 Army		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 25		<b>P-1 Line Item Number / Title:</b> MA7804 / Cargo Aerial Del & Personnel Parachute Systems
		<b>Item Number / Title [DODIC]:</b> MA7801 / Advanced Tactical Parachute System

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)								
		MSR For 2017	1-8-5 For 2017	MAX For 2017	Initial				Reorder				
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	
1	TBD - TBD	50	100	200	3	7	3	10	3	3	3	3	6
2	Airborne Systems North America - Santa Ana, CA	50	150	200	3	5	6	11	3	4	3	3	7
3	TBD - TBD	50	100	200	3	7	3	10	3	3	3	3	6
4	TBD - TBD	50	100	200	3	7	3	10	3	3	3	3	6

"A" in the Delivery Schedule indicates the Contract Award Date.

**Note:** Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

**Service/Agency Suffixes:**

- (XXVII) BASE
- (XXVIII) BASE
- (XXIX) BASE



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<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>											<b>Date:</b> February 2016							
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 25					<b>P-1 Line Item Number / Title:</b> MA7804 / Cargo Aerial Del & Personnel Parachute Systems						<b>Item Number / Title [DODIC]:</b> MA7806 / Precision Airdrop							
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :											<b>MDAP/MAIS Code:</b>							
Resource Summary				Prior Years		FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO		FY 2017 Total	
Procurement Quantity (Units in Each)				-		95			35			13			57		70	
Gross/Weapon System Cost (\$ in Millions)				123.509		4.919			2.890			1.898			2.400		4.298	
Less PY Advance Procurement (\$ in Millions)				-		-			-			-			-		-	
Net Procurement (P-1) (\$ in Millions)				123.509		4.919			2.890			1.898			2.400		4.298	
Plus CY Advance Procurement (\$ in Millions)				-		-			-			-			-		-	
<b>Total Obligation Authority (\$ in Millions)</b>				<b>123.509</b>		<b>4.919</b>			<b>2.890</b>			<b>1.898</b>			<b>2.400</b>		<b>4.298</b>	
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>																		
Initial Spares (\$ in Millions)				-		-			-			-			-		-	
Gross/Weapon System Unit Cost (\$ in Thousands)				-		51.779			82.571			146.000			42.105		61.400	

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
Hardware JPADS 2K <sup>(†)</sup>	-	-	68.551	30.000	85	2.550	-	-	0.700	-	-	-	33.000	57	1.881	33.000	57	1.881
Hardware Spares JPADS 2K	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.096	-	-	0.096
Sys Test & Evaluate, Production JPADS 2K	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.063	-	-	0.063
Sys Engineer/Program Mgt JPADS 2K	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.043	-	-	0.043
Fielding/Training JPADS 2K	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.062	-	-	0.062
Data JPADS 2K	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.099	-	-	0.099
Engineering Changes JPADS 2K	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.070	-	-	0.070
CLS/Shipping JPADS 2K	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.086	-	-	0.086
Hardware JPADS 10K <sup>(†)</sup>	-	-	29.295	85.000	15	1.275	91.000	15	1.365	94.000	13	1.222	-	-	-	94.000	13	1.222
System Test & Evaluation, Production	-	-	4.960	-	-	0.089	-	-	0.220	-	-	0.092	-	-	-	-	-	0.092
Engineering Changes	-	-	5.289	-	-	0.104	-	-	0.150	-	-	0.085	-	-	-	-	-	0.085
Fielding/Training	-	-	5.068	-	-	0.200	-	-	0.129	-	-	0.156	-	-	-	-	-	0.156
System Engineering/Program Management	-	-	5.106	-	-	0.205	-	-	0.041	-	-	0.035	-	-	-	-	-	0.035

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<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 25	<b>P-1 Line Item Number / Title:</b> MA7804 / Cargo Aerial Del & Personnel Parachute Systems	<b>Item Number / Title [DODIC]:</b> MA7806 / Precision Airdrop
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :		<b>MDAP/MAIS Code:</b>

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Data	-	-	4.918	-	-	0.064	-	-	0.118	-	-	0.151	-	-	-	-	-	0.151
Spares	-	-	0.322	-	-	0.298	-	-	0.082	-	-	0.090	-	-	-	-	-	0.090
CLS/Shipping	-	-	-	-	-	0.134	-	-	0.085	-	-	0.067	-	-	-	-	-	0.067
<i>Subtotal: Recurring Cost</i>	-	-	123.509	-	-	4.919	-	-	2.890	-	-	1.898	-	-	2.400	-	-	4.298
<i>Subtotal: Flyaway Cost</i>	-	-	123.509	-	-	4.919	-	-	2.890	-	-	1.898	-	-	2.400	-	-	4.298
<b>Gross/Weapon System Cost</b>	-	-	123.509	51.779	95	4.919	82.571	35	2.890	146.000	13	1.898	42.105	57	2.400	61.400	70	4.298

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	91	33	13	57	70
	Total Obligation Authority	4.382	2.626	1.898	2.400	4.298
ANG	Quantity	2	2	-	-	-
	Total Obligation Authority	0.264	0.264	-	-	-
AR	Quantity	2	-	-	-	-
	Total Obligation Authority	0.273	-	-	-	-
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	<b>95</b>	<b>35</b>	<b>13</b>	<b>57</b>	<b>70</b>
	<b>Total Obligation Authority</b>	<b>4.919</b>	<b>2.890</b>	<b>1.898</b>	<b>2.400</b>	<b>4.298</b>

(t) indicates the presence of a P-5a

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**Exhibit P-5a, Procurement History and Planning: PB 2017 Army** **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 25	<b>P-1 Line Item Number / Title:</b> MA7804 / Cargo Aerial Del & Personnel Parachute Systems	<b>Item Number / Title [DODIC]:</b> MA7806 / Precision Airdrop
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Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
Hardware JPADS 2K <sup>(†)</sup>		2015	TBD / TBD	C / IDIQ	RDECOM, Natick MA	Jan 2016	Jun 2016	85	30.000	Y		Jun 2014
Hardware JPADS 2K <sup>(†)</sup>	✓	2017	TBD / TBD	C / IDIQ	RDECOM, Natick MA	Mar 2017	Aug 2017	57	33.000	Y		Jun 2014
Hardware JPADS 10K <sup>(†)</sup>		2015	Airborne Systems / Pennsauken, NJ	C / IDIQ	RDECOM, Natick MA	Sep 2015	Feb 2016	15	85.000	Y		Sep 2013
Hardware JPADS 10K <sup>(†)</sup>		2016	Airborne Systems / Pennsauken, NJ	C / IDIQ	RDECOM, Natick MA	Mar 2016	Aug 2016	15	91.000	Y		Sep 2013
Hardware JPADS 10K <sup>(†)</sup>		2017	Airborne Systems / Pennsauken, NJ	C / IDIQ	RDECOM, Natick MA	Mar 2017	Aug 2017	13	94.000	Y		Sep 2013

<sup>(†)</sup> indicates the presence of a P-21

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**Exhibit P-21, Production Schedule:** PB 2017 Army **Date:** February 2016

**Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 03 / 25 **P-1 Line Item Number / Title:** MA7804 / Cargo Aerial Del & Personnel Parachute Systems **Item Number / Title [DODIC]:** MA7806 / Precision Airdrop

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2015													Fiscal Year 2016													BALANCE						
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2014	BAL DUE AS OF 1 OCT	Calendar Year 2015													Calendar Year 2016																		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P								
Hardware JPADS 2K																																						
	1	2015	ARMY (xxx)	85	-	85																							A -	-	-	-	-	15	15	15	15	25
✓	1	2017	ARMY (xxxI)	57	-	57																																57
Hardware JPADS 10K																																						
	2	2015	ARMY (xxxII)	15	-	15													A -	-	-	-	-	5	10											-		
	2	2016	ARMY (xxxIII)	15	-	15																							A -	-	-	-	-		5	5	5	
	2	2017	ARMY (xxxIV)	13	-	13																																13

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**Exhibit P-21, Production Schedule:** PB 2017 Army **Date:** February 2016

**Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 03 / 25 **P-1 Line Item Number / Title:** MA7804 / Cargo Aerial Del & Personnel Parachute Systems **Item Number / Title [DODIC]:** MA7806 / Precision Airdrop

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2017												Fiscal Year 2018												BALANCE	
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2016	BAL DUE AS OF 1 OCT	Calendar Year 2017												Calendar Year 2018												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P
Hardware JPADS 2K																															
	1	2015	ARMY (xxx)	85	60	25	15	10																					-		
✓	1	2017	ARMY (xxxI)	57	-	57																							-		
Hardware JPADS 10K																															
	2	2015	ARMY (xxxII)	15	15	-																							-		
	2	2016	ARMY (xxxIII)	15	10	5	5																						-		
	2	2017	ARMY (xxxIV)	13	-	13																							-		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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**Exhibit P-21, Production Schedule:** PB 2017 Army **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 25	<b>P-1 Line Item Number / Title:</b> MA7804 / Cargo Aerial Del & Personnel Parachute Systems	<b>Item Number / Title [DODIC]:</b> MA7806 / Precision Airdrop
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MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2017	1-8-5 For 2017	MAX For 2017	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	TBD - TBD	5	40	75	-	5	5	10	-	5	5	10
2	Airborne Systems - Pennsauken, NJ	5	40	75	-	5	9	14	-	5	5	10

"A" in the Delivery Schedule indicates the Contract Award Date.

**Note:** Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

**Service/Agency Suffixes:**

- (XXX) OCO
- (XXXI) OCO
- (XXXII) BASE
- (XXXIII) BASE
- (XXXIV) BASE

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**Exhibit P-40, Budget Line Item Justification:** PB 2017 Army **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 25: Combat Service Support Equipment	<b>P-1 Line Item Number / Title:</b> R70001 / Family Of Engr Combat and Construction Sets
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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<b>Line Item MDAP/MAIS Code:</b> N/A	<b>Item MDAP/MAIS Code(s):</b> N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	790	482	323	422	160	582	560	722	709	629	Continuing	Continuing
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	145.859	41.967	34.544	29.564	9.608	39.172	29.764	34.490	31.320	29.991	Continuing	Continuing
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	145.859	41.967	34.544	29.564	9.608	39.172	29.764	34.490	31.320	29.991	Continuing	Continuing
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>145.859</b>	<b>41.967</b>	<b>34.544</b>	<b>29.564</b>	<b>9.608</b>	<b>39.172</b>	<b>29.764</b>	<b>34.490</b>	<b>31.320</b>	<b>29.991</b>	<b>Continuing</b>	<b>Continuing</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost ( <i>\$ in Thousands</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Thousands</i> )	184.632	87.068	106.947	70.057	60.050	67.306	53.150	47.770	44.175	47.680	Continuing	Continuing

**Description:**

The Family Of Engineering Combat and Construction Sets (ECACS) is a family of systems that will support operations by combat and construction engineer teams in urban and rural environments. ECACS sets utilized in urban environment will aid in detection, protection, surveillance, monitoring, evacuation and clearing. ECACS sets utilized in rural environments will allow clearing and troop mobility support areas to include airfields, ports, facilities, and roads. Vertical Skills Engineer Construction Kits (VSECK) has six types which each provide tools and power equipment to meet maintenance and construction mission requirements.

The Engineer Equipment Set: Urban Operations, Platoon Set (UOpPS) consists of high technology equipment that provides Military personnel with enhanced capabilities to perform missions in urbanized or complex terrain. The components include thermal scopes, remote viewing instruments, detectors for explosives and gases, portable welders, metal cutting torches, rescue tools, mechanical entry tools, winch, and battery operated drills and saws. It provides engineers and others with specialized tools enabling them to conduct operations in urban environments in a safer, more expedient manner. The set will standardize tools, reducing logistical support and provide a Type Classified (TC)-standard Army system. Army Acquisition Objective (AAO) for Urban Operations, Platoon Set (UOpPS) is 772.

The Engineer Equipment Set: Urban Operations, Squad Set (UOpSS) consists of low technology equipment that provides Soldiers with enhanced capabilities to perform missions in urbanized or complex terrain. Components include portal blast shield, collapsible lightweight assault ladders, mechanical entry tools, and rappelling gear. This set supports dismounted engineer Soldiers and others in conducting Military Operations in Urban Terrain (MOUT). The set will standardize tools, reducing logistical support and provide a Type Classified (TC)-standard Army system. Army Acquisition Objective (AAO) for Urban Operations, Squad Set (UOpSS) is 1952.

The Engineer Equipment Set: Hydraulic Electric Pneumatic Petroleum Operated Equipment (HEPPOE) replaces two legacy systems through modernization, consolidation and optimization. The HEPPOE consists of 2 power units that provide hydraulic, electric and pneumatic power in conjunction with a rapid inventory 13 case tool load (Concrete Chain Saws, Hammer Drill, Sump Pump, Pavement Breakers, etc.) that will enhance the ability to operate in an urban area. More specifically, the HEPPOE supports combat and construction engineer tasks across the entire spectrum of the operation area such as clearing buildings for repair and construction, clearing areas around road constructions, port openings and any other urban areas that require operations. Army Acquisition Objective (AAO) for Hydraulic Electric Pneumatic Petroleum Operated Equipment (HEPPOE) is 710.

VSECK - Type I Carpenters Tool Kit Squad (CTKS) replaces one legacy system through modernization, consolidation and optimization. The legacy system this replaces does not meet current mission requirements and does not have any warranty associated with the current components. New configuration contains industrial quality hand tools, safety equipment, deployment bags and tool belts for up to eight

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**Exhibit P-40, Budget Line Item Justification:** PB 2017 Army **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 25: Combat Service Support Equipment	<b>P-1 Line Item Number / Title:</b> R70001 / Family Of Engr Combat and Construction Sets
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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<b>Line Item MDAP/MAIS Code:</b> N/A	<b>Item MDAP/MAIS Code(s):</b> N/A
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Construction Engineers secured in a waterproof rapid inventory case. Hand tools include hammers, utility knives, chisels, punches, hacksaws, hand saws, pliers, screwdrivers, squares and tape measures. Army Acquisition Objective for Type I is 5517.

VSECK Type II Carpenters Supplemental Tool Kit (CSTK) replaces one legacy system through modernization, consolidation and optimization. The legacy system this replaces does not meet current mission requirements and does not have any warranty associated with the current components. New configuration contains battery powered & carpentry hand tools to increase productivity at remote sites supporting a platoon size element. The cordless tools are a minimum of 18v and standardized to use the same power source with a power management system capable of recharging multiple power sources simultaneously. Cordless power tools include: hammer drills, right angle drills, circular saws, jig saws and reciprocating saws. Army Acquisition Objective for Type II is 830.

VSECK Type III Carpenters Tool Kit (CTK) replaces one legacy system through modernization, consolidation and optimization. The legacy system this replaces does not meet current mission requirements and does not have any warranty associated with the current components. New configuration contains commercial pneumatic, electric & hand carpentry tools that enable Soldiers to perform common carpentry tasks including construction of fighting positions, shelters, base camps, POW camps, temporary structures, bridges, ports & repair of existing structures. Tool load includes pneumatic nailer, blow gun, router, jig saw, 10" table saw, 10" circular saw, 14" cut off saw, 12" miter saw, nibbler, electric shears and tile cutter. Army Acquisition Objective for Type III is 314.

VSECK Type IV Electricians Tool Kit (ETK) replaces one legacy system through modernization, consolidation and optimization. The legacy system this replaces does not meet current mission requirements and does not have any warranty associated with the current components. Enables 3 electricians to perform construction & maintenance tasks related to distribution & transmission of electrical power: interior & exterior lighting, installation & repair of lighting & wiring aboard ships. Contains conduit benders, auger bits, pliers, knives, wood chisels, crimpers, tube & PVC cutters, key sets, levels multimeter, strippers, wrenches, ladders, electric saws & drills and flood lights. Army Acquisition Objective for Type IV is 928.

VSECK Type V Mason and Concrete Tool Kit (MCTK) replaces one legacy system through modernization, consolidation and optimization. The legacy system this replaces does not meet current mission requirements and does not have any warranty associated with the current components. Includes brick hammers, levels, chalk line, rulers, plumb bobs, trowels, floats, bull floats, specialized floats, screeds, edger, groover, brooms, hoses & nozzles, mortar mixer, scaffolding, sealant sprayer, pliers, vibrator, cut-off saws, grinder, rebar cutters & benders, hacksaws, knee boards, mortar boards & stands, buckets, brushes, laser level, come-a-long, tarps, hoes, rakes & shovels. Army Acquisition Objective for Type V is 892.

VSECK Type VI Plumbers and Pipefitters Tool Kit (PPTK) replaces three legacy systems through modernization, consolidation and optimization. The legacy systems this replaces do not meet current mission requirements and do not have any warranty associated with the current components. Specialized equipment required by a team of plumbers and pipefitters stock to perform construction and maintenance tasks working with metal, brass, aluminum, PVC or PEX. Contains hand tools enabling performance of individual & collective tasks related to heating & air conditioning, water distribution, waste water removal & solid waste removal. The tool load includes: hammers, hack saws, chisels, wrenches, pliers, putty knives, screwdrivers, saws, level plumb bob, tool box, ladder, powered saws & drills, pry & line up bars, tubing & pipe cutters, floodlight, key set, & plunger. Army Acquisition Objective for Type V is 898.

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	Quantity	482	135	112	160	272	160	249	254	271
	Total Obligation Authority	41.967	13.101	9.835	9.608	19.443	8.291	13.894	11.827	16.997
ANG	Quantity	-	132	197	-	197	257	324	310	220
	Total Obligation Authority	-	14.647	13.295	-	13.295	15.487	17.101	16.698	10.269
AR	Quantity	-	56	113	-	113	143	149	145	138
	Total Obligation Authority	-	6.796	6.434	-	6.434	5.986	3.495	2.795	2.725
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	<b>482</b>	<b>323</b>	<b>422</b>	<b>160</b>	<b>582</b>	<b>560</b>	<b>722</b>	<b>709</b>	<b>629</b>
	<b>Total Obligation Authority</b>	<b>41.967</b>	<b>34.544</b>	<b>29.564</b>	<b>9.608</b>	<b>39.172</b>	<b>29.764</b>	<b>34.490</b>	<b>31.320</b>	<b>29.991</b>



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**Exhibit P-40, Budget Line Item Justification:** PB 2017 Army **Date:** February 2016

**Appropriation / Budget Activity / Budget Sub Activity:**  
2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 25: Combat Service Support Equipment

**P-1 Line Item Number / Title:**  
R70001 / Family Of Engr Combat and Construction Sets

**ID Code** (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** N/A

**Line Item MDAP/MAIS Code:** N/A **Item MDAP/MAIS Code(s):** N/A

Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	R70110 / HEPPOE	P-5a, P-21	A	186 / 64.117	- / 13.184	58 / 13.135	49 / 11.506	6 / 1.449	55 / 12.955
P-5	R70120 / URBAN OPERATIONS, PLATOON SET	P-5a, P-21	A	156 / 44.702	180 / 11.497	78 / 11.453	48 / 7.254	10 / 1.444	58 / 8.698
P-5	R70130 / URBAN OPERATIONS, SQUAD SET	P-5a, P-21	A	448 / 37.040	302 / 17.286	187 / 9.956	136 / 7.783	129 / 6.626	265 / 14.409
P-5	R70170 / Vertical Skills Engr Const Kit: Type VI			- / -	- / -	- / -	53 / 0.977	- / -	53 / 0.977
P-5	R70180 / Vertical Skills Engr Const Kit: Type V			- / -	- / -	- / -	23 / 0.639	- / -	23 / 0.639
P-5	R70185 / Vertical Skills Engr Const Kit: Type IV			- / -	- / -	- / -	20 / 0.294	- / -	20 / 0.294
P-5	R70195 / Vertical Skills Engr Const Kit: Type III			- / -	- / -	- / -	20 / 0.473	- / -	20 / 0.473
P-5	R70196 / Vertical Skills Engr Const Kit: Type II			- / -	- / -	- / -	27 / 0.350	- / -	27 / 0.350
P-5	R70198 / Vertical Skills Engr Const Kit: Type I			- / -	- / -	- / -	46 / 0.288	15 / 0.090	61 / 0.378
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>			<b>790 / 145.859</b>	<b>482 / 41.967</b>	<b>323 / 34.544</b>	<b>422 / 29.564</b>	<b>160 / 9.608</b>	<b>582 / 39.172</b>

\*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.  
 Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

**Justification:**  
 FY17 Funding in the amount of \$11.506 million procures 49 HEPPOE. The Engineer Equipment Set: Hydraulic-Electric-Pneumatic-Petroleum-Operated Equipment (HEPPOE) will enhance mission accomplishment by replacing outdated systems. Providing this soldier portable set will allow soldiers to increase capability to complete required missions, provide support to civil authorities, and deter/defeat hybrid threats in support of the Army Force Generation (ARFORGEN) process.

FY17 Base funding in the amount of \$7.168 million procures 48 Urban Operations Platoon Sets. The Engineer Equipment Set: Urban Operations, Platoon Set (UOpPS) uniquely fills capability gaps that exist at the platoon level for conducting operations in urban environments. The specialized high technology tools included in this kit provide engineers, infantry, military police and other military units with enhanced capability to conduct operations in urban environments in a safe and expeditious manner. This set will standardize the tools used for conducting urban operations thereby reducing logistical support and provide a Type Classified (TC)-standard Army system.

FY17 Base funding in the amount of \$7.689 million procures 136 Urban Operations Squad Sets. The Engineer Equipment Set: Urban Operations, Squad Set (UOpSS) uniquely fills capability gaps that exist at the squad level for conducting operations in urban environments. The specialized low technology tools included in this set provide engineers, infantry, military police and other military units with enhanced capability to conduct operations in urban environments in a safe and expeditious manner. This set will standardize the tools used for conducting urban operations thereby reducing logistical support and provide a Type Classified (TC)-Army system.

FY17 base funding in the amount of \$.288 million procures 46 Type I VSECK assets. Currently there is a large capability gap in the field that severely needs this materiel solution for a rapidly available, portable and modernized tool kit for the Engineer community. This will increase productivity, expand capabilities, reduce risk and will contribute to rapid mobility of Construction Engineers. Providing this capability to the soldier will increase the Soldier's ability to complete the required missions, provide support to civil authorities and deter/defeat hybrid threats in support of the Army Force Generations (AFORGEN) process.

FY17 base funding in the amount of \$.350 million procures 27 Type II VSECK assets. Currently there is a large capability gap in the field that severely needs this materiel solution for a rapidly available, portable and modernized tool kit for the Engineer community. This will increase productivity, expand capabilities, reduce risk and will contribute to rapid mobility of Construction Engineers. Providing this capability to the soldier will increase the Soldier's ability to complete the required missions, provide support to civil authorities and deter/defeat hybrid threats in support of the Army Force Generations (AFORGEN) process.

**UNCLASSIFIED**

<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2017 Army		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 25: Combat Service Support Equipment		<b>P-1 Line Item Number / Title:</b> R70001 / Family Of Engr Combat and Construction Sets
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
<b>Line Item MDAP/MAIS Code:</b> N/A	<b>Item MDAP/MAIS Code(s):</b> N/A	
<p>FY17 base funding in the amount of \$.473 million procures 20 Type III VSECK assets. Currently there is a large capability gap in the field that severely needs this materiel solution for a rapidly available, portable and modernized tool kit for the Engineer community. This will increase productivity, expand capabilities, reduce risk and will contribute to rapid mobility of Construction Engineers. Providing this capability to the soldier will increase the Soldier's ability to complete the required missions, provide support to civil authorities and deter/defeat hybrid threats in support of the Army Force Generations (AFORGEN) process.</p> <p>FY17 base funding in the amount of \$.294 procures 20 Type IV VSECK assets. Currently there is a large capability gap in the field that severely needs this materiel solution for a rapidly available, portable and modernized tool kit for the Engineer community. This will increase productivity, expand capabilities, reduce risk and will contribute to rapid mobility of Construction Engineers. Providing this capability to the soldier will increase the Soldier's ability to complete the required missions, provide support to civil authorities and deter/defeat hybrid threats in support of the Army Force Generations (AFORGEN) process.</p> <p>FY17 base funding in the amount of \$.639 procures 23 Type V VSECK assets. Currently there is a large capability gap in the field that severely needs this materiel solution for a rapidly available, portable and modernized tool kit for the Engineer community. This will increase productivity, expand capabilities, reduce risk and will contribute to rapid mobility of Construction Engineers. Providing this capability to the soldier will increase the Soldier's ability to complete the required missions, provide support to civil authorities and deter/defeat hybrid threats in support of the Army Force Generations (AFORGEN) process.</p> <p>FY17 base funding in the amount of \$.997 procures 53 Type VI VSECK assets. Currently there is a large capability gap in the field that severely needs this materiel solution for a rapidly available, portable and modernized tool kit for the Engineer community. This will increase productivity, expand capabilities, reduce risk and will contribute to rapid mobility of Construction Engineers. Providing this capability to the soldier will increase the Soldier's ability to complete the required missions, provide support to civil authorities and deter/defeat hybrid threats in support of the Army Force Generations (AFORGEN) process.</p> <p>FY17 OCO funding in the amount of \$9.789 procures 6 HEPPOE's, 10 Urban Operations, Platoon set, and 129 Urban Operations, Squad set, and 6 Type I VSECK assets. in support of European Reassurance Initiative(ERI) - APS. This procurement supports the establishment of one ABCT for ERI. Procurement is necessary to outfit the Pre-Positioned equipment set. There is no excess inventory or viable substitute available to support the ERI requirement.</p> <p>In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.</p>		

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 25	<b>P-1 Line Item Number / Title:</b> R70001 / Family Of Engr Combat and Construction Sets	<b>Item Number / Title [DODIC]:</b> R70110 / HEPPOE

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	186	-	58	49	6	55
Gross/Weapon System Cost (\$ in Millions)	64.117	13.184	13.135	11.506	1.449	12.955
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	64.117	13.184	13.135	11.506	1.449	12.955
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	<b>64.117</b>	<b>13.184</b>	<b>13.135</b>	<b>11.506</b>	<b>1.449</b>	<b>12.955</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	344.715	-	226.466	234.816	241.500	235.545

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
Program Management	-	-	4.396	-	-	4.005	-	-	0.769	-	-	0.660	-	-	-	-	-	0.660
Quality Assurance	-	-	1.010	-	-	2.903	-	-	0.048	-	-	0.023	-	-	-	-	-	0.023
Engineering	-	-	9.535	-	-	3.036	-	-	0.160	-	-	0.048	-	-	-	-	-	0.048
HEPPOE <sup>(f)</sup>	208.000	186	38.688	-	-	-	202.379	58	11.738	211.000	49	10.339	211.000	6	1.266	211.000	55	11.605
System Fielding Support	-	-	10.488	-	-	3.240	-	-	0.420	-	-	0.436	-	-	0.183	-	-	0.619
<i>Subtotal: Recurring Cost</i>	-	-	64.117	-	-	13.184	-	-	13.135	-	-	11.506	-	-	1.449	-	-	12.955
<i>Subtotal: Flyaway Cost</i>	-	-	64.117	-	-	13.184	-	-	13.135	-	-	11.506	-	-	1.449	-	-	12.955
<b>Gross/Weapon System Cost</b>	<b>344.715</b>	<b>186</b>	<b>64.117</b>	-	-	<b>13.184</b>	<b>226.466</b>	<b>58</b>	<b>13.135</b>	<b>234.816</b>	<b>49</b>	<b>11.506</b>	<b>241.500</b>	<b>6</b>	<b>1.449</b>	<b>235.545</b>	<b>55</b>	<b>12.955</b>

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	-	16	37	6	43
	Total Obligation Authority	13.184	3.375	8.654	1.449	10.103
ANG	Quantity	-	27	7	-	7
	Total Obligation Authority	-	6.217	1.664	-	1.664
AR	Quantity	-	15	5	-	5
	Total Obligation Authority	-	3.543	1.188	-	1.188
<b>Total:</b>	<b>Quantity</b>	-	<b>58</b>	<b>49</b>	<b>6</b>	<b>55</b>

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis:</b> PB 2017 Army	<b>Date:</b> February 2016
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<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 25	<b>P-1 Line Item Number / Title:</b> R70001 / Family Of Engr Combat and Construction Sets	<b>Item Number / Title [DODIC]:</b> R70110 / HEPPOE
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Secondary Distribution	<b>Total Obligation Authority</b>	13.184	13.135	11.506	1.449	12.955

(t) indicates the presence of a P-5a

**UNCLASSIFIED**

**Exhibit P-5a, Procurement History and Planning:** PB 2017 Army **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 25	<b>P-1 Line Item Number / Title:</b> R70001 / Family Of Engr Combat and Construction Sets	<b>Item Number / Title [DODIC]:</b> R70110 / HEPPOE
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Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
HEPPOE		2015	Kipper / Gainsville GA	SS / FFP	TACOM, Warren, MI	Oct 2014	Apr 2015	-	-			
HEPPOE <sup>(†)</sup>		2016	Kipper / Gainsville GA	SS / FFP	TACOM, Warren, MI	Oct 2015	Apr 2016	58	202.379			
HEPPOE <sup>(†)</sup>		2017	Kipper / Gainsville GA	SS / FFP	TACOM, Warren, MI	Oct 2016	Apr 2017	49	211.000			
HEPPOE <sup>(†)</sup>		2017	Kipper 2 / Gainsville GA	SS / FFP	TACOM, WARREN, MI	Oct 2016	Apr 2017	6	211.000			

<sup>(†)</sup> indicates the presence of a P-21



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**Exhibit P-21, Production Schedule:** PB 2017 Army **Date:** February 2016

**Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 03 / 25 **P-1 Line Item Number / Title:** R70001 / Family Of Engr Combat and Construction Sets **Item Number / Title [DODIC]:** R70110 / HEPPOE

Cost Elements <i>(Units in Each)</i>				Fiscal Year 2017													Fiscal Year 2018													BALANCE				
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2016	BAL DUE AS OF 1 OCT	Calendar Year 2017													Calendar Year 2018														
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P			
HEPPOE																																		
Prior Years Deliveries: 186																																		
	1	2016	ARMY (xxxv)	58	30	28	5	5	5	5	4	4																						-
	1	2017	ARMY (xxxvi)	49	-	49	A	-	-	-	-	-	5	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	-
	2	2017	ARMY (xxxvii)	6	-	6	A	-	-	-	-	-	2	-	-	-	-	-	4															-
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P				

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**Exhibit P-21, Production Schedule:** PB 2017 Army **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 25	<b>P-1 Line Item Number / Title:</b> R70001 / Family Of Engr Combat and Construction Sets	<b>Item Number / Title [DODIC]:</b> R70110 / HEPPOE
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MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2017	1-8-5 For 2017	MAX For 2017	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	Kipper - Gainsville GA	2	15	30	-	1	6	7	-	1	6	7
2	Kipper 2 - Gainsville GA	2	15	30	-	1	6	7	-	1	6	7

"A" in the Delivery Schedule indicates the Contract Award Date.

**Note:** Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

**Service/Agency Suffixes:**

- (XXXV) BASE
- (XXXVI) BASE
- (XXXVII) OCO



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<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 25		<b>P-1 Line Item Number / Title:</b> R70001 / Family Of Engr Combat and Construction Sets
		<b>Item Number / Title [DODIC]:</b> R70120 / URBAN OPERATIONS, PLATOON SET

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	156	180	78	48	10	58
Gross/Weapon System Cost (\$ in Millions)	44.702	11.497	11.453	7.254	1.444	8.698
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	44.702	11.497	11.453	7.254	1.444	8.698
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	<b>44.702</b>	<b>11.497</b>	<b>11.453</b>	<b>7.254</b>	<b>1.444</b>	<b>8.698</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	286.551	63.872	146.833	151.125	144.400	149.966

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
Program Management	-	-	5.411	-	-	0.747	-	-	0.853	-	-	0.333	-	-	-	-	-	0.333
Quality Assurance Support	-	-	0.540	-	-	0.050	-	-	0.012	-	-	0.010	-	-	-	-	-	0.010
Engineering Support	-	-	11.500	-	-	0.075	-	-	0.040	-	-	0.191	-	-	-	-	-	0.191
Urban Ops Platoon <sup>(†)</sup>	195.754	130	25.448	58.056	180	10.450	133.897	78	10.444	137.813	48	6.615	138.000	10	1.380	137.845	58	7.995
System Fielding Support	-	-	1.803	-	-	0.175	-	-	0.105	-	-	0.105	-	-	0.064	-	-	0.169
<i>Subtotal: Recurring Cost</i>	-	-	44.702	-	-	11.497	-	-	11.454	-	-	7.254	-	-	1.444	-	-	8.698
<i>Subtotal: Flyaway Cost</i>	-	-	44.702	-	-	11.497	-	-	11.454	-	-	7.254	-	-	1.444	-	-	8.698
<b>Gross/Weapon System Cost</b>	<b>286.551</b>	<b>156</b>	<b>44.702</b>	<b>63.872</b>	<b>180</b>	<b>11.497</b>	<b>146.833</b>	<b>78</b>	<b>11.453</b>	<b>151.125</b>	<b>48</b>	<b>7.254</b>	<b>144.400</b>	<b>10</b>	<b>1.444</b>	<b>149.966</b>	<b>58</b>	<b>8.698</b>

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	180	36	-	10	10
	Total Obligation Authority	11.497	5.302	-	1.444	1.444
ANG	Quantity	-	30	33	-	33
	Total Obligation Authority	-	4.454	4.987	-	4.987
AR	Quantity	-	12	15	-	15
	Total Obligation Authority	-	1.697	2.267	-	2.267

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<b>Exhibit P-5, Cost Analysis:</b> PB 2017 Army		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 25	<b>P-1 Line Item Number / Title:</b> R70001 / Family Of Engr Combat and Construction Sets	<b>Item Number / Title [DODIC]:</b> R70120 / URBAN OPERATIONS, PLATOON SET

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A		<b>MDAP/MAIS Code:</b>				
<b>Secondary Distribution</b>		<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>
<b>Total:</b>	<b>Quantity</b>	180	78	48	10	58
<b>Secondary Distribution</b>	<b>Total Obligation Authority</b>	11.497	11.453	7.254	1.444	8.698

(t) indicates the presence of a P-5a

**UNCLASSIFIED**

**Exhibit P-5a, Procurement History and Planning:** PB 2017 Army **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 25	<b>P-1 Line Item Number / Title:</b> R70001 / Family Of Engr Combat and Construction Sets	<b>Item Number / Title [DODIC]:</b> R70120 / URBAN OPERATIONS, PLATOON SET
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Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
Urban Ops Platoon <sup>(†)</sup>		2015	FEDERAL RESOURCE 1 / Stevensville	C / FFP	TACOM WARREN, MI	Oct 2014	Jan 2015	180	58.056			
Urban Ops Platoon <sup>(†)</sup>		2016	FEDERAL RESOURCE 1 / Stevensville	C / FFP	TACOM WARREN, MI	Oct 2015	Jan 2016	78	133.897			
Urban Ops Platoon <sup>(†)</sup>		2017	FEDERAL RESOURCE 1 / Stevensville	C / FFP	TACOM Warren, MI	Oct 2016	Jan 2017	48	138.000			
Urban Ops Platoon <sup>(†)</sup>		2017	FEDERAL RESOURCE 2 / Stevensville	C / FFP	TACOM Warren, MI	Oct 2016	Jan 2017	10	138.000			

<sup>(†)</sup> indicates the presence of a P-21

**UNCLASSIFIED**

<b>Exhibit P-21, Production Schedule:</b> PB 2017 Army															<b>Date:</b> February 2016														
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 25										<b>P-1 Line Item Number / Title:</b> R70001 / Family Of Engr Combat and Construction Sets										<b>Item Number / Title [DODIC]:</b> R70120 / URBAN OPERATIONS, PLATOON SET									

Cost Elements <i>(Units in Each)</i>					Fiscal Year 2015															Fiscal Year 2016															BALANCE		
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2014	BAL DUE AS OF 1 OCT	Calendar Year 2015															Calendar Year 2016															
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P							
Urban Ops Platoon																																					
Prior Years Deliveries: 130																																					
	1	2015	ARMY (xxxviii)	180	-	180	A	-	-	-	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	-				
	1	2016	ARMY (xxxix)	78	-	78															A	-	-	-	7	7	7	7	7	7	7	6	6	6	18		
	1	2017	ARMY (xli)	48	-	48																												48			
	2	2017	ARMY (xli)	10	-	10																												10			
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P							

**UNCLASSIFIED**

<b>Exhibit P-21, Production Schedule:</b> PB 2017 Army															<b>Date:</b> February 2016														
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 25										<b>P-1 Line Item Number / Title:</b> R70001 / Family Of Engr Combat and Construction Sets										<b>Item Number / Title [DODIC]:</b> R70120 / URBAN OPERATIONS, PLATOON SET									

Cost Elements <i>(Units in Each)</i>					Fiscal Year 2017															Fiscal Year 2018												BALANCE		
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2016	BAL DUE AS OF 1 OCT	Calendar Year 2017															Calendar Year 2018												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P				
Urban Ops Platoon																																		
Prior Years Deliveries: 130																																		
	1	2015	ARMY (xxxviii)	180	180	-																												
	1	2016	ARMY (xxxix)	78	60	18	6	6	6																									
	1	2017	ARMY (xl)	48	-	48	A -	-	-	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4		
	2	2017	ARMY (xli)	10	-	10	A -	-	-	6	4																							
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P				

**UNCLASSIFIED**

<b>Exhibit P-21, Production Schedule:</b> PB 2017 Army		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 25		<b>P-1 Line Item Number / Title:</b> R70001 / Family Of Engr Combat and Construction Sets
<b>Item Number / Title [DODIC]:</b> R70120 / URBAN OPERATIONS, PLATOON SET		

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2017	1-8-5 For 2017	MAX For 2017	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	FEDERAL RESOURCE 1 - Stevensville	4	15	25	-	1	3	4	-	1	3	4
2	FEDERAL RESOURCE 2 - Stevensville	4	15	25	-	1	3	4	-	1	3	4

"A" in the Delivery Schedule indicates the Contract Award Date.

**Note:** Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

**Service/Agency Suffixes:**

- (XXXVIII) BASE
- (XXXIX) BASE
- (XL) BASE
- (XLI) OCO

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 25	<b>P-1 Line Item Number / Title:</b> R70001 / Family Of Engr Combat and Construction Sets	<b>Item Number / Title [DODIC]:</b> R70130 / URBAN OPERATIONS, SQUAD SET

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	448	302	187	136	129	265
Gross/Weapon System Cost (\$ in Millions)	37.040	17.286	9.956	7.783	6.626	14.409
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	37.040	17.286	9.956	7.783	6.626	14.409
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	<b>37.040</b>	<b>17.286</b>	<b>9.956</b>	<b>7.783</b>	<b>6.626</b>	<b>14.409</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	82.679	57.238	53.241	57.228	51.364	54.374

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
Program Management	-	-	0.361	-	-	1.241	-	-	0.221	-	-	0.376	-	-	-	-	-	0.376
Engineering Support	-	-	0.799	-	-	0.200	-	-	0.100	-	-	0.060	-	-	-	-	-	0.060
Quality Assurance Support	-	-	0.316	-	-	0.200	-	-	0.018	-	-	0.030	-	-	-	-	-	0.030
Urban Ops Squad <sup>(†)</sup>	79.000	448	35.392	51.026	302	15.410	50.813	187	9.502	51.485	136	7.002	51.000	129	6.579	51.249	265	13.581
System Fielding Support	-	-	0.172	-	-	0.235	-	-	0.115	-	-	0.315	-	-	0.047	-	-	0.362
<i>Subtotal: Recurring Cost</i>	-	-	37.040	-	-	17.286	-	-	9.956	-	-	7.783	-	-	6.626	-	-	14.409
<i>Subtotal: Flyaway Cost</i>	-	-	37.040	-	-	17.286	-	-	9.956	-	-	7.783	-	-	6.626	-	-	14.409
<b>Gross/Weapon System Cost</b>	<b>82.679</b>	<b>448</b>	<b>37.040</b>	<b>57.238</b>	<b>302</b>	<b>17.286</b>	<b>53.241</b>	<b>187</b>	<b>9.956</b>	<b>57.228</b>	<b>136</b>	<b>7.783</b>	<b>51.364</b>	<b>129</b>	<b>6.626</b>	<b>54.374</b>	<b>265</b>	<b>14.409</b>

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	302	83	-	129	129
	Total Obligation Authority	17.286	4.424	-	6.626	6.626
ANG	Quantity	-	75	100	-	100
	Total Obligation Authority	-	3.976	5.723	-	5.723
AR	Quantity	-	29	36	-	36
	Total Obligation Authority	-	1.556	2.060	-	2.060

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<b>Exhibit P-5, Cost Analysis:</b> PB 2017 Army		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 25	<b>P-1 Line Item Number / Title:</b> R70001 / Family Of Engr Combat and Construction Sets	<b>Item Number / Title [DODIC]:</b> R70130 / URBAN OPERATIONS, SQUAD SET

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
<b>Total:</b>	<b>Quantity</b>	302	187	136	129	265
<b>Secondary Distribution</b>	<b>Total Obligation Authority</b>	17.286	9.956	7.783	6.626	14.409

(t) indicates the presence of a P-5a



**UNCLASSIFIED**

**Exhibit P-5a, Procurement History and Planning: PB 2017 Army** **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 25	<b>P-1 Line Item Number / Title:</b> R70001 / Family Of Engr Combat and Construction Sets	<b>Item Number / Title [DODIC]:</b> R70130 / URBAN OPERATIONS, SQUAD SET
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Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
Urban Ops Squad <sup>(†)</sup>		2015	FEDERAL RESOURCES / Stevensville, MD	C / FFP	TACOM WARREN, MI	Oct 2014	Dec 2014	302	51.026			
Urban Ops Squad <sup>(†)</sup>		2016	FEDERAL RESOURCES / Stevensville, MD	C / FFP	TACOM WARREN, MI	Oct 2015	Dec 2015	187	50.813			
Urban Ops Squad <sup>(†)</sup>		2017	FEDERAL RESOURCES / Stevensville, MD	C / FFP	TACOM WARREN, MI	Oct 2016	Dec 2016	136	50.794			
Urban Ops Squad <sup>(†)</sup>		2017	FEDERAL RESOURCES 2 / Stevensville, MD	C / FFP	TACOM, WARREN, MI	Oct 2016	Dec 2016	129	50.794			

<sup>(†)</sup> indicates the presence of a P-21

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**Exhibit P-21, Production Schedule:** PB 2017 Army **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 25	<b>P-1 Line Item Number / Title:</b> R70001 / Family Of Engr Combat and Construction Sets	<b>Item Number / Title [DODIC]:</b> R70130 / URBAN OPERATIONS, SQUAD SET
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2015												Fiscal Year 2016												BALANCE				
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2014	BAL DUE AS OF 1 OCT	Calendar Year 2015												Calendar Year 2016															
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P			
Urban Ops Squad																																		
Prior Years Deliveries: 448																																		
	1	2015	ARMY (XLII)	302	-	302	A	-	-	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	-
	1	2016	ARMY (XLIII)	187	-	187																												30
	1	2017	ARMY (XLIV)	136	-	136																												136
	2	2017	ARMY (XLV)	129	-	129																												129
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P				

**UNCLASSIFIED**

<b>Exhibit P-21, Production Schedule:</b> PB 2017 Army															<b>Date:</b> February 2016														
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 25										<b>P-1 Line Item Number / Title:</b> R70001 / Family Of Engr Combat and Construction Sets										<b>Item Number / Title [DODIC]:</b> R70130 / URBAN OPERATIONS, SQUAD SET									

Cost Elements <i>(Units in Each)</i>					Fiscal Year 2017														Fiscal Year 2018														B A L A N C E			
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2016	BAL DUE AS OF 1 OCT	Calendar Year 2017														Calendar Year 2018															
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P						
Urban Ops Squad																																				
Prior Years Deliveries: 448																																				
1	2015		ARMY (XLII)	302	302	-																														-
1	2016		ARMY (XLIII)	187	157	30	15	15																												-
1	2017		ARMY (XLIV)	136	-	136	A	-	-	11	11	11	11	11	11	11	11	11	11	13	13															-
2	2017		ARMY (XLV)	129	-	129	A	-	-	10	10	10	11	11	11	11	11	11	11	11	11															-
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P						

**UNCLASSIFIED**

<b>Exhibit P-21, Production Schedule:</b> PB 2017 Army		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 25		<b>P-1 Line Item Number / Title:</b> R70001 / Family Of Engr Combat and Construction Sets
<b>Item Number / Title [DODIC]:</b> R70130 / URBAN OPERATIONS, SQUAD SET		

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2017	1-8-5 For 2017	MAX For 2017	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	FEDERAL RESOURCES - Stevensville, MD	10	15	27	-	1	2	3	-	1	2	3
2	FEDERAL RESOURCES 2 - Stevensville, MD	10	15	27	-	1	2	3	-	1	2	3

"A" in the Delivery Schedule indicates the Contract Award Date.

**Note:** Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

**Service/Agency Suffixes:**

- (XLI) BASE
- (XLII) BASE
- (XLIII) BASE
- (XLIV) BASE
- (XLV) OCO

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>													<b>Date:</b> February 2016																						
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 25						<b>P-1 Line Item Number / Title:</b> R70001 / Family Of Engr Combat and Construction Sets						<b>Item Number / Title [DODIC]:</b> R70170 / Vertical Skills Engr Const Kit: Type VI																							
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :										<b>MDAP/MAIS Code:</b>																									
<b>Resource Summary</b>				<b>Prior Years</b>		<b>FY 2015</b>		<b>FY 2016</b>		<b>FY 2017 Base</b>		<b>FY 2017 OCO</b>		<b>FY 2017 Total</b>																					
Procurement Quantity (Units in Each)				-		-		-		53		-		53																					
Gross/Weapon System Cost (\$ in Millions)				-		-		-		0.977		-		0.977																					
Less PY Advance Procurement (\$ in Millions)				-		-		-		-		-		-																					
Net Procurement (P-1) (\$ in Millions)				-		-		-		0.977		-		0.977																					
Plus CY Advance Procurement (\$ in Millions)				-		-		-		-		-		-																					
<b>Total Obligation Authority (\$ in Millions)</b>				-		-		-		<b>0.977</b>		-		<b>0.977</b>																					
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>																																			
Initial Spares (\$ in Millions)				-		-		-		-		-		-		-																			
Gross/Weapon System Unit Cost (\$ in Thousands)				-		-		-		18.434		-		18.434																					
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																																			
<b>Cost Elements</b>	<b>Prior Years</b>			<b>FY 2015</b>			<b>FY 2016</b>			<b>FY 2017 Base</b>			<b>FY 2017 OCO</b>			<b>FY 2017 Total</b>																			
	<b>Unit Cost</b> (\$ K)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ K)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ K)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ K)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ K)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ K)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)																	
Flyaway Cost																																			
Recurring Cost																																			
Program Management	-	-	-	-	-	-	-	-	-	-	-	0.033	-	-	-	-	-	0.033																	
Quality Assurance	-	-	-	-	-	-	-	-	-	-	-	0.003	-	-	-	-	-	0.003																	
Engineering	-	-	-	-	-	-	-	-	-	-	-	0.003	-	-	-	-	-	0.003																	
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	-	<i>0.039</i>	-	-	-	-	-	<i>0.039</i>																	
<i>Subtotal: Flyaway Cost</i>	-	-	-	-	-	-	-	-	-	-	-	<i>0.039</i>	-	-	-	-	-	<i>0.039</i>																	
Hardware Cost																																			
Recurring Cost																																			
Hardware	-	-	-	-	-	-	-	-	-	17.094	53	0.906	-	-	-	17.094	53	0.906																	
TPF	-	-	-	-	-	-	-	-	-	-	-	0.030	-	-	-	-	-	0.030																	
Transportation	-	-	-	-	-	-	-	-	-	-	-	0.002	-	-	-	-	-	0.002																	
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	-	<i>0.938</i>	-	-	-	-	-	<i>0.938</i>																	
<i>Subtotal: Hardware Cost</i>	-	-	-	-	-	-	-	-	-	-	-	<i>0.938</i>	-	-	-	-	-	<i>0.938</i>																	
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	-	-	-	-	<b>18.434</b>	<b>53</b>	<b>0.977</b>	-	-	-	<b>18.434</b>	<b>53</b>	<b>0.977</b>																	
<b>Secondary Distribution</b>						<b>FY 2015</b>			<b>FY 2016</b>			<b>FY 2017 Base</b>			<b>FY 2017 OCO</b>			<b>FY 2017 Total</b>																	
Army						Quantity						21						-						21											
						Total Obligation Authority						-						-						0.381						-					

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<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 25	<b>P-1 Line Item Number / Title:</b> R70001 / Family Of Engr Combat and Construction Sets	<b>Item Number / Title [DODIC]:</b> R70170 / Vertical Skills Engr Const Kit: Type VI

**ID Code** (A=Service Ready, B=Not Service Ready) : \_\_\_\_\_ **MDAP/MAIS Code:** \_\_\_\_\_

<b>Secondary Distribution</b>		<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>
ANG	Quantity	-	-	16	-	16
	Total Obligation Authority	-	-	0.298	-	0.298
AR	Quantity	-	-	16	-	16
	Total Obligation Authority	-	-	0.298	-	0.298
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	-	-	<b>53</b>	-	<b>53</b>
	<b>Total Obligation Authority</b>	-	-	<b>0.977</b>	-	<b>0.977</b>

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<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 25	<b>P-1 Line Item Number / Title:</b> R70001 / Family Of Engr Combat and Construction Sets	<b>Item Number / Title [DODIC]:</b> R70180 / Vertical Skills Engr Const Kit: Type V

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	-	-	-	23	-	23
Gross/Weapon System Cost (\$ in Millions)	-	-	-	0.639	-	0.639
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	-	-	0.639	-	0.639
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	-	-	-	<b>0.639</b>	-	<b>0.639</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	27.783	-	27.783

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
Quality Assurance	-	-	-	-	-	-	-	-	-	-	-	0.001	-	-	-	-	-	0.001
Engineering	-	-	-	-	-	-	-	-	-	-	-	0.005	-	-	-	-	-	0.005
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	-	0.006	-	-	-	-	-	0.006
<i>Subtotal: Flyaway Cost</i>	-	-	-	-	-	-	-	-	-	-	-	0.006	-	-	-	-	-	0.006
Hardware Cost																		
Recurring Cost																		
VSECK Type V	-	-	-	-	-	-	-	-	-	26.826	23	0.617	-	-	-	26.826	23	0.617
TPF	-	-	-	-	-	-	-	-	-	-	-	0.010	-	-	-	-	-	0.010
Transportation	-	-	-	-	-	-	-	-	-	-	-	0.006	-	-	-	-	-	0.006
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	-	0.633	-	-	-	-	-	0.633
<i>Subtotal: Hardware Cost</i>	-	-	-	-	-	-	-	-	-	-	-	0.633	-	-	-	-	-	0.633
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	-	-	-	-	27.783	23	0.639	-	-	-	27.783	23	0.639

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	-	-	9	-	9
	Total Obligation Authority	-	-	0.249	-	0.249
ANG	Quantity	-	-	7	-	7

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis:</b> PB 2017 Army		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 25	<b>P-1 Line Item Number / Title:</b> R70001 / Family Of Engr Combat and Construction Sets	<b>Item Number / Title [DODIC]:</b> R70180 / Vertical Skills Engr Const Kit: Type V

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
	Total Obligation Authority	-	-	0.195	-	0.195
AR	Quantity	-	-	7	-	7
	Total Obligation Authority	-	-	0.195	-	0.195
<b>Total:</b>	<b>Quantity</b>	-	-	<b>23</b>	-	<b>23</b>
<b>Secondary Distribution</b>	<b>Total Obligation Authority</b>	-	-	<b>0.639</b>	-	<b>0.639</b>



**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>													<b>Date:</b> February 2016						
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 25						<b>P-1 Line Item Number / Title:</b> R70001 / Family Of Engr Combat and Construction Sets						<b>Item Number / Title [DODIC]:</b> R70185 / Vertical Skills Engr Const Kit: Type IV							
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :										<b>MDAP/MAIS Code:</b>									
<b>Resource Summary</b>				<b>Prior Years</b>		<b>FY 2015</b>			<b>FY 2016</b>			<b>FY 2017 Base</b>			<b>FY 2017 OCO</b>		<b>FY 2017 Total</b>		
Procurement Quantity (Units in Each)				-		-			-			20			-		20		
Gross/Weapon System Cost (\$ in Millions)				-		-			-			0.294			-		0.294		
Less PY Advance Procurement (\$ in Millions)				-		-			-			-			-		-		
Net Procurement (P-1) (\$ in Millions)				-		-			-			0.294			-		0.294		
Plus CY Advance Procurement (\$ in Millions)				-		-			-			-			-		-		
<b>Total Obligation Authority (\$ in Millions)</b>				-		-			-			<b>0.294</b>			-		<b>0.294</b>		
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>																			
Initial Spares (\$ in Millions)				-		-			-			-			-		-		
Gross/Weapon System Unit Cost (\$ in Thousands)				-		-			-			14.700			-		14.700		
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																			
<b>Cost Elements</b>		<b>Prior Years</b>			<b>FY 2015</b>			<b>FY 2016</b>			<b>FY 2017 Base</b>			<b>FY 2017 OCO</b>			<b>FY 2017 Total</b>		
		<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>
Flyaway Cost																			
Recurring Cost																			
Program Management		-	-	-	-	-	-	-	-	-	-	0.018	-	-	-	-	-	0.018	
Quality Assurance		-	-	-	-	-	-	-	-	-	-	0.002	-	-	-	-	-	0.002	
Engineering		-	-	-	-	-	-	-	-	-	-	0.003	-	-	-	-	-	0.003	
<i>Subtotal: Recurring Cost</i>		-	-	-	-	-	-	-	-	-	-	<i>0.023</i>	-	-	-	-	-	<i>0.023</i>	
<i>Subtotal: Flyaway Cost</i>		-	-	-	-	-	-	-	-	-	-	<b>0.023</b>	-	-	-	-	-	<b>0.023</b>	
Hardware Cost																			
Recurring Cost																			
VSECK TYPE IV		-	-	-	-	-	-	-	-	12.550	20	0.251	-	-	-	12.550	20	0.251	
TPF		-	-	-	-	-	-	-	-	-	-	0.018	-	-	-	-	-	0.018	
TRANSPORTATION		-	-	-	-	-	-	-	-	-	-	0.002	-	-	-	-	-	0.002	
<i>Subtotal: Recurring Cost</i>		-	-	-	-	-	-	-	-	-	-	<i>0.271</i>	-	-	-	-	-	<i>0.271</i>	
<i>Subtotal: Hardware Cost</i>		-	-	-	-	-	-	-	-	-	-	<b>0.271</b>	-	-	-	-	-	<b>0.271</b>	
<b>Gross/Weapon System Cost</b>		-	-	-	-	-	-	-	-	<b>14.700</b>	<b>20</b>	<b>0.294</b>	-	-	-	<b>14.700</b>	<b>20</b>	<b>0.294</b>	
<b>Secondary Distribution</b>						<b>FY 2015</b>			<b>FY 2016</b>			<b>FY 2017 Base</b>			<b>FY 2017 OCO</b>		<b>FY 2017 Total</b>		
Army		Quantity				-			-			8			-		8		
		Total Obligation Authority				-			-			0.116			-		0.116		

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 25	<b>P-1 Line Item Number / Title:</b> R70001 / Family Of Engr Combat and Construction Sets	<b>Item Number / Title [DODIC]:</b> R70185 / Vertical Skills Engr Const Kit: Type IV

**ID Code** (A=Service Ready, B=Not Service Ready) : \_\_\_\_\_ **MDAP/MAIS Code:** \_\_\_\_\_

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
ANG	Quantity	-	-	6	-	6
	Total Obligation Authority	-	-	0.090	-	0.090
AR	Quantity	-	-	6	-	6
	Total Obligation Authority	-	-	0.088	-	0.088
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	-	-	<b>20</b>	-	<b>20</b>
	<b>Total Obligation Authority</b>	-	-	<b>0.294</b>	-	<b>0.294</b>

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>													<b>Date:</b> February 2016					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 25						<b>P-1 Line Item Number / Title:</b> R70001 / Family Of Engr Combat and Construction Sets						<b>Item Number / Title [DODIC]:</b> R70195 / Vertical Skills Engr Const Kit: Type III						
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :										<b>MDAP/MAIS Code:</b>								
<b>Resource Summary</b>				<b>Prior Years</b>		<b>FY 2015</b>			<b>FY 2016</b>			<b>FY 2017 Base</b>			<b>FY 2017 OCO</b>		<b>FY 2017 Total</b>	
Procurement Quantity (Units in Each)				-		-			-			20			-		20	
Gross/Weapon System Cost (\$ in Millions)				-		-			-			0.473			-		0.473	
Less PY Advance Procurement (\$ in Millions)				-		-			-			-			-		-	
Net Procurement (P-1) (\$ in Millions)				-		-			-			0.473			-		0.473	
Plus CY Advance Procurement (\$ in Millions)				-		-			-			-			-		-	
<b>Total Obligation Authority (\$ in Millions)</b>				-		-			-			<b>0.473</b>			-		<b>0.473</b>	
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>																		
Initial Spares (\$ in Millions)				-		-			-			-			-		-	
Gross/Weapon System Unit Cost (\$ in Thousands)				-		-			-			23.650			-		23.650	
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
<b>Cost Elements</b>	<b>Prior Years</b>			<b>FY 2015</b>			<b>FY 2016</b>			<b>FY 2017 Base</b>			<b>FY 2017 OCO</b>			<b>FY 2017 Total</b>		
	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>
Flyaway Cost																		
Recurring Cost																		
Program Management	-	-	-	-	-	-	-	-	-	-	-	0.006	-	-	-	-	-	0.006
Quality Assurance	-	-	-	-	-	-	-	-	-	-	-	0.002	-	-	-	-	-	0.002
Engineering	-	-	-	-	-	-	-	-	-	-	-	0.003	-	-	-	-	-	0.003
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	-	<i>0.011</i>	-	-	-	-	-	<i>0.011</i>
<i>Subtotal: Flyaway Cost</i>	-	-	-	-	-	-	-	-	-	-	-	<i>0.011</i>	-	-	-	-	-	<i>0.011</i>
Hardware Cost																		
Recurring Cost																		
VSECK Type III	-	-	-	-	-	-	-	-	-	22.800	20	0.456	-	-	-	22.800	20	0.456
TPF	-	-	-	-	-	-	-	-	-	-	-	0.004	-	-	-	-	-	0.004
Transportation	-	-	-	-	-	-	-	-	-	-	-	0.002	-	-	-	-	-	0.002
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	-	<i>0.462</i>	-	-	-	-	-	<i>0.462</i>
<i>Subtotal: Hardware Cost</i>	-	-	-	-	-	-	-	-	-	-	-	<i>0.462</i>	-	-	-	-	-	<i>0.462</i>
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	-	-	-	-	<b>23.650</b>	<b>20</b>	<b>0.473</b>	-	-	-	<b>23.650</b>	<b>20</b>	<b>0.473</b>
<b>Secondary Distribution</b>						<b>FY 2015</b>			<b>FY 2016</b>			<b>FY 2017 Base</b>			<b>FY 2017 OCO</b>		<b>FY 2017 Total</b>	
Army						Quantity						8			-		8	
						Total Obligation Authority						-			-			0.185

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 25	<b>P-1 Line Item Number / Title:</b> R70001 / Family Of Engr Combat and Construction Sets	<b>Item Number / Title [DODIC]:</b> R70195 / Vertical Skills Engr Const Kit: Type III

**ID Code** (A=Service Ready, B=Not Service Ready) : \_\_\_\_\_ **MDAP/MAIS Code:** \_\_\_\_\_

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
ANG	Quantity	-	-	6	-	6
	Total Obligation Authority	-	-	0.144	-	0.144
AR	Quantity	-	-	6	-	6
	Total Obligation Authority	-	-	0.144	-	0.144
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	-	-	<b>20</b>	-	<b>20</b>
	<b>Total Obligation Authority</b>	-	-	<b>0.473</b>	-	<b>0.473</b>

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>													<b>Date:</b> February 2016						
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 25						<b>P-1 Line Item Number / Title:</b> R70001 / Family Of Engr Combat and Construction Sets						<b>Item Number / Title [DODIC]:</b> R70196 / Vertical Skills Engr Const Kit: Type II							
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :										<b>MDAP/MAIS Code:</b>									
<b>Resource Summary</b>				<b>Prior Years</b>		<b>FY 2015</b>			<b>FY 2016</b>			<b>FY 2017 Base</b>			<b>FY 2017 OCO</b>		<b>FY 2017 Total</b>		
Procurement Quantity (Units in Each)				-		-			-			27			-		27		
Gross/Weapon System Cost (\$ in Millions)				-		-			-			0.350			-		0.350		
Less PY Advance Procurement (\$ in Millions)				-		-			-			-			-		-		
Net Procurement (P-1) (\$ in Millions)				-		-			-			0.350			-		0.350		
Plus CY Advance Procurement (\$ in Millions)				-		-			-			-			-		-		
<b>Total Obligation Authority (\$ in Millions)</b>				-		-			-			<b>0.350</b>			-		<b>0.350</b>		
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>																			
Initial Spares (\$ in Millions)				-		-			-			-			-		-		
Gross/Weapon System Unit Cost (\$ in Thousands)				-		-			-			12.963			-		12.963		
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																			
<b>Cost Elements</b>		<b>Prior Years</b>			<b>FY 2015</b>			<b>FY 2016</b>			<b>FY 2017 Base</b>			<b>FY 2017 OCO</b>			<b>FY 2017 Total</b>		
		<b>Unit Cost</b> (\$ K)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ K)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ K)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ K)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ K)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ K)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)
Flyaway Cost																			
Recurring Cost																			
Program Management		-	-	-	-	-	-	-	-	-	-	0.018	-	-	-	-	-	0.018	
Quality Assurance		-	-	-	-	-	-	-	-	-	-	0.002	-	-	-	-	-	0.002	
Engineering		-	-	-	-	-	-	-	-	-	-	0.003	-	-	-	-	-	0.003	
<i>Subtotal: Recurring Cost</i>		-	-	-	-	-	-	-	-	-	-	<i>0.023</i>	-	-	-	-	-	<i>0.023</i>	
<i>Subtotal: Flyaway Cost</i>		-	-	-	-	-	-	-	-	-	-	<b>0.023</b>	-	-	-	-	-	<b>0.023</b>	
Hardware Cost																			
Recurring Cost																			
VSECK TYPE II		-	-	-	-	-	-	-	-	10.481	27	0.283	-	-	-	10.481	27	0.283	
TPF		-	-	-	-	-	-	-	-	-	-	0.042	-	-	-	-	-	0.042	
Transportation		-	-	-	-	-	-	-	-	-	-	0.002	-	-	-	-	-	0.002	
<i>Subtotal: Recurring Cost</i>		-	-	-	-	-	-	-	-	-	-	<i>0.327</i>	-	-	-	-	-	<i>0.327</i>	
<i>Subtotal: Hardware Cost</i>		-	-	-	-	-	-	-	-	-	-	<b>0.327</b>	-	-	-	-	-	<b>0.327</b>	
<b>Gross/Weapon System Cost</b>		-	-	-	-	-	-	-	-	<b>12.963</b>	<b>27</b>	<b>0.350</b>	-	-	-	<b>12.963</b>	<b>27</b>	<b>0.350</b>	
<b>Secondary Distribution</b>						<b>FY 2015</b>			<b>FY 2016</b>			<b>FY 2017 Base</b>			<b>FY 2017 OCO</b>		<b>FY 2017 Total</b>		
Army						Quantity			-			11			-		11		
						Total Obligation Authority			-			0.136			-		0.136		

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 25	<b>P-1 Line Item Number / Title:</b> R70001 / Family Of Engr Combat and Construction Sets	<b>Item Number / Title [DODIC]:</b> R70196 / Vertical Skills Engr Const Kit: Type II

**ID Code** (A=Service Ready, B=Not Service Ready) : \_\_\_\_\_ **MDAP/MAIS Code:** \_\_\_\_\_

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
ANG	Quantity	-	-	8	-	8
	Total Obligation Authority	-	-	0.107	-	0.107
AR	Quantity	-	-	8	-	8
	Total Obligation Authority	-	-	0.107	-	0.107
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	-	-	<b>27</b>	-	<b>27</b>
	<b>Total Obligation Authority</b>	-	-	<b>0.350</b>	-	<b>0.350</b>

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 25	<b>P-1 Line Item Number / Title:</b> R70001 / Family Of Engr Combat and Construction Sets	<b>Item Number / Title [DODIC]:</b> R70198 / Vertical Skills Engr Const Kit: Type I

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	-	-	-	46	15	61
Gross/Weapon System Cost (\$ in Millions)	-	-	-	0.288	0.090	0.378
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	-	-	0.288	0.090	0.378
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	-	-	-	<b>0.288</b>	<b>0.090</b>	<b>0.378</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	6.261	6.000	6.197

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
Program Management	-	-	-	-	-	-	-	-	-	-	-	0.002	-	-	-	-	-	0.002
Quality Assurance	-	-	-	-	-	-	-	-	-	-	-	0.002	-	-	-	-	-	0.002
Engineering	-	-	-	-	-	-	-	-	-	-	-	0.003	-	-	-	-	-	0.003
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	-	<i>0.007</i>	-	-	-	-	-	<i>0.007</i>
<i>Subtotal: Flyaway Cost</i>	-	-	-	-	-	-	-	-	-	-	-	<i>0.007</i>	-	-	-	-	-	<i>0.007</i>
Hardware Cost																		
Recurring Cost																		
VSECK Type I	-	-	-	-	-	-	-	-	-	6.000	46	0.276	6.000	15	0.090	6.000	61	0.366
TPF	-	-	-	-	-	-	-	-	-	-	-	0.003	-	-	-	-	-	0.003
Transportation	-	-	-	-	-	-	-	-	-	-	-	0.002	-	-	-	-	-	0.002
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	-	<i>0.281</i>	-	-	<i>0.090</i>	-	-	<i>0.371</i>
<i>Subtotal: Hardware Cost</i>	-	-	-	-	-	-	-	-	-	-	-	<i>0.281</i>	-	-	<i>0.090</i>	-	-	<i>0.371</i>
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	-	-	-	-	<b>6.261</b>	<b>46</b>	<b>0.288</b>	<b>6.000</b>	<b>15</b>	<b>0.090</b>	<b>6.197</b>	<b>61</b>	<b>0.378</b>

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	-	-	18	15	33
	Total Obligation Authority	-	-	0.114	0.090	0.204

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 25	<b>P-1 Line Item Number / Title:</b> R70001 / Family Of Engr Combat and Construction Sets	<b>Item Number / Title [DODIC]:</b> R70198 / Vertical Skills Engr Const Kit: Type I

**ID Code** (A=Service Ready, B=Not Service Ready) : \_\_\_\_\_ **MDAP/MAIS Code:** \_\_\_\_\_

<b>Secondary Distribution</b>		<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>
ANG	Quantity	-	-	14	-	14
	Total Obligation Authority	-	-	0.087	-	0.087
AR	Quantity	-	-	14	-	14
	Total Obligation Authority	-	-	0.087	-	0.087
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	-	-	<b>46</b>	<b>15</b>	<b>61</b>
	<b>Total Obligation Authority</b>	-	-	<b>0.288</b>	<b>0.090</b>	<b>0.378</b>



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**Exhibit P-40, Budget Line Item Justification:** PB 2017 Army **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 25: Combat Service Support Equipment	<b>P-1 Line Item Number / Title:</b> ML5301 / Items Less Than \$5M (Eng Spt)
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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<b>Line Item MDAP/MAIS Code:</b> N/A	<b>Item MDAP/MAIS Code(s):</b> N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
<i>Procurement Quantity (Units in Each)</i>	1,371	522	1	-	20	20	-	-	-	-	Continuing	Continuing
<i>Gross/Weapon System Cost (\$ in Millions)</i>	217.784	16.072	0.595	-	0.300	0.300	-	-	-	-	Continuing	Continuing
<i>Less PY Advance Procurement (\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
<i>Net Procurement (P-1) (\$ in Millions)</i>	217.784	16.072	0.595	-	0.300	0.300	-	-	-	-	Continuing	Continuing
<i>Plus CY Advance Procurement (\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	<b>217.784</b>	<b>16.072</b>	<b>0.595</b>	-	<b>0.300</b>	<b>0.300</b>	-	-	-	-	<b>Continuing</b>	<b>Continuing</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

<i>Initial Spares (\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
<i>Flyaway Unit Cost (\$ in Thousands)</i>	-	-	-	-	-	-	-	-	-	-	-	-
<i>Gross/Weapon System Unit Cost (\$ in Thousands)</i>	158.850	30.789	595.000	-	15.000	15.000	-	-	-	-	Continuing	Continuing

**Description:**

**Underwater Construction Set (UCS):** The Underwater Construction Set (UCS) provides the MOS 12D Diver the tools and equipment required to support all Engineer Diving operations and will reduce the footprint of the legacy set from five individual containers (QUADCON) to four. The UCS includes the following packages: Salvage package used for lifting heavy debris and recovering objects up to 160,000 pounds; Cutting and welding package used for underwater and surface operations; Reconnaissance package with increased capability using Instrument Set, Reconnaissance and Surveying (ENFIRE); Hydraulic tool package used for construction/debris removal and cutting concrete, wood, and metal; and Hand tools and hardware package for surface construction and support tools. Army Acquisition Objective (AAO) for UCS is 5.

**Firefighting Protection Equipment (FPE):** The Firefighter Protection Equipment (FPE) is a superior firefighting capability used in critical life and equipment saving situations due to Improvised Explosive Devices (IED) and battle damage. FPE is employed by soldiers as an immediate means to combat vehicle convoy fires and conduct rescue operations to extract trapped and injured soldiers from burning and damaged vehicles. FPE suppresses fires faster which will minimize fire damage and loss of equipment. The FPE set has been given a Joint Designator to support the Army as well as other services. FPE consists three types: Type 1 is a Soldier-portable firefighting set; Type 2 is a skid mounted system, with dual side rails to enhance mobility, capable of being used as a ground or vehicle mounted set; Type 3 is a larger set capable of being mounted as a secondary load to army vehicles or trailers. All three types of FPE provide a superior fire suppression capability for convoy operations in all combat, garrison operations and in all terrain and conditions. FPE equipment supports mounted and dismounted soldiers by increasing firefighting suppression capability at the immediate point of need. Army Acquisition Objective (AAO) is: Type I 9301, Type II 2048, Type III 543.

**Firefighter Individual Requirements Equipment Set (FIRES):** The Firefighter Individual Requirements Equipment Set (FIRES) is an assembly of standardized critical life saving fire fighting suits and equipment consisting of a Structural, Aircraft and Wildland fire fighting set to support the MOS 12M Army and Department of Defense (DoD) Firefighters. The FIRES equipment provides the Soldier/DoD Firefighter with the capability to safely conduct life, equipment and property saving fire fighting missions in all terrain, conditions, combat operations, garrison environments and disaster relief support. The FIRES has the deployability, transportability, versatility and functionality to support early entry expeditionary forces, counter- IED operations, and battle damaged equipment recovery. FIRES provides rapid fire fighting capability to commanders at Combat Operating Bases (COB), Forward Operating Bases (FOB) Camp/Station to support all military and sustainment operations. Army Acquisition Objective (AAO) for FIRES is 868.

**Family of High Pressure Breathing Air Compressors (FoHPBAC):** The Family of High Pressure Breathing Air Compressors (FoHPBAC) will provide pure breathing air in support of the Self Contained Underwater Breathing Apparatus (SCUBA), Surface Supplied Diving operations, Fire Fighting Missions, and Chemical operations. This set will serve to replace and modernize current equipment and provide current and safe technology for these critical life support systems and supports the following MOS: Engineer Diver (12D), Special Forces Diver (18 series), Rangers combat diver, and 21M Fire Fighters. The FoHPBAC is

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**Exhibit P-40, Budget Line Item Justification:** PB 2017 Army **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 25: Combat Service Support Equipment	<b>P-1 Line Item Number / Title:</b> ML5301 / Items Less Than \$5M (Eng Spt)
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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<b>Line Item MDAP/MAIS Code:</b> N/A	<b>Item MDAP/MAIS Code(s):</b> N/A
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100% commercial off the shelf and will consist of three different compressor variants: Type I 26 Cubic Feet per Minute (CFM), 5000 Pounds per Square Inch (PSI) compressor; Type II Diving 6.0 CFM 5000 PSI compressor; and Type II Fire 6.0 CFM 5000 PSI CFM 5000 PSI compressor with blast cabinet. Army Acquisition Objective (AAO) for FoHPBAC; Type I 12, Type II Diving 40, and Type II Fire 118.

**Family of Boats & Motors (FoBaM):** The Family Boats and Motors (FoBaM) will replace current outdated legacy systems and support both engineer and special forces in a variety of operations such as: assault landings; reconnaissance and river crossing operations; infiltration and exfiltration; long-range surveillance; amphibious raid, surface swimming, dive, submarine, ravine, anti-mine, bridging, and air operations; underwater construction; underwater repair work; dam and pier repairs; light salvage; and humanitarian aid/disaster relief. The FoBaM will consist of a 3-Person Pneumatic Combat Reconnaissance Craft(P-CRC), 7-Person Inflatable Combat Raiding Craft (I-CRC), 15-Person Inflatable Combat Assault Craft (I-CAC), I-CRC Submersible Outboard Motor, I-CAC Submersible Outboard Motor, and a Rigid Inflatable Combat Support Craft (RI-CSC). Army Acquisition Objective (AAO) for FoBaM is: 7-person I-CRC 922, 15-person I-CAC 528, I-CRC Outboard Motor 922, I-CAC Outboard Motor 528, and RI-CSC 29. In FY16, funds in this program are realigned to Family of Boats and Motors, SSN R12001 for more efficient, effective program management.

**Deep Sea Set (DSS):** The Deep Sea Set provides diver-worn critical life support and safety related equipment required to conduct surface supplied diving operations in accordance with all commercial and military safety standards. It includes a full helmet diving assembly that provides air, and protection from pollution, falling debris, and other hazards. It allows for communications with the surface in a dry environment, and is required equipment for construction, cutting and welding, and salvage operations. The set also includes an umbilical assembly that supplies breathing air, depth monitoring and a communications/strength member capable of supporting the diver's weight. The communications assembly allows three divers and the diving supervisor to communicate. The set can be used to a depth of 250 feet and is the only system that protects the diver while conducting heavy construction and salvage operations. Army Acquisition Objective (AAO) for DSS is 6. In FY16, funds for this program are realigned to Family of Diver Support Equipment, SSN R07005 for more efficient, effective program management.

**Diving Equipment:** The critical life support and safety related sets include Underwater Construction Set; Underwater Photo Set; Supervisor, Propulsion, Emergency and Recovery Set (SPEARS) Set; Surface Swimmer Support Set; Individual Swimmer Support Set; Deep Sea Set; and Closed & Open Circuit Set. Engineer divers support Corps/Theater level operations as a force multiplier by performing current diving missions in South West Asia to include debris removal, bridge construction, salvage operations, underwater mine and explosive detection, and personnel recovery operations. Special operations dive teams use the sets for clandestine combat waterborne infiltration/ex-filtration and to aid in search and recovery operations.

**Pioneer Land Clearing and Building Erection Set:** Provides safety equipment for working above ground and for chain saw operation. The set is configured with individual hand and pioneer tools to enable engineer squads to perform individual and collective tasks in a timely manner, such as construction of field fortifications and protective shelters; construction operations in restricted terrain, construction of individual Soldier and critical asset survivability positions; obstacle emplacement and obstacle marking. Army Acquisition Objective (AAO) for Pioneer Land Clearing and Building Erection set is 805.

**Vertical Skills Engineer Construction Kit (VSECK):** The VSECK effort combines eight existing sets into a family of six systems which include hand and power tools used by carpenters, plumbers, pipefitters, electricians, and concrete & masonry craftsmen. VSECK systems leverage the latest in technological advances to support tactical missions providing means for security, stability, transition and reconstruction across Unified Land Operations. The family of VSECK enables Soldiers to efficiently respond to catastrophic events requiring humanitarian aid by enabling civil authority and shaping recovery efforts. Army Acquisition Objective (AAO) for VSECK is: Type I - Carpenters Tool Kit Squad (CTKS) 5,517; Type II - Carpenters Supplemental Tool Kit (CSTK) 830; Type III - Carpenters Tool Kit (CTK) 314; Type IV - Electricians Tool Kit (ETK) 928; Type V - Mason & Concrete Tool Kit (MCTK) 892; Type VI - Plumbers & Pipefitters Tool Kit (PPTK) 898. In FY17, VSECK will move to Engineer Combat and Construction Sets (ECACS), SSN R70001 for more efficient, effective program management.

This buys a variety of critical life support equipment such as; diving equipment, fire suppression sets, and soldier portable Engineer kits.

<b>Secondary Distribution</b>		<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>
Army	Quantity	522	1	-	20	20	-	-	-	-
	Total Obligation Authority	16.072	0.595	-	0.300	0.300	-	-	-	-
<b>Total:</b>	<b>Quantity</b>	<b>522</b>	<b>1</b>	<b>-</b>	<b>20</b>	<b>20</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

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**Exhibit P-40, Budget Line Item Justification:** PB 2017 Army **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 25: Combat Service Support Equipment	<b>P-1 Line Item Number / Title:</b> ML5301 / Items Less Than \$5M (Eng Spt)
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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<b>Line Item MDAP/MAIS Code:</b> N/A	<b>Item MDAP/MAIS Code(s):</b> N/A
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Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Secondary Distribution	Total Obligation Authority	16.072	0.595	-	0.300	0.300	-	-	-	-

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**Exhibit P-40, Budget Line Item Justification:** PB 2017 Army **Date:** February 2016

**Appropriation / Budget Activity / Budget Sub Activity:**  
 2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 25:  
 Combat Service Support Equipment

**P-1 Line Item Number / Title:**  
 ML5301 / Items Less Than \$5M (Eng Spt)

**ID Code** (A=Service Ready, B=Not Service Ready): **Program Elements for Code B Items:** N/A **Other Related Program Elements:** N/A

**Line Item MDAP/MAIS Code:** N/A **Item MDAP/MAIS Code(s):** N/A

Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	ML5301 / Items Less Than \$5M (Eng Spt)			1,371 / 217.784	522 / 16.072	1 / 0.595	- / -	20 / 0.300	20 / 0.300
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>			<b>1,371 / 217.784</b>	<b>522 / 16.072</b>	<b>1 / 0.595</b>	<b>- / -</b>	<b>20 / 0.300</b>	<b>20 / 0.300</b>

\*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

**Justification:**  
 There is no FY17 Base procurement funds to support this program.

The FY17 OCO includes \$.300 million to support the Combatant Command (COCOM) requirement for unit equipment sets to deter potential adversaries and support the European Reassurance Initiatives. The procurement include 20 7-man Boats.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), these items are necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

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<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 25		<b>P-1 Line Item Number / Title:</b> ML5301 / Items Less Than \$5M (Eng Spt)
		<b>Item Number / Title [DODIC]:</b> ML5301 / Items Less Than \$5M (Eng Spt)

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	1,371	522	1	-	20	20
Gross/Weapon System Cost (\$ in Millions)	217.784	16.072	0.595	-	0.300	0.300
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	217.784	16.072	0.595	-	0.300	0.300
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	<b>217.784</b>	<b>16.072</b>	<b>0.595</b>	<b>-</b>	<b>0.300</b>	<b>0.300</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	158.850	30.789	595.000	-	15.000	15.000

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
<b>Hardware Cost</b>																		
<b>Recurring Cost</b>																		
Firefighter Individual Requirements	-	-	13.982	14.692	107	1.572	-	-	-	-	-	-	-	-	-	-	-	-
Deep Sea Set	-	-	2.700	250.000	5	1.250	-	-	-	-	-	-	-	-	-	-	-	-
15 persn Inflatable Combat Assault Craft	-	-	-	17.636	110	1.940	-	-	-	-	-	-	-	-	-	-	-	-
15 person I-CAC Outboard Motor	-	-	-	26.750	32	0.856	-	-	-	-	-	-	-	-	-	-	-	-
7 person Inflatable Combat Raiding Craft	-	-	-	13.867	294	4.077	-	-	-	-	-	-	14.000	20	0.280	14.000	20	0.280
7 person I-CRC Outboard Motor	-	-	-	13.117	307	4.027	-	-	-	-	-	-	-	-	-	-	-	-
Underwater Construction Set	-	-	9.998	353.000	4	1.412	561.000	1	0.561	-	-	-	-	-	-	-	-	-
FoHPBAC - Air Compressor Type I	-	-	1.287	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FoHPBAC - Air Compressor Type II Fire	-	-	5.055	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FoHPBAC - Air Compressor Type II Diving	-	-	2.807	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Firefighting Protection Equipment	-	-	2.399	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 25		<b>P-1 Line Item Number / Title:</b> ML5301 / Items Less Than \$5M (Eng Spt)
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :		<b>MDAP/MAIS Code:</b>

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Air Compressor (Diving)	-	-	3.972	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pioneer Support Set W48074	-	-	5.687	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pioneer Sapper Set W59240	-	-	5.303	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pioneer Land Cling and Bldg Erect	-	-	13.535	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hazard ID and Marking Set M49483	-	-	9.825	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Assault Boats-7 Manned	-	-	4.321	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Outboard Motors-7 Manned	-	-	4.321	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Assault Boats-15 Manned	-	-	4.321	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Outboard Motors-15 Manned	-	-	5.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carpenter Support Tool Kit, CSTK	-	-	6.467	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DES, Closed Circuit	-	-	1.035	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hydraulic-Electric-Pneumatic-POE	-	-	10.959	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Urban Operations-Platoon Kit	-	-	10.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Urban Operations-Squad Set	-	-	17.689	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pipefitters Kit	-	-	15.982	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carpenter Tool Kit (CTK) - Squad	-	-	15.057	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Electrician Set W36977	73.995	200	14.799	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Plumbers Kit W49033	-	-	13.439	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Masonry and Concrete Set W44923	-	-	3.931	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SDASS / BDASS	-	-	8.553	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Quality Assurance	-	-	1.789	-	-	0.270	-	-	0.010	-	-	-	-	-	-	-	-	-
Program Management	-	-	1.578	-	-	0.211	-	-	0.019	-	-	-	-	-	0.010	-	-	0.010

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<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 25	<b>P-1 Line Item Number / Title:</b> ML5301 / Items Less Than \$5M (Eng Spt)	<b>Item Number / Title [DODIC]:</b> ML5301 / Items Less Than \$5M (Eng Spt)
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :		<b>MDAP/MAIS Code:</b>

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
System Fielding Support	-	-	1.984	-	-	0.457	-	-	0.005	-	-	-	-	-	0.010	-	-	0.010
Documentation	-	-	0.009	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	<i>217.784</i>	-	-	<i>16.072</i>	-	-	<i>0.595</i>	-	-	-	-	-	<i>0.300</i>	-	-	<i>0.300</i>
<i>Subtotal: Hardware Cost</i>	-	-	<i>217.784</i>	-	-	<i>16.072</i>	-	-	<i>0.595</i>	-	-	-	-	-	<i>0.300</i>	-	-	<i>0.300</i>
<b>Gross/Weapon System Cost</b>	<b>158.850</b>	<b>1,371</b>	<b>217.784</b>	<b>30.789</b>	<b>522</b>	<b>16.072</b>	<b>595.000</b>	<b>1</b>	<b>0.595</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>15.000</b>	<b>20</b>	<b>0.300</b>	<b>15.000</b>	<b>20</b>	<b>0.300</b>

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	522	1	-	20	20
	Total Obligation Authority	16.072	0.595	-	0.300	0.300
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	<b>522</b>	<b>1</b>	<b>-</b>	<b>20</b>	<b>20</b>
	<b>Total Obligation Authority</b>	<b>16.072</b>	<b>0.595</b>	<b>-</b>	<b>0.300</b>	<b>0.300</b>

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**Exhibit P-40, Budget Line Item Justification:** PB 2017 Army **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 30: Petroleum Equipment	<b>P-1 Line Item Number / Title:</b> MB6400 / QUALITY SURVEILLANCE EQUIPMENT
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	4	3	3	6	4	4	-	-	-	18
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	127.952	1.435	5.368	4.487	4.800	9.287	6.903	6.670	-	-	-	157.615
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	127.952	1.435	5.368	4.487	4.800	9.287	6.903	6.670	-	-	-	157.615
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>127.952</b>	<b>1.435</b>	<b>5.368</b>	<b>4.487</b>	<b>4.800</b>	<b>9.287</b>	<b>6.903</b>	<b>6.670</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>157.615</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost ( <i>\$ in Thousands</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Thousands</i> )	-	-	1,342.000	1,495.667	1,600.000	1,547.833	1,725.750	1,667.500	-	-	-	8,756.389

**Description:**

Quality Surveillance Equipment is a family of petroleum and water laboratories used to evaluate the quality of military fuels and palatable water for our soldiers.

The Petroleum Quality Analysis System Enhanced (PQAS-E) is a fully integrated fuel laboratory installed in an environmentally controlled International Organization for Standardization (ISO) style shelter mounted on a trailer with support equipment, supplies, and a tent. The mission of the PQAS-E consists of testing fuels received through normal supply channels, locally procured from civil sources, and captured enemy stocks. The PQAS-E is employed as the Army's single petroleum laboratory capable of performing all levels of quality surveillance tests throughout each echelon on the battlefield. The PQAS-E is capable of modified B-2 level testing in accordance with (IAW) Military Standard (MIL-STD) 3004 on kerosene based (e.g. Jet Propellant [JP] 5, JP-8, Jet A, Jet A-1) and diesel military mobility fuels. The shelter contains fuel test equipment (Automated Instrumentation System [AIS]), support equipment and supplies, an Environmental Control Unit (ECU), and an Auxiliary Power Unit (APU). System software provides an information database/expert system for the technician to consult in the interpretation of test results and in making recommendations for the disposition of fuels. The automated data acquisition features allow test data from instrumentation to be sent directly to the system software, which reduces data transcription errors and eliminates the need for hard-copy laboratory notebooks. The PQAS-E system is being built at Rock Island Arsenal. The Army Acquisition Objective (AAO) is 92 PQAS-E systems.

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	-	2	2	3	5	2	2	-	-
Total Obligation Authority	-	2.662	2.216	4.800	7.016	2.709	4.038	-	-
ANG	-	1	1	-	1	2	2	-	-
Total Obligation Authority	-	1.353	2.271	-	2.271	4.194	2.632	-	-
AR	-	1	-	-	-	-	-	-	-
Total Obligation Authority	1.435	1.353	-	-	-	-	-	-	-
<b>Total: Secondary Distribution</b>	<b>-</b>	<b>4</b>	<b>3</b>	<b>3</b>	<b>6</b>	<b>4</b>	<b>4</b>	<b>-</b>	<b>-</b>
<b>Total Obligation Authority</b>	<b>1.435</b>	<b>5.368</b>	<b>4.487</b>	<b>4.800</b>	<b>9.287</b>	<b>6.903</b>	<b>6.670</b>	<b>-</b>	<b>-</b>



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**Exhibit P-40, Budget Line Item Justification:** PB 2017 Army **Date:** February 2016

**Appropriation / Budget Activity / Budget Sub Activity:**  
2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 30: Petroleum Equipment

**P-1 Line Item Number / Title:**  
MB6400 / QUALITY SURVEILLANCE EQUIPMENT

**ID Code** (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** N/A

**Line Item MDAP/MAIS Code:** N/A **Item MDAP/MAIS Code(s):** N/A

Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	R67500 / PETROLEUM QUALITY ANALYSIS SYSTEM	P-5a, P-21	A	- / 127.952	- / 1.435	4 / 5.368	3 / 4.487	3 / 4.800	6 / 9.287
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>			<b>- / 127.952</b>	<b>- / 1.435</b>	<b>4 / 5.368</b>	<b>3 / 4.487</b>	<b>3 / 4.800</b>	<b>6 / 9.287</b>

\*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

**Justification:**

FY17 Base funding in the amount of \$4.487 million procures three Petroleum Quality Analysis System Enhanced (PQAS-E) from Rock Island Arsenal to support the Modular Brigades and enhances the Petroleum and Water Quartermaster (QM) War Fighting Capabilities. The FY17 Overseas Contingency Operations (OCO) funding \$4.800 million to support the COCOM requirement for unit equipment sets to deter potential adversaries and support the European Reassurance Initiatives. The procurements include the original Army Acquisition Objective (AAO) of 68 PQAS-E systems. Based on Army restructuring the new AAO has increased to 92 PQAS-E systems. Quality surveillance of bulk fuel is critical to aviation and ground mobility equipment. The PQAS-E gives bulk petroleum quality surveillance capability down to brigade level in a flexible, responsive, mobile lab mounted on a 5-ton trailer. The PQAS-E is required for conducting quality tests on kerosene based and diesel fuels thus ensuring quality surveillance on the battlefield. This will help assure U.S. Armed Ground Forces' strategic responsiveness and its global force projection. The fuels that we put in our warfighting platforms must meet purity standards or it can cause equipment to be non-mission capable.

The FY 2017 funding request was reduced by \$0.868 million to account for the availability of prior year execution balances

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<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 30	<b>P-1 Line Item Number / Title:</b> MB6400 / QUALITY SURVEILLANCE EQUIPMENT	<b>Item Number / Title [DODIC]:</b> R67500 / PETROLEUM QUALITY ANALYSIS SYSTEM

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	-	-	4	3	3	6
Gross/Weapon System Cost (\$ in Millions)	127.952	1.435	5.368	4.487	4.800	9.287
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	127.952	1.435	5.368	4.487	4.800	9.287
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	<b>127.952</b>	<b>1.435</b>	<b>5.368</b>	<b>4.487</b>	<b>4.800</b>	<b>9.287</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	1,342.000	1,495.667	1,600.000	1,547.833

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
PQAS-E <sup>(†)</sup>	-	-	-	1,300.000	1	1.300	1,300.000	4	5.200	1,423.000	3	4.269	1,423.000	3	4.269	1,423.000	6	8.538
Engineering Changes	-	-	13.452	-	-	0.020	-	-	0.020	-	-	0.010	-	-	0.050	-	-	0.060
System Engineering/Program Management	-	-	57.000	-	-	0.065	-	-	0.062	-	-	0.065	-	-	0.133	-	-	0.198
System Test & Evaluation/Production	-	-	7.800	-	-	0.010	-	-	0.016	-	-	0.020	-	-	0.020	-	-	0.040
Training	-	-	10.300	-	-	0.005	-	-	0.015	-	-	0.030	-	-	0.030	-	-	0.060
Data	-	-	9.300	-	-	0.010	-	-	0.010	-	-	0.025	-	-	0.050	-	-	0.075
Support Equipment	-	-	5.100	-	-	0.005	-	-	0.020	-	-	0.048	-	-	0.048	-	-	0.096
Fielding	-	-	25.000	-	-	0.020	-	-	0.025	-	-	0.020	-	-	0.200	-	-	0.220
<i>Subtotal: Recurring Cost</i>	-	-	<i>127.952</i>	-	-	<i>1.435</i>	-	-	<i>5.368</i>	-	-	<i>4.487</i>	-	-	<i>4.800</i>	-	-	<i>9.287</i>
<i>Subtotal: Flyaway Cost</i>	-	-	<i>127.952</i>	-	-	<i>1.435</i>	-	-	<i>5.368</i>	-	-	<i>4.487</i>	-	-	<i>4.800</i>	-	-	<i>9.287</i>
<b>Gross/Weapon System Cost</b>	-	-	<b>127.952</b>	-	-	<b>1.435</b>	<b>1,342.000</b>	<b>4</b>	<b>5.368</b>	<b>1,495.667</b>	<b>3</b>	<b>4.487</b>	<b>1,600.000</b>	<b>3</b>	<b>4.800</b>	<b>1,547.833</b>	<b>6</b>	<b>9.287</b>

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	-	2	2	3	5
	Total Obligation Authority	-	2.662	2.216	4.800	7.016
ANG	Quantity	-	1	1	-	1

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<b>Exhibit P-5, Cost Analysis:</b> PB 2017 Army		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 30	<b>P-1 Line Item Number / Title:</b> MB6400 / QUALITY SURVEILLANCE EQUIPMENT	<b>Item Number / Title [DODIC]:</b> R67500 / PETROLEUM QUALITY ANALYSIS SYSTEM

**ID Code** (A=Service Ready, B=Not Service Ready) : A **MDAP/MAIS Code:**

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
	Total Obligation Authority	-	1.353	2.271	-	2.271
AR	Quantity	-	1	-	-	-
	Total Obligation Authority	1.435	1.353	-	-	-
<b>Total:</b>	<b>Quantity</b>	-	4	3	3	6
<b>Secondary Distribution</b>	<b>Total Obligation Authority</b>	<b>1.435</b>	<b>5.368</b>	<b>4.487</b>	<b>4.800</b>	<b>9.287</b>

(t) indicates the presence of a P-5a

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<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2017 Army							<b>Date:</b> February 2016				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 30			<b>P-1 Line Item Number / Title:</b> MB6400 / QUALITY SURVEILLANCE EQUIPMENT				<b>Item Number / Title [DODIC]:</b> R67500 / PETROLEUM QUALITY ANALYSIS SYSTEM				

Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
PQAS-E <sup>(†)</sup>		2015	Rock Island Arsenal / IL	MIPR	Rock Island, IL	Jun 2015	Jan 2016	1	1,300.000	Y		
PQAS-E <sup>(†)</sup>		2016	Rock Island Arsenal / IL	MIPR	Rock Island, IL	Jan 2016	Aug 2016	4	1,300.000	Y		
PQAS-E <sup>(†)</sup>		2017	Rock Island Arsenal / IL	MIPR	Rock Island, IL	Nov 2016	Jun 2017	6	1,423.000	Y		

<sup>(†)</sup> indicates the presence of a P-21

**Remarks:**  
The minimum sustainment rate is one PQAS-E per 7 months.

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Exhibit P-21, Production Schedule: PB 2017 Army																									Date: February 2016						
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 03 / 30										P-1 Line Item Number / Title: MB6400 / QUALITY SURVEILLANCE EQUIPMENT										Item Number / Title [DODIC]: R67500 / PETROLEUM QUALITY ANALYSIS SYSTEM											
Cost Elements (Units in Each)						Fiscal Year 2015										Fiscal Year 2016										BALANCE					
OC	MFR #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2014	BAL DUE AS OF 1 OCT	Calendar Year 2015										Calendar Year 2016														
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR		MAY	JUN	JUL	AUG	SEP
PQAS-E																															
	1	2015	ARMY		1	-																									-
	1	2016	ARMY		4	-																									2
	1	2017	ARMY		6	-																									6
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	

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<b>Exhibit P-21, Production Schedule:</b> PB 2017 Army															<b>Date:</b> February 2016														
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 30										<b>P-1 Line Item Number / Title:</b> MB6400 / QUALITY SURVEILLANCE EQUIPMENT										<b>Item Number / Title [DODIC]:</b> R67500 / PETROLEUM QUALITY ANALYSIS SYSTEM									

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2017													Fiscal Year 2018													B A L A N C E	
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2016	BAL DUE AS OF 1 OCT	Calendar Year 2017													Calendar Year 2018													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			
PQAS-E																																	
	1	2015	ARMY	1	1	-																								-			
	1	2016	ARMY	4	2	2	1	1																						-			
	1	2017	ARMY	6	-	6		A	-	-	-	-	-	-	1	2	2	1												-			
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

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<b>Exhibit P-21, Production Schedule:</b> PB 2017 Army		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 30		<b>P-1 Line Item Number / Title:</b> MB6400 / QUALITY SURVEILLANCE EQUIPMENT
<b>Item Number / Title [DODIC]:</b> R67500 / PETROLEUM QUALITY ANALYSIS SYSTEM		

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2017	1-8-5 For 2017	MAX For 2017	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	Rock Island Arsenal - IL	1	2	3	-	9	7	16	-	2	7	9

"A" in the Delivery Schedule indicates the Contract Award Date.

**Note:** Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

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**Exhibit P-40, Budget Line Item Justification:** PB 2017 Army **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 30: Petroleum Equipment	<b>P-1 Line Item Number / Title:</b> MA6000 / Distribution Systems, Petroleum & Water
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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<b>Line Item MDAP/MAIS Code:</b> N/A	<b>Item MDAP/MAIS Code(s):</b> N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	798	620	435	447	326	773	479	538	375	387	Continuing	Continuing
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	834.210	40.692	35.381	42.656	78.240	120.896	48.687	52.915	46.589	46.057	Continuing	Continuing
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	834.210	40.692	35.381	42.656	78.240	120.896	48.687	52.915	46.589	46.057	Continuing	Continuing
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>834.210</b>	<b>40.692</b>	<b>35.381</b>	<b>42.656</b>	<b>78.240</b>	<b>120.896</b>	<b>48.687</b>	<b>52.915</b>	<b>46.589</b>	<b>46.057</b>	<b>Continuing</b>	<b>Continuing</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost ( <i>\$ in Thousands</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Thousands</i> )	1,045.376	65.632	81.336	95.427	240.000	156.398	101.643	98.355	124.237	119.010	Continuing	Continuing

**Description:**

The Family of Petroleum and Water Distribution Systems supports both the Army Equipment Modernization Strategy 2016 and the Army of 2025, along with the Army's mission to supply bulk fuel and water, at the operational and tactical levels, to all Department of Defense (DoD) forces in the various worldwide Joint Operations Area. The systems supports aircraft refueling, ground vehicles, and other Army equipment. Distribution Systems are comprised of hoses, pumps, tanks, filter separators, fittings, couplings, and nozzles.

The Modular Fuel System (MFS), Tank Rack Module (TRM) is a 2,500 gallon mobile storage and distribution platform. It is configured in a 20 foot ISO frame with integrated bale bar and is Heavy Expanded Mobility Tactical Truck-Load Handling System (HEMTT-LHS), Palletized Load Handling System (PLS) and PLS Trailer transportable. The MFS-TRM has a Stand-Alone Retail Capability (S-ARC) with its integrated continuous use electric pump, filter separator and flow meter. It can be operated while truck or trailer mounted or on the ground. The MFS-TRM can also be coupled with the HEMTT Tanker to form a highly mobile 5,000 gallon distribution platform within Brigade Combat Teams. Seven MFS-TRMs and one Pumprack Module form the full Modular Fuel System, which provides the ability to rapidly establish a fuel distribution and storage capability at any location regardless of the availability of construction equipment or material handling equipment. The Army Acquisition Objective (AAO) is 3,305 TRMs.

The Modular Fuel System (MFS), Pumprack Module (PRM) is fuel pumping capability for use with Tankrack Modules (TRM) or Collapsible Fabric Storage Tanks to create a bulk fuel storage and distribution system. The MFS-PRM is configured in a 20 foot ISO frame with integrated bale bar and is HEMTT-LHS, PLS and PLS Trailer Transportable. It has a 600 gallon per minute pump, filter separator, and on board storage with sufficient hoses, fittings and nozzles for eight bulk or retail refueling points. The MFS-PRM and MFS-TRM provide the ability to rapidly establish a fuel distribution and storage capability at any location regardless of the availability of construction equipment or material handling equipment. The full MFS consists of one PRM and 7 each 2,500 gallon TRMs. The Army Acquisition Objective (AAO) is 27 PRMs.

The Load Handling System (LHS) Compatible Water Tank Racks System (Hippo) is a 2000 gallon potable water tank. It is configured in a 20 foot ISO frame with integrated bale bar and is Heavy Expanded Mobility Tactical Truck-Load Handling System (HEMTT-LHS), Palletized Load Handling System (PLS) and PLS Trailer transportable. The Hippo can distribute to multiple locations or be placed on the ground/off-loaded to establish a water supply point. It is outfitted with a water pump, hose reel, and filling station. It is used for bulk load and discharge, retail distribution, and bulk storage of potable water. Hippos will replace the Semi-trailer Mounted Fabric Tank (SMFT) and most Forward Area Water Point Supply Systems (FAWPSS). The Army Acquisition Objective (AAO) is 2,911 Hippo systems.

The Expeditionary Water Packaging System (EWPS) is a completely containerized fully automated water packaging system that fills and caps one-liter bottles with potable water for individual Soldier consumption. The EWPS features end-to-end automated production (e.g. loading pre-forms, stretch blow molding of pre-forms into bottles, filling, capping, and labeling) within a closed, hygienic environment. It is capable of filling, at a minimum, 900 one-liter plastic bottles per hour. The EWPS is powered by multiple sources to include standard military or commercial generator sets. The finished bottles are palletized



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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2017 Army		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 30: Petroleum Equipment		<b>P-1 Line Item Number / Title:</b> MA6000 / Distribution Systems, Petroleum & Water

<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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<b>Line Item MDAP/MAIS Code:</b> N/A	<b>Item MDAP/MAIS Code(s):</b> N/A
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for shipment. The EWPS provides the following three main benefits: (1) reduces distribution footprint for bottled water and casualties associated with linehaul distribution; (2) provides inherent safety and health benefits over bulk systems through reduction of Soldier contamination at bulk system fill points; (3) minimizes the cost associated with procuring and transporting bottled water. The Army Acquisition Objective (AAO) is 10 EWPS systems.

The Camel II is an 800 gallon hard wall stainless steel water tank mounted on a 5-Ton trailer. It includes retail dispensing hardware comprised of the hoses and fittings necessary to gravity dispense water. The Camel II also includes integrated freeze protection that can be powered by external sources. The Camel II will partially replace the M149 and M1112 (400 gallon) potable water trailers within Field Feeding Units with Containerized Kitchens (CKs). The increase from 400-gallons to 800-gallons in capacity will decrease the frequency of water refill requirements by reducing the number of resupplies required per day. The Camel II will provide a CK with a greater capacity for carrying one full day of supply (DOS) of potable water required, approximately 1.92 gallons/person/day (gpd), for field feeding (two Unitized Group Rations [UGRs] and one Meal, Ready to Eat [MRE] per day). Current and emerging doctrine dictates the need for a combat enabler that increases unit level storage and DOS capabilities on the battlefield. Camel II will interface with the MTV 5-ton Truck as the prime mover and is operationally compatible with existing and future water purification, transport, and distribution systems. The design of Camel II Increment One includes an allowance for the space and weight necessary for the add-on capability of Increment Two, which includes a modular unit capable of water chilling, circulation, pumping (self load/unload), and power generation. The Army Acquisition Objective (AAO) is 488 CAMEL IIs.

The Early Entry Fluid Distribution System (E2FDS) is a highly automated flexible conduit system that complements the Inland Petroleum Distribution System (IPDS) by providing up to 50 miles of early entry capability for petroleum and water throughput. It can throughput 850,000 gallons of petroleum and 650,000 gallons of non-potable water per day and is able to emplace/retrieve conduit at a rate of 25/10 miles per day respectively. The E2FDS consists of five major modules: automated pump stations, Employment and Retrieval System (ERS), 50 miles of flexible conduit and conduit support equipment, command and control, and a trace planning tool. The components of the E2FDS will be packaged in ISO (nine high stackable) 20-foot equivalent units (TEU) for deployment and are transportable via Heavy Expanded Mobility Tactical Truck (HEMTT) Load Handling System (LHS), Palletized Load System (PLS) and PLS Trailer. During the early phases of operations, the E2FDS reduces the requirement for line-haul petroleum semitrailers and relieves main supply route congestion. The E2FDS enables rapid setup of the conduit trace, and the automation and centralized control enable greater precision of pipeline operations with fewer personnel. Once the IPDS pipeline is emplaced, the E2FDS can be used to extend the pipeline trace or be moved to another location. The Army Acquisition Objective (AAO) is 12 (5 mile sets).

The Mobile Tactical Retail Refueling System (MTRRS) provides retail fuel distribution for echelons above brigade organizations. It consists of a 1050 gallon tank, pump, and filter/separator mounted in a rack that is Family of Medium Tactical Vehicles (FMTV) transportable. The MTRRS can be operated while on the truck or on the ground. It will replace the aging Tank and Pump Unit (TPU) and the Tank Unit Liquid Dispensing (TULD) systems. The Army Acquisition Objective (AAO) is 2,464.

The Fuel System Supply Point (FSSP) is a family of systems which consists of three storage capacities: 120K, 300K, and 800K gallon systems. This system is a bulk fuel receiving, issuing, and storing facility consisting of a 600 Gallons per Minute (GPM) pump, 350 GPM pump, 350 GPM filter separator and collapsible fabric storage tanks. The tanks vary in size from 20,000 gallons to 210,000 gallons. The 120K FSSP has 6 ea 20K fuel bags and 2 ea 350 GPM pumps. The 300K FSSP has 6 ea 50K fuel bags and 2 ea 350 GPM Pumps. The 800K FSSP has 4 ea 210K fuel bags and 2 ea 600 GPM pumps. The Army Acquisition Objective (AAO): FSSP 120K is 178 systems, FSSP 300K is 219 systems, and FSSP 800K is 58 systems.

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	Quantity	207	113	200	326	526	246	280	162	159
	Total Obligation Authority	17.889	13.631	21.476	78.240	99.716	30.593	33.546	31.511	31.400
ANG	Quantity	355	264	203	-	203	172	180	168	183
	Total Obligation Authority	19.733	17.250	16.494	-	16.494	12.601	12.871	12.202	11.693
AR	Quantity	58	58	44	-	44	61	78	45	45
	Total Obligation Authority	3.070	4.500	4.686	-	4.686	5.493	6.498	2.876	2.964
<b>Total:</b>	<b>Quantity</b>	<b>620</b>	<b>435</b>	<b>447</b>	<b>326</b>	<b>773</b>	<b>479</b>	<b>538</b>	<b>375</b>	<b>387</b>

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**Exhibit P-40, Budget Line Item Justification:** PB 2017 Army **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 30: Petroleum Equipment	<b>P-1 Line Item Number / Title:</b> MA6000 / Distribution Systems, Petroleum & Water
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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<b>Line Item MDAP/MAIS Code:</b> N/A	<b>Item MDAP/MAIS Code(s):</b> N/A
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Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Secondary Distribution	Total Obligation Authority	40.692	35.381	42.656	78.240	120.896	48.687	52.915	46.589	46.057

**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** PB 2017 Army **Date:** February 2016

**Appropriation / Budget Activity / Budget Sub Activity:**  
2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 30: Petroleum Equipment

**P-1 Line Item Number / Title:**  
MA6000 / Distribution Systems, Petroleum & Water

**ID Code** (A=Service Ready, B=Not Service Ready): **Program Elements for Code B Items:** N/A **Other Related Program Elements:** N/A

**Line Item MDAP/MAIS Code:** N/A **Item MDAP/MAIS Code(s):** N/A

Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	M60300 / FUEL SYSTEM SUPPLY POINT	P-5a, P-21	A	- / 326.786	- / -	- / -	- / -	68 / 60.120	68 / 60.120
P-5	R02600 / Modular Fuel System (MFS)	P-5a, P-21	A	210 / 185.308	385 / 26.729	286 / 16.134	187 / 12.803	162 / 9.450	349 / 22.253
P-5	R02670 / EXPEDITIONARY WATER PACKAGING SYSTEM (EWPS)		A	- / -	- / 1.615	2 / 3.001	2 / 3.582	- / -	2 / 3.582
P-5	R02690 / EARLY ENTRY FLUID DISTRIBUTION SYSTEM (E2FDS)		B	- / -	- / -	- / -	- / 0.748	- / -	- / 0.748
P-5	R38000 / Mobile Tactical Refueling System		B	- / -	- / -	- / -	10 / 1.660	- / -	10 / 1.660
P-5	R38100 / HIPPO WATER DISTRIBUTION SYSTEM	P-5a, P-21	A	588 / 238.878	235 / 12.348	144 / 14.429	167 / 16.516	94 / 8.460	261 / 24.976
P-5	R38101 / Unit Water Pod System (Camel)	P-5a, P-21	A	- / 83.238	- / -	3 / 1.817	81 / 7.347	2 / 0.210	83 / 7.557
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>			<b>798 / 834.210</b>	<b>620 / 40.692</b>	<b>435 / 35.381</b>	<b>447 / 42.656</b>	<b>326 / 78.240</b>	<b>773 / 120.896</b>

\*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

**Justification:**  
 FY17 Base funding in the amount of \$42.656 million supports the procurement of the Modular Fuel System (MFS) Tank Rack Modules (TRMs), Modular Fuel System (MFS) Pump Rack Modules (PRMs), Hippo Water Distribution Systems, Expeditionary Water Packaging Systems (EWPS), Unit Water Pod System (CAMEL II), Mobile Tactical Refueling System (MTRRS), and Early Entry Fluid Distribution System (E2FDS). FY17 Overseas Contingency Operations (OCO) funding in the amount of \$78.240 million supports the procurement of (94 ea.) HIPPOs, (162 ea.) TRMs, (2 ea.) Camel II and (68 ea.) 300K FSSP systems. The Army is the executive agent for the Management of Land-Based Water Resources in support of Contingency Operations and has responsibility for all inland distribution of fuel and water to include support to other services. Distribution Systems support the Stryker Brigade Combat Teams (SBCTs), Brigade Combat Teams, Field Artillery, Maneuver Enhancement Brigades, and the Petroleum and Water Quartermaster (QM) modular force warfighting capabilities. These systems are the Army's primary means of distributing and issuing retail and bulk petroleum and water. The Army cannot fight without clean water and fuel. These systems enable the Army to achieve its Force 2025 vision by providing highly mobile and self-sustaining equipment to hostile theaters of operation. The ability to rapidly, efficiently, and safely distribute fuel on the battlefield is a critical combat enabler. Funding supports a balanced investment strategy for the Army's approved force structure and Army Force Generation (ARFORGEN) requirements to support Active, National Guard, and Reserve Components.

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<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 30		<b>P-1 Line Item Number / Title:</b> MA6000 / Distribution Systems, Petroleum & Water
		<b>Item Number / Title [DODIC]:</b> M60300 / FUEL SYSTEM SUPPLY POINT

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	-	-	-	-	68	68
Gross/Weapon System Cost (\$ in Millions)	326.786	-	-	-	60.120	60.120
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	326.786	-	-	-	60.120	60.120
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	<b>326.786</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>60.120</b>	<b>60.120</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	884.118	884.118

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
FSSP 300K SIAD <sup>(†)</sup>	-	-	22.083	-	-	-	-	-	-	-	-	-	814.000	68	55.352	814.000	68	55.352
Engineering Changes	-	-	14.238	-	-	-	-	-	-	-	-	-	-	-	0.848	-	-	0.848
System Engineering/ Program Management	-	-	99.865	-	-	-	-	-	-	-	-	-	-	-	1.200	-	-	1.200
System Test & Evaluation, Production	-	-	10.600	-	-	-	-	-	-	-	-	-	-	-	0.450	-	-	0.450
Training	-	-	25.000	-	-	-	-	-	-	-	-	-	-	-	0.450	-	-	0.450
Data	-	-	20.000	-	-	-	-	-	-	-	-	-	-	-	0.350	-	-	0.350
Support Equipment	-	-	35.000	-	-	-	-	-	-	-	-	-	-	-	0.520	-	-	0.520
Fielding	-	-	100.000	-	-	-	-	-	-	-	-	-	-	-	0.950	-	-	0.950
<i>Subtotal: Recurring Cost</i>	-	-	326.786	-	-	-	-	-	-	-	-	-	-	-	60.120	-	-	60.120
<i>Subtotal: Flyaway Cost</i>	-	-	326.786	-	-	-	-	-	-	-	-	-	-	-	60.120	-	-	60.120
<b>Gross/Weapon System Cost</b>	-	-	326.786	-	-	-	-	-	-	-	-	-	884.118	68	60.120	884.118	68	60.120

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	-	-	-	68	68
Total:	-	-	-	60.120	60.120
	-	-	-	68	68

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<b>Exhibit P-5, Cost Analysis:</b> PB 2017 Army			<b>Date:</b> February 2016			
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 30		<b>P-1 Line Item Number / Title:</b> MA6000 / Distribution Systems, Petroleum & Water		<b>Item Number / Title [DODIC]:</b> M60300 / FUEL SYSTEM SUPPLY POINT		
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A			<b>MDAP/MAIS Code:</b>			
<b>Secondary Distribution</b>		<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>
<b>Secondary Distribution</b>	<b>Total Obligation Authority</b>	-	-	-	60.120	60.120

(t) indicates the presence of a P-5a

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<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2017 Army							<b>Date:</b> February 2016					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 30			<b>P-1 Line Item Number / Title:</b> MA6000 / Distribution Systems, Petroleum & Water				<b>Item Number / Title [DODIC]:</b> M60300 / FUEL SYSTEM SUPPLY POINT					
<b>Cost Elements</b>	<b>O C O</b>	<b>FY</b>	<b>Contractor and Location</b>	<b>Method/Type or Funding Vehicle</b>	<b>Location of PCO</b>	<b>Award Date</b>	<b>Date of First Delivery</b>	<b>Qty (Each)</b>	<b>Unit Cost (\$ K)</b>	<b>Specs Avail Now?</b>	<b>Date Revision Available</b>	<b>RFP Issue Date</b>
FSSP 300K SIAD <sup>(†)</sup>	✓	2017	Sierra Army Depot / Herlong	MIPR	TACOM	Jan 2017	Nov 2017	68	814.000	Y		

<sup>(†)</sup> indicates the presence of a P-21

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<b>Exhibit P-21, Production Schedule:</b> PB 2017 Army															<b>Date:</b> February 2016														
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 30										<b>P-1 Line Item Number / Title:</b> MA6000 / Distribution Systems, Petroleum & Water										<b>Item Number / Title [DODIC]:</b> M60300 / FUEL SYSTEM SUPPLY POINT									

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2017												Fiscal Year 2018												BALANCE	
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2016	BAL DUE AS OF 1 OCT	Calendar Year 2017												Calendar Year 2018												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P

FSSP 300K SIAD																																	
✓	1	2017	ARMY	68	-	68				A	-	-	-	-	-	-	-	-	-	-	4	6	6	6	6	6	6	6	6	6	6	6	4

O C C O	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P											

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<b>Exhibit P-21, Production Schedule:</b> PB 2017 Army				<b>Date:</b> February 2016							
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 30				<b>P-1 Line Item Number / Title:</b> MA6000 / Distribution Systems, Petroleum & Water				<b>Item Number / Title [DODIC]:</b> M60300 / FUEL SYSTEM SUPPLY POINT			

Cost Elements <i>(Units in Each)</i>							Fiscal Year 2019										Fiscal Year 2020										BALANCE
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2018	BAL DUE AS OF 1 OCT	Calendar Year 2019										Calendar Year 2020										
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	

FSSP 300K SIAD																													
✓	1	2017	ARMY	68	64	4	4																						-

								O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P
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<b>Exhibit P-21, Production Schedule:</b> PB 2017 Army		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 30		<b>P-1 Line Item Number / Title:</b> MA6000 / Distribution Systems, Petroleum & Water
		<b>Item Number / Title [DODIC]:</b> M60300 / FUEL SYSTEM SUPPLY POINT

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2017	1-8-5 For 2017	MAX For 2017	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	Sierra Army Depot - Herlong	1	6	8	-	3	10	13	-	4	10	14

"A" in the Delivery Schedule indicates the Contract Award Date.

**Note:** Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

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<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 30	<b>P-1 Line Item Number / Title:</b> MA6000 / Distribution Systems, Petroleum & Water	<b>Item Number / Title [DODIC]:</b> R02600 / Modular Fuel System (MFS)

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>
Procurement Quantity (Units in Each)	210	385	286	187	162	349
Gross/Weapon System Cost (\$ in Millions)	185.308	26.729	16.134	12.803	9.450	22.253
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	185.308	26.729	16.134	12.803	9.450	22.253
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	<b>185.308</b>	<b>26.729</b>	<b>16.134</b>	<b>12.803</b>	<b>9.450</b>	<b>22.253</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	882.419	69.426	56.413	68.465	58.333	63.762

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

<b>Cost Elements</b>	<b>Prior Years</b>			<b>FY 2015</b>			<b>FY 2016</b>			<b>FY 2017 Base</b>			<b>FY 2017 OCO</b>			<b>FY 2017 Total</b>		
	<b>Unit Cost</b> (\$ K)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ K)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ K)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ K)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ K)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ K)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)
<b>Flyaway Cost</b>																		
<b>Recurring Cost</b>																		
Pump Rack Modules <sup>(f)</sup>	-	-	-	-	-	-	450.000	3	1.350	450.000	3	1.350	-	-	-	450.000	3	1.350
Tank Rack Modules <sup>(f)</sup>	50.000	210	10.500	48.000	451	21.648	49.000	271	13.279	50.000	187	9.350	50.000	162	8.100	50.000	349	17.450
Engineering Changes	-	-	32.500	-	-	1.225	-	-	0.455	-	-	0.500	-	-	0.300	-	-	0.800
System Engineering/ Program Management	-	-	63.208	-	-	2.100	-	-	0.650	-	-	0.750	-	-	0.600	-	-	1.350
System Test & Evaluation, Production	-	-	26.000	-	-	0.100	-	-	-	-	-	-	-	-	-	-	-	-
Training	-	-	23.500	-	-	0.300	-	-	0.050	-	-	0.048	-	-	0.040	-	-	0.088
Data	-	-	1.600	-	-	0.456	-	-	0.050	-	-	0.065	-	-	0.025	-	-	0.090
Support Equipment	-	-	2.500	-	-	0.200	-	-	0.048	-	-	0.050	-	-	0.035	-	-	0.085
Fielding	-	-	25.500	-	-	0.700	-	-	0.252	-	-	0.690	-	-	0.350	-	-	1.040
<i>Subtotal: Recurring Cost</i>	-	-	<i>185.308</i>	-	-	<i>26.729</i>	-	-	<i>16.134</i>	-	-	<i>12.803</i>	-	-	<i>9.450</i>	-	-	<i>22.253</i>
<i>Subtotal: Flyaway Cost</i>	-	-	<i>185.308</i>	-	-	<i>26.729</i>	-	-	<i>16.134</i>	-	-	<i>12.803</i>	-	-	<i>9.450</i>	-	-	<i>22.253</i>
<b>Gross/Weapon System Cost</b>	<b>882.419</b>	<b>210</b>	<b>185.308</b>	<b>69.426</b>	<b>385</b>	<b>26.729</b>	<b>56.413</b>	<b>286</b>	<b>16.134</b>	<b>68.465</b>	<b>187</b>	<b>12.803</b>	<b>58.333</b>	<b>162</b>	<b>9.450</b>	<b>63.762</b>	<b>349</b>	<b>22.253</b>

<b>Secondary Distribution</b>		<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>
Army	Quantity	162	47	79	162	241
	Total Obligation Authority	13.923	2.714	6.102	9.450	15.552

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**Exhibit P-5, Cost Analysis: PB 2017 Army** **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 30	<b>P-1 Line Item Number / Title:</b> MA6000 / Distribution Systems, Petroleum & Water	<b>Item Number / Title [DODIC]:</b> R02600 / Modular Fuel System (MFS)
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**ID Code** (A=Service Ready, B=Not Service Ready) : A **MDAP/MAIS Code:**

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
ANG	Quantity	216	208	108	-	108
	Total Obligation Authority	12.406	11.650	6.701	-	6.701
AR	Quantity	7	31	-	-	-
	Total Obligation Authority	0.400	1.770	-	-	-
<b>Total:</b>	<b>Quantity</b>	<b>385</b>	<b>286</b>	<b>187</b>	<b>162</b>	<b>349</b>
<b>Secondary Distribution</b>	<b>Total Obligation Authority</b>	<b>26.729</b>	<b>16.134</b>	<b>12.803</b>	<b>9.450</b>	<b>22.253</b>

(†) indicates the presence of a P-5a

**UNCLASSIFIED**

**Exhibit P-5a, Procurement History and Planning: PB 2017 Army** **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 30	<b>P-1 Line Item Number / Title:</b> MA6000 / Distribution Systems, Petroleum & Water	<b>Item Number / Title [DODIC]:</b> R02600 / Modular Fuel System (MFS)
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Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
Pump Rack Modules <sup>(†)</sup>		2016	DRS - PRM / St. Louis, MO	C / FFP	TACOM	Nov 2015	Oct 2016	3	450.000	Y		
Pump Rack Modules <sup>(†)</sup>		2017	DRS - PRM / St. Louis, MO	C / FFP	TACOM	Nov 2016	May 2017	3	450.000	Y		
Tank Rack Modules <sup>(†)</sup>		2015	ISOMETRICS - TRM / Reidsville, NC	C / FFP	TACOM	Mar 2015	Nov 2015	451	48.000	Y		
Tank Rack Modules <sup>(†)</sup>		2016	ISOMETRICS - TRM / Reidsville, NC	C / FFP	TACOM	Mar 2016	Nov 2016	271	49.000	Y		
Tank Rack Modules <sup>(†)</sup>		2017	ISOMETRICS - TRM / Reidsville, NC	C / FFP	TACOM	Mar 2017	Nov 2017	349	50.000	Y		

<sup>(†)</sup> indicates the presence of a P-21





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**Exhibit P-21, Production Schedule:** PB 2017 Army **Date:** February 2016

**Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 03 / 30 **P-1 Line Item Number / Title:** MA6000 / Distribution Systems, Petroleum & Water **Item Number / Title [DODIC]:** R02600 / Modular Fuel System (MFS)

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2019												Fiscal Year 2020												BALANCE	
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2018	BAL DUE AS OF 1 OCT	Calendar Year 2019												Calendar Year 2020												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P
<b>Pump Rack Modules</b>																															
	1	2016	ARMY (XLVI)	3	3	-																							-		
	1	2017	ARMY (XLVII)	3	3	-																							-		
<b>Tank Rack Modules</b>																															
Prior Years Deliveries: 210																															
	2	2015	ARMY (XLVIII)	451	451	-																							-		
	2	2016	ARMY (XLIX)	271	271	-																							-		
	2	2017	ARMY (L)	349	318	31	28																						3		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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**Exhibit P-21, Production Schedule:** PB 2017 Army **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 30	<b>P-1 Line Item Number / Title:</b> MA6000 / Distribution Systems, Petroleum & Water	<b>Item Number / Title [DODIC]:</b> R02600 / Modular Fuel System (MFS)
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MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2017	1-8-5 For 2017	MAX For 2017	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	DRS - PRM - St. Louis, MO	1	8	10	-	2	11	13	-	2	6	8
2	ISOMETRICS - TRM - Reidsville, NC	15	32	45	-	6	8	14	-	6	8	14

"A" in the Delivery Schedule indicates the Contract Award Date.

**Note:** Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

**Service/Agency Suffixes:**

(XLVI) BASE

(XLVII) BASE

(XLVIII) BASE

(XLIX) BASE

(L) BASE



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<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 30	<b>P-1 Line Item Number / Title:</b> MA6000 / Distribution Systems, Petroleum & Water	<b>Item Number / Title [DODIC]:</b> R02670 / EXPEDITIONARY WATER PACKAGING SYSTEM (EWPS)

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	-	-	2	2	-	2
Gross/Weapon System Cost (\$ in Millions)	-	1.615	3.001	3.582	-	3.582
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	1.615	3.001	3.582	-	3.582
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	-	<b>1.615</b>	<b>3.001</b>	<b>3.582</b>	-	<b>3.582</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	1,500.500	1,791.000	-	1,791.000

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
Hardware Recurring	-	-	-	-	-	-	1,400.000	2	2.800	1,400.000	2	2.800	-	-	-	1,400.000	2	2.800
System Engineering/Program Management	-	-	-	-	-	0.400	-	-	0.101	-	-	0.350	-	-	-	-	-	0.350
Training	-	-	-	-	-	0.200	-	-	-	-	-	0.100	-	-	-	-	-	0.100
Data	-	-	-	-	-	0.250	-	-	-	-	-	0.050	-	-	-	-	-	0.050
Support Equipment	-	-	-	-	-	0.250	-	-	-	-	-	0.050	-	-	-	-	-	0.050
Fielding	-	-	-	-	-	0.515	-	-	0.100	-	-	0.232	-	-	-	-	-	0.232
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	1.615	-	-	3.001	-	-	3.582	-	-	-	-	-	3.582
<i>Subtotal: Flyaway Cost</i>	-	-	-	-	-	1.615	-	-	3.001	-	-	3.582	-	-	-	-	-	3.582
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	1.615	1,500.500	2	3.001	1,791.000	2	3.582	-	-	-	1,791.000	2	3.582

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	-	2	2	-	2
	Total Obligation Authority	1.615	3.001	3.582	-	3.582
<b>Total:</b>	Quantity	-	2	2	-	2
<b>Secondary Distribution</b>	Total Obligation Authority	1.615	3.001	3.582	-	3.582

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<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 30		<b>P-1 Line Item Number / Title:</b> MA6000 / Distribution Systems, Petroleum & Water
		<b>Item Number / Title [DODIC]:</b> R02690 / EARLY ENTRY FLUID DISTRIBUTION SYSTEM (E2FDS)

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : B	<b>MDAP/MAIS Code:</b>
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<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	-	-	0.748	-	0.748
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	-	-	0.748	-	0.748
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	-	-	<b>0.748</b>	-	<b>0.748</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Thousands</i> )	-	-	-	748.000	-	748.000

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

<b>Cost Elements</b>	<b>Prior Years</b>			<b>FY 2015</b>			<b>FY 2016</b>			<b>FY 2017 Base</b>			<b>FY 2017 OCO</b>			<b>FY 2017 Total</b>		
	<b>Unit Cost</b> (\$ K)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ K)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ K)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ K)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ K)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ K)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)
Flyaway Cost																		
Recurring Cost																		
System engineering/ Program management	-	-	-	-	-	-	-	-	-	-	-	0.748	-	-	-	-	-	0.748
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	-	0.748	-	-	-	-	-	0.748
<i>Subtotal: Flyaway Cost</i>	-	-	-	-	-	-	-	-	-	-	-	0.748	-	-	-	-	-	0.748
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	-	-	-	-	-	-	748.000	-	-	-	748.000	-	748.000

<b>Secondary Distribution</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>
Army					
Quantity	-	-	-	-	-
Total Obligation Authority	-	-	0.748	-	0.748
<b>Total: Secondary Distribution</b>					
Quantity	-	-	-	-	-
Total Obligation Authority	-	-	0.748	-	0.748

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<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 30		<b>P-1 Line Item Number / Title:</b> MA6000 / Distribution Systems, Petroleum & Water
		<b>Item Number / Title [DODIC]:</b> R38000 / Mobile Tactical Refueling System

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : B	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	10	-	10
Gross/Weapon System Cost <i>(\$ in Millions)</i>	-	-	-	1.660	-	1.660
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	-	-	-	1.660	-	1.660
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
<b>Total Obligation Authority</b> <i>(\$ in Millions)</i>	-	-	-	<b>1.660</b>	-	<b>1.660</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Thousands)</i>	-	-	-	166.000	-	166.000

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
Mobile Tactical Refueling System	-	-	-	-	-	-	-	-	-	150.000	10	1.500	-	-	-	150.000	10	1.500
Engineering Changes (ECPs)	-	-	-	-	-	-	-	-	-	-	-	0.040	-	-	-	-	-	0.040
System Engineering/ Program Management	-	-	-	-	-	-	-	-	-	-	-	0.065	-	-	-	-	-	0.065
System Test & Evaluation, Production	-	-	-	-	-	-	-	-	-	-	-	0.010	-	-	-	-	-	0.010
Training	-	-	-	-	-	-	-	-	-	-	-	0.005	-	-	-	-	-	0.005
Data	-	-	-	-	-	-	-	-	-	-	-	0.005	-	-	-	-	-	0.005
Support Equipment	-	-	-	-	-	-	-	-	-	-	-	0.010	-	-	-	-	-	0.010
Fielding	-	-	-	-	-	-	-	-	-	-	-	0.025	-	-	-	-	-	0.025
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	-	<b>1.660</b>	-	-	-	-	-	<b>1.660</b>
<i>Subtotal: Flyaway Cost</i>	-	-	-	-	-	-	-	-	-	-	-	<b>1.660</b>	-	-	-	-	-	<b>1.660</b>
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	-	-	-	-	<b>166.000</b>	<b>10</b>	<b>1.660</b>	-	-	-	<b>166.000</b>	<b>10</b>	<b>1.660</b>

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army Quantity	-	-	3	-	3

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis:</b> PB 2017 Army		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 30	<b>P-1 Line Item Number / Title:</b> MA6000 / Distribution Systems, Petroleum & Water	<b>Item Number / Title [DODIC]:</b> R38000 / Mobile Tactical Refueling System

**ID Code** (A=Service Ready, B=Not Service Ready) : B **MDAP/MAIS Code:**

<b>Secondary Distribution</b>		<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>
	Total Obligation Authority	-	-	0.481	-	0.481
ANG	Quantity	-	-	4	-	4
	Total Obligation Authority	-	-	0.679	-	0.679
AR	Quantity	-	-	3	-	3
	Total Obligation Authority	-	-	0.500	-	0.500
<b>Total:</b>	<b>Quantity</b>	-	-	<b>10</b>	-	<b>10</b>
<b>Secondary Distribution</b>	<b>Total Obligation Authority</b>	-	-	<b>1.660</b>	-	<b>1.660</b>

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<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 30		<b>P-1 Line Item Number / Title:</b> MA6000 / Distribution Systems, Petroleum & Water
		<b>Item Number / Title [DODIC]:</b> R38100 / HIPPO WATER DISTRIBUTION SYSTEM

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	588	235	144	167	94	261
Gross/Weapon System Cost (\$ in Millions)	238.878	12.348	14.429	16.516	8.460	24.976
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	238.878	12.348	14.429	16.516	8.460	24.976
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	<b>238.878</b>	<b>12.348</b>	<b>14.429</b>	<b>16.516</b>	<b>8.460</b>	<b>24.976</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	406.255	52.545	100.201	98.898	90.000	95.693

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
HIPPO(†)	182.000	588	107.016	78.000	138	10.764	82.000	159	13.038	84.000	167	14.028	84.000	94	7.896	84.000	261	21.924
Engineering Changes	-	-	18.700	-	-	0.225	-	-	0.226	-	-	0.450	-	-	0.100	-	-	0.550
System Engineering/Program Management	-	-	30.810	-	-	0.609	-	-	0.650	-	-	0.860	-	-	0.159	-	-	1.019
System Test & Evaluation, Production	-	-	18.650	-	-	0.200	-	-	0.140	-	-	0.250	-	-	0.050	-	-	0.300
Training	-	-	15.025	-	-	0.100	-	-	0.075	-	-	0.100	-	-	0.040	-	-	0.140
Data	-	-	14.025	-	-	0.150	-	-	0.050	-	-	0.078	-	-	0.040	-	-	0.118
Support Equipment	-	-	12.652	-	-	0.100	-	-	0.050	-	-	0.250	-	-	0.025	-	-	0.275
Fielding	-	-	22.000	-	-	0.200	-	-	0.200	-	-	0.500	-	-	0.150	-	-	0.650
<i>Subtotal: Recurring Cost</i>	-	-	238.878	-	-	12.348	-	-	14.429	-	-	16.516	-	-	8.460	-	-	24.976
<i>Subtotal: Flyaway Cost</i>	-	-	238.878	-	-	12.348	-	-	14.429	-	-	16.516	-	-	8.460	-	-	24.976
<b>Gross/Weapon System Cost</b>	<b>406.255</b>	<b>588</b>	<b>238.878</b>	<b>52.545</b>	<b>235</b>	<b>12.348</b>	<b>100.201</b>	<b>144</b>	<b>14.429</b>	<b>98.898</b>	<b>167</b>	<b>16.516</b>	<b>90.000</b>	<b>94</b>	<b>8.460</b>	<b>95.693</b>	<b>261</b>	<b>24.976</b>

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	45	61	68	94	162
	Total Obligation Authority	2.351	6.099	6.402	8.460	14.862
ANG	Quantity	139	56	58	-	58

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis:</b> PB 2017 Army		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 30	<b>P-1 Line Item Number / Title:</b> MA6000 / Distribution Systems, Petroleum & Water	<b>Item Number / Title [DODIC]:</b> R38100 / HIPPO WATER DISTRIBUTION SYSTEM

**ID Code** (A=Service Ready, B=Not Service Ready) : A **MDAP/MAIS Code:**

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
	Total Obligation Authority	7.327	5.600	5.928	-	5.928
AR	Quantity	51	27	41	-	41
	Total Obligation Authority	2.670	2.730	4.186	-	4.186
<b>Total:</b>	<b>Quantity</b>	<b>235</b>	<b>144</b>	<b>167</b>	<b>94</b>	<b>261</b>
<b>Secondary Distribution</b>	<b>Total Obligation Authority</b>	<b>12.348</b>	<b>14.429</b>	<b>16.516</b>	<b>8.460</b>	<b>24.976</b>

(t) indicates the presence of a P-5a

**UNCLASSIFIED**

<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2017 Army							<b>Date:</b> February 2016					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 30			<b>P-1 Line Item Number / Title:</b> MA6000 / Distribution Systems, Petroleum & Water				<b>Item Number / Title [DODIC]:</b> R38100 / HIPPO WATER DISTRIBUTION SYSTEM					

Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
HIPPO <sup>(†)</sup>		2015	The Entwistle Company / Danville, VA	C / IDIQ	TACOM	Dec 2014	Apr 2016	138	78.000	Y		
HIPPO <sup>(†)</sup>		2016	The Entwistle Company / Danville, VA	C / IDIQ	TACOM	Jan 2016	May 2016	159	82.000	Y		
HIPPO <sup>(†)</sup>		2017	The Entwistle Company / Danville, VA	C / IDIQ	TACOM	Jan 2017	Aug 2017	261	84.000	Y		

<sup>(†)</sup> indicates the presence of a P-21

**Remarks:**  
The Justification and Approval (J&A) is in process and will extend the current contract through FY19.

**UNCLASSIFIED**

<b>Exhibit P-21, Production Schedule:</b> PB 2017 Army															<b>Date:</b> February 2016												
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 30										<b>P-1 Line Item Number / Title:</b> MA6000 / Distribution Systems, Petroleum & Water										<b>Item Number / Title [DODIC]:</b> R38100 / HIPPO WATER DISTRIBUTION SYSTEM							

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2015														Fiscal Year 2016														B A L A N C E		
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2014	BAL DUE AS OF 1 OCT	Calendar Year 2015														Calendar Year 2016															
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P						
HIPPO																																				
Prior Years Deliveries: 588																																				
1		2015	ARMY	138	-	138		A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12	12	12	12	12	12	12	66
2		2016	ARMY	159	-	159																														98
3		2017	ARMY	261	-	261																														261
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P						



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<b>Exhibit P-21, Production Schedule:</b> PB 2017 Army															<b>Date:</b> February 2016														
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 30										<b>P-1 Line Item Number / Title:</b> MA6000 / Distribution Systems, Petroleum & Water										<b>Item Number / Title [DODIC]:</b> R38100 / HIPPO WATER DISTRIBUTION SYSTEM									

Cost Elements <i>(Units in Each)</i>					Fiscal Year 2017												Fiscal Year 2018												BALANCE						
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2016	BAL DUE AS OF 1 OCT	Calendar Year 2017												Calendar Year 2018																
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L		A U G	S E P				
HIPPO																																			
Prior Years Deliveries: 588																																			
	1	2015	ARMY	138	72	66	12	12	12	12	12	6																							-
	2	2016	ARMY	159	61	98	14	14	14	14	14	14	14																						-
	3	2017	ARMY	261	-	261					A	-	-	-	-	-	-	-	22	22	22	21	21	21	22	22	22	22	22	22	22				-
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					

**UNCLASSIFIED**

<b>Exhibit P-21, Production Schedule:</b> PB 2017 Army		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 30		<b>P-1 Line Item Number / Title:</b> MA6000 / Distribution Systems, Petroleum & Water
		<b>Item Number / Title [DODIC]:</b> R38100 / HIPPO WATER DISTRIBUTION SYSTEM

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2017	1-8-5 For 2017	MAX For 2017	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	The Entwistle Company - Danville, VA	15	30	35	-	-	-	-	-	3	16	19
2	The Entwistle Company - Danville, VA	15	30	35	-	-	-	-	-	4	4	8
3	The Entwistle Company - Danville, VA	15	30	35	-	-	-	-	-	4	7	11

"A" in the Delivery Schedule indicates the Contract Award Date.

**Note:** Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

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<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 30		<b>P-1 Line Item Number / Title:</b> MA6000 / Distribution Systems, Petroleum & Water
		<b>Item Number / Title [DODIC]:</b> R38101 / Unit Water Pod System (Camel)

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>
Procurement Quantity (Units in Each)	-	-	3	81	2	83
Gross/Weapon System Cost (\$ in Millions)	83.238	-	1.817	7.347	0.210	7.557
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	83.238	-	1.817	7.347	0.210	7.557
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	<b>83.238</b>	<b>-</b>	<b>1.817</b>	<b>7.347</b>	<b>0.210</b>	<b>7.557</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	605.667	90.704	105.000	91.048

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

<b>Cost Elements</b>	<b>Prior Years</b>			<b>FY 2015</b>			<b>FY 2016</b>			<b>FY 2017 Base</b>			<b>FY 2017 OCO</b>			<b>FY 2017 Total</b>		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
Camel II <sup>(†)</sup>	-	-	-	-	-	-	90.000	3	0.270	90.000	81	7.290	90.000	2	0.180	90.000	83	7.470
Engineering Changes	-	-	12.891	-	-	-	-	-	0.200	-	-	0.005	-	-	-	-	-	0.005
System Engineering/ Program Management	-	-	13.500	-	-	-	-	-	0.800	-	-	0.025	-	-	0.005	-	-	0.030
System Test & Evaluation, Production	-	-	12.147	-	-	-	-	-	0.150	-	-	0.005	-	-	0.005	-	-	0.010
Training	-	-	8.500	-	-	-	-	-	0.050	-	-	0.005	-	-	0.005	-	-	0.010
Data	-	-	11.050	-	-	-	-	-	0.045	-	-	0.005	-	-	0.005	-	-	0.010
Support Equipment	-	-	10.150	-	-	-	-	-	0.052	-	-	0.005	-	-	-	-	-	0.005
Fielding	-	-	15.000	-	-	-	-	-	0.250	-	-	0.007	-	-	0.010	-	-	0.017
<i>Subtotal: Recurring Cost</i>	-	-	<i>83.238</i>	-	-	-	-	-	<i>1.817</i>	-	-	<i>7.347</i>	-	-	<i>0.210</i>	-	-	<i>7.557</i>
<i>Subtotal: Flyaway Cost</i>	-	-	<i>83.238</i>	-	-	-	-	-	<i>1.817</i>	-	-	<i>7.347</i>	-	-	<i>0.210</i>	-	-	<i>7.557</i>
<b>Gross/Weapon System Cost</b>	-	-	<b>83.238</b>	-	-	-	<b>605.667</b>	<b>3</b>	<b>1.817</b>	<b>90.704</b>	<b>81</b>	<b>7.347</b>	<b>105.000</b>	<b>2</b>	<b>0.210</b>	<b>91.048</b>	<b>83</b>	<b>7.557</b>

<b>Secondary Distribution</b>		<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>
Army	Quantity	-	3	48	2	50
	Total Obligation Authority	-	1.817	4.161	0.210	4.371
ANG	Quantity	-	-	33	-	33

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis:</b> PB 2017 Army		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 30	<b>P-1 Line Item Number / Title:</b> MA6000 / Distribution Systems, Petroleum & Water	<b>Item Number / Title [DODIC]:</b> R38101 / Unit Water Pod System (Camel)

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A		<b>MDAP/MAIS Code:</b>				
<b>Secondary Distribution</b>		<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>
	Total Obligation Authority	-	-	3.186	-	3.186
<b>Total:</b>	<b>Quantity</b>	-	3	81	2	83
<b>Secondary Distribution</b>	Total Obligation Authority	-	1.817	7.347	0.210	7.557

(t) indicates the presence of a P-5a

**UNCLASSIFIED**

<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2017 Army							<b>Date:</b> February 2016				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 30			<b>P-1 Line Item Number / Title:</b> MA6000 / Distribution Systems, Petroleum & Water				<b>Item Number / Title [DODIC]:</b> R38101 / Unit Water Pod System (Camel)				

Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
Camel II <sup>(†)</sup>		2016	Choctaw / McAlester	SS / FFP	TACOM	Mar 2016	Jun 2017	3	90.000	Y		
Camel II <sup>(†)</sup>		2017	Choctaw / McAlester	SS / FFP	TACOM	Jan 2017	Nov 2017	83	90.000	Y		

<sup>(†)</sup> indicates the presence of a P-21



**UNCLASSIFIED**

<b>Exhibit P-21, Production Schedule:</b> PB 2017 Army															<b>Date:</b> February 2016									
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 30										<b>P-1 Line Item Number / Title:</b> MA6000 / Distribution Systems, Petroleum & Water										<b>Item Number / Title [DODIC]:</b> R38101 / Unit Water Pod System (Camel)				

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2018												Fiscal Year 2019												B A L A N C E	
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2017	BAL DUE AS OF 1 OCT	Calendar Year 2018												Calendar Year 2019												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P
Camel II																															
	1	2016	ARMY	3	3	-																								-	
	1	2017	ARMY	83	-	83	-	7	7	7	7	7	7	7	7	7	7	7	6												-
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

**UNCLASSIFIED**

<b>Exhibit P-21, Production Schedule:</b> PB 2017 Army		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 30		<b>P-1 Line Item Number / Title:</b> MA6000 / Distribution Systems, Petroleum & Water
		<b>Item Number / Title [DODIC]:</b> R38101 / Unit Water Pod System (Camel)

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2017	1-8-5 For 2017	MAX For 2017	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	Choctaw - McAlester	10	18	35	-	6	15	21	-	4	10	14

"A" in the Delivery Schedule indicates the Contract Award Date.

**Note:** Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).



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**Exhibit P-40, Budget Line Item Justification:** PB 2017 Army **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 40: Medical Equipment	<b>P-1 Line Item Number / Title:</b> MN1000 / Combat Support Medical
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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<b>Line Item MDAP/MAIS Code:</b> N/A	<b>Item MDAP/MAIS Code(s):</b> N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	3,127	1,589	5,339	6,543	238	6,781	2,667	2,787	4,140	2,739	Continuing	Continuing
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	708.136	44.392	73.828	59.761	5.763	65.524	43.343	48.178	35.216	36.205	Continuing	Continuing
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	708.136	44.392	73.828	59.761	5.763	65.524	43.343	48.178	35.216	36.205	Continuing	Continuing
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>708.136</b>	<b>44.392</b>	<b>73.828</b>	<b>59.761</b>	<b>5.763</b>	<b>65.524</b>	<b>43.343</b>	<b>48.178</b>	<b>35.216</b>	<b>36.205</b>	<b>Continuing</b>	<b>Continuing</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost ( <i>\$ in Thousands</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Thousands</i> )	226.459	27.937	13.828	9.134	24.214	9.663	16.252	17.287	8.506	13.218	Continuing	Continuing

**Description:**

Combat Support Medical represents the equipping component of a broad band of operational medical and health service support (hospitalization, combat stress, dental, veterinary, optical, and preventive medicine) capabilities that promote, improve, conserve, and restore the mental and physical well being of warfighters across the range of military operations. The equipping component is illustrative of the technologically advanced medical/surgical equipment, medical materiel, and nonmedical equipment required in our Combat, Combat Support and Combat Service Support force structure.

Combat Support Medical equips the Army's medical personnel to provide medical and rehabilitative care from first responder, to forward resuscitative care, to theater hospitalization, and en route care in the Joint Area of Operations.

Combat Support Medical modernizes, converts, and recapitalizes the Army Medical Department's (AMEDD's) Table of Organizational Equipment (TOE) force structure with deployable medical platforms. These combat service support systems support medical force structure at all echelons of care. This program resources the acquisition of all categories of medical equipment including surgical, combat stress, medical evacuation, dental, laboratory, radiology, optometry and new medical technology.

The equipment supports the capabilities of the AMEDD field units to support the Army's full spectrum of operations including offensive, defensive, stability and support and Chemical, Biological, Radiological, Nuclear, and high yield Explosives (CBRNE) Consequence Management Response Force (CCMRF).

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	
Army	Quantity	1,030	3,165	4,196	238	4,434	1,330	1,605	1,152	959
	Total Obligation Authority	22.667	46.583	32.244	5.763	38.007	23.890	29.034	16.858	16.442
ANG	Quantity	264	1,679	1,593	-	1,593	617	213	2,208	534
	Total Obligation Authority	11.052	22.098	17.122	-	17.122	8.480	11.472	8.015	3.473
AR	Quantity	295	495	754	-	754	720	969	780	1,246
	Total Obligation Authority	10.673	5.147	10.395	-	10.395	10.973	7.672	10.343	16.290
<b>Total:</b>	<b>Quantity</b>	<b>1,589</b>	<b>5,339</b>	<b>6,543</b>	<b>238</b>	<b>6,781</b>	<b>2,667</b>	<b>2,787</b>	<b>4,140</b>	<b>2,739</b>

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**Exhibit P-40, Budget Line Item Justification:** PB 2017 Army **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 40: Medical Equipment	<b>P-1 Line Item Number / Title:</b> MN1000 / Combat Support Medical
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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<b>Line Item MDAP/MAIS Code:</b> N/A	<b>Item MDAP/MAIS Code(s):</b> N/A
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Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Secondary Distribution	Total Obligation Authority	44.392	73.828	59.761	5.763	65.524	43.343	48.178	35.216	36.205

**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** PB 2017 Army **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 40: Medical Equipment	<b>P-1 Line Item Number / Title:</b> MN1000 / Combat Support Medical
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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<b>Line Item MDAP/MAIS Code:</b> N/A	<b>Item MDAP/MAIS Code(s):</b> N/A
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Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	G13010 / MEDEVAC Misson Equipment Package (MEP)	P-5a, P-21		- / -	28 / 13.366	50 / 23.840	43 / 16.855	- / -	43 / 16.855
P-5	MB1100 / FIELD MEDICAL EQUIPMENT - Medical ASIOE	P-5a		3,127 / 708.136	1,561 / 31.026	5,289 / 49.988	6,500 / 42.906	238 / 5.763	6,738 / 48.669
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>			<b>3,127 / 708.136</b>	<b>1,589 / 44.392</b>	<b>5,339 / 73.828</b>	<b>6,543 / 59.761</b>	<b>238 / 5.763</b>	<b>6,781 / 65.524</b>

\*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

**Justification:**  
 FY2017 Base Procurement dollars in the amount of \$59.761 Million procures medical equipment and materiel to support the AMEDD's balanced investment strategy for the Army's approved force structure and Army Force Generation (ARFORGEN) requirements. It provides advanced medical equipment necessary to ensure essential care of combat casualties throughout the range of military operations and includes all care and treatment necessary to return casualties to duty (within the theater evacuation policy) or begin initial treatment and stabilization.  
 FY2017 OCO funding supplemental in the amount of \$5.763 million supports the European Reassurance Initiative (ERI). This procurement supports the establishment of one Airborne Brigade Combat Team (ABCT) for ERI. Procurement is necessary to outfit the Pre-Positioned equipment set. There is no excess inventory or viable substitute available to support the ERI requirement.

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 40		<b>P-1 Line Item Number / Title:</b> MN1000 / Combat Support Medical
		<b>Item Number / Title [DODIC]:</b> G13010 / MEDEVAC Misson Equipment Package (MEP)

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	-	28	50	43	-	43
Gross/Weapon System Cost (\$ in Millions)	-	13.366	23.840	16.855	-	16.855
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	13.366	23.840	16.855	-	16.855
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	-	<b>13.366</b>	<b>23.840</b>	<b>16.855</b>	-	<b>16.855</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	477.357	476.800	391.977	-	391.977

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
Medical Mission Sensor FLIR <sup>(†)</sup>	-	-	-	526.100	20	10.522	562.056	36	20.234	302.000	20	6.040	-	-	-	302.000	20	6.040
Interim Patient Handling System (IMMSS) <sup>(†)</sup>	-	-	-	284.400	10	2.844	257.571	14	3.606	470.217	23	10.815	-	-	-	470.217	23	10.815
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	13.366	-	-	23.840	-	-	16.855	-	-	-	-	-	16.855
<i>Subtotal: Flyaway Cost</i>	-	-	-	-	-	13.366	-	-	23.840	-	-	16.855	-	-	-	-	-	16.855
<b>Gross/Weapon System Cost</b>	-	-	-	<b>477.357</b>	<b>28</b>	<b>13.366</b>	<b>476.800</b>	<b>50</b>	<b>23.840</b>	<b>391.977</b>	<b>43</b>	<b>16.855</b>	-	-	-	<b>391.977</b>	<b>43</b>	<b>16.855</b>

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	9	18	16	-	16
	Total Obligation Authority	4.527	8.996	6.272	-	6.272
ANG	Quantity	19	32	27	-	27
	Total Obligation Authority	8.839	14.844	10.583	-	10.583
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	<b>28</b>	<b>50</b>	<b>43</b>	-	<b>43</b>
	<b>Total Obligation Authority</b>	<b>13.366</b>	<b>23.840</b>	<b>16.855</b>	-	<b>16.855</b>

<sup>(†)</sup> indicates the presence of a P-5a

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<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2017 Army							<b>Date:</b> February 2016				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 40			<b>P-1 Line Item Number / Title:</b> MN1000 / Combat Support Medical				<b>Item Number / Title [DODIC]:</b> G13010 / MEDEVAC Misson Equipment Package (MEP)				

Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
Medical Mission Sensor FLIR		2016	FLIR Systems, Inc. / Portland Oregon	SS / FFP	USACC, Redstone Arsenal, AL	Oct 2013	Oct 2015	36	562.056	Y		
Medical Mission Sensor FLIR <sup>(†)</sup>		2017	FLIR Systems, Inc. / Portland Oregon	SS / FFP	USACC, Redstone Arsenal, AL	Oct 2015	Apr 2017	20	302.000	Y		
Interim Patient Handling System (IMMSS)		2016	Air Methods Corp / Denver, Colorado	SS / FFP	USACC, Redstone Arsenal, AL	Oct 2013	Jan 2016	14	257.571	Y		
Interim Patient Handling System (IMMSS) <sup>(†)</sup>		2017	Air Methods Corp / Denver, Colorado	SS / FFP	USACC, Redstone Arsenal, AL	Oct 2015	Jan 2017	23	470.217	Y		

<sup>(†)</sup> indicates the presence of a P-21

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<b>Exhibit P-21, Production Schedule:</b> PB 2017 Army		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 40		<b>P-1 Line Item Number / Title:</b> MN1000 / Combat Support Medical
		<b>Item Number / Title [DODIC]:</b> G13010 / MEDEVAC Misson Equipment Package (MEP)

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2014												Fiscal Year 2015												BALANCE	
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2013	BAL DUE AS OF 1 OCT	Calendar Year 2014												Calendar Year 2015												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P
Medical Mission Sensor FLIR																															
	1	2017	ARMY	20	-	20																							20		
Interim Patient Handling System (IMMSS)																															
	2	2017	ARMY	23	-	23																							23		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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<b>Exhibit P-21, Production Schedule:</b> PB 2017 Army														<b>Date:</b> February 2016																											
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 40														<b>P-1 Line Item Number / Title:</b> MN1000 / Combat Support Medical														<b>Item Number / Title [DODIC]:</b> G13010 / MEDEVAC Misson Equipment Package (MEP)													

Cost Elements (Units in Each)						Fiscal Year 2016														Fiscal Year 2017														BALANCE	
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2015	BAL DUE AS OF 1 OCT	Calendar Year 2016														Calendar Year 2017														
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					
Medical Mission Sensor FLIR																																			
	1	2017	ARMY	20	-	20	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	-	-	-	-	10	-
Interim Patient Handling System (IMMSS)																																			
	2	2017	ARMY	23	-	23	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11	-	-	-	-	12	-	-	-
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					

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<b>Exhibit P-21, Production Schedule:</b> PB 2017 Army		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 40		<b>P-1 Line Item Number / Title:</b> MN1000 / Combat Support Medical
		<b>Item Number / Title [DODIC]:</b> G13010 / MEDEVAC Misson Equipment Package (MEP)

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2017	1-8-5 For 2017	MAX For 2017	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	FLIR Systems, Inc. - Portland Oregon	8	15	20	-	-	18	18	-	-	3	3
2	Air Methods Corp - Denver, Colorado	8	8	23	-	-	23	23	-	-	3	3

"A" in the Delivery Schedule indicates the Contract Award Date.

**Note:** Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).



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<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 40	<b>P-1 Line Item Number / Title:</b> MN1000 / Combat Support Medical	<b>Item Number / Title [DODIC]:</b> MB1100 / FIELD MEDICAL EQUIPMENT - Medical ASIOE

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	3,127	1,561	5,289	6,500	238	6,738
Gross/Weapon System Cost (\$ in Millions)	708.136	31.026	49.988	42.906	5.763	48.669
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	708.136	31.026	49.988	42.906	5.763	48.669
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	<b>708.136</b>	<b>31.026</b>	<b>49.988</b>	<b>42.906</b>	<b>5.763</b>	<b>48.669</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	226.459	19.876	9.451	6.601	24.214	7.223

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
Laboratory science Equipment <sup>(†)</sup>	-	-	37.502	6.261	222	1.390	6.538	587	3.838	6.596	240	1.583	7.500	2	0.015	6.603	242	1.598
Ambulatory Care Equipment <sup>(†)</sup>	-	-	75.349	6.420	581	3.730	12.183	564	6.871	5.410	4,758	25.739	-	-	-	5.410	4,758	25.739
Dental Equipment <sup>(†)</sup>	-	-	93.298	0.057	58,172	3.301	19.872	125	2.484	20.000	12	0.240	25.870	46	1.190	24.655	58	1.430
Ophthalmology/optometry Equipment <sup>(†)</sup>	-	-	11.927	-	-	-	11.125	8	0.089	-	-	-	-	-	-	-	-	-
Surgical Equipment <sup>(†)</sup>	-	-	123.995	10.167	600	6.100	10.202	865	8.825	10.096	634	6.401	9.680	97	0.939	10.041	731	7.340
Nursing Equipment <sup>(†)</sup>	-	-	68.474	24.625	461	11.352	-	-	-	-	-	-	38.878	90	3.499	38.878	90	3.499
Veterinary Equipment <sup>(†)</sup>	-	-	10.621	43.455	55	2.390	44.618	68	3.034	43.271	70	3.029	-	-	-	43.271	70	3.029
Diagnostic Imaging Equipment <sup>(†)</sup>	-	-	207.801	67.024	41	2.748	103.179	39	4.024	103.217	23	2.374	110.000	1	0.110	103.500	24	2.484
Oxygen Generation Equipment	-	-	37.532	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Water Distribution	-	-	41.637	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Therapy/Treatment <sup>(†)</sup>	-	-	-	-	-	-	3.883	1,072	4.163	4.354	271	1.180	-	-	-	4.354	271	1.180
Sterilization <sup>(†)</sup>	-	-	-	-	-	-	83.357	56	4.668	83.500	6	0.501	-	-	-	83.500	6	0.501

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<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 40	<b>P-1 Line Item Number / Title:</b> MN1000 / Combat Support Medical	<b>Item Number / Title [DODIC]:</b> MB1100 / FIELD MEDICAL EQUIPMENT - Medical ASIOE
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :		<b>MDAP/MAIS Code:</b>

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Environmental (Chemical) <sup>(t)</sup>	-	-	-	-	-	-	14.120	275	3.883	-	-	-	-	-	-	-	-	-
Environmental (Water) <sup>(t)</sup>	-	-	-	-	-	-	3.648	2,082	7.595	3.727	165	0.615	5.000	2	0.010	3.743	167	0.625
TMDE (Test, Measurement, Diagnostic Eq) <sup>(t)</sup>	-	-	-	-	-	-	6.438	80	0.515	6.444	27	0.174	-	-	-	6.444	27	0.174
EVAC/AREA SPT <sup>(t)</sup>	-	-	-	-	-	-	-	-	-	1.694	271	0.459	-	-	-	1.694	271	0.459
HOSPITAL <sup>(t)</sup>	-	-	-	-	-	-	-	-	-	16.486	37	0.610	-	-	-	16.486	37	0.610
<i>Subtotal: Recurring Cost</i>	-	-	708.136	-	-	31.026	-	-	49.988	-	-	42.907	-	-	5.763	-	-	48.670
<i>Subtotal: Flyaway Cost</i>	-	-	708.136	-	-	31.026	-	-	49.988	-	-	42.907	-	-	5.763	-	-	48.670
<b>Gross/Weapon System Cost</b>	<b>226.459</b>	<b>3,127</b>	<b>708.136</b>	<b>19.876</b>	<b>1,561</b>	<b>31.026</b>	<b>9.451</b>	<b>5,289</b>	<b>49.988</b>	<b>6.601</b>	<b>6,500</b>	<b>42.906</b>	<b>24.214</b>	<b>238</b>	<b>5.763</b>	<b>7.223</b>	<b>6,738</b>	<b>48.669</b>

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	1,021	3,147	4,180	238	4,418
	Total Obligation Authority	18.140	37.587	25.972	5.763	31.735
ANG	Quantity	245	1,647	1,566	-	1,566
	Total Obligation Authority	2.213	7.254	6.539	-	6.539
AR	Quantity	295	495	754	-	754
	Total Obligation Authority	10.673	5.147	10.395	-	10.395
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	<b>1,561</b>	<b>5,289</b>	<b>6,500</b>	<b>238</b>	<b>6,738</b>
	<b>Total Obligation Authority</b>	<b>31.026</b>	<b>49.988</b>	<b>42.906</b>	<b>5.763</b>	<b>48.669</b>

(t) indicates the presence of a P-5a

**UNCLASSIFIED**

**Exhibit P-5a, Procurement History and Planning: PB 2017 Army** **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 40	<b>P-1 Line Item Number / Title:</b> MN1000 / Combat Support Medical	<b>Item Number / Title [DODIC]:</b> MB1100 / FIELD MEDICAL EQUIPMENT - Medical ASIOE
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Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
Laboratory science Equipment		2015	Various / Various	Various	various	Sep 2013	Sep 2015	222	6.261	Y		
Laboratory science Equipment		2016	Various / Various	Various	various	Sep 2015	Sep 2016	587	6.538			
Laboratory science Equipment		2017	Various / Various	Various	various	Mar 2017	Apr 2017	242	6.603			
Ambulatory Care Equipment		2015	Various / Various	Various	various	Sep 2014	Sep 2014	581	6.420	Y		
Ambulatory Care Equipment		2016	Various / Various	Various	various	Sep 2016	Sep 2016	564	12.183			
Ambulatory Care Equipment		2017	Various / Various	Various	various	Apr 2017	Sep 2017	4,758	5.410			
Dental Equipment		2015	Various / Various	Various	various	Sep 2014	Sep 2015	58,172	0.057	Y		
Dental Equipment		2016	Various / Various	Various	various	Sep 2016	Sep 2016	125	19.872			
Dental Equipment		2017	Various / Various	TBD	various	Apr 2017	Sep 2017	58	24.655			
Ophthalmology/optometry Equipment		2016	Various / Various	Various	various	Sep 2016	Sep 2016	8	11.125			
Surgical Equipment		2015	Various / Various	Various	various	Sep 2015	Sep 2015	600	10.167	Y		
Surgical Equipment		2016	Various / Various	Various	various	Sep 2016	Sep 2016	865	10.202			
Surgical Equipment		2017	Various / Various	Various	various	Apr 2017	Sep 2017	731	10.041			
Nursing Equipment		2015	Various / Various	Various	various	Sep 2015	Sep 2015	461	24.625	Y		
Veterinary Equipment		2015	Various / Various	Various	various	Sep 2015	Sep 2015	55	43.455	Y		
Veterinary Equipment		2016	Various / Various	Various	various	Sep 2016	Sep 2016	68	44.618			
Veterinary Equipment		2017	Various / Various	Various	various	Sep 2017	Sep 2017	70	43.271			
Diagnostic Imaging Equipment		2015	Various / Various	Various	various	Sep 2015	Sep 2015	41	67.024	Y		
Diagnostic Imaging Equipment		2016	Various / Various	Various	various	Sep 2016	Sep 2016	39	103.179			
Diagnostic Imaging Equipment		2017	Various / Various	Various	various	Apr 2017	Sep 2017	24	103.500			
Therapy/Treatment		2016	Various / Various	Various	various	Sep 2016	Sep 2016	1,072	3.883			
Therapy/Treatment		2017	Various / Various	Various	various	Sep 2017	Sep 2017	271	4.354			
Sterilization		2016	Various / Various	Various	various	Sep 2016	Sep 2016	56	83.357			
Sterilization		2017	Various / Various	Various	various	Apr 2017	Sep 2017	6	83.500			
Environmental (Chemical)		2016	Various / Various	Various	various	Sep 2016	Sep 2016	275	14.120			
Environmental (Water)		2016	Various / Various	Various	various	Sep 2016	Sep 2016	2,082	3.648			
Environmental (Water)		2017	Various / Various	Various	various	Sep 2017	Sep 2017	167	3.743			
TMDE (Test, Measurement, Diagnostic Eq)		2016	Various / Various	Various	various	Sep 2016	Sep 2016	80	6.438			
TMDE (Test, Measurement, Diagnostic Eq)		2017	Various / Various	Various	various	Sep 2017	Sep 2017	27	6.444			
EVAC/AREA SPT		2017	Various / Various	Various	various	May 2017	Jun 2017	271	1.694			
HOSPITAL		2017	Various / Various	Various	various	Jul 2016	Aug 2017	37	16.486			

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<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2017 Army		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 40	<b>P-1 Line Item Number / Title:</b> MN1000 / Combat Support Medical	<b>Item Number / Title [DODIC]:</b> MB1100 / FIELD MEDICAL EQUIPMENT - Medical ASIOE

**Remarks:**  
Equipment is Commercial Off The Shelf (COTS)/Government Off the Shelf (GOTS), therefore is ordered on an as needed basis to manage program most effectively.

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**Exhibit P-40, Budget Line Item Justification:** PB 2017 Army **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 45: Maintenance Equipment	<b>P-1 Line Item Number / Title:</b> G05301 / Mobile Maintenance Equipment Systems
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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<b>Line Item MDAP/MAIS Code:</b> N/A	<b>Item MDAP/MAIS Code(s):</b> N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	46	46	60	96	11	107	77	116	185	168	Continuing	Continuing
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	276.996	27.776	25.270	35.694	1.609	37.303	28.776	41.007	53.763	50.501	Continuing	Continuing
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	276.996	27.776	25.270	35.694	1.609	37.303	28.776	41.007	53.763	50.501	Continuing	Continuing
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>276.996</b>	<b>27.776</b>	<b>25.270</b>	<b>35.694</b>	<b>1.609</b>	<b>37.303</b>	<b>28.776</b>	<b>41.007</b>	<b>53.763</b>	<b>50.501</b>	<b>Continuing</b>	<b>Continuing</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost ( <i>\$ in Thousands</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Thousands</i> )	6,021.652	603.826	421.167	371.813	146.273	348.626	373.714	353.509	290.611	300.601	Continuing	Continuing

**Description:**

The Mobile Maintenance Equipment Systems (MMES) employs a system of systems approach to provide two-level maintenance capability to the Warfighter. Eight inter-connected maintenance systems distributed throughout the Army at multiple levels and echelons provide a holistic repair capability in all environments. This approach meets the Army's two-level maintenance philosophy and supports the current force while also providing modular configurations to meet the specific needs of the Army maintainer in today's transforming environment. The MMES family of systems includes Metal Working and Machining Shop Set, Fire Suppression Refill System, Armament Repair Shop Set, Hydraulic Systems Test and Repair Unit, Shop Equipment Welding, Shop Equipment Contact Maintenance, Forward Repair System, and Standard Automotive Tool Set.

The Metal Working and Machining Shop Set (MWMSS) program is a Shelter Mounted Set that assembles and packages tool load configurations based on the 91E (Allied Trades) Military Occupational Specialty (MOS). The MWMSS assembles and packages a tool load configuration to replace multiple obsolete Line Item Numbers (LINs) without losing any capability while reducing the logistics footprint. MWMSS increases safety and supportability for Allied Trades soldiers and delivers state of the art machining capabilities using two module types, Type I and Type II. Type I contains a Computer Numeric Controlled (CNC) Lathe, Mill Drill, Multi-Process Welding, Thermal Cutting equipment, Air-Arc Gouging, air compressor, Mobile Electric Power (MEP) generator for shop power, Environmental Control Unit (ECU), and an assortment of hand/air tools. Type II augments Type I and contains a CNC Milling Machine, Plasma table, ECU, and an assortment of hand/air tools. The MWMSS is transportable by standard ground (PLS/LHS), air (C-130), rail and sea assets. MWMSS is being produced organically by the Joint Manufacturing Technology Center in Rock Island, IL. Army Acquisition Objective (AAO) of MWMSS is 277 Type I and 190 Type II.

The Fire Suppression Refill System (FSRS) will be a modular, flexible, standardized fire suppression refill station consisting of a transportable ISO 8x8x20 container with an integrated Environmental Control Unit (ECU). The FSRS will be an integrated unit equipped for safe performance of refilling fire suppression bottles and systems. The FSRS will consist of an enclosure (capable of stand-alone or trailer-mounted operation) containing the tools and equipment needed to fulfill the required refill tasks and a trailer for transportation. The FSRS provides the capability to refill the vast majority of fire suppression bottles and systems currently fielded. These systems include both man portable systems as well as the fire suppression systems that can be found in military vehicles. The FSRS shall operate in every Support Maintenance Company (SMC) and Field Maintenance Company (FMC), Ground Support Sections. The FSRS will be deployed and employed in all geographical locations and environments where the U.S. Army operates. FSRS is being produced organically by the Joint Manufacturing Technology Center in Rock Island, IL. Army Acquisition Objective (AAO) of FSRS is 171 systems.

The Armament Repair Shop Set (ARSS) provides technological advancements and professional-grade tools with lifetime warranties, which will bring a savings to the Army for many years. The ARSS consolidates four Line Item Numbers (LINs) to one and equips our forces with the most current and accurate tools to complete the mission while performing maintenance on the latest technologically advanced weaponry from small arms to field artillery. The consolidation of the four LINs to one results in a reduction from four tactical vehicles required to transport the individual shop sets to just one tactical vehicle to

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**Exhibit P-40, Budget Line Item Justification:** PB 2017 Army **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 45: Maintenance Equipment	<b>P-1 Line Item Number / Title:</b> G05301 / Mobile Maintenance Equipment Systems
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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<b>Line Item MDAP/MAIS Code:</b> N/A	<b>Item MDAP/MAIS Code(s):</b> N/A
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transport the ARSS. In addition, the ARSS eliminates a 51% tool redundancy across the previous six armament shop sets while reducing 43% of the armament repair tools in the field. The ARSS significantly improves on-site maintenance capability with increased proficiency and deployability. The ARSS provides a field/sustainment level maintenance and repair support platform for armament weapon systems to support units across the full spectrum of military operations. By providing on-system maintenance repairs to weapon systems and/or components as far forward as possible on the battlefield, ARSS enables major combat systems to quickly return to the fight. The ARSS will be fielded to the Infantry Brigade Combat Teams (IBCTs), Heavy Brigade Combat Teams (HBCTs), Stryker Brigade Combat Teams (SBCTs), Support Maintenance Companies (SMCs), Component Repair Companies (CRCs), and Forward Support Companies (FSCs). ARSS is being produced organically by the Tobyhanna Army Depot, in Tobyhanna, PA. Army Acquisition Objective (AAO) of ARSS is 995.

The Hydraulic Systems Test and Repair Unit (HSTRU) is a robust hydraulic repair system capable of supporting four trained ordnance/engineer soldiers at one time to conduct maintenance operations. It provides the capability to fabricate industry standard crimp-style hydraulic replacement hoses of all sizes, types, and end configurations as required to restore the hydraulic systems on battle damaged or otherwise non-mission capable equipment. HSTRU also provides the ability to fabricate industry standard steel replacement hydraulic tubes used in brake lines and other high pressure applications and bends and flares these tubes as required to create a proper replacement item. The HSTRU includes an on-system diagnostic test meter that is used for troubleshooting hydraulic problems on the supported platforms. It is a trailer-mounted system with a weather tight enclosure that is configured for rapid setup for use at the point of need. It can be deployed forward on the battlefield for battle damage repair or operated in the motor pool. The HSTRU is highly transportable on or to the battlefield by light tactical vehicle towing, highway trucks, helicopter sling load, C-130 and larger fixed-wing aircraft, lighterage and larger marine vessels, and rail. Approved Acquisition Objective (AAO) is 691.

The Shop Equipment, Welding Trailer (SEW) provides a full spectrum of welding capabilities throughout the battlefield and repairs may be performed in all weather, climatic and light conditions. The SEW is a 100% duty cycle welder that can operate continuously until all welds, cutting and repairs are finished and finalized. The SEW provides heavy-duty, on-site welding capability with increased mobility and deployability. The SEW integrates commercial off the shelf (COTS) and non-developmental item (NDI) components in an enclosure mounted on an M103A3 Trailer. The SEW will provide welding repairs to tactical engineer and ordnance maintenance units. The SEW supports two level maintenance utilizing the only qualified welders in the Army (44B). The SEW provides the capability to perform Shielded Metal Arc Welding (SMAW) "STICK", Flux Cored Arc Welding (FCAW), Gas Tungsten Arc Welding (GTAW) "TIG", and Air-Carbon Arc Cutting (AAC) "Arc gouging". The SEW also provides capability to perform Oxy-fuel Gas Welding (OFW), Oxy-fuel Gas Cutting (OFC) and Torch Brazing (TB). The SEW provides compressed air on demand, electrical power for lights and electric hand tools, and an illuminated work surface with a vise. Approved Acquisition Objective (AAO) is 992.

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	Quantity	23	25	36	11	47	28	44	89	68
	Total Obligation Authority	13.138	10.987	14.304	1.609	15.913	11.606	16.100	26.287	18.686
ANG	Quantity	20	29	44	-	44	36	53	75	84
	Total Obligation Authority	12.146	12.018	16.677	-	16.677	13.731	19.639	21.649	26.113
AR	Quantity	3	6	16	-	16	13	19	21	18
	Total Obligation Authority	2.492	2.265	4.713	-	4.713	3.439	5.268	5.827	5.702
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	<b>46</b>	<b>60</b>	<b>96</b>	<b>11</b>	<b>107</b>	<b>77</b>	<b>116</b>	<b>185</b>	<b>170</b>
	<b>Total Obligation Authority</b>	<b>27.776</b>	<b>25.270</b>	<b>35.694</b>	<b>1.609</b>	<b>37.303</b>	<b>28.776</b>	<b>41.007</b>	<b>53.763</b>	<b>50.501</b>

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**Exhibit P-40, Budget Line Item Justification:** PB 2017 Army **Date:** February 2016

**Appropriation / Budget Activity / Budget Sub Activity:**  
2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 45: Maintenance Equipment

**P-1 Line Item Number / Title:**  
G05301 / Mobile Maintenance Equipment Systems

**ID Code** (A=Service Ready, B=Not Service Ready): **Program Elements for Code B Items:** N/A **Other Related Program Elements:** N/A

**Line Item MDAP/MAIS Code:** N/A **Item MDAP/MAIS Code(s):** N/A

Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	G05315 / METAL WORKING AND MACHING SHOP SET (MWMSS)	P-5a, P-21	B	14 / 9.020	20 / 10.931	15 / 9.342	36 / 13.252	- / -	36 / 13.252
P-5	G05320 / FIRE SUPPRESSION REFILL SYSTEM (FSRS)	P-5a, P-21	B	- / -	1 / 4.656	20 / 5.542	13 / 4.560	- / -	13 / 4.560
P-5	G05330 / ARMAMENT REPAIR SHOP SET (ARSS)	P-5a, P-21	B	6 / 3.157	25 / 12.189	25 / 10.386	32 / 15.108	- / -	32 / 15.108
P-5	G39200 / Hydraulic Systems Test and Repair Unit (HSTRU)	P-5a, P-21	A	26 / 47.260	- / -	- / -	9 / 1.475	11 / 1.609	20 / 3.084
P-5	M62700 / Shop Equipment, Welding (SEW)	P-5a, P-21		- / 217.559	- / -	- / -	6 / 1.299	- / -	6 / 1.299
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>			<b>46 / 276.996</b>	<b>46 / 27.776</b>	<b>60 / 25.270</b>	<b>96 / 35.694</b>	<b>11 / 1.609</b>	<b>107 / 37.303</b>

\*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

**Justification:**

The Mobile Maintenance Equipment Systems are maintenance multipliers that mobilize mechanics and maintenance equipment to repair damaged light, medium, and heavy Combat and Combat Support systems in the Brigade Combat Teams (BCTs) and Combat Aviation Brigades (CABs) as close to the front lines as is safely possible. The MMES significantly increases the capability of forward maintenance units to conduct necessary battlefield repairs. With the MMES, systems and Soldiers do not have to wait for recovery vehicles to arrive and remove the system from the battlefield, thus reducing risk to the Soldiers and equipment.

Fire Suppression Refill System (FSRS): FY 17 Base Procurement dollars in the amount of \$4.560 million support 13 FSRS to be fielded to Armored Brigade Combat Teams and Stryker Brigade Combat Teams and Support Maintenance Companies (SMC).

Metal Working and Machining Shop Set (MWMSS): FY17 Base Procurement dollars in the amount of \$13.252 million supports 36 MWMSS modules (18 Type I and 18 Type II) to be fielded to Active, Guard and Reserve units. MWMSS represents a significant upgrade in technology and replaces several outdated LINs.

Armament Repair Shop Set (ARSS): FY17 Base procurement dollars in the amount of \$15.108 million support 32 ARSS to be fielded to the Infantry Brigade Combat Teams (IBCTs), Heavy Brigade Combat Teams (HBCTs), Stryker Brigade Combat Teams (SBCTs), Support Maintenance Companies (SMCs), Component Repair Companies (CRCs), and Forward Support Companies (FSCs). ARSS replaces six Line Item Numbers (LINs) and provides the capability for forward maintenance for multiple weapon systems.

Hydraulic System Test and Repair Unit (HSTRU): FY17 Base procurement dollars in the amount of \$1.475 million will purchase 9 HSTRU to be fielded to the Infantry Brigade Combat Teams (IBCTs), Heavy Brigade Combat Teams (HBCTs), Stryker Brigade Combat Teams (SBCTs), Support Maintenance Companies (SMCs), Component Repair Companies (CRCs), and Forward Support Companies (FSCs). FY17 OCO Procurement funds in the amount of \$1.609 million will purchase 11 HSTRU to support the COCOM requirement for unit equipment sets to deter potential adversaries and support the European Reassurance Initiatives.

Shop Equipment, Welding (SEW): FY17 Base procurement dollars in the amount of \$1.299 million will purchase 6 SEW to be fielded to the Infantry Brigade Combat Teams (IBCTs), Heavy Brigade Combat Teams (HBCTs), Stryker Brigade Combat Teams (SBCTs), Support Maintenance Companies (SMCs), Component Repair Companies (CRCs), and Forward Support Companies (FSCs).

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

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<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 45		<b>P-1 Line Item Number / Title:</b> G05301 / Mobile Maintenance Equipment Systems
		<b>Item Number / Title [DODIC]:</b> G05315 / METAL WORKING AND MACHING SHOP SET (MWMSS)

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : B	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	14	20	15	36	-	36
Gross/Weapon System Cost (\$ in Millions)	9.020	10.931	9.342	13.252	-	13.252
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	9.020	10.931	9.342	13.252	-	13.252
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	<b>9.020</b>	<b>10.931</b>	<b>9.342</b>	<b>13.252</b>	<b>-</b>	<b>13.252</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	644.286	546.550	622.800	368.111	-	368.111

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
<b>Flyaway Cost</b>																		
Recurring Cost																		
Engineering Support	-	-	0.150	-	-	0.150	-	-	-	-	-	0.075	-	-	-	-	-	0.075
Quality Assurance Support	-	-	0.160	-	-	0.160	-	-	-	-	-	0.080	-	-	-	-	-	0.080
Engineer Change Proposal	-	-	0.135	-	-	0.164	-	-	0.140	-	-	0.199	-	-	-	-	-	0.199
<i>Subtotal: Recurring Cost</i>	-	-	<i>0.445</i>	-	-	<i>0.474</i>	-	-	<i>0.140</i>	-	-	<i>0.354</i>	-	-	-	-	-	<i>0.354</i>
<i>Subtotal: Flyaway Cost</i>	-	-	<i>0.445</i>	-	-	<i>0.474</i>	-	-	<i>0.140</i>	-	-	<i>0.354</i>	-	-	-	-	-	<i>0.354</i>
<b>Hardware Cost</b>																		
Recurring Cost																		
Metal Working Machining Shop Set Type I <sup>(†)</sup>	-	-	4.382	525.000	10	5.250	626.000	8	5.008	375.000	18	6.750	-	-	-	375.000	18	6.750
Metal Working Machining Shop Set Type II <sup>(†)</sup>	-	-	3.276	366.000	10	3.660	468.000	7	3.276	285.000	18	5.130	-	-	-	285.000	18	5.130
<i>Subtotal: Recurring Cost</i>	-	-	<i>7.658</i>	-	-	<i>8.910</i>	-	-	<i>8.284</i>	-	-	<i>11.880</i>	-	-	-	-	-	<i>11.880</i>
<i>Subtotal: Hardware Cost</i>	-	-	<i>7.658</i>	-	-	<i>8.910</i>	-	-	<i>8.284</i>	-	-	<i>11.880</i>	-	-	-	-	-	<i>11.880</i>
<b>Package Fielding Cost</b>																		
Recurring Cost																		
Fielding Support	-	-	0.150	-	-	0.240	-	-	0.240	-	-	0.320	-	-	-	-	-	0.320



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<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 45	<b>P-1 Line Item Number / Title:</b> G05301 / Mobile Maintenance Equipment Systems	<b>Item Number / Title [DODIC]:</b> G05315 / METAL WORKING AND MACHING SHOP SET (MWMSS)
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : B		<b>MDAP/MAIS Code:</b>

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Transportation	-	-	-	-	-	0.200	-	-	-	-	-	0.126	-	-	-	-	-	0.126
Tech Manuals	-	-	-	-	-	0.397	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	0.150	-	-	0.837	-	-	0.240	-	-	0.446	-	-	-	-	-	0.446
<i>Subtotal: Package Fielding Cost</i>	-	-	0.150	-	-	0.837	-	-	0.240	-	-	0.446	-	-	-	-	-	0.446
Support - Program Management Cost																		
Government Management	-	-	0.767	-	-	0.710	-	-	0.678	-	-	0.572	-	-	-	-	-	0.572
<i>Subtotal: Support - Program Management Cost</i>	-	-	0.767	-	-	0.710	-	-	0.678	-	-	0.572	-	-	-	-	-	0.572
<b>Gross/Weapon System Cost</b>	<b>644.286</b>	<b>14</b>	<b>9.020</b>	<b>546.550</b>	<b>20</b>	<b>10.931</b>	<b>622.800</b>	<b>15</b>	<b>9.342</b>	<b>368.111</b>	<b>36</b>	<b>13.252</b>	-	-	-	<b>368.111</b>	<b>36</b>	<b>13.252</b>

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	11	5	14	-	14
	Total Obligation Authority	5.882	3.854	5.360	-	5.360
ANG	Quantity	7	8	16	-	16
	Total Obligation Authority	3.927	4.392	6.084	-	6.084
AR	Quantity	2	2	6	-	6
	Total Obligation Authority	1.122	1.096	1.808	-	1.808
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	<b>20</b>	<b>15</b>	<b>36</b>	-	<b>36</b>
	<b>Total Obligation Authority</b>	<b>10.931</b>	<b>9.342</b>	<b>13.252</b>	-	<b>13.252</b>

(t) indicates the presence of a P-5a

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<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2017 Army							<b>Date:</b> February 2016				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 45			<b>P-1 Line Item Number / Title:</b> G05301 / Mobile Maintenance Equipment Systems				<b>Item Number / Title [DODIC]:</b> G05315 / METAL WORKING AND MACHING SHOP SET (MWMSS)				

Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
Metal Working Machining Shop Set Type I <sup>(t)</sup>		2015	JMTC / Rock Island	MIPR	JMTC, Rock Island, IL	Nov 2014	Apr 2015	10	525.000			
Metal Working Machining Shop Set Type I <sup>(t)</sup>		2016	JMTC / Rock Island	MIPR	JMTC, Rock Island, IL	Nov 2015	Apr 2016	8	626.000			
Metal Working Machining Shop Set Type I <sup>(t)</sup>		2017	JMTC / Rock Island	MIPR	JMTC, Rock Island, IL	Nov 2016	Apr 2017	18	375.000			
Metal Working Machining Shop Set Type II <sup>(t)</sup>		2015	JMTC / Rock Island	MIPR	JMTC, Rock Island, IL	Nov 2014	Apr 2015	10	366.000			
Metal Working Machining Shop Set Type II <sup>(t)</sup>		2016	JMTC / Rock Island	MIPR	JMTC, Rock Island, IL	Nov 2015	Apr 2016	7	468.000			
Metal Working Machining Shop Set Type II <sup>(t)</sup>		2017	JMTC / Rock Island	MIPR	JMTC, Rock Island, IL	Nov 2016	Apr 2017	18	285.000			

<sup>(t)</sup> indicates the presence of a P-21

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<b>Exhibit P-21, Production Schedule:</b> PB 2017 Army															<b>Date:</b> February 2016														
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 45										<b>P-1 Line Item Number / Title:</b> G05301 / Mobile Maintenance Equipment Systems										<b>Item Number / Title [DODIC]:</b> G05315 / METAL WORKING AND MACHING SHOP SET (MWMSS)									

Cost Elements <i>(Units in Each)</i>					Fiscal Year 2015															Fiscal Year 2016															B A L A N C E			
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2014	BAL DUE AS OF 1 OCT	Calendar Year 2015															Calendar Year 2016																
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P								
<b>Metal Working Machining Shop Set Type I</b>																																						
	1	2015	ARMY	10	-	10		A	-	-	-	-	-	-	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	-		
	1	2016	ARMY	8	-	8																																4
	1	2017	ARMY	18	-	18																																18
<b>Metal Working Machining Shop Set Type II</b>																																						
	2	2015	ARMY	10	-	10		A	-	-	-	-	-	-	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	2	2016	ARMY	7	-	7																																3
	2	2017	ARMY	18	-	18																																18

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<b>Exhibit P-21, Production Schedule:</b> PB 2017 Army															<b>Date:</b> February 2016														
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 45										<b>P-1 Line Item Number / Title:</b> G05301 / Mobile Maintenance Equipment Systems										<b>Item Number / Title [DODIC]:</b> G05315 / METAL WORKING AND MACHING SHOP SET (MWMSS)									

Cost Elements <i>(Units in Each)</i>					Fiscal Year 2017												Fiscal Year 2018												B A L A N C E		
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2016	BAL DUE AS OF 1 OCT	Calendar Year 2017												Calendar Year 2018												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L		A U G	S E P
<b>Metal Working Machining Shop Set Type I</b>																															
	1	2015	ARMY	10	10	-																							-		
	1	2016	ARMY	8	4	4	1	1	-	1	-	1																	-		
	1	2017	ARMY	18	-	18		A	-	-	-	-	-	1	1	1	1	1	2	2	2	1	2	2	2	2			-		
<b>Metal Working Machining Shop Set Type II</b>																															
	2	2015	ARMY	10	9	1																							1		
	2	2016	ARMY	7	4	3	1	-	1	-	1																		-		
	2	2017	ARMY	18	-	18		A	-	-	-	-	-	1	1	1	1	1	1	2	2	2	2	2	2	2			-		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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<b>Exhibit P-21, Production Schedule:</b> PB 2017 Army		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 45		<b>P-1 Line Item Number / Title:</b> G05301 / Mobile Maintenance Equipment Systems
		<b>Item Number / Title [DODIC]:</b> G05315 / METAL WORKING AND MACHING SHOP SET (MWMSS)

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2017	1-8-5 For 2017	MAX For 2017	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	JMTC - Rock Island	1	10	15	-	2	8	10	-	2	5	7
2	JMTC - Rock Island	1	10	15	-	2	8	10	-	2	5	7

"A" in the Delivery Schedule indicates the Contract Award Date.

**Note:** Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 45	<b>P-1 Line Item Number / Title:</b> G05301 / Mobile Maintenance Equipment Systems	<b>Item Number / Title [DODIC]:</b> G05320 / FIRE SUPPRESSION REFILL SYSTEM (FSRS)

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : B	<b>MDAP/MAIS Code:</b>
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<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>
Procurement Quantity (Units in Each)	-	1	20	13	-	13
Gross/Weapon System Cost (\$ in Millions)	-	4.656	5.542	4.560	-	4.560
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	4.656	5.542	4.560	-	4.560
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	-	<b>4.656</b>	<b>5.542</b>	<b>4.560</b>	-	<b>4.560</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	4,656.000	277.100	350.769	-	350.769

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

<b>Cost Elements</b>	<b>Prior Years</b>			<b>FY 2015</b>			<b>FY 2016</b>			<b>FY 2017 Base</b>			<b>FY 2017 OCO</b>			<b>FY 2017 Total</b>		
	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>
<b>Flyaway Cost</b>																		
Recurring Cost																		
Engineering Support	-	-	-	-	-	0.160	-	-	-	-	-	0.100	-	-	-	-	-	0.100
Quality Assurance Support	-	-	-	-	-	0.160	-	-	-	-	-	0.120	-	-	-	-	-	0.120
Engineering Change Proposals	-	-	-	-	-	0.070	-	-	-	-	-	0.070	-	-	-	-	-	0.070
Transportation	-	-	-	-	-	0.106	-	-	0.132	-	-	0.132	-	-	-	-	-	0.132
<b>Subtotal: Recurring Cost</b>	-	-	-	-	-	<b>0.496</b>	-	-	<b>0.132</b>	-	-	<b>0.422</b>	-	-	-	-	-	<b>0.422</b>
<b>Subtotal: Flyaway Cost</b>	-	-	-	-	-	<b>0.496</b>	-	-	<b>0.132</b>	-	-	<b>0.422</b>	-	-	-	-	-	<b>0.422</b>
<b>Hardware Cost</b>																		
Recurring Cost																		
Fire Suppression Refill System Hardware <sup>(1)</sup>	-	-	-	224.000	16	3.584	235.000	20	4.700	273.000	13	3.549	-	-	-	273.000	13	3.549
<b>Subtotal: Recurring Cost</b>	-	-	-	-	-	<b>3.584</b>	-	-	<b>4.700</b>	-	-	<b>3.549</b>	-	-	-	-	-	<b>3.549</b>
<b>Subtotal: Hardware Cost</b>	-	-	-	-	-	<b>3.584</b>	-	-	<b>4.700</b>	-	-	<b>3.549</b>	-	-	-	-	-	<b>3.549</b>
<b>Package Fielding Cost</b>																		
Recurring Cost																		
Fielding	-	-	-	-	-	0.250	-	-	0.378	-	-	0.240	-	-	-	-	-	0.240
<b>Subtotal: Recurring Cost</b>	-	-	-	-	-	<b>0.250</b>	-	-	<b>0.378</b>	-	-	<b>0.240</b>	-	-	-	-	-	<b>0.240</b>
<b>Subtotal: Package Fielding Cost</b>	-	-	-	-	-	<b>0.250</b>	-	-	<b>0.378</b>	-	-	<b>0.240</b>	-	-	-	-	-	<b>0.240</b>

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<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 45	<b>P-1 Line Item Number / Title:</b> G05301 / Mobile Maintenance Equipment Systems	<b>Item Number / Title [DODIC]:</b> G05320 / FIRE SUPPRESSION REFILL SYSTEM (FSRS)
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : B		<b>MDAP/MAIS Code:</b>

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Support Cost																		
Program Support	-	-	-	-	-	0.326	-	-	0.332	-	-	0.349	-	-	-	-	-	0.349
<i>Subtotal: Support Cost</i>	-	-	-	-	-	<b>0.326</b>	-	-	<b>0.332</b>	-	-	<b>0.349</b>	-	-	-	-	-	<b>0.349</b>
<b>Gross/Weapon System Cost</b>	-	-	-	<b>4,656.000</b>	<b>1</b>	<b>4.656</b>	<b>277.100</b>	<b>20</b>	<b>5.542</b>	<b>350.769</b>	<b>13</b>	<b>4.560</b>	-	-	-	<b>350.769</b>	<b>13</b>	<b>4.560</b>

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	1	10	4	-	4
	Total Obligation Authority	4.656	2.771	1.580	-	1.580
ANG	Quantity	-	9	7	-	7
	Total Obligation Authority	-	2.433	2.418	-	2.418
AR	Quantity	-	1	2	-	2
	Total Obligation Authority	-	0.338	0.562	-	0.562
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	<b>1</b>	<b>20</b>	<b>13</b>	<b>-</b>	<b>13</b>
	<b>Total Obligation Authority</b>	<b>4.656</b>	<b>5.542</b>	<b>4.560</b>	<b>-</b>	<b>4.560</b>

(t) indicates the presence of a P-5a

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<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2017 Army							<b>Date:</b> February 2016				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 45			<b>P-1 Line Item Number / Title:</b> G05301 / Mobile Maintenance Equipment Systems				<b>Item Number / Title [DODIC]:</b> G05320 / FIRE SUPPRESSION REFILL SYSTEM (FSRS)				

<b>Cost Elements</b>	<b>O C O</b>	<b>FY</b>	<b>Contractor and Location</b>	<b>Method/Type or Funding Vehicle</b>	<b>Location of PCO</b>	<b>Award Date</b>	<b>Date of First Delivery</b>	<b>Qty (Each)</b>	<b>Unit Cost (\$ K)</b>	<b>Specs Avail Now?</b>	<b>Date Revision Available</b>	<b>RFP Issue Date</b>
Fire Suppression Refill System Hardware <sup>(†)</sup>		2015	JMTC / Rock Island Arsenal	MIPR	JMTC, Rock Island, IL	Nov 2014	Apr 2015	16	224.000			
Fire Suppression Refill System Hardware <sup>(†)</sup>		2016	JMTC / Rock Island Arsenal	MIPR	JMTC, Rock Island, IL	Nov 2015	Apr 2016	20	235.000			
Fire Suppression Refill System Hardware <sup>(†)</sup>		2017	JMTC / Rock Island Arsenal	MIPR	JMTC, Rock Island, IL	Nov 2016	Apr 2017	13	273.000			

<sup>(†)</sup> indicates the presence of a P-21



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<b>Exhibit P-21, Production Schedule:</b> PB 2017 Army															<b>Date:</b> February 2016														
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 45										<b>P-1 Line Item Number / Title:</b> G05301 / Mobile Maintenance Equipment Systems										<b>Item Number / Title [DODIC]:</b> G05320 / FIRE SUPPRESSION REFILL SYSTEM (FSRS)									

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2015												Fiscal Year 2016												B A L A N C E	
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2014	BAL DUE AS OF 1 OCT	Calendar Year 2015												Calendar Year 2016												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P
Fire Suppression Refill System Hardware																															
	1	2015	ARMY	16	-	16		A	-	-	-	-	-	1	1	1	1	1	1	1	2	1	2	2	2					-	
	1	2016	ARMY	20	-	20															A	-	-	-	-	2	2	2	2	2	8
	1	2017	ARMY	13	-	13																								13	
							O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	
							C	O	E	A	E	A	P	A	U	U	U	E	C	O	V	E	A	E	A	A	U	U	A	S	
							T	V	C	N	B	R	R	Y	N	L	G	P	T												

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<b>Exhibit P-21, Production Schedule:</b> PB 2017 Army															<b>Date:</b> February 2016														
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 45										<b>P-1 Line Item Number / Title:</b> G05301 / Mobile Maintenance Equipment Systems										<b>Item Number / Title [DODIC]:</b> G05320 / FIRE SUPPRESSION REFILL SYSTEM (FSRS)									

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2017												Fiscal Year 2018												B A L A N C E	
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2016	BAL DUE AS OF 1 OCT	Calendar Year 2017												Calendar Year 2018												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P
Fire Suppression Refill System Hardware																															
	1	2015	ARMY	16	16	-																							-		
	1	2016	ARMY	20	12	8	2	2	1	1	1	1																	-		
	1	2017	ARMY	13	-	13		A	-	-	-	-	-	1	1	1	1	1	1	1	1	1	1	1	2				-		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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<b>Exhibit P-21, Production Schedule:</b> PB 2017 Army		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 45		<b>P-1 Line Item Number / Title:</b> G05301 / Mobile Maintenance Equipment Systems
		<b>Item Number / Title [DODIC]:</b> G05320 / FIRE SUPPRESSION REFILL SYSTEM (FSRS)

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2017	1-8-5 For 2017	MAX For 2017	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	JMTC - Rock Island Arsenal	1	5	10	-	2	5	7	-	2	5	7

"A" in the Delivery Schedule indicates the Contract Award Date.

**Note:** Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

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<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 45	<b>P-1 Line Item Number / Title:</b> G05301 / Mobile Maintenance Equipment Systems	<b>Item Number / Title [DODIC]:</b> G05330 / ARMAMENT REPAIR SHOP SET (ARSS)

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : B	<b>MDAP/MAIS Code:</b>
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<b>Resource Summary</b>		<b>Prior Years</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>
Procurement Quantity ( <i>Units in Each</i> )		6	25	25	32	-	32
Gross/Weapon System Cost ( <i>\$ in Millions</i> )		3.157	12.189	10.386	15.108	-	15.108
Less PY Advance Procurement ( <i>\$ in Millions</i> )		-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )		3.157	12.189	10.386	15.108	-	15.108
Plus CY Advance Procurement ( <i>\$ in Millions</i> )		-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )		<b>3.157</b>	<b>12.189</b>	<b>10.386</b>	<b>15.108</b>	-	<b>15.108</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Thousands</i> )	526.167	487.560	415.440	472.125	-	472.125	

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

<b>Cost Elements</b>	<b>Prior Years</b>			<b>FY 2015</b>			<b>FY 2016</b>			<b>FY 2017 Base</b>			<b>FY 2017 OCO</b>			<b>FY 2017 Total</b>		
	<b>Unit Cost</b> (\$ K)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ K)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ K)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ K)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ K)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ K)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)
<b>Flyaway Cost</b>																		
Recurring Cost																		
Engineering	-	-	0.120	-	-	0.100	-	-	0.075	-	-	0.150	-	-	-	-	-	0.150
Quality Assurance	-	-	0.040	-	-	0.080	-	-	0.038	-	-	0.040	-	-	-	-	-	0.040
Engineering Change Proposals	-	-	0.047	-	-	0.182	-	-	0.050	-	-	0.226	-	-	-	-	-	0.226
Transportation	-	-	0.010	-	-	0.050	-	-	0.050	-	-	0.078	-	-	-	-	-	0.078
<i>Subtotal: Recurring Cost</i>	-	-	<i>0.217</i>	-	-	<i>0.412</i>	-	-	<i>0.213</i>	-	-	<i>0.494</i>	-	-	-	-	-	<i>0.494</i>
<i>Subtotal: Flyaway Cost</i>	-	-	<i>0.217</i>	-	-	<i>0.412</i>	-	-	<i>0.213</i>	-	-	<i>0.494</i>	-	-	-	-	-	<i>0.494</i>
<b>Hardware Cost</b>																		
Recurring Cost																		
ARSS Hardware <sup>(†)</sup>	436.000	6	2.615	422.280	25	10.557	395.000	25	9.875	420.000	32	13.440	-	-	-	420.000	32	13.440
<i>Subtotal: Recurring Cost</i>	-	-	<i>2.616</i>	-	-	<i>10.557</i>	-	-	<i>9.875</i>	-	-	<i>13.440</i>	-	-	-	-	-	<i>13.440</i>
<i>Subtotal: Hardware Cost</i>	-	-	<i>2.616</i>	-	-	<i>10.557</i>	-	-	<i>9.875</i>	-	-	<i>13.440</i>	-	-	-	-	-	<i>13.440</i>
<b>Package Fielding Cost</b>																		
Recurring Cost																		
Fielding Support	-	-	0.120	-	-	0.200	-	-	0.050	-	-	0.140	-	-	-	-	-	0.140
<i>Subtotal: Recurring Cost</i>	-	-	<i>0.120</i>	-	-	<i>0.200</i>	-	-	<i>0.050</i>	-	-	<i>0.140</i>	-	-	-	-	-	<i>0.140</i>
<i>Subtotal: Package Fielding Cost</i>	-	-	<i>0.120</i>	-	-	<i>0.200</i>	-	-	<i>0.050</i>	-	-	<i>0.140</i>	-	-	-	-	-	<i>0.140</i>
<b>Support Cost</b>																		

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<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 45	<b>P-1 Line Item Number / Title:</b> G05301 / Mobile Maintenance Equipment Systems	<b>Item Number / Title [DODIC]:</b> G05330 / ARMAMENT REPAIR SHOP SET (ARSS)

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : B	<b>MDAP/MAIS Code:</b>
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Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Program Support	-	-	0.204	-	-	1.020	-	-	0.248	-	-	1.034	-	-	-	-	-	1.034
<i>Subtotal: Support Cost</i>	-	-	<b>0.204</b>	-	-	<b>1.020</b>	-	-	<b>0.248</b>	-	-	<b>1.034</b>	-	-	-	-	-	<b>1.034</b>
<b>Gross/Weapon System Cost</b>	<b>526.167</b>	<b>6</b>	<b>3.157</b>	<b>487.560</b>	<b>25</b>	<b>12.189</b>	<b>415.440</b>	<b>25</b>	<b>10.386</b>	<b>472.125</b>	<b>32</b>	<b>15.108</b>	-	-	-	<b>472.125</b>	<b>32</b>	<b>15.108</b>

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	11	10	14	-	14
	Total Obligation Authority	2.600	4.362	6.359	-	6.359
ANG	Quantity	13	12	14	-	14
	Total Obligation Authority	8.219	5.193	6.921	-	6.921
AR	Quantity	1	3	4	-	4
	Total Obligation Authority	1.370	0.831	1.828	-	1.828
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	<b>25</b>	<b>25</b>	<b>32</b>	-	<b>32</b>
	<b>Total Obligation Authority</b>	<b>12.189</b>	<b>10.386</b>	<b>15.108</b>	-	<b>15.108</b>

(t) indicates the presence of a P-5a

**UNCLASSIFIED**

<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2017 Army							<b>Date:</b> February 2016					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 45			<b>P-1 Line Item Number / Title:</b> G05301 / Mobile Maintenance Equipment Systems				<b>Item Number / Title [DODIC]:</b> G05330 / ARMAMENT REPAIR SHOP SET (ARSS)					

Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
ARSS Hardware <sup>(†)</sup>		2015	Tobyhanna Army Depot / Tobyhanna	MIPR	TOBYHANNA ARMY DEPOT, PA	Nov 2014	Feb 2015	25	422.280			
ARSS Hardware <sup>(†)</sup>		2016	Tobyhanna Army Depot / Tobyhanna	MIPR	TOBYHANNA ARMY DEPOT, PA	Nov 2015	Feb 2016	25	395.000			
ARSS Hardware <sup>(†)</sup>		2017	Tobyhanna Army Depot / Tobyhanna	MIPR	TOBYHANNA ARMY DEPOT, PA	Nov 2016	Feb 2017	32	420.000			

<sup>(†)</sup> indicates the presence of a P-21

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<b>Exhibit P-21, Production Schedule:</b> PB 2017 Army															<b>Date:</b> February 2016														
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 45										<b>P-1 Line Item Number / Title:</b> G05301 / Mobile Maintenance Equipment Systems										<b>Item Number / Title [DODIC]:</b> G05330 / ARMAMENT REPAIR SHOP SET (ARSS)									

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2015													Fiscal Year 2016													B A L A N C E	
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2014	BAL DUE AS OF 1 OCT	Calendar Year 2015													Calendar Year 2016													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			
ARSS Hardware																																	
Prior Years Deliveries: 6																																	
	1	2015	ARMY	25	-	25		A	-	-	-	1	1	1	2	2	2	2	2	3	3	3	3							-			
	1	2016	ARMY	25	-	25														A	-	-	-	3	2	2	2	2	2	2	8		
	1	2017	ARMY	32	-	32																								32			
								O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S		
								C	O	E	A	E	A	A	A	U	U	U	E	C	O	V	E	A	E	A	A	U	U	A	S		
								T	V	C	N	B	R	R	Y	N	L	G	P	T	V	C	N	B	R	R	Y	N	L	G	P		





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<b>Exhibit P-21, Production Schedule:</b> PB 2017 Army		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 45		<b>P-1 Line Item Number / Title:</b> G05301 / Mobile Maintenance Equipment Systems
		<b>Item Number / Title [DODIC]:</b> G05330 / ARMAMENT REPAIR SHOP SET (ARSS)

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2017	1-8-5 For 2017	MAX For 2017	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	Tobyhanna Army Depot - Tobyhanna	1	10	18	-	2	5	7	-	2	5	7

"A" in the Delivery Schedule indicates the Contract Award Date.

**Note:** Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

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<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 45	<b>P-1 Line Item Number / Title:</b> G05301 / Mobile Maintenance Equipment Systems	<b>Item Number / Title [DODIC]:</b> G39200 / Hydraulic Systems Test and Repair Unit (HSTRU)

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	26	-	-	9	11	20
Gross/Weapon System Cost (\$ in Millions)	47.260	-	-	1.475	1.609	3.084
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	47.260	-	-	1.475	1.609	3.084
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	<b>47.260</b>	-	-	<b>1.475</b>	<b>1.609</b>	<b>3.084</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	1,817.692	-	-	163.889	146.273	154.200

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
<b>Flyaway Cost</b>																		
Recurring Cost																		
Engineering	-	-	1.200	-	-	-	-	-	-	-	-	0.050	-	-	-	-	-	0.050
Quality Assurance	-	-	1.000	-	-	-	-	-	-	-	-	0.050	-	-	-	-	-	0.050
Engineering Change Proposals	-	-	1.479	-	-	-	-	-	-	-	-	0.020	-	-	-	-	-	0.020
Transportation	-	-	0.581	-	-	-	-	-	-	-	-	0.025	-	-	0.069	-	-	0.094
<i>Subtotal: Recurring Cost</i>	-	-	<i>4.260</i>	-	-	-	-	-	-	-	-	<i>0.145</i>	-	-	<i>0.069</i>	-	-	<i>0.214</i>
<i>Subtotal: Flyaway Cost</i>	-	-	<i>4.260</i>	-	-	-	-	-	-	-	-	<i>0.145</i>	-	-	<i>0.069</i>	-	-	<i>0.214</i>
<b>Hardware Cost</b>																		
Recurring Cost																		
Hydraulic Systems Test and Repair Unit <sup>(f)</sup>	107.706	309	33.281	-	-	-	-	-	-	131.000	9	1.179	131.000	11	1.441	131.000	20	2.620
<i>Subtotal: Recurring Cost</i>	-	-	<i>33.281</i>	-	-	-	-	-	-	-	-	<i>1.179</i>	-	-	<i>1.441</i>	-	-	<i>2.620</i>
<i>Subtotal: Hardware Cost</i>	-	-	<i>33.281</i>	-	-	-	-	-	-	-	-	<i>1.179</i>	-	-	<i>1.441</i>	-	-	<i>2.620</i>
<b>Package Fielding Cost</b>																		
Recurring Cost																		
Fielding Support	-	-	2.509	-	-	-	-	-	-	-	-	0.048	-	-	0.099	-	-	0.147
<i>Subtotal: Recurring Cost</i>	-	-	<i>2.509</i>	-	-	-	-	-	-	-	-	<i>0.048</i>	-	-	<i>0.099</i>	-	-	<i>0.147</i>
<i>Subtotal: Package Fielding Cost</i>	-	-	<i>2.509</i>	-	-	-	-	-	-	-	-	<i>0.048</i>	-	-	<i>0.099</i>	-	-	<i>0.147</i>
<b>Support Cost</b>																		

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<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 45		<b>P-1 Line Item Number / Title:</b> G05301 / Mobile Maintenance Equipment Systems
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A		<b>MDAP/MAIS Code:</b>
<b>Item Number / Title [DODIC]:</b> G39200 / Hydraulic Systems Test and Repair Unit (HSTRU)		

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Program Support	-	-	7.210	-	-	-	-	-	-	-	-	0.103	-	-	-	-	-	0.103
<i>Subtotal: Support Cost</i>	-	-	<b>7.210</b>	-	-	-	-	-	-	-	-	<b>0.103</b>	-	-	-	-	-	<b>0.103</b>
<b>Gross/Weapon System Cost</b>	<b>1,817.692</b>	<b>26</b>	<b>47.260</b>	-	-	-	-	-	-	<b>163.889</b>	<b>9</b>	<b>1.475</b>	<b>146.273</b>	<b>11</b>	<b>1.609</b>	<b>154.200</b>	<b>20</b>	<b>3.084</b>

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	-	-	2	11	13
	Total Obligation Authority	-	-	0.380	1.609	1.989
ANG	Quantity	-	-	4	-	4
	Total Obligation Authority	-	-	0.690	-	0.690
AR	Quantity	-	-	3	-	3
	Total Obligation Authority	-	-	0.405	-	0.405
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	-	-	<b>9</b>	<b>11</b>	<b>20</b>
	<b>Total Obligation Authority</b>	-	-	<b>1.475</b>	<b>1.609</b>	<b>3.084</b>

(t) indicates the presence of a P-5a

**UNCLASSIFIED**

<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2017 Army							<b>Date:</b> February 2016					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 45			<b>P-1 Line Item Number / Title:</b> G05301 / Mobile Maintenance Equipment Systems				<b>Item Number / Title [DODIC]:</b> G39200 / Hydraulic Systems Test and Repair Unit (HSTRU)					
<b>Cost Elements</b>	<b>O C O</b>	<b>FY</b>	<b>Contractor and Location</b>	<b>Method/Type or Funding Vehicle</b>	<b>Location of PCO</b>	<b>Award Date</b>	<b>Date of First Delivery</b>	<b>Qty (Each)</b>	<b>Unit Cost (\$ K)</b>	<b>Specs Avail Now?</b>	<b>Date Revision Available</b>	<b>RFP Issue Date</b>
Hydraulic Systems Test and Repair Unit <sup>(†)</sup>		2017	TBD / TBD	C / FFP	TACOM, Warren, MI	Nov 2016	Apr 2017	20	131.000			

<sup>(†)</sup> indicates the presence of a P-21

**UNCLASSIFIED**

<b>Exhibit P-21, Production Schedule:</b> PB 2017 Army															<b>Date:</b> February 2016														
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 45										<b>P-1 Line Item Number / Title:</b> G05301 / Mobile Maintenance Equipment Systems										<b>Item Number / Title [DODIC]:</b> G39200 / Hydraulic Systems Test and Repair Unit (HSTRU)									

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2017													Fiscal Year 2018													B A L A N C E	
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2016	BAL DUE AS OF 1 OCT	Calendar Year 2017													Calendar Year 2018													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			
Hydraulic Systems Test and Repair Unit																																	
Prior Years Deliveries: 309																																	
1	2017	ARMY		20	-	20		A	-	-	-	-	-	-	2	2	2	2	2	2	2	2	2	2	2	2	2	1	1	1	1	-	
							O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	A	M	J	J	A	S		
							C	O	E	A	E	A	P	A	U	U	U	E	C	O	V	E	A	E	A	P	A	U	U	U	E		
							T	V	C	N	B	R	R	Y	N	L	G	P	T	V	C	N	B	R	R	Y	N	L	U	G	P		

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<b>Exhibit P-21, Production Schedule:</b> PB 2017 Army		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 45		<b>P-1 Line Item Number / Title:</b> G05301 / Mobile Maintenance Equipment Systems
<b>Item Number / Title [DODIC]:</b> G39200 / Hydraulic Systems Test and Repair Unit (HSTRU)		

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2017	1-8-5 For 2017	MAX For 2017	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	TBD - TBD	1	10	18	-	2	5	7	-	2	5	7

"A" in the Delivery Schedule indicates the Contract Award Date.

**Note:** Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

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<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 45		<b>P-1 Line Item Number / Title:</b> G05301 / Mobile Maintenance Equipment Systems
		<b>Item Number / Title [DODIC]:</b> M62700 / Shop Equipment, Welding (SEW)

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :				<b>MDAP/MAIS Code:</b>					
<b>Resource Summary</b>				<b>Prior Years</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>
Procurement Quantity (Units in Each)				-	-	-	6	-	6
Gross/Weapon System Cost (\$ in Millions)				217.559	-	-	1.299	-	1.299
Less PY Advance Procurement (\$ in Millions)				-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)				217.559	-	-	1.299	-	1.299
Plus CY Advance Procurement (\$ in Millions)				-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>				<b>217.559</b>	-	-	<b>1.299</b>	-	<b>1.299</b>
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>									
Initial Spares (\$ in Millions)				-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)				-	-	-	216.500	-	216.500

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
Engineering Change Proposals	-	-	3.263	-	-	-	-	-	-	-	-	0.020	-	-	-	-	-	0.020
Engineering Support	-	-	-	-	-	-	-	-	-	-	-	0.160	-	-	-	-	-	0.160
Quality Assurance	-	-	-	-	-	-	-	-	-	-	-	0.040	-	-	-	-	-	0.040
<i>Subtotal: Recurring Cost</i>	-	-	3.263	-	-	-	-	-	-	-	-	0.220	-	-	-	-	-	0.220
<i>Subtotal: Flyaway Cost</i>	-	-	<b>3.263</b>	-	-	-	-	-	-	-	-	<b>0.220</b>	-	-	-	-	-	<b>0.220</b>
Hardware Cost																		
Recurring Cost																		
Shop Equipment Welding <sup>(†)</sup>	227.410	879	199.893	-	-	-	-	-	-	125.000	6	0.750	-	-	-	125.000	6	0.750
<i>Subtotal: Recurring Cost</i>	-	-	199.893	-	-	-	-	-	-	-	-	0.750	-	-	-	-	-	0.750
<i>Subtotal: Hardware Cost</i>	-	-	<b>199.893</b>	-	-	-	-	-	-	-	-	<b>0.750</b>	-	-	-	-	-	<b>0.750</b>
Package Fielding Cost																		
Recurring Cost																		
Fielding	-	-	1.350	-	-	-	-	-	-	-	-	0.150	-	-	-	-	-	0.150
Transportation	-	-	-	-	-	-	-	-	-	-	-	0.060	-	-	-	-	-	0.060
<i>Subtotal: Recurring Cost</i>	-	-	1.350	-	-	-	-	-	-	-	-	0.210	-	-	-	-	-	0.210
<i>Subtotal: Package Fielding Cost</i>	-	-	<b>1.350</b>	-	-	-	-	-	-	-	-	<b>0.210</b>	-	-	-	-	-	<b>0.210</b>
Support - Program Management Cost																		

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<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 45	<b>P-1 Line Item Number / Title:</b> G05301 / Mobile Maintenance Equipment Systems	<b>Item Number / Title [DODIC]:</b> M62700 / Shop Equipment, Welding (SEW)

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Government Management	-	-	13.053	-	-	-	-	-	-	-	-	0.119	-	-	-	-	-	0.119
<i>Subtotal: Support - Program Management Cost</i>	-	-	<b>13.053</b>	-	-	-	-	-	-	-	-	<b>0.119</b>	-	-	-	-	-	<b>0.119</b>
<b>Gross/Weapon System Cost</b>	-	-	<b>217.559</b>	-	-	-	-	-	-	<b>216.500</b>	<b>6</b>	<b>1.299</b>	-	-	-	<b>216.500</b>	<b>6</b>	<b>1.299</b>

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	-	-	2	-	2
	Total Obligation Authority	-	-	0.625	-	0.625
ANG	Quantity	-	-	3	-	3
	Total Obligation Authority	-	-	0.564	-	0.564
AR	Quantity	-	-	1	-	1
	Total Obligation Authority	-	-	0.110	-	0.110
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	-	-	<b>6</b>	-	<b>6</b>
	<b>Total Obligation Authority</b>	-	-	<b>1.299</b>	-	<b>1.299</b>

(†) indicates the presence of a P-5a



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<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2017 Army								<b>Date:</b> February 2016				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 45			<b>P-1 Line Item Number / Title:</b> G05301 / Mobile Maintenance Equipment Systems					<b>Item Number / Title [DODIC]:</b> M62700 / Shop Equipment, Welding (SEW)				
<b>Cost Elements</b>	<b>O C O</b>	<b>FY</b>	<b>Contractor and Location</b>	<b>Method/Type or Funding Vehicle</b>	<b>Location of PCO</b>	<b>Award Date</b>	<b>Date of First Delivery</b>	<b>Qty (Each)</b>	<b>Unit Cost (\$ K)</b>	<b>Specs Avail Now?</b>	<b>Date Revision Available</b>	<b>RFP Issue Date</b>
Shop Equipment Welding <sup>(†)</sup>		2017	TBD / TBD	C / FFP	TACOM, Warren, MI	Nov 2016	Apr 2017	6	125.000			

<sup>(†)</sup> indicates the presence of a P-21

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<b>Exhibit P-21, Production Schedule:</b> PB 2017 Army															<b>Date:</b> February 2016									
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 45										<b>P-1 Line Item Number / Title:</b> G05301 / Mobile Maintenance Equipment Systems										<b>Item Number / Title [DODIC]:</b> M62700 / Shop Equipment, Welding (SEW)				

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2017													Fiscal Year 2018													BALANCE	
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2016	BAL DUE AS OF 1 OCT	Calendar Year 2017													Calendar Year 2018													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			
Shop Equipment Welding																																	
Prior Years Deliveries: 879																																	
1		2017	ARMY	6	-	6		A	-	-	-	-	-	1	-	1	-	1	-	1	-	1	-	1	-	1	-	1	-				
							O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	A	M	J	J	A	S		
							C	O	E	A	E	A	P	A	U	U	U	E	C	O	V	E	A	E	A	P	A	U	U	U	E		
							T	V	C	N	B	R	R	Y	N	L	G	P	T	V	C	N	B	R	R	Y	N	L	U	G	P		

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<b>Exhibit P-21, Production Schedule:</b> PB 2017 Army		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 45		<b>P-1 Line Item Number / Title:</b> G05301 / Mobile Maintenance Equipment Systems
		<b>Item Number / Title [DODIC]:</b> M62700 / Shop Equipment, Welding (SEW)

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2017	1-8-5 For 2017	MAX For 2017	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	TBD - TBD	1	24	80	-	2	5	7	-	2	5	7

"A" in the Delivery Schedule indicates the Contract Award Date.

**Note:** Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

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**Exhibit P-40, Budget Line Item Justification:** PB 2017 Army **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 45: Maintenance Equipment	<b>P-1 Line Item Number / Title:</b> ML5345 / Items Less Than \$5.0M (Maint Eq)
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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<b>Line Item MDAP/MAIS Code:</b> N/A	<b>Item MDAP/MAIS Code(s):</b> N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	685	541	396	535	29	564	374	358	633	581	Continuing	Continuing
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	111.685	2.789	2.760	2.716	0.145	2.861	2.729	2.742	4.730	4.576	Continuing	Continuing
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	111.685	2.789	2.760	2.716	0.145	2.861	2.729	2.742	4.730	4.576	Continuing	Continuing
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>111.685</b>	<b>2.789</b>	<b>2.760</b>	<b>2.716</b>	<b>0.145</b>	<b>2.861</b>	<b>2.729</b>	<b>2.742</b>	<b>4.730</b>	<b>4.576</b>	<b>Continuing</b>	<b>Continuing</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost ( <i>\$ in Thousands</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Thousands</i> )	163.044	5.155	6.970	5.077	5.000	5.073	7.297	7.659	7.472	7.876	Continuing	Continuing

**Description:**

Items Less Than \$5 Million (Maintenance Equipment): Acquire and field maintenance support equipment, such as the Machinist Measuring Tool Set (MMTS), and the Load Bank System Tactical Electric Power (TEP) with improved, modernized, standardized, and centralized maintenance Sets, Kits, Outfits, and Tools (SKOT).

The Machinist Measuring Tool Set (MMTS) provides necessary components for general machinist's use. The MMTS facilitates fabrication, repair, and modifications of metallic and nonmetallic parts, and supports metalworking shop activities. The MMTS supplements the Metal Working & Machining Shop Set (MWMSS) by providing an authorized set of hand tools and personal protective equipment necessary for the 91E Soldier to conduct welding and machining operations. The set consists of a tool box and 73 components (i.e. gauges, calipers, rulers, hammer, punches, etc.). Army Acquisition Objective (AAO) for MMTS is 2449.

The Load Bank System Tactical Electric Power (TEP) maintenance equipment enables units to properly maintain equipment and perform the mandatory maintenance operations as well as perform diagnostics and post-verification testing on all small and medium tactical generators (2 to 60 kw) which enable readiness of weapons systems. This equipment allows soldiers to properly and adequately maintain reliable systems that meet Soldier safety, supportability, and mobility requirements, thereby reducing the risk to the warfighter.

The Load Bank System is a key maintenance enabler for the Tactical Electric Power (TEP) generator sets. TEP generator sets provide power to critical life saving operations such as field hospitals that provide medical support to combat wounded soldiers, satellite and land communication systems to communicate with soldiers in convoys and foot patrols, Tactical Operation Centers and various soldier life support operations. The Load Bank is a critical maintenance tool for TEP generators. It is a soldier-portable system required for performing diagnostics, repairs and post verification testing on all small and medium tactical generators of the Army's tactical fleet. Load Banks are required to: verify the generator can provide clean uninterrupted power output without electrical fluctuations which can injure soldiers and damage Army equipment, perform accurate diagnostic, repair, scheduled maintenance, troubleshooting and post repair performance verification testing; verify that small and medium generator sets can provide 100% of rated power output; allows maintainers to 'burn out' fuel/carbon accumulations due to under-loading the generator set for extended periods. The capability that Load Banks provide to load test generator sets is an essential function that Army maintenance units require to support combat and peacetime operations. This is an Army requirement expressed in generator set field level maintenance technical manuals. There is a recognized Table of Equipment (TOE)/Modified TOE (MTOE) requirement for TEP generator sets. Army Acquisition Objective (AAO) for Load Bank System Tactical Electric Power (TEP) is 1217.

The Refrigeration Tool Kit (RTK) consists of two kits, the Individual Soldier Kit and the Base Kit. These kits provide the Military Occupational Specialty (MOS) 91C Utilities Equipment Repairer Soldiers all the tools and equipment required to test, maintain and repair every environmental Control Unit (ECU) on and off the battlefield. Proper functioning ECUs facilitate hospital/medical activities such as laboratory

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2017 Army		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 45: Maintenance Equipment		<b>P-1 Line Item Number / Title:</b> ML5345 / Items Less Than \$5.0M (Maint Eq)

<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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<b>Line Item MDAP/MAIS Code:</b> N/A	<b>Item MDAP/MAIS Code(s):</b> N/A
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operations, blood banks, aiding mortuary affairs, safe transportation and storage of perishable foods; providing environmentally-controlled conditions for troops, signal, and command/control equipment; and Humanitarian Support, Disaster Relief and homeland Support Security deployments. The RTK operates in all environments where United States Armed Forces deploy. The RTK provides field level maintenance for all Army equipment that requires an ECU. The RTK provides the capability to support maintenance operations as far forward as possible on the battlefield by providing on-system maintenance repairs to Army equipment and/or components, which allows major combat systems to return to the fight rapidly.

The Ammunition Tool Kit is used to set up, maintain and perform everyday operations for the stock, store and issue of ammunition at Ammunition Storage Points (ASPs). This tool load provides the ability to do embedded ammunition accountability and holding capability forward in the Brigade area, which includes the accountability, receipt, store, and issue of ammunition, along with the capability to perform all required Class V maintenance operations to include the reconfiguration of ammunition loads.

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	Quantity	125	228	320	29	349	185	180	341	287
	Total Obligation Authority	0.626	1.419	1.397	0.145	1.542	1.344	1.351	2.907	1.987
ANG	Quantity	263	166	209	-	209	170	72	210	162
	Total Obligation Authority	1.384	1.328	1.288	-	1.288	1.243	0.742	1.102	1.642
AR	Quantity	153	2	6	-	6	19	106	82	132
	Total Obligation Authority	0.779	0.013	0.031	-	0.031	0.142	0.649	0.721	0.947
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	<b>541</b>	<b>396</b>	<b>535</b>	<b>29</b>	<b>564</b>	<b>374</b>	<b>358</b>	<b>633</b>	<b>581</b>
	<b>Total Obligation Authority</b>	<b>2.789</b>	<b>2.760</b>	<b>2.716</b>	<b>0.145</b>	<b>2.861</b>	<b>2.729</b>	<b>2.742</b>	<b>4.730</b>	<b>4.576</b>

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**Exhibit P-40, Budget Line Item Justification:** PB 2017 Army **Date:** February 2016

**Appropriation / Budget Activity / Budget Sub Activity:**  
2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 45: Maintenance Equipment

**P-1 Line Item Number / Title:**  
ML5345 / Items Less Than \$5.0M (Maint Eq)

**ID Code** (A=Service Ready, B=Not Service Ready): **Program Elements for Code B Items:** N/A **Other Related Program Elements:** N/A

**Line Item MDAP/MAIS Code:** N/A **Item MDAP/MAIS Code(s):** N/A

Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	ML5345 / Items Less Than \$5.0M (Maint Eq)			685 / 111.685	541 / 2.789	396 / 2.760	535 / 2.716	29 / 0.145	564 / 2.861
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>			<b>685 / 111.685</b>	<b>541 / 2.789</b>	<b>396 / 2.760</b>	<b>535 / 2.716</b>	<b>29 / 0.145</b>	<b>564 / 2.861</b>

\*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

**Justification:**

FY17 Base funding in the amount of \$2.716 million will procure 275 Machinist Measuring Tool Sets, 171 Load Bank System Tactical Electric Power (TEP), 1 RTK - Individual Soldier Kit, and 1 RTK - Base Kit.

The FY17 OCO includes \$.145 million to support the COCOM requirement for unit equipment sets to deter potential adversaries and support the European Reassurance Initiatives. The procurements include a quantity of 29 Machinist Measuring Tool Sets.

The maintenance equipment is essential for units to properly maintain equipment, perform the mandatory maintenance operations and perform diagnostic testing which maintains the readiness of weapons systems. This equipment allows soldiers to properly and adequately maintain vehicles and systems. Properly maintained systems perform at maximum capability, with improved safety and reduced risk to the warfighter. This equipment supports combat operations, Army Force Regeneration and unit Mission Essential Task List (METL) requirements. The Army requires reliable systems that support soldier safety, supportability, and mobility requirements. SKOT systems require continuous review, revision, and upgrades to support Army requirements.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

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<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 45		<b>P-1 Line Item Number / Title:</b> ML5345 / Items Less Than \$5.0M (Maint Eq)
		<b>Item Number / Title [DODIC]:</b> ML5345 / Items Less Than \$5.0M (Maint Eq)

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	685	541	396	535	29	564
Gross/Weapon System Cost (\$ in Millions)	111.685	2.789	2.760	2.716	0.145	2.861
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	111.685	2.789	2.760	2.716	0.145	2.861
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	<b>111.685</b>	<b>2.789</b>	<b>2.760</b>	<b>2.716</b>	<b>0.145</b>	<b>2.861</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	163.044	5.155	6.970	5.077	5.000	5.073

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
<b>Hardware Cost</b>																		
<b>Recurring Cost</b>																		
Machinists Measuring Shop Set (MMTS)	-	-	-	4.000	484	1.936	5.000	258	1.290	5.000	275	1.375	5.000	29	0.145	5.000	304	1.520
Load Banks	-	-	-	4.000	145	0.580	5.000	175	0.875	5.000	171	0.855	-	-	-	5.000	171	0.855
Ammunition Tool Kit	32.000	114	3.648	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Spare Part Storage Field Shop Set	5.000	114	0.570	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Standard Automotive Tool Set	415.000	224	92.960	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Small Arms Shop Set	2.000	114	0.228	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Electronic System Maintenance Tool Kit	3.000	5	0.015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Compressor	16.000	114	1.824	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	99.245	-	-	2.516	-	-	2.165	-	-	2.230	-	-	0.145	-	-	2.375
<i>Subtotal: Hardware Cost</i>	-	-	99.245	-	-	2.516	-	-	2.165	-	-	2.230	-	-	0.145	-	-	2.375
<b>Support - Fielding Cost</b>																		
Fielding	-	-	1.509	-	-	0.050	-	-	0.195	-	-	0.145	-	-	-	-	-	0.145
<i>Subtotal: Support - Fielding Cost</i>	-	-	1.509	-	-	0.050	-	-	0.195	-	-	0.145	-	-	-	-	-	0.145
<b>Support - Production Engineering Cost</b>																		
Production Engineering	-	-	1.500	-	-	0.050	-	-	0.110	-	-	0.080	-	-	-	-	-	0.080

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<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 45	<b>P-1 Line Item Number / Title:</b> ML5345 / Items Less Than \$5.0M (Maint Eq)	<b>Item Number / Title [DODIC]:</b> ML5345 / Items Less Than \$5.0M (Maint Eq)

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
<i>Subtotal: Support - Production Engineering Cost</i>	-	-	1.500	-	-	0.050	-	-	0.110	-	-	0.080	-	-	-	-	-	0.080
<b>Support - Program Management Cost</b>																		
Government Management	-	-	7.931	-	-	0.173	-	-	0.180	-	-	0.181	-	-	-	-	-	0.181
<i>Subtotal: Support - Program Management Cost</i>	-	-	7.931	-	-	0.173	-	-	0.180	-	-	0.181	-	-	-	-	-	0.181
<b>Support - Quality Assurance Cost</b>																		
Quality Assurance	-	-	1.500	-	-	-	-	-	0.110	-	-	0.080	-	-	-	-	-	0.080
<i>Subtotal: Support - Quality Assurance Cost</i>	-	-	1.500	-	-	-	-	-	0.110	-	-	0.080	-	-	-	-	-	0.080
<b>Gross/Weapon System Cost</b>	<b>163.044</b>	<b>685</b>	<b>111.685</b>	<b>5.155</b>	<b>541</b>	<b>2.789</b>	<b>6.970</b>	<b>396</b>	<b>2.760</b>	<b>5.077</b>	<b>535</b>	<b>2.716</b>	<b>5.000</b>	<b>29</b>	<b>0.145</b>	<b>5.073</b>	<b>564</b>	<b>2.861</b>

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	125	228	320	29	349
	Total Obligation Authority	0.626	1.419	1.397	0.145	1.542
ANG	Quantity	263	166	209	-	209
	Total Obligation Authority	1.384	1.328	1.288	-	1.288
AR	Quantity	153	2	6	-	6
	Total Obligation Authority	0.779	0.013	0.031	-	0.031
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	<b>541</b>	<b>396</b>	<b>535</b>	<b>29</b>	<b>564</b>
	<b>Total Obligation Authority</b>	<b>2.789</b>	<b>2.760</b>	<b>2.716</b>	<b>0.145</b>	<b>2.861</b>



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**Exhibit P-40, Budget Line Item Justification:** PB 2017 Army **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 50: Construction Equipment	<b>P-1 Line Item Number / Title:</b> R03800 / Grader, Road Mtzd, Hvy, 6X4 (CCE)
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	9	22	21	3	11	14	2	-	-	-	-	68
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	317.311	5.827	5.903	1.742	3.047	4.789	0.989	-	-	-	-	334.819
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	317.311	5.827	5.903	1.742	3.047	4.789	0.989	-	-	-	-	334.819
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>317.311</b>	<b>5.827</b>	<b>5.903</b>	<b>1.742</b>	<b>3.047</b>	<b>4.789</b>	<b>0.989</b>	-	-	-	-	<b>334.819</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost ( <i>\$ in Thousands</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Thousands</i> )	35,256.778	264.864	281.095	580.667	277.000	342.071	494.500	-	-	-	-	4,923.809

**Description:**

Graders are used by Horizontal & Vertical Companies, Engineer Support Companies, Clearance Companies, Asphalt Teams and Quarry Platoons in support of engineer requirements. The Grader is diesel-engine driven, pneumatic tired, with articulated frame steering. It is equipped with a power shift transmission, fully enclosed cab, hydraulically operated blade and scarifier. The Grader may be driven from one work site to another and is used for grading, shaping, bank sloping, ditching, scarifying, general construction and maintenance of roads and airfields. A Basis of Issue Plan (BOIP) increase was approved in FY16 increasing the Army Acquisition Objective (AAO) to 881 (860 Type I & 20 Type IA). The Grader program includes the Type I and the Type IA Air Dropable variant. The Grader is a commercial off the shelf (COTS) program that is considered a Critical Dual Use (CDU) system enabling and supporting Defense Support to Civil Authorities (DSCA) operations.

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	Quantity	22	17	2	11	13	2	-	-
	Total Obligation Authority	5.827	4.840	1.158	3.047	4.205	0.989	-	-
ANG	Quantity	-	4	1	-	1	-	-	-
	Total Obligation Authority	-	1.063	0.584	-	0.584	-	-	-
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	<b>22</b>	<b>21</b>	<b>3</b>	<b>11</b>	<b>14</b>	<b>2</b>	<b>-</b>	<b>-</b>
	<b>Total Obligation Authority</b>	<b>5.827</b>	<b>5.903</b>	<b>1.742</b>	<b>3.047</b>	<b>4.789</b>	<b>0.989</b>	<b>-</b>	<b>-</b>

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**Exhibit P-40, Budget Line Item Justification:** PB 2017 Army **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 50: Construction Equipment	<b>P-1 Line Item Number / Title:</b> R03800 / Grader, Road Mtzd, Hvy, 6X4 (CCE)
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	R03801 / GRADER, MTZD, HVY	P-5a	B	9 / 317.311	22 / 5.827	21 / 5.903	3 / 1.742	11 / 3.047	14 / 4.789
P-40	Total Gross/Weapon System Cost			9 / 317.311	22 / 5.827	21 / 5.903	3 / 1.742	11 / 3.047	14 / 4.789

\*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

**Justification:**  
 FY17 Base funding in the amount of \$1.742 million procures 3 Type I Graders in support of the Active Army, National guards and Reserve units. The Grader provides the Army forces improved mobility and deployability to meet Army requirements. New Graders will provide updated technology, electronics, and hydraulics which will increase the current readiness and reduce the logistics footprint. This program is considered a Critical Dual Use (CDU) system enabling and supporting Defense Support to Civil Authorities (DSCA) operations.

The FY17 OCO includes \$3.047 million to support the COCOM requirement for unit equipment sets to deter potential adversaries and support the European Reassurance Initiatives. The procurements include a quantity of 11 Type I Graders vehicles.

IAW Section 1815 of the FY 2008 NDAA this item is necessary for use by the active components and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

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**Exhibit P-5, Cost Analysis: PB 2017 Army** **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 50	<b>P-1 Line Item Number / Title:</b> R03800 / Grader, Road Mtzd, Hvy, 6X4 (CCE)	<b>Item Number / Title [DODIC]:</b> R03801 / GRADER, MTZD, HVY
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**ID Code** (A=Service Ready, B=Not Service Ready) : B **MDAP/MAIS Code:**

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	9	22	21	3	11	14
Gross/Weapon System Cost (\$ in Millions)	317.311	5.827	5.903	1.742	3.047	4.789
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	317.311	5.827	5.903	1.742	3.047	4.789
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	<b>317.311</b>	<b>5.827</b>	<b>5.903</b>	<b>1.742</b>	<b>3.047</b>	<b>4.789</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	35,256.778	264.864	281.095	580.667	277.000	342.071

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
Hardware <sup>(†)</sup>	260.000	9	2.340	253.000	22	5.566	253.000	21	5.313	260.000	3	0.780	260.000	11	2.860	260.000	14	3.640
Engineering Changes	-	-	7.806	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
System Engineering/ Program Management	-	-	44.176	-	-	0.111	-	-	0.150	-	-	0.200	-	-	0.087	-	-	0.287
Training	-	-	35.340	-	-	-	-	-	0.203	-	-	0.160	-	-	-	-	-	0.160
Data	-	-	26.505	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Support Equipment	-	-	82.462	-	-	-	-	-	-	-	-	0.200	-	-	-	-	-	0.200
Fielding	-	-	118.682	-	-	0.150	-	-	0.237	-	-	0.402	-	-	0.100	-	-	0.502
<i>Subtotal: Recurring Cost</i>	-	-	317.311	-	-	5.827	-	-	5.903	-	-	1.742	-	-	3.047	-	-	4.789
<i>Subtotal: Flyaway Cost</i>	-	-	317.311	-	-	5.827	-	-	5.903	-	-	1.742	-	-	3.047	-	-	4.789
<b>Gross/Weapon System Cost</b>	<b>35,256.778</b>	<b>9</b>	<b>317.311</b>	<b>264.864</b>	<b>22</b>	<b>5.827</b>	<b>281.095</b>	<b>21</b>	<b>5.903</b>	<b>580.667</b>	<b>3</b>	<b>1.742</b>	<b>277.000</b>	<b>11</b>	<b>3.047</b>	<b>342.071</b>	<b>14</b>	<b>4.789</b>

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	22	17	2	11	13
	Total Obligation Authority	5.827	4.840	1.158	3.047	4.205
ANG	Quantity	-	4	1	-	1
	Total Obligation Authority	-	1.063	0.584	-	0.584
<b>Total:</b>	<b>Quantity</b>	<b>22</b>	<b>21</b>	<b>3</b>	<b>11</b>	<b>14</b>

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<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>			<b>Date:</b> February 2016			
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 50		<b>P-1 Line Item Number / Title:</b> R03800 / Grader, Road Mtzd, Hvy, 6X4 (CCE)		<b>Item Number / Title [DODIC]:</b> R03801 / GRADER, MTZD, HVY		
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : B			<b>MDAP/MAIS Code:</b>			
<b>Secondary Distribution</b>		<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>
<b>Secondary Distribution</b>	<b>Total Obligation Authority</b>	5.827	5.903	1.742	3.047	4.789

(t) indicates the presence of a P-5a

**UNCLASSIFIED**

<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2017 Army	<b>Date:</b> February 2016
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<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 50	<b>P-1 Line Item Number / Title:</b> R03800 / Grader, Road Mtzd, Hvy, 6X4 (CCE)	<b>Item Number / Title [DODIC]:</b> R03801 / GRADER, MTZD, HVY
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Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
Hardware		2015	Caterpillar / Peoria	C / FFP	TACOM, Warren, MI	Jan 2015	Jul 2015	22	253.000	Y		
Hardware		2016	Caterpillar / Peoria	C / FFP	TACOM, Warren, MI	Jan 2016	Jul 2016	21	253.000	Y		
Hardware		2017	Caterpillar / Peoria	C / FFP	TACOM, Warren, MI	Jan 2017	Jul 2017	14	260.000	Y		

**Remarks:**  
This is a commercial off the shelf (COTS) program.

**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** PB 2017 Army **Date:** February 2016

**Appropriation / Budget Activity / Budget Sub Activity:**  
2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 50: Construction Equipment

**P-1 Line Item Number / Title:**  
RA0100 / Scrapers, Earthmoving

**ID Code** (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** N/A

**Line Item MDAP/MAIS Code:** N/A **Item MDAP/MAIS Code(s):** N/A

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	76	22	38	36	-	36	26	-	-	-	-	198
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	219.291	14.926	26.125	26.233	-	26.233	18.740	-	-	-	-	305.315
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	219.291	14.926	26.125	26.233	-	26.233	18.740	-	-	-	-	305.315
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>219.291</b>	<b>14.926</b>	<b>26.125</b>	<b>26.233</b>	<b>-</b>	<b>26.233</b>	<b>18.740</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>305.315</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost ( <i>\$ in Thousands</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Thousands</i> )	2,885.408	678.455	687.500	728.694	-	728.694	720.769	-	-	-	-	1,541.995

**Description:**

The 14-18 Cubic Yard Heavy Scraper will be used by Horizontal Construction Companies. It is a self-propelled, open bowl, two axle, single diesel engine driven, articulated frame steer vehicle with pneumatic tires. The self-propelled Scraper can work alone and self load, but at reduced production capacity. It provides a hauling and dumping capability to perform efficient earthmoving tasks in support of earthmoving projects. The Heavy Scraper provides the Army Engineers essential equipment to perform their road and airfield construction and site preparation missions. The Army Acquisition Objective (AAO) is 675. This Scraper is a commercial off the shelf (COTS) program.

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army									
Quantity	4	18	4	-	4	4	-	-	-
Total Obligation Authority	2.714	12.074	2.629	-	2.629	2.708	-	-	-
ANG									
Quantity	9	20	16	-	16	11	-	-	-
Total Obligation Authority	6.106	14.051	11.802	-	11.802	8.016	-	-	-
AR									
Quantity	9	-	16	-	16	11	-	-	-
Total Obligation Authority	6.106	-	11.802	-	11.802	8.016	-	-	-
<b>Total: Secondary Distribution</b>									
<b>Quantity</b>	<b>22</b>	<b>38</b>	<b>36</b>	<b>-</b>	<b>36</b>	<b>26</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>Total Obligation Authority</b>	<b>14.926</b>	<b>26.125</b>	<b>26.233</b>	<b>-</b>	<b>26.233</b>	<b>18.740</b>	<b>-</b>	<b>-</b>	<b>-</b>

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**Exhibit P-40, Budget Line Item Justification:** PB 2017 Army **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 50: Construction Equipment	<b>P-1 Line Item Number / Title:</b> RA0100 / Scrapers, Earthmoving
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	R02800 / SCRAPER, EARTHMOVING, 14-18 CU YD	P-5a	A	76 / 219.291	22 / 14.926	38 / 26.125	36 / 26.233	- / -	36 / 26.233
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>			<b>76 / 219.291</b>	<b>22 / 14.926</b>	<b>38 / 26.125</b>	<b>36 / 26.233</b>	<b>- / -</b>	<b>36 / 26.233</b>

\*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

**Justification:**  
 FY 2017 Base funding in the amount of \$26.233 million procures 36 Heavy Scrapers in support of the Active Army, National Guard and Reserve Units. The Scraper provides the Army's forces improved mobility and deployability to meet Army requirements. New Scrapers will provide updated technology, electronics, and hydraulics which will increase the current readiness and reduce the logistics footprint. This program is considered a Critical Dual Use (CDU) system enabling and supporting Defense Support to Civil Authorities (DSCA) operations.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 50		<b>P-1 Line Item Number / Title:</b> RA0100 / Scrapers, Earthmoving
		<b>Item Number / Title [DODIC]:</b> R02800 / SCRAPER, EARTHMOVING, 14-18 CU YD

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	76	22	38	36	-	36
Gross/Weapon System Cost (\$ in Millions)	219.291	14.926	26.125	26.233	-	26.233
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	219.291	14.926	26.125	26.233	-	26.233
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	<b>219.291</b>	<b>14.926</b>	<b>26.125</b>	<b>26.233</b>	<b>-</b>	<b>26.233</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	2,885.408	678.455	687.500	728.694	-	728.694

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
Hardware <sup>(†)</sup>	580.000	76	44.080	580.000	22	12.760	593.000	38	22.534	593.000	36	21.348	-	-	-	593.000	36	21.348
Armor Kits	-	-	-	100.000	10	1.000	112.000	10	1.120	-	-	-	-	-	-	-	-	-
Engineering Changes	-	-	0.273	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
System Engineering/ Program Management	-	-	41.170	-	-	0.806	-	-	1.000	-	-	1.586	-	-	-	-	-	1.586
System Test & Evaluation, Production	-	-	21.408	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Training	-	-	7.048	-	-	-	-	-	0.866	-	-	1.086	-	-	-	-	-	1.086
Data	-	-	54.260	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fielding	-	-	51.052	-	-	0.360	-	-	0.605	-	-	2.213	-	-	-	-	-	2.213
<i>Subtotal: Recurring Cost</i>	-	-	219.291	-	-	14.926	-	-	26.125	-	-	26.233	-	-	-	-	-	26.233
<i>Subtotal: Flyaway Cost</i>	-	-	219.291	-	-	14.926	-	-	26.125	-	-	26.233	-	-	-	-	-	26.233
<b>Gross/Weapon System Cost</b>	<b>2,885.408</b>	<b>76</b>	<b>219.291</b>	<b>678.455</b>	<b>22</b>	<b>14.926</b>	<b>687.500</b>	<b>38</b>	<b>26.125</b>	<b>728.694</b>	<b>36</b>	<b>26.233</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>728.694</b>	<b>36</b>	<b>26.233</b>

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	4	18	4	-	4
	Total Obligation Authority	2.714	12.074	2.629	-	2.629
ANG	Quantity	9	20	16	-	16



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<b>Exhibit P-5, Cost Analysis:</b> PB 2017 Army		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 50	<b>P-1 Line Item Number / Title:</b> RA0100 / Scrapers, Earthmoving	<b>Item Number / Title [DODIC]:</b> R02800 / SCRAPER, EARTHMOVING, 14-18 CU YD

**ID Code** (A=Service Ready, B=Not Service Ready) : A **MDAP/MAIS Code:**

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
	Total Obligation Authority	6.106	14.051	11.802	-	11.802
AR	Quantity	9	-	16	-	16
	Total Obligation Authority	6.106	-	11.802	-	11.802
<b>Total:</b>	<b>Quantity</b>	<b>22</b>	<b>38</b>	<b>36</b>	-	<b>36</b>
<b>Secondary Distribution</b>	<b>Total Obligation Authority</b>	<b>14.926</b>	<b>26.125</b>	<b>26.233</b>	-	<b>26.233</b>

(t) indicates the presence of a P-5a

**UNCLASSIFIED**

<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2017 Army							<b>Date:</b> February 2016				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 50			<b>P-1 Line Item Number / Title:</b> RA0100 / Scrapers, Earthmoving				<b>Item Number / Title [DODIC]:</b> R02800 / SCRAPER, EARTHMOVING, 14-18 CU YD				

Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
Hardware		2015	Caterpillar / Peoria	C / FFP	Quantico, VA	Mar 2015	Sep 2015	22	580.000	Y		
Hardware		2016	Caterpillar / Peoria	C / FFP	Quantico, VA	Mar 2016	Sep 2016	38	593.000	Y		
Hardware		2017	Caterpillar / Peoria	C / FFP	Quantico, VA	Mar 2017	Sep 2017	36	593.000	Y		

**Remarks:**  
This is a commercial off the shelf (COTS) program.

**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** PB 2017 Army **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 50: Construction Equipment	<b>P-1 Line Item Number / Title:</b> X02300 / Compactor
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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<b>Line Item MDAP/MAIS Code:</b> N/A	<b>Item MDAP/MAIS Code(s):</b> N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	1,161	-	-	-	-	-	-	-	-	-	1,161
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	51.075	4.348	-	-	-	-	-	-	-	-	-	55.423
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	51.075	4.348	-	-	-	-	-	-	-	-	-	55.423
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>51.075</b>	<b>4.348</b>	-	-	-	-	-	-	-	-	-	<b>55.423</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost ( <i>\$ in Thousands</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Thousands</i> )	-	3.745	-	-	-	-	-	-	-	-	-	47.737

**Description:**

Family of Compaction Systems includes: High Speed Compactor (HSC), Vibratory Roller, Type I and Vibratory Roller, Type II (R03301), Dual Steel Wheel Roller (DSWR) (R03500), Towed Pneumatic Roller (TPR) (R03402), and Vibratory Plate Compactor (VPC) (M08900).

The High Speed Compactor (HSC) is a self propelled tamping machine used for compaction of base materiel for roads and airfield runways.

The Vibratory Roller, Type I and Type II are self propelled, tamping machines for compacting during the construction of roads, airfields and dams.

The Dual Steel Wheel Roller (DSWR) is a tandem steel wheeled roller with vibratory mechanism use for compaction of asphalt, chip and seal surfaces.

The Towed Pneumatic Roller (TPR) is a tow behind compaction system equipped with 13 pneumatic-tires, used by airborne units for horizontal construction missions requiring dense compaction of various types of soil from natural run to modified mixtures.

The Vibratory Plate Compactor (VPC) is a hand guided and controlled reversible vibrator plate compactor capable of use as a general purpose trench, curb, and backfill compactor and can be used to patch asphalt.

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	Quantity	182	-	-	-	-	-	-	-	-
	Total Obligation Authority	0.682	-	-	-	-	-	-	-	-
ANG	Quantity	573	-	-	-	-	-	-	-	-
	Total Obligation Authority	2.146	-	-	-	-	-	-	-	-
AR	Quantity	406	-	-	-	-	-	-	-	-
	Total Obligation Authority	1.520	-	-	-	-	-	-	-	-

**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** PB 2017 Army **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 50: Construction Equipment	<b>P-1 Line Item Number / Title:</b> X02300 / Compactor
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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<b>Line Item MDAP/MAIS Code:</b> N/A	<b>Item MDAP/MAIS Code(s):</b> N/A
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Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
<b>Total:</b>	Quantity	1,161	-	-	-	-	-	-	-	-
<b>Secondary Distribution</b>	Total Obligation Authority	4.348	-	-	-	-	-	-	-	-

**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** PB 2017 Army **Date:** February 2016

**Appropriation / Budget Activity / Budget Sub Activity:**  
 2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 50:  
 Construction Equipment **P-1 Line Item Number / Title:**  
 X02300 / Compactor

**ID Code** (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** N/A

**Line Item MDAP/MAIS Code:** N/A **Item MDAP/MAIS Code(s):** N/A

Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	R03300 / ROLLER, VIBRATORY, SELF-PROPELLED (CCE)	P-5a	A	- / 51.075	1,161 / 4.348	- / -	- / -	- / -	- / -
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>			<b>- / 51.075</b>	<b>1,161 / 4.348</b>	<b>- / -</b>	<b>- / -</b>	<b>- / -</b>	<b>- / -</b>

\*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

**Justification:**  
 This program has no FY 2017 Base or OCO procurement requirements.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-81), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 50	<b>P-1 Line Item Number / Title:</b> X02300 / Compactor	<b>Item Number / Title [DODIC]:</b> R03300 / ROLLER, VIBRATORY, SELF-PROPELLED (CCE)

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>
Procurement Quantity (Units in Each)	-	1,161	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	51.075	4.348	-	-	-	-
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	51.075	4.348	-	-	-	-
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	<b>51.075</b>	<b>4.348</b>	-	-	-	-

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	3.745	-	-	-	-

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

<b>Cost Elements</b>	<b>Prior Years</b>			<b>FY 2015</b>			<b>FY 2016</b>			<b>FY 2017 Base</b>			<b>FY 2017 OCO</b>			<b>FY 2017 Total</b>		
	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>
Flyaway Cost																		
Recurring Cost																		
Hardware - Vib Roller <sup>(†)</sup>	-	-	-	3.000	1,161	3.483	-	-	-	-	-	-	-	-	-	-	-	-
System Engineering/ Program Management	-	-	25.537	-	-	0.500	-	-	-	-	-	-	-	-	-	-	-	-
Fielding	-	-	25.538	-	-	0.365	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	<i>51.075</i>	-	-	<i>4.348</i>	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Flyaway Cost</i>	-	-	<i>51.075</i>	-	-	<i>4.348</i>	-	-	-	-	-	-	-	-	-	-	-	-
<b>Gross/Weapon System Cost</b>	-	-	<b>51.075</b>	<b>3.745</b>	<b>1,161</b>	<b>4.348</b>	-	-	-	-	-	-	-	-	-	-	-	-

<b>Secondary Distribution</b>		<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>
Army	Quantity	182	-	-	-	-
	Total Obligation Authority	0.682	-	-	-	-
ANG	Quantity	573	-	-	-	-
	Total Obligation Authority	2.146	-	-	-	-
AR	Quantity	406	-	-	-	-
	Total Obligation Authority	1.520	-	-	-	-
<b>Total:</b>	<b>Quantity</b>	<b>1,161</b>	-	-	-	-

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis:</b> PB 2017 Army		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 50	<b>P-1 Line Item Number / Title:</b> X02300 / Compactor	<b>Item Number / Title [DODIC]:</b> R03300 / ROLLER, VIBRATORY, SELF-PROPELLED (CCE)

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Secondary Distribution	Total Obligation Authority	4.348	-	-	-	-

(t) indicates the presence of a P-5a

**UNCLASSIFIED**

<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2017 Army							<b>Date:</b> February 2016					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 50			<b>P-1 Line Item Number / Title:</b> X02300 / Compactor				<b>Item Number / Title [DODIC]:</b> R03300 / ROLLER, VIBRATORY, SELF-PROPELLED (CCE)					
<b>Cost Elements</b>	<b>O C O</b>	<b>FY</b>	<b>Contractor and Location</b>	<b>Method/Type or Funding Vehicle</b>	<b>Location of PCO</b>	<b>Award Date</b>	<b>Date of First Delivery</b>	<b>Qty (Each)</b>	<b>Unit Cost (\$ K)</b>	<b>Specs Avail Now?</b>	<b>Date Revision Available</b>	<b>RFP Issue Date</b>
Hardware - Vib Roller		2015	Walker Miller Equip Co / Orlando	C / FFP	Warren, MI	Sep 2015	Feb 2016	1,161	3.000	N		

**Remarks:**  
System is being procured as a COTS item.



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**Exhibit P-40, Budget Line Item Justification:** PB 2017 Army **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 50: Construction Equipment	<b>P-1 Line Item Number / Title:</b> X01500 / Hydraulic Excavator
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	25	6	-	2	-	2	8	-	-	-	-	41
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	113.249	4.938	-	1.123	-	1.123	4.944	-	-	-	-	124.254
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	113.249	4.938	-	1.123	-	1.123	4.944	-	-	-	-	124.254
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>113.249</b>	<b>4.938</b>	<b>-</b>	<b>1.123</b>	<b>-</b>	<b>1.123</b>	<b>4.944</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>124.254</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost ( <i>\$ in Thousands</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Thousands</i> )	4,529.960	823.000	-	561.500	-	561.500	618.000	-	-	-	-	3,030.585

**Description:**

The Hydraulic Excavator Type I (HYEX-I) is a commercial off-the-shelf (COTS) vehicle with minor military modifications. It is diesel engine driven, self-propelled, track mounted, hydraulically controlled system, equipped with a hydraulic quick coupler system for use with a wide variety of attachments. The support equipment include a hydraulic impact breaker, plate compactor, crushing unit, barrier grapple, arm extension for dredging, and a variety of buckets for digging, dredging, and trenching. The HYEX-I provides engineer units a multi-functional construction capability that can dig, trench, dredge, scoop, lift, dump, and perform demolition to structures. The HYEX-I also has the capability to accept a Crew Protection Kit in the form of a replaceable armor C-Kit cab for contingency operations. The HYEX is fielded to Horizontal Construction Companies, VI Companies, Multi-Role Bridge Companies, and the TRADOC training base. The minimum monthly sustaining rate for the HYEX is 5 systems per month. The HYEX Type I Army Acquisition Objective (AAO) is 457.

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	Quantity	2	-	1	-	1	4	-	-
	Total Obligation Authority	1.646	-	0.555	-	0.555	2.444	-	-
ANG	Quantity	2	-	-	-	-	-	-	-
	Total Obligation Authority	1.646	-	-	-	-	-	-	-
AR	Quantity	2	-	1	-	1	4	-	-
	Total Obligation Authority	1.646	-	0.568	-	0.568	2.500	-	-
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	<b>6</b>	<b>-</b>	<b>2</b>	<b>-</b>	<b>2</b>	<b>8</b>	<b>-</b>	<b>-</b>
	<b>Total Obligation Authority</b>	<b>4.938</b>	<b>-</b>	<b>1.123</b>	<b>-</b>	<b>1.123</b>	<b>4.944</b>	<b>-</b>	<b>-</b>

**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** PB 2017 Army **Date:** February 2016

**Appropriation / Budget Activity / Budget Sub Activity:**  
 2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 50: Construction Equipment

**P-1 Line Item Number / Title:**  
 X01500 / Hydraulic Excavator

**ID Code** (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** N/A

**Line Item MDAP/MAIS Code:** N/A **Item MDAP/MAIS Code(s):** N/A

Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	X01500 / Hydraulic Excavator	P-5a	A	25 / 113.249	6 / 4.938	- / -	2 / 1.123	- / -	2 / 1.123
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>			<b>25 / 113.249</b>	<b>6 / 4.938</b>	<b>- / -</b>	<b>2 / 1.123</b>	<b>- / -</b>	<b>2 / 1.123</b>

\*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

**Justification:**  
 FY 2017 funding in the amount of \$1.123 million supports the funding of 2 Production Quality Test Systems of the new Hydraulic Excavator solicitation and tests.

This program is considered a Critical Dual Use (CDU) system enabling and supporting Defense Support to Civil Authorities (DSCA) operations.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

**UNCLASSIFIED**

**Exhibit P-5, Cost Analysis: PB 2017 Army** **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 50	<b>P-1 Line Item Number / Title:</b> X01500 / Hydraulic Excavator	<b>Item Number / Title [DODIC]:</b> X01500 / Hydraulic Excavator
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**ID Code** (A=Service Ready, B=Not Service Ready) : A **MDAP/MAIS Code:**

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	25	6	-	2	-	2
Gross/Weapon System Cost (\$ in Millions)	113.249	4.938	-	1.123	-	1.123
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	113.249	4.938	-	1.123	-	1.123
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	<b>113.249</b>	<b>4.938</b>	<b>-</b>	<b>1.123</b>	<b>-</b>	<b>1.123</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	4,529.960	823.000	-	561.500	-	561.500

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
Hardware <sup>(†)</sup>	4,529.960	25	113.249	299.571	14	4.194	-	-	-	300.000	2	0.600	-	-	-	300.000	2	0.600
System Engineering/ Program Management	-	-	-	-	-	0.329	-	-	-	-	-	0.323	-	-	-	-	-	0.323
Data	-	-	-	-	-	-	-	-	-	-	-	0.100	-	-	-	-	-	0.100
Support Equipment	-	-	-	-	-	-	-	-	-	-	-	0.050	-	-	-	-	-	0.050
Fielding	-	-	-	-	-	0.415	-	-	-	-	-	0.050	-	-	-	-	-	0.050
<i>Subtotal: Recurring Cost</i>	-	-	113.249	-	-	4.938	-	-	-	-	-	1.123	-	-	-	-	-	1.123
<i>Subtotal: Flyaway Cost</i>	-	-	113.249	-	-	4.938	-	-	-	-	-	1.123	-	-	-	-	-	1.123
<b>Gross/Weapon System Cost</b>	<b>4,529.960</b>	<b>25</b>	<b>113.249</b>	<b>823.000</b>	<b>6</b>	<b>4.938</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>561.500</b>	<b>2</b>	<b>1.123</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>561.500</b>	<b>2</b>	<b>1.123</b>

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	2	-	1	-	1
	Total Obligation Authority	1.646	-	0.555	-	0.555
ANG	Quantity	2	-	-	-	-
	Total Obligation Authority	1.646	-	-	-	-
AR	Quantity	2	-	1	-	1
	Total Obligation Authority	1.646	-	0.568	-	0.568
<b>Total:</b>	<b>Quantity</b>	<b>6</b>	<b>-</b>	<b>2</b>	<b>-</b>	<b>2</b>

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis:</b> PB 2017 Army			<b>Date:</b> February 2016			
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 50		<b>P-1 Line Item Number / Title:</b> X01500 / Hydraulic Excavator		<b>Item Number / Title [DODIC]:</b> X01500 / Hydraulic Excavator		
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A			<b>MDAP/MAIS Code:</b>			
<b>Secondary Distribution</b>		<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>
<b>Secondary Distribution</b>	<b>Total Obligation Authority</b>	4.938	-	1.123	-	1.123

(t) indicates the presence of a P-5a

**UNCLASSIFIED**

<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2017 Army							<b>Date:</b> February 2016					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 50			<b>P-1 Line Item Number / Title:</b> X01500 / Hydraulic Excavator				<b>Item Number / Title [DODIC]:</b> X01500 / Hydraulic Excavator					
<b>Cost Elements</b>	<b>O C O</b>	<b>FY</b>	<b>Contractor and Location</b>	<b>Method/Type or Funding Vehicle</b>	<b>Location of PCO</b>	<b>Award Date</b>	<b>Date of First Delivery</b>	<b>Qty (Each)</b>	<b>Unit Cost (\$ K)</b>	<b>Specs Avail Now?</b>	<b>Date Revision Available</b>	<b>RFP Issue Date</b>
Hardware		2015	John Deere / Moline	C / FFP	Warren, MI	Dec 2014	Dec 2015	14	299.571	Y		
Hardware		2017	TBD / TBD	C / FFP	Warren, MI	Dec 2016	Dec 2017	2	300.000	N		

**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** PB 2017 Army **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 50: Construction Equipment	<b>P-1 Line Item Number / Title:</b> M05800 / Tractor, Full Tracked
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	239	103	71	-	14	14	-	-	-	-	-	427
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	568.514	34.071	27.156	-	4.426	4.426	-	-	-	-	-	634.167
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	568.514	34.071	27.156	-	4.426	4.426	-	-	-	-	-	634.167
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>568.514</b>	<b>34.071</b>	<b>27.156</b>	<b>-</b>	<b>4.426</b>	<b>4.426</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>634.167</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost ( <i>\$ in Thousands</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Thousands</i> )	2,378.720	330.786	382.479	-	316.143	316.143	-	-	-	-	-	1,485.169

**Description:**

This line covers both the Medium T9 Tractor, Full Track and Light T5 Tractor, Full Track. These are Bulldozers and are used to perform dozing, rough grading, cutting and filling, and ripping in support of general engineer construction tasks, to build and maintain roads, airfields and to build and support tactical missions. When equipped with armor protection, they fulfill the military requirements for mine clearing and military specific operations in a hostile environment. These Bulldozers are equipped with a powershift transmission and hydraulically operated semi-U type dozer blade. The dozers have either a winch or a ripper. Due to the low ground bearing pressure, the Dozer possesses the capability to work in adverse underfoot conditions and is normally one of the first pieces of construction equipment on a job site. The T9 Medium Tractor, Full Track, is a low speed, medium draw bar pull bulldozer with a blade and is a basic item of earthmoving equipment used for heavy dozing and clearing. The T-5 Tractor, Full Track is a smaller, air mobile, air droppable dozer used in airborne operations for construction and maintenance emplacements, roads and airfields. The Army Acquisition Objective (AAO) is 1,588 (T-9: 1,284/T-5: 304), in addition the Armor Kit requirement is 366 ( T-9: 318/T-5: 48). This is a commercial off the shelf (COTS) program. This program is considered a Critical Dual Use (CDU) system enabling and supporting Defense Support to Civil Authorities (DSCA) operations.

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	Quantity	30	40	-	14	14	-	-	-
	Total Obligation Authority	9.924	15.000	-	4.426	4.426	-	-	-
ANG	Quantity	38	-	-	-	-	-	-	-
	Total Obligation Authority	12.570	-	-	-	-	-	-	-
AR	Quantity	35	31	-	-	-	-	-	-
	Total Obligation Authority	11.577	12.156	-	-	-	-	-	-
<b>Total:</b>	<b>Quantity</b>	<b>103</b>	<b>71</b>	<b>-</b>	<b>14</b>	<b>14</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>Secondary Distribution</b>	<b>Total Obligation Authority</b>	<b>34.071</b>	<b>27.156</b>	<b>-</b>	<b>4.426</b>	<b>4.426</b>	<b>-</b>	<b>-</b>	<b>-</b>

**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** PB 2017 Army **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 50: Construction Equipment	<b>P-1 Line Item Number / Title:</b> M05800 / Tractor, Full Tracked
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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<b>Line Item MDAP/MAIS Code:</b> N/A	<b>Item MDAP/MAIS Code(s):</b> N/A
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Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	M06100 / TRACTOR FULL TRACKED, MED T-9	P-5a	A	239 / 568.514	103 / 34.071	71 / 27.156	- / -	14 / 4.426	14 / 4.426
P-40	Total Gross/Weapon System Cost			239 / 568.514	103 / 34.071	71 / 27.156	- / -	14 / 4.426	14 / 4.426

\*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

**Justification:**  
 This program has no FY17 Base procurement requirements.

The FY17 OCO includes \$4.426 million to support the COCOM requirement for unit equipment sets to deter potential adversaries and support the European Reassurance Initiatives. The procurements include a quantity of 14 Tractor, Full Track vehicles.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-81), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 50		<b>P-1 Line Item Number / Title:</b> M05800 / Tractor, Full Tracked
		<b>Item Number / Title [DODIC]:</b> M06100 / TRACTOR FULL TRACKED, MED T-9

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	239	103	71	-	14	14
Gross/Weapon System Cost (\$ in Millions)	568.514	34.071	27.156	-	4.426	4.426
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	568.514	34.071	27.156	-	4.426	4.426
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	<b>568.514</b>	<b>34.071</b>	<b>27.156</b>	<b>-</b>	<b>4.426</b>	<b>4.426</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	2,378.720	330.786	382.479	-	316.143	316.143

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
Hardware <sup>(†)</sup>	325.000	239	77.675	311.000	95	29.545	324.000	71	23.004	-	-	-	311.000	14	4.354	311.000	14	4.354
Armor Kits	-	-	-	108.000	11	1.188	-	-	-	-	-	-	-	-	-	-	-	-
System Engineering/ Program Management	-	-	64.608	-	-	1.541	-	-	1.576	-	-	-	-	-	0.035	-	-	0.035
System Test & Evaluation, Production	-	-	0.658	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Training	-	-	100.000	-	-	-	-	-	1.100	-	-	-	-	-	-	-	-	-
Data	-	-	120.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fielding	-	-	205.573	-	-	1.797	-	-	1.476	-	-	-	-	-	0.037	-	-	0.037
<i>Subtotal: Recurring Cost</i>	-	-	<i>568.514</i>	-	-	<i>34.071</i>	-	-	<i>27.156</i>	-	-	-	-	-	<i>4.426</i>	-	-	<i>4.426</i>
<i>Subtotal: Flyaway Cost</i>	-	-	<i>568.514</i>	-	-	<i>34.071</i>	-	-	<i>27.156</i>	-	-	-	-	-	<i>4.426</i>	-	-	<i>4.426</i>
<b>Gross/Weapon System Cost</b>	<b>2,378.720</b>	<b>239</b>	<b>568.514</b>	<b>330.786</b>	<b>103</b>	<b>34.071</b>	<b>382.479</b>	<b>71</b>	<b>27.156</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>316.143</b>	<b>14</b>	<b>4.426</b>	<b>316.143</b>	<b>14</b>	<b>4.426</b>

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	30	40	-	14	14
	Total Obligation Authority	9.924	15.000	-	4.426	4.426
ANG	Quantity	38	-	-	-	-
	Total Obligation Authority	12.570	-	-	-	-



**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis:</b> PB 2017 Army		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 50	<b>P-1 Line Item Number / Title:</b> M05800 / Tractor, Full Tracked	<b>Item Number / Title [DODIC]:</b> M06100 / TRACTOR FULL TRACKED, MED T-9

**ID Code** (A=Service Ready, B=Not Service Ready) : A **MDAP/MAIS Code:**

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
AR	Quantity	35	31	-	-	-
	Total Obligation Authority	11.577	12.156	-	-	-
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	<b>103</b>	<b>71</b>	<b>-</b>	<b>14</b>	<b>14</b>
	<b>Total Obligation Authority</b>	<b>34.071</b>	<b>27.156</b>	<b>-</b>	<b>4.426</b>	<b>4.426</b>

(t) indicates the presence of a P-5a

**UNCLASSIFIED**

<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2017 Army							<b>Date:</b> February 2016				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 50			<b>P-1 Line Item Number / Title:</b> M05800 / Tractor, Full Tracked				<b>Item Number / Title [DODIC]:</b> M06100 / TRACTOR FULL TRACKED, MED T-9				

Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
Hardware		2015	Caterpillar / Peoria IL	C / FFP	TACOM	Jan 2015	Oct 2015	95	311.000	Y		
Hardware		2016	Caterpillar / Peoria IL	C / FFP	TACOM	Jan 2016	Oct 2016	71	324.000	Y		
Hardware	✓	2017	Caterpillar / Peoria IL	C / FFP	TACOM	Jan 2017	Oct 2017	14	311.000	Y		

**Remarks:**  
This is a commercial off the shelf (COTS) program.

**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** PB 2017 Army **Date:** February 2016

**Appropriation / Budget Activity / Budget Sub Activity:**  
2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 50: Construction Equipment

**P-1 Line Item Number / Title:**  
R06701 / All Terrain Cranes

**ID Code** (A=Service Ready, B=Not Service Ready): **Program Elements for Code B Items:** N/A **Other Related Program Elements:** N/A

**Line Item MDAP/MAIS Code:** N/A **Item MDAP/MAIS Code(s):** N/A

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	2	4	18	9	-	9	5	11	21	26	-	96
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	9.609	4.938	16.750	65.285	-	65.285	8.935	17.632	31.477	38.163	-	192.789
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	9.609	4.938	16.750	65.285	-	65.285	8.935	17.632	31.477	38.163	-	192.789
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>9.609</b>	<b>4.938</b>	<b>16.750</b>	<b>65.285</b>	<b>-</b>	<b>65.285</b>	<b>8.935</b>	<b>17.632</b>	<b>31.477</b>	<b>38.163</b>	<b>-</b>	<b>192.789</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost ( <i>\$ in Thousands</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Thousands</i> )	4,804.500	1,234.500	930.556	7,253.889	-	7,253.889	1,787.000	1,602.909	1,498.905	1,467.808	-	2,008.219

**Description:**

The All Terrain Cranes (ATC) Type I/II are self deployable systems capable of traveling on both primary and secondary roads with off road maneuverability. The ATC Type I provide light to medium lift capabilities at a capacity of 25 tons. The ATC Type II provides heavy lift capabilities required by the Engineer force at a capacity of 50 to 60 tons. The current program funding will acquire only the ATC Type II system. The ATC Type II provides mobility, survivability, and counter-mobility support across the entire range of theater operations supporting Maneuver BCTs, and/or Expeditionary Engineer Brigades. The ATC Type II supports Joint Force capabilities to repair and expand operating capacities of Ports of Embarkation (POE), Intermediate Staging Bases/Forward Operating Bases, Ports of Debarkation (POD), entry points and bridging in and around the battle space. The ATC Type II provides a capability to load and unload containers; support base camp construction, force protection, overhead lift operations; assist in the loading of earth, sand, gravel, rock, and bulk-type materials; drive steel, concrete, and timber piles; perform tasks supporting construction rehabilitation and maintenance of mooring systems, jetties, breakwaters, and other structures; participate in tasks that support construction of piers, wharves, ramps and related structures required for cargo loading and off-loading; and assist in the preparation and construction of facilities for Roll On Roll Off (RORO). The ATC Type II system is considered a Critical Dual Use (CDU) system, enabling and supporting Defense Support to Civil Authorities (DSCA) operations (i.e. Disaster Relief). ATC Army Acquisition Objective (AAO) is 417 Systems (Type I: 179; Type II: 238 Systems).

Funding of \$51.294 Million in FY 2017 represents a one-time procurement for the Military Ocean Terminal Concord (MOTCO) Crane.

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army									
Quantity	-	5	3	-	3	1	3	7	7
Total Obligation Authority	-	4.894	55.844	-	55.844	1.707	4.696	10.306	10.028
ANG									
Quantity	4	8	3	-	3	2	4	7	10
Total Obligation Authority	4.938	8.652	4.721	-	4.721	3.614	6.468	10.585	14.808
AR									
Quantity	-	5	3	-	3	2	4	7	9
Total Obligation Authority	-	3.204	4.720	-	4.720	3.614	6.468	10.586	13.327
<b>Total:</b>									
<b>Quantity</b>	<b>4</b>	<b>18</b>	<b>9</b>	<b>-</b>	<b>9</b>	<b>5</b>	<b>11</b>	<b>21</b>	<b>26</b>

**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** PB 2017 Army **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 50: Construction Equipment	<b>P-1 Line Item Number / Title:</b> R06701 / All Terrain Cranes
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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<b>Line Item MDAP/MAIS Code:</b> N/A	<b>Item MDAP/MAIS Code(s):</b> N/A
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Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Secondary Distribution	Total Obligation Authority	4.938	16.750	65.285	-	65.285	8.935	17.632	31.477	38.163

**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** PB 2017 Army **Date:** February 2016

**Appropriation / Budget Activity / Budget Sub Activity:**  
 2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 50: Construction Equipment

**P-1 Line Item Number / Title:**  
 R06701 / All Terrain Cranes

**ID Code** (A=Service Ready, B=Not Service Ready): **Program Elements for Code B Items:** N/A **Other Related Program Elements:** N/A

**Line Item MDAP/MAIS Code:** N/A **Item MDAP/MAIS Code(s):** N/A

Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	R06701 / All Terrain Cranes	P-5a		2 / 9.609	4 / 4.938	18 / 16.750	9 / 65.285	- / -	9 / 65.285
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>			<b>2 / 9.609</b>	<b>4 / 4.938</b>	<b>18 / 16.750</b>	<b>9 / 65.285</b>	<b>- / -</b>	<b>9 / 65.285</b>

\*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

**Justification:**  
 FY 2017 Base procurement dollars in the amount of \$13.991 million procures and fields 9 Type II cranes. Remainder of FY 2017 Base procurement dollars in the amount of \$51.294 million procures 1 Military Ocean Terminal Concord (MOTCO) Crane.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 50	<b>P-1 Line Item Number / Title:</b> R06701 / All Terrain Cranes	<b>Item Number / Title [DODIC]:</b> R06701 / All Terrain Cranes

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	2	4	18	9	-	9
Gross/Weapon System Cost (\$ in Millions)	9.609	4.938	16.750	65.285	-	65.285
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	9.609	4.938	16.750	65.285	-	65.285
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	<b>9.609</b>	<b>4.938</b>	<b>16.750</b>	<b>65.285</b>	<b>-</b>	<b>65.285</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	4,804.500	1,234.500	930.556	7,253.889	-	7,253.889

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
Hardware ATC Type II <sup>(†)</sup>	2,512.000	2	5.023	831.000	4	3.324	863.000	18	15.534	1,197.000	9	10.773	-	-	-	1,197.000	9	10.773
Hardware MOTCO Crane <sup>(†)</sup>	-	-	-	-	-	-	-	-	-	51,294.000	1	51.294	-	-	-	51,294.000	1	51.294
System Engineering/Program Management	-	-	1.017	-	-	0.538	-	-	0.500	-	-	1.400	-	-	-	-	-	1.400
System Test and Evaluation, Production	-	-	-	-	-	0.400	-	-	0.300	-	-	0.500	-	-	-	-	-	0.500
Training	-	-	-	-	-	0.500	-	-	-	-	-	-	-	-	-	-	-	-
Data	-	-	3.559	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fielding	-	-	0.009	-	-	0.176	-	-	0.416	-	-	1.318	-	-	-	-	-	1.318
<i>Subtotal: Recurring Cost</i>	-	-	9.609	-	-	4.938	-	-	16.750	-	-	65.285	-	-	-	-	-	65.285
<i>Subtotal: Flyaway Cost</i>	-	-	9.609	-	-	4.938	-	-	16.750	-	-	65.285	-	-	-	-	-	65.285
<b>Gross/Weapon System Cost</b>	<b>4,804.500</b>	<b>2</b>	<b>9.609</b>	<b>1,234.500</b>	<b>4</b>	<b>4.938</b>	<b>930.556</b>	<b>18</b>	<b>16.750</b>	<b>7,253.889</b>	<b>9</b>	<b>65.285</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>7,253.889</b>	<b>9</b>	<b>65.285</b>

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	-	5	3	-	3
	Total Obligation Authority	-	4.894	55.844	-	55.844
ANG	Quantity	4	8	3	-	3

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>	<b>Date:</b> February 2016
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<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 50	<b>P-1 Line Item Number / Title:</b> R06701 / All Terrain Cranes	<b>Item Number / Title [DODIC]:</b> R06701 / All Terrain Cranes
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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<b>Secondary Distribution</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>
Total Obligation Authority	4.938	8.652	4.721	-	4.721
AR					
Quantity	-	5	3	-	3
Total Obligation Authority	-	3.204	4.720	-	4.720
<b>Total: Secondary Distribution</b>					
Quantity	<b>4</b>	<b>18</b>	<b>9</b>	-	<b>9</b>
Total Obligation Authority	<b>4.938</b>	<b>16.750</b>	<b>65.285</b>	-	<b>65.285</b>

(t) indicates the presence of a P-5a

**UNCLASSIFIED**

**Exhibit P-5a, Procurement History and Planning:** PB 2017 Army **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 50	<b>P-1 Line Item Number / Title:</b> R06701 / All Terrain Cranes	<b>Item Number / Title [DODIC]:</b> R06701 / All Terrain Cranes
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Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
Hardware ATC Type II		2015	GROVE U.S. L.L.C / Shady Grove	C / FFP	TACOM	Jun 2015	Sep 2017	4	831.000	N		
Hardware ATC Type II		2016	GROVE U.S. L.L.C / Shady Grove	C / FFP	TACOM	Jun 2016	Jul 2018	18	863.000	N		
Hardware ATC Type II		2017	GROVE U.S. L.L.C / Shady Grove	C / FFP	TACOM	Jun 2017	Jul 2019	9	1,197.000	N		
Hardware MOTCO Crane		2017	TBD / TBD	TBD	TBD	Feb 2017	Jun 2019	1	51,294.000	N		

**Remarks:**  
 ATC Type II: This is a Commercial-off-the-Shelf (COTS) program  
 FY17 MOTCO Crane; Contractor, TBD- Funding to be MIPR'd to the A-proponent for contract award. Award Date assumes that all contract actions are in place for obligation. First Date of Delivery is for planning purposes only.



**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** PB 2017 Army **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 50: Construction Equipment	<b>P-1 Line Item Number / Title:</b> M08100 / Plant, Asphalt Mixing
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	44.123	0.667	0.984	-	-	-	-	-	-	-	-	45.774
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	44.123	0.667	0.984	-	-	-	-	-	-	-	-	45.774
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>44.123</b>	<b>0.667</b>	<b>0.984</b>	-	-	-	-	-	-	-	-	<b>45.774</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost ( <i>\$ in Thousands</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Thousands</i> )	-	-	-	-	-	-	-	-	-	-	-	-

**Description:**

The Asphalt Mixing Plant (AMP) is a commercial off the shelf (COTS) system capable of producing a minimum of 150 tons per hour of asphalt for use in the construction of roads, airfields, helicopter pads, parking lots and storage areas. The AMP is fielded to long-term storage and Army training base. The AMP is a portable drum-type, electric-motor-driven facility capable of self-erection (major components) and operation without permanent type footings. The AMP consists of major components and accessories required to assemble a complete plant. The AMP components consist of a plant control trailer, dedrummer, asphalt storage tank, 4-bin aggregate feeder, conveyor, surge bin feeder, mixing drum, power generators, and baghouse (filtration system). The Army Acquisition Objective (AAO) is 2.

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	0.984	-	-	-	-	-	-
ANG	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	0.667	-	-	-	-	-	-	-
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	-	-	-	-	-	-	-	-
	<b>Total Obligation Authority</b>	<b>0.667</b>	<b>0.984</b>	-	-	-	-	-	-

**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** PB 2017 Army **Date:** February 2016

**Appropriation / Budget Activity / Budget Sub Activity:**  
2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 50: Construction Equipment

**P-1 Line Item Number / Title:**  
M08100 / Plant, Asphalt Mixing

**ID Code** (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** N/A

**Line Item MDAP/MAIS Code:** N/A **Item MDAP/MAIS Code(s):** N/A

Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	M08100 / Plant, Asphalt Mixing		A	- / 44.123	- / 0.667	- / 0.984	- / -	- / -	- / -
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>			<b>- / 44.123</b>	<b>- / 0.667</b>	<b>- / 0.984</b>	<b>- / -</b>	<b>- / -</b>	<b>- / -</b>

\*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

**Justification:**  
This program has no FY 2017 Base or OCO Procurement requirements.

In accordance with Section 1815 of the FY 2008 NDAA this item is necessary for use by the active components and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

**UNCLASSIFIED**

**Exhibit P-5, Cost Analysis: PB 2017 Army** **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 50	<b>P-1 Line Item Number / Title:</b> M08100 / Plant, Asphalt Mixing	<b>Item Number / Title [DODIC]:</b> M08100 / Plant, Asphalt Mixing
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**ID Code** (A=Service Ready, B=Not Service Ready) : A **MDAP/MAIS Code:**

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	44.123	0.667	0.984	-	-	-
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	44.123	0.667	0.984	-	-	-
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	<b>44.123</b>	<b>0.667</b>	<b>0.984</b>	-	-	-

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
System Engineering/ Program Management	-	-	22.061	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Support Equipment	-	-	1.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fielding	-	-	21.062	-	-	0.667	-	-	0.984	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	44.123	-	-	0.667	-	-	0.984	-	-	-	-	-	-	-	-	-
<i>Subtotal: Flyaway Cost</i>	-	-	44.123	-	-	0.667	-	-	0.984	-	-	-	-	-	-	-	-	-
<b>Gross/Weapon System Cost</b>	-	-	44.123	-	-	0.667	-	-	0.984	-	-	-	-	-	-	-	-	-

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	-	0.984	-	-	-
ANG	Quantity	-	-	-	-	-
	Total Obligation Authority	0.667	-	-	-	-
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	-	-	-	-	-
	<b>Total Obligation Authority</b>	0.667	0.984	-	-	-

**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** PB 2017 Army **Date:** February 2016

**Appropriation / Budget Activity / Budget Sub Activity:**  
2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 50: Construction Equipment

**P-1 Line Item Number / Title:**  
R05901 / High Mobility Engineer Excavator (HMEE)

**ID Code** (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** N/A

**Line Item MDAP/MAIS Code:** N/A **Item MDAP/MAIS Code(s):** N/A

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	103	-	3	3	12	15	3	-	-	-	-	124
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	425.670	-	2.656	1.743	2.900	4.643	1.978	-	-	-	-	434.947
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	425.670	-	2.656	1.743	2.900	4.643	1.978	-	-	-	-	434.947
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>425.670</b>	<b>-</b>	<b>2.656</b>	<b>1.743</b>	<b>2.900</b>	<b>4.643</b>	<b>1.978</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>434.947</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost ( <i>\$ in Thousands</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Thousands</i> )	4,132.718	-	885.333	581.000	241.667	309.533	659.333	-	-	-	-	3,507.637

**Description:**

The High Mobility Engineer Excavator Type I (HMEE-I) is a non-developmental item uniquely developed for the military. It is used to clear rubble and debris from routes, roads, airfields, and the construction of these elements to include providing survivability positions for the maneuver forces. It is all wheeled drive, diesel engine driven, highly mobile, equipped with a front bucket and a rear excavation bucket, and capable of using forklift, sweeper, and auger attachments. It is self-deployable and does not require a truck/trailer combination for transport and can reach speeds up to 60 MPH. It is transported on C-130 (w/ o armor), C-5, and C-17 aircraft. The HMEE-I also has the capability to accept a Crew Protection Kit in the form of an armor cab for contingency operations. The HMEE-I provides the capability of maintaining pace with the rapid movement of forces between engagements. The HMEE-I is fielded to Heavy, Light, and Stryker Brigade Combat Teams, Engineer Support Companies, Multi-Roll Bridge Companies, Route Clearance Companies, Petroleum Pipeline Companies and the Army training base. The minimum monthly sustaining rate for the HMEE Type I is 6 systems per month.

The High Mobility Engineer Excavator (Airborne) is an armored, slightly modified HMEE I that is air-droppable from a C-17. The HMEE (A) provides the same excavation and high travel speed (60 mph) capabilities as the HMEE I. The HMEE (A) will be fielded to Engineer Support Companies and Infantry Brigade Combat Teams (IBCTs) in Airborne units.

The High Mobility Engineer Excavator Type III is a Backhoe Loader (BHL) which is a commercial off-the-shelf backhoe loader with minor military modifications. The BHL provides the capability to execute general construction missions in the areas of road building, airfield construction, repair and improve road systems, trails and bridges. The BHL also has the capability to accept a Crew Protection Kit in the form of a replaceable armor cab for contingency operations. The BHL is capable of driving up to 25 MPH on improved roads and 7 MPH off-road. The BHL is transported via C-130/C-5, C-17 aircraft, highway with M916/M870 and M915/M172 truck trailer combination organic to the unit. The BHL is fielded to Horizontal and Vertical Construction Companies, Army training base, and other Non Engineer Units.

The Army Acquisition Objective is: 1,480 (HMEE I: 841/HMEE III: 639).

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army									
Quantity	-	3	1	12	13	1	-	-	-
Total Obligation Authority	-	2.656	0.567	2.900	3.467	0.645	-	-	-
ANG									
Quantity	-	-	1	-	1	1	-	-	-
Total Obligation Authority	-	-	0.588	-	0.588	0.667	-	-	-

**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** PB 2017 Army **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 50: Construction Equipment	<b>P-1 Line Item Number / Title:</b> R05901 / High Mobility Engineer Excavator (HMEE)
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
AR	Quantity	-	-	1	-	1	1	-	-	-
	Total Obligation Authority	-	-	0.588	-	0.588	0.666	-	-	-
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	-	<b>3</b>	<b>3</b>	<b>12</b>	<b>15</b>	<b>3</b>	-	-	-
	<b>Total Obligation Authority</b>	-	<b>2.656</b>	<b>1.743</b>	<b>2.900</b>	<b>4.643</b>	<b>1.978</b>	-	-	-

**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** PB 2017 Army **Date:** February 2016

**Appropriation / Budget Activity / Budget Sub Activity:**  
2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 50: Construction Equipment

**P-1 Line Item Number / Title:**  
R05901 / High Mobility Engineer Excavator (HMEE)

**ID Code** (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** N/A

**Line Item MDAP/MAIS Code:** N/A **Item MDAP/MAIS Code(s):** N/A

Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	R05900 / High Mobility Engineer Excavator (HMEE) Type I	P-5a, P-21	B	103 / 425.670	- / -	3 / 2.656	3 / 1.743	12 / 2.900	15 / 4.643
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>			<b>103 / 425.670</b>	<b>- / -</b>	<b>3 / 2.656</b>	<b>3 / 1.743</b>	<b>12 / 2.900</b>	<b>15 / 4.643</b>

\*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

**Justification:**

FY17 Base OPA funding in the amount of \$1.743 million will procure 3 production vehicles and programmatic system support.

The FY17 OCO includes \$2.900 million to support the Combatant Command (COCOM) requirement for unit equipment sets to deter potential adversaries and support the European Reassurance Initiatives. The procurements include a quantity of 12 HMEE I vehicles.

This program is considered a Critical Dual Use (CDU) system enabling and supporting Defense Support to Civil Authorities (DSCA) operations.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 50	<b>P-1 Line Item Number / Title:</b> R05901 / High Mobility Engineer Excavator (HMEE)	<b>Item Number / Title [DODIC]:</b> R05900 / High Mobility Engineer Excavator (HMEE) Type I

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : B	<b>MDAP/MAIS Code:</b>
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<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>
Procurement Quantity (Units in Each)	103	-	3	3	12	15
Gross/Weapon System Cost (\$ in Millions)	425.670	-	2.656	1.743	2.900	4.643
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	425.670	-	2.656	1.743	2.900	4.643
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	<b>425.670</b>	<b>-</b>	<b>2.656</b>	<b>1.743</b>	<b>2.900</b>	<b>4.643</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	4,132.718	-	885.333	581.000	241.667	309.533

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

<b>Cost Elements</b>	<b>Prior Years</b>			<b>FY 2015</b>			<b>FY 2016</b>			<b>FY 2017 Base</b>			<b>FY 2017 OCO</b>			<b>FY 2017 Total</b>		
	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>
Flyaway Cost																		
Recurring Cost																		
Hardware - HMEE (I) System <sup>(†)</sup>	363.000	759	275.517	-	-	-	461.000	3	1.383	461.000	3	1.383	241.000	12	2.892	285.000	15	4.275
Engineering Changes	-	-	0.367	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Support Equipment - Special Tools	20.000	178	3.560	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
System Engineering/ Program Management	-	-	27.551	-	-	-	-	-	0.973	-	-	0.200	-	-	0.008	-	-	0.208
Fielding	-	-	118.675	-	-	-	-	-	0.300	-	-	0.160	-	-	-	-	-	0.160
<i>Subtotal: Recurring Cost</i>	-	-	425.670	-	-	-	-	-	2.656	-	-	1.743	-	-	2.900	-	-	4.643
<i>Subtotal: Flyaway Cost</i>	-	-	425.670	-	-	-	-	-	2.656	-	-	1.743	-	-	2.900	-	-	4.643
<b>Gross/Weapon System Cost</b>	<b>4,132.718</b>	<b>103</b>	<b>425.670</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>885.333</b>	<b>3</b>	<b>2.656</b>	<b>581.000</b>	<b>3</b>	<b>1.743</b>	<b>241.667</b>	<b>12</b>	<b>2.900</b>	<b>309.533</b>	<b>15</b>	<b>4.643</b>

<b>Secondary Distribution</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>
Army	-	3	1	12	13
Total Obligation Authority	-	2.656	0.567	2.900	3.467
ANG	-	-	1	-	1
Total Obligation Authority	-	-	0.588	-	0.588
AR	-	-	1	-	1

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<b>Exhibit P-5, Cost Analysis:</b> PB 2017 Army		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 50	<b>P-1 Line Item Number / Title:</b> R05901 / High Mobility Engineer Excavator (HMEE)	<b>Item Number / Title [DODIC]:</b> R05900 / High Mobility Engineer Excavator (HMEE) Type I

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : B		<b>MDAP/MAIS Code:</b>				
<b>Secondary Distribution</b>		<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>
	Total Obligation Authority	-	-	0.588	-	0.588
<b>Total:</b>	<b>Quantity</b>	-	3	3	12	15
<b>Secondary Distribution</b>	<b>Total Obligation Authority</b>	-	2.656	1.743	2.900	4.643

(t) indicates the presence of a P-5a



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<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2017 Army							<b>Date:</b> February 2016					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 50			<b>P-1 Line Item Number / Title:</b> R05901 / High Mobility Engineer Excavator (HMEE)				<b>Item Number / Title [DODIC]:</b> R05900 / High Mobility Engineer Excavator (HMEE) Type I					

Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
Hardware - HMEE (I) System <sup>(†)</sup>		2016	JCB / Pooler, GA	C / FFP	TACOM	Jan 2016	Mar 2016	3	461.000	Y		
Hardware - HMEE (I) System <sup>(†)</sup>		2017	JCB / Pooler, GA	C / FFP	TACOM	Oct 2016	Jan 2017	15	285.000	Y		

<sup>(†)</sup> indicates the presence of a P-21

**Remarks:**  
Firm Fixed Price three-year beginning in FY 2014.

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<b>Exhibit P-21, Production Schedule:</b> PB 2017 Army																									<b>Date:</b> February 2016							
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 50										<b>P-1 Line Item Number / Title:</b> R05901 / High Mobility Engineer Excavator (HMEE)										<b>Item Number / Title [DODIC]:</b> R05900 / High Mobility Engineer Excavator (HMEE) Type I												
Cost Elements <i>(Units in Each)</i>						Fiscal Year 2016											Fiscal Year 2017											BALANCE				
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2015	BAL DUE AS OF 1 OCT	Calendar Year 2016											Calendar Year 2017														
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N		J U L	A U G	S E P	
Hardware - HMEE (I) System																																
Prior Years Deliveries: 759																																
	1	2016	ARMY	3	-	3				A	-																					-
	1	2017	ARMY	15	-	15														A	-											-

**UNCLASSIFIED**

<b>Exhibit P-21, Production Schedule:</b> PB 2017 Army		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 50		<b>P-1 Line Item Number / Title:</b> R05901 / High Mobility Engineer Excavator (HMEE)
		<b>Item Number / Title [DODIC]:</b> R05900 / High Mobility Engineer Excavator (HMEE) Type I

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2017	1-8-5 For 2017	MAX For 2017	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	JCB - Pooler, GA	6	10	20	-	19	4	23	-	7	4	11

"A" in the Delivery Schedule indicates the Contract Award Date.

**Note:** Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** PB 2017 Army **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 50: Construction Equipment	<b>P-1 Line Item Number / Title:</b> R07001 / Enhanced Rapid Airfield Construction Capap
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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<b>Line Item MDAP/MAIS Code:</b> N/A	<b>Item MDAP/MAIS Code(s):</b> N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	176	24	20	-	20	28	7	7	17	Continuing	Continuing
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	5.000	14.924	2.531	2.779	-	2.779	3.663	0.992	0.991	4.275	Continuing	Continuing
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	5.000	14.924	2.531	2.779	-	2.779	3.663	0.992	0.991	4.275	Continuing	Continuing
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>5.000</b>	<b>14.924</b>	<b>2.531</b>	<b>2.779</b>	<b>-</b>	<b>2.779</b>	<b>3.663</b>	<b>0.992</b>	<b>0.991</b>	<b>4.275</b>	<b>Continuing</b>	<b>Continuing</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost ( <i>\$ in Thousands</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Thousands</i> )	-	84.795	105.458	138.950	-	138.950	130.821	141.714	141.571	251.471	Continuing	Continuing

**Description:**

The Enhanced Rapid Airfield Construction Capabilities (ERACC) consists of four (4) independent products that enhance the joint commander's capability for Enable Theater Access (ETA) operations. ERACC provides the joint commander the capability enhancement to rapidly construct new airfields, runways and to upgrade existing facilities to meet joint task force needs. This expands operating capacities of Aerial ports Embarkation/Debarcation (APOE/APOD). ERACC Type I, Type II, Type III and Type IV are commercial off the shelf (COTS) programs. Joint U.S. Forces will employ ERACC types (I-IV) individually or as a combined mission based on engineer requirements.

ERACC Type I, Site Selection and Assessment. This capability package is a software centric capability used to rapidly assess potential sites for airfield operations. This capability provides geospatial information, site analysis, terrain visualization, airfield performance predictions, constructability estimations, on-site material characterization, and site design capabilities. The fielding of the ERACC Type I software will be to users of the ENFIRE engineer reconnaissance system as part of the ENFIRE 7.0 software baseline, and will be included in all subsequent baselines. The users include construction engineer platoon leaders, engineer liaison teams, facilities managers, and contracting personnel within Engineer organizations for construction project management, reconnaissance, facilities and inventory management, Tele-engineering, site layout, rudimentary surveying, mapping, and associated reporting. The ERACC Type I system is a software application on the ENFIRE system. The Army Acquisition Objective (AAO) for the Type I is 41 and will be procured by Product Director Combat Terrain Information Systems (PD CTIS).

ERACC Type II, Enhanced Earthmoving. This system is a Grade Control System that includes a global positioning system (GPS) and laser leveling system that is installed on a dozer, grader, scraper and Deployable Universal Combat Earthmover (DEUCE). The Grade Control System with automatic blade control significantly increases operating productivity and training efficiencies by reducing construction times and fuel consumption. A project design can be loaded into the blade leveling display box allowing the operator to have 3-D view of where he is in relation to the project end state. This allows the operator to instantly know where to fill and cut and thus eliminates the requirement for the survey team to repetitively verify the project. The fielding of the Enhanced Earthmoving will be within Engineer Support Company, Engineer Support Teams, and to Rapidly Deployable Earthmoving-Light (RDE-L) Platoons, an integral asset of the Engineer Support Companies. The AAO for the Type II 279 will be procured by PM Combat Engineer/Material Handling Equipment (CE/MHE).

ERACC Type III is the Mobil Technical Engineer Lab (MTEL) and is an integration of commercially available non-developmental items. MTEL effort is a C130 airplane Low Velocity Air Droppable (LVAD)/CH-47 helicopter sling transportable package enhancing a modularly designed capability to rapidly open new airfields and runways, and/or upgrade existing facilities to meet joint task force needs. The MTEL provides a soil test and survey capability utilizing a utility vehicle. This allows the ERACC Team to quickly understand the composition of the soil to determine feasibility for construction of an airfield. The MTEL can also be used for recon and scouting once the lab package is removed. The fielding of the MTEL will be within Engineer Support Company and Engineer Support Teams. The ERACC Type III AAO is 86 and will be procured by PM CE/MHE.

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2017 Army		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 50: Construction Equipment		<b>P-1 Line Item Number / Title:</b> R07001 / Enhanced Rapid Airfield Construction Capap
<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
<b>Line Item MDAP/MAIS Code:</b> N/A	<b>Item MDAP/MAIS Code(s):</b> N/A	

ERACC Type IV is the Soil Reclaimer Stabilizer. This system is essential to mix soil stabilization products with soil to produce desired stabilized base layers suitable for aircraft traffic operations. This system supports rapid construction and or expansion of airfield operation capacities. It will also be employed during the construction/upgrading of helipads as a means to prevent brownout conditions from occurring during helicopter landing and takeoff operations. The machine is equipped with an onboard automated liquid distribution system that matches the desired liquid polymer application rate to the machines ground speed. It has the capability to continuously operate for a period of 10 hours. The Soil Reclaimer Stabilizer will be fielded to the Rapidly Deployable Earthmoving-Light (RDE-L) Platoon within the Engineer Support Company (ESC), Engineer Survey and Design Sections, Engineer Geospatial Cells, Forward Engineer Support Teams, and Technical Engineer Sections. The ERACC Type IV AAO is 31 and will be procured by PM CE/MHE.

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	Quantity	-	3	6	-	6	9	-	-	3
	Total Obligation Authority	-	0.638	0.810	-	0.810	1.151	-	-	0.875
ANG	Quantity	176	18	8	-	8	10	-	-	4
	Total Obligation Authority	14.924	1.255	1.125	-	1.125	1.322	-	-	0.800
AR	Quantity	-	3	6	-	6	9	7	7	10
	Total Obligation Authority	-	0.638	0.844	-	0.844	1.190	0.992	0.991	2.600
<b>Total:</b>	<b>Quantity</b>	<b>176</b>	<b>24</b>	<b>20</b>	<b>-</b>	<b>20</b>	<b>28</b>	<b>7</b>	<b>7</b>	<b>17</b>
<b>Secondary Distribution</b>	<b>Total Obligation Authority</b>	<b>14.924</b>	<b>2.531</b>	<b>2.779</b>	<b>-</b>	<b>2.779</b>	<b>3.663</b>	<b>0.992</b>	<b>0.991</b>	<b>4.275</b>

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**Exhibit P-40, Budget Line Item Justification:** PB 2017 Army **Date:** February 2016

**Appropriation / Budget Activity / Budget Sub Activity:**  
 2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 50: Construction Equipment

**P-1 Line Item Number / Title:**  
 R07001 / Enhanced Rapid Airfield Construction Capap

**ID Code** (A=Service Ready, B=Not Service Ready): **Program Elements for Code B Items:** N/A **Other Related Program Elements:** N/A

**Line Item MDAP/MAIS Code:** N/A **Item MDAP/MAIS Code(s):** N/A

Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	R03001 / ERACC Type IV- Soil Stabilization	P-5a		- / -	15 / 2.741	24 / 2.531	- / -	- / -	- / -
P-5	R07002 / ERACC Type I, Site Assessment And Selection	P-5a		- / -	17 / 2.378	- / -	- / -	- / -	- / -
P-5	R07003 / ERACC Type II, Enhanced Earthmoving	P-5a		- / 5.000	139 / 8.365	- / -	20 / 2.779	- / -	20 / 2.779
P-5	R07004 / ERACC Type III, Mobile Technical Engineer Lab	P-5a		- / -	5 / 1.440	- / -	- / -	- / -	- / -
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>			<b>- / 5.000</b>	<b>176 / 14.924</b>	<b>24 / 2.531</b>	<b>20 / 2.779</b>	<b>- / -</b>	<b>20 / 2.779</b>

\*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

**Justification:**  
 FY 2017 Base funding in the amount of \$2.779 million procures 20 ERACC Type II packages. This will support rapid construction and/or expansion of airfield operating capacities in support of mission requirements. FY 2017 procurement supports a balanced investment strategy for the Army's approved force structure and Army Force Generation (ARFORGEN) requirements.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active components and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

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<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 50	<b>P-1 Line Item Number / Title:</b> R07001 / Enhanced Rapid Airfield Construction Capap	<b>Item Number / Title [DODIC]:</b> R03001 / ERACC Type IV- Soil Stabilization

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	-	15	24	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	2.741	2.531	-	-	-
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	2.741	2.531	-	-	-
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	-	<b>2.741</b>	<b>2.531</b>	-	-	-

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	182.733	105.458	-	-	-

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
Hardware - Package Type II <sup>(†)</sup>	-	-	-	-	-	-	98.000	24	2.352	-	-	-	-	-	-	-	-	-
Hardware - Package Type IV <sup>(†)</sup>	-	-	-	171.000	15	2.565	-	-	-	-	-	-	-	-	-	-	-	-
System Engineering/ Program Management	-	-	-	-	-	0.106	-	-	0.130	-	-	-	-	-	-	-	-	-
Fielding	-	-	-	-	-	0.070	-	-	0.049	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	2.741	-	-	2.531	-	-	-	-	-	-	-	-	-
<i>Subtotal: Flyaway Cost</i>	-	-	-	-	-	2.741	-	-	2.531	-	-	-	-	-	-	-	-	-
<b>Gross/Weapon System Cost</b>	-	-	-	182.733	15	2.741	105.458	24	2.531	-	-	-	-	-	-	-	-	-

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	-	3	-	-	-
	Total Obligation Authority	-	0.638	-	-	-
ANG	Quantity	15	18	-	-	-
	Total Obligation Authority	2.741	1.255	-	-	-
AR	Quantity	-	3	-	-	-
	Total Obligation Authority	-	0.638	-	-	-

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<b>Exhibit P-5, Cost Analysis:</b> PB 2017 Army		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 50	<b>P-1 Line Item Number / Title:</b> R07001 / Enhanced Rapid Airfield Construction Capap	<b>Item Number / Title [DODIC]:</b> R03001 / ERACC Type IV- Soil Stabilization

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
<b>Total:</b>	<b>Quantity</b>	15	24	-	-	-
<b>Secondary Distribution</b>	<b>Total Obligation Authority</b>	2.741	2.531	-	-	-

(t) indicates the presence of a P-5a



**UNCLASSIFIED**

<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2017 Army							<b>Date:</b> February 2016				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 50			<b>P-1 Line Item Number / Title:</b> R07001 / Enhanced Rapid Airfield Construction Capap				<b>Item Number / Title [DODIC]:</b> R03001 / ERACC Type IV- Soil Stabilization				

Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
Hardware - Package Type II		2016	Trimble / Dayton, OH	C / FFP	Quantico	Jan 2016	Jan 2017	24	98.000			
Hardware - Package Type IV		2015	TBD / TBD	TBD	TACOM	Jan 2015	Jan 2016	15	171.000			

**Remarks:**  
This is a Commercial-off-the-Shelf (COTS) system

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<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 50	<b>P-1 Line Item Number / Title:</b> R07001 / Enhanced Rapid Airfield Construction Capap	<b>Item Number / Title [DODIC]:</b> R07002 / ERACC Type I, Site Assessment And Selection

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :				<b>MDAP/MAIS Code:</b>					
<b>Resource Summary</b>				<b>Prior Years</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>
Procurement Quantity (Units in Each)				-	17	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)				-	2.378	-	-	-	-
Less PY Advance Procurement (\$ in Millions)				-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)				-	2.378	-	-	-	-
Plus CY Advance Procurement (\$ in Millions)				-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>				-	<b>2.378</b>	-	-	-	-
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>									
Initial Spares (\$ in Millions)				-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)				-	139.882	-	-	-	-

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
Hardware <sup>(t)</sup>	-	-	-	86.000	17	1.462	-	-	-	-	-	-	-	-	-	-	-	-
System Engineering/ Program Management	-	-	-	-	-	0.325	-	-	-	-	-	-	-	-	-	-	-	-
System Test & Evaluation, Production	-	-	-	-	-	0.291	-	-	-	-	-	-	-	-	-	-	-	-
Data	-	-	-	-	-	0.300	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	2.378	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Flyaway Cost</i>	-	-	-	-	-	2.378	-	-	-	-	-	-	-	-	-	-	-	-
<b>Gross/Weapon System Cost</b>	-	-	-	139.882	17	2.378	-	-	-	-	-	-	-	-	-	-	-	-

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
ANG	Quantity	17	-	-	-	-
	Total Obligation Authority	2.378	-	-	-	-
<b>Total:</b>	Quantity	17	-	-	-	-
<b>Secondary Distribution</b>	Total Obligation Authority	2.378	-	-	-	-

(t) indicates the presence of a P-5a

**UNCLASSIFIED**

<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2017 Army							<b>Date:</b> February 2016					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 50			<b>P-1 Line Item Number / Title:</b> R07001 / Enhanced Rapid Airfield Construction Capap				<b>Item Number / Title [DODIC]:</b> R07002 / ERACC Type I, Site Assessment And Selection					
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
Hardware		2015	TBD / TBD	TBD	PD CTIS	Jan 2015	Jan 2016	17	86.000			

**Remarks:**  
This is a Commercial-off-the-Shelf (COTS) system.

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<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 50	<b>P-1 Line Item Number / Title:</b> R07001 / Enhanced Rapid Airfield Construction Capap	<b>Item Number / Title [DODIC]:</b> R07003 / ERACC Type II, Enhanced Earthmoving

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	-	139	-	20	-	20
Gross/Weapon System Cost (\$ in Millions)	5.000	8.365	-	2.779	-	2.779
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	5.000	8.365	-	2.779	-	2.779
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	<b>5.000</b>	<b>8.365</b>	<b>-</b>	<b>2.779</b>	<b>-</b>	<b>2.779</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	60.180	-	138.950	-	138.950

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
Hardware <sup>(†)</sup>	-	-	-	99.000	75	7.425	-	-	-	99.000	20	1.980	-	-	-	99.000	20	1.980
System Engineering/ Program Management	-	-	0.500	-	-	0.120	-	-	-	-	-	0.282	-	-	-	-	-	0.282
System Test & Evaluation, Production	-	-	-	-	-	0.395	-	-	-	-	-	-	-	-	-	-	-	-
Data	-	-	2.000	-	-	0.225	-	-	-	-	-	0.235	-	-	-	-	-	0.235
Support Equipment	-	-	1.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fielding	-	-	1.500	-	-	0.200	-	-	-	-	-	0.282	-	-	-	-	-	0.282
<i>Subtotal: Recurring Cost</i>	-	-	<i>5.000</i>	-	-	<i>8.365</i>	-	-	-	-	-	<i>2.779</i>	-	-	-	-	-	<i>2.779</i>
<i>Subtotal: Flyaway Cost</i>	-	-	<i>5.000</i>	-	-	<i>8.365</i>	-	-	-	-	-	<i>2.779</i>	-	-	-	-	-	<i>2.779</i>
<b>Gross/Weapon System Cost</b>	-	-	<b>5.000</b>	<b>60.180</b>	<b>139</b>	<b>8.365</b>	-	-	-	<b>138.950</b>	<b>20</b>	<b>2.779</b>	-	-	-	<b>138.950</b>	<b>20</b>	<b>2.779</b>

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	-	-	6	-	6
	Total Obligation Authority	-	-	0.810	-	0.810
ANG	Quantity	139	-	8	-	8
	Total Obligation Authority	8.365	-	1.125	-	1.125
AR	Quantity	-	-	6	-	6

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<b>Exhibit P-5, Cost Analysis:</b> PB 2017 Army		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 50	<b>P-1 Line Item Number / Title:</b> R07001 / Enhanced Rapid Airfield Construction Capap	<b>Item Number / Title [DODIC]:</b> R07003 / ERACC Type II, Enhanced Earthmoving

**ID Code** (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
	Total Obligation Authority	-	-	0.844	-	0.844
<b>Total:</b>	<b>Quantity</b>	<b>139</b>	-	<b>20</b>	-	<b>20</b>
<b>Secondary Distribution</b>	<b>Total Obligation Authority</b>	<b>8.365</b>	-	<b>2.779</b>	-	<b>2.779</b>

(t) indicates the presence of a P-5a

**UNCLASSIFIED**

<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2017 Army							<b>Date:</b> February 2016				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 50			<b>P-1 Line Item Number / Title:</b> R07001 / Enhanced Rapid Airfield Construction Capap				<b>Item Number / Title [DODIC]:</b> R07003 / ERACC Type II, Enhanced Earthmoving				

Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
Hardware		2015	Trimble / Dayton	C / FFP	Quantico	Jan 2015	Jan 2016	75	99.000			
Hardware		2017	Trimble / Dayton	C / FFP	Qunatico	Jan 2017	Jan 2018	20	99.000			

**Remarks:**  
This is a Commercial-off-the-Shelf (COTS) system.

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<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 50	<b>P-1 Line Item Number / Title:</b> R07001 / Enhanced Rapid Airfield Construction Capap	<b>Item Number / Title [DODIC]:</b> R07004 / ERACC Type III, Mobile Technical Engineer Lab

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>
Procurement Quantity (Units in Each)	-	5	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	1.440	-	-	-	-
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	1.440	-	-	-	-
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	-	<b>1.440</b>	-	-	-	-

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	288.000	-	-	-	-

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

<b>Cost Elements</b>	<b>Prior Years</b>			<b>FY 2015</b>			<b>FY 2016</b>			<b>FY 2017 Base</b>			<b>FY 2017 OCO</b>			<b>FY 2017 Total</b>		
	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>
<b>Flyaway Cost</b>																		
<b>Recurring Cost</b>																		
Hardware <sup>(†)</sup>	-	-	-	243.000	5	1.215	-	-	-	-	-	-	-	-	-	-	-	-
System Engineering/ Program Management	-	-	-	-	-	0.100	-	-	-	-	-	-	-	-	-	-	-	-
System Test & Evaluation, Production	-	-	-	-	-	0.045	-	-	-	-	-	-	-	-	-	-	-	-
Data	-	-	-	-	-	0.040	-	-	-	-	-	-	-	-	-	-	-	-
Fielding	-	-	-	-	-	0.040	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	1.440	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Flyaway Cost</i>	-	-	-	-	-	1.440	-	-	-	-	-	-	-	-	-	-	-	-
<b>Gross/Weapon System Cost</b>	-	-	-	<b>288.000</b>	<b>5</b>	<b>1.440</b>	-	-	-	-	-	-	-	-	-	-	-	-

<b>Secondary Distribution</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>
ANG	5	-	-	-	-
Total Obligation Authority	1.440	-	-	-	-
<b>Total: Secondary Distribution</b>	<b>5</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>Total Obligation Authority</b>	<b>1.440</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

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<b>Exhibit P-5, Cost Analysis:</b> PB 2017 Army		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 50	<b>P-1 Line Item Number / Title:</b> R07001 / Enhanced Rapid Airfield Construction Capap	<b>Item Number / Title [DODIC]:</b> R07004 / ERACC Type III, Mobile Technical Engineer Lab
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :		<b>MDAP/MAIS Code:</b>
<sup>(†)</sup> indicates the presence of a P-5a		



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<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2017 Army							<b>Date:</b> February 2016					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 50			<b>P-1 Line Item Number / Title:</b> R07001 / Enhanced Rapid Airfield Construction Capap				<b>Item Number / Title [DODIC]:</b> R07004 / ERACC Type III, Mobile Technical Engineer Lab					

Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
Hardware		2015	TBD / TBD	TBD	TBD	Jun 2015	Jun 2016	5	243.000			

**Remarks:**  
This is a Commercial-off-the-Shelf (COTS) system.

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**Exhibit P-40, Budget Line Item Justification:** PB 2017 Army **Date:** February 2016

**Appropriation / Budget Activity / Budget Sub Activity:**  
2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 50: Construction Equipment

**P-1 Line Item Number / Title:**  
R07005 / Family of Diver Support Equipment

**ID Code** (A=Service Ready, B=Not Service Ready): **Program Elements for Code B Items:** N/A **Other Related Program Elements:** N/A

**Line Item MDAP/MAIS Code:** N/A **Item MDAP/MAIS Code(s):** N/A

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	1	-	-	-	-	-	-	-	-	1
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	-	0.446	-	-	-	-	-	-	-	-	0.446
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	-	0.446	-	-	-	-	-	-	-	-	0.446
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	-	<b>0.446</b>	-	-	-	-	-	-	-	-	<b>0.446</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost ( <i>\$ in Thousands</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Thousands</i> )	-	-	446.000	-	-	-	-	-	-	-	-	446.000

**Description:**

The Family of Diver Support Equipment includes critical life support and safety related sets such as Diver's Supplemental Issue Set (DSIS), Underwater Photo Set; Supervisor, Propulsion, Emergency and Recovery Set (SPEARS) Set; Surface Swimmer Support Set; Individual Swimmer Support Set; Deep Sea Set; and Closed & Open Circuit Set. Engineer divers support Corps/Theater level operations as a force multiplier by performing current diving missions in South West Asia to include debris removal, bridge construction, salvage operations, underwater mine and explosive detection, and personnel recovery operations. Special operations dive teams use the sets for clandestine combat waterborne infiltration/ex-filtration and to aid in search and recovery operations.

Deep Sea Set (DSS): The Deep Sea Set provides diver-worn critical life support and safety related equipment required to conduct surface supplied diving operations in accordance with all commercial and military safety standards. It includes a full helmet diving assembly that provides air, and protection from pollution, falling debris, and other hazards. It allows for communications with the surface in a dry environment, and is required equipment for construction, cutting and welding, and salvage operations. The set also includes an umbilical assembly that supplies breathing air, depth monitoring and a communications/strength member capable of supporting the diver's weight. The communications assembly allows three divers and the diving supervisor to communicate. The set can be used to a depth of 250 feet and is the only system that protects the diver while conducting heavy construction and salvage operations. Army Acquisition Objective (AAO) for DSS is 6.

Funds in this program are a realignment of funds from program Items Less Than \$5 million, SSN ML5301 for more efficient, effective program management.

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army									
	Quantity	-	1	-	-	-	-	-	-
	Total Obligation Authority	-	0.446	-	-	-	-	-	-
<b>Total:</b>									
<b>Secondary Distribution</b>	Quantity	-	1	-	-	-	-	-	-
	Total Obligation Authority	-	0.446	-	-	-	-	-	-

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**Exhibit P-40, Budget Line Item Justification:** PB 2017 Army **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 50: Construction Equipment	<b>P-1 Line Item Number / Title:</b> R07005 / Family of Diver Support Equipment
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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<b>Line Item MDAP/MAIS Code:</b> N/A	<b>Item MDAP/MAIS Code(s):</b> N/A
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Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	R12050 / Deep Sea Set			- / -	- / -	1 / 0.446	- / -	- / -	- / -
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>			<b>- / -</b>	<b>- / -</b>	<b>1 / 0.446</b>	<b>- / -</b>	<b>- / -</b>	<b>- / -</b>

\*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

**Justification:**  
 There are no FY17 requirements.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), these items are necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

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<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 50	<b>P-1 Line Item Number / Title:</b> R07005 / Family of Diver Support Equipment	<b>Item Number / Title [DODIC]:</b> R12050 / Deep Sea Set

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :				<b>MDAP/MAIS Code:</b>			
<b>Resource Summary</b>		<b>Prior Years</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>
Procurement Quantity (Units in Each)		-	-	1	-	-	-
Gross/Weapon System Cost (\$ in Millions)		-	-	0.446	-	-	-
Less PY Advance Procurement (\$ in Millions)		-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)		-	-	0.446	-	-	-
Plus CY Advance Procurement (\$ in Millions)		-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>		-	-	<b>0.446</b>	-	-	-
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>							
Initial Spares (\$ in Millions)		-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)		-	-	446.000	-	-	-

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
Deep Sea Set	-	-	-	-	-	-	378.000	1	0.378	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	0.378	-	-	-	-	-	-	-	-	-
<i>Subtotal: Hardware Cost</i>	-	-	-	-	-	-	-	-	<b>0.378</b>	-	-	-	-	-	-	-	-	-
Support - Fielding Cost																		
Fielding	-	-	-	-	-	-	-	-	0.020	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Fielding Cost</i>	-	-	-	-	-	-	-	-	<b>0.020</b>	-	-	-	-	-	-	-	-	-
Support - Program Management Cost																		
Government Management	-	-	-	-	-	-	-	-	0.028	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Program Management Cost</i>	-	-	-	-	-	-	-	-	<b>0.028</b>	-	-	-	-	-	-	-	-	-
Support - Quality Assurance Cost																		
Quality Assurance	-	-	-	-	-	-	-	-	0.020	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Quality Assurance Cost</i>	-	-	-	-	-	-	-	-	<b>0.020</b>	-	-	-	-	-	-	-	-	-
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	-	<b>446.000</b>	<b>1</b>	<b>0.446</b>	-	-	-	-	-	-	-	-	-

<b>Secondary Distribution</b>		<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>
Army	Quantity	-	1	-	-	-

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>	<b>Date:</b> February 2016
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<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 50	<b>P-1 Line Item Number / Title:</b> R07005 / Family of Diver Support Equipment	<b>Item Number / Title [DODIC]:</b> R12050 / Deep Sea Set
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
<b>Secondary Distribution</b>						
	Total Obligation Authority	-	0.446	-	-	-
<b>Total:</b>	<b>Quantity</b>	-	1	-	-	-
<b>Secondary Distribution</b>	<b>Total Obligation Authority</b>	-	0.446	-	-	-

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**Exhibit P-40, Budget Line Item Justification:** PB 2017 Army **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 50: Construction Equipment	<b>P-1 Line Item Number / Title:</b> M05500 / Const Equip ESP
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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<b>Line Item MDAP/MAIS Code:</b> N/A	<b>Item MDAP/MAIS Code(s):</b> N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	129	46	174	125	-	125	176	222	207	146	Continuing	Continuing
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	350.400	15.933	19.640	26.712	-	26.712	35.582	39.190	36.482	22.054	Continuing	Continuing
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	350.400	15.933	19.640	26.712	-	26.712	35.582	39.190	36.482	22.054	Continuing	Continuing
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>350.400</b>	<b>15.933</b>	<b>19.640</b>	<b>26.712</b>	<b>-</b>	<b>26.712</b>	<b>35.582</b>	<b>39.190</b>	<b>36.482</b>	<b>22.054</b>	<b>Continuing</b>	<b>Continuing</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost ( <i>\$ in Thousands</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Thousands</i> )	2,716.279	346.370	112.874	213.696	-	213.696	202.170	176.532	176.242	151.055	Continuing	Continuing

**Description:**

The Construction Equipment (CE) Service Life Extension Program (SLEP) supports the Engineer Strategy by extending current construction capability until new procurements can be executed. The SLEP candidates include the Deployable Universal Combat Earthmover (DEUCE), Dual Steel Wheel Roller (DSWR), High Speed Compactors (HSC), Vibratory Rollers, All Terrain Crane (ATEC), Hydraulic Excavator (HYEX), Scraper 613C, 7.5T Crane, Engineer Mission Module (EMM) and select components of the asphalt mixing plant (AMP). The CE SLEP is a commercial off the shelf program (COTS).

The DEUCE is a rubber-tracked dozer used in clearing, leveling, and excavation operations. It is C-130 airplane transportable and can be dropped by parachute at low velocity. It can travel at speeds up to 30 miles per hour (MPH) eliminating the typical construction equipment requirement of trailers and additional haul assets. The DEUCE rubber tracks allow construction, loading, and off-loading on airfields and paved roads without damage. No replacement solution provides these capabilities at this time. The SLEP Army Acquisition Objective (AAO) for DEUCE is 289 systems.

The Dual Steel Wheel Roller (DSWR) is a self-propelled vehicle consisting of two steel drums, a diesel engine, and a hydrostatic drive. It is a commercial system used to compact bituminous material in paving operations. The SLEP AAO for DSWR is 30 systems.

The High Speed Compactor (HSC) is equipped with articulated steering, a dozer blade, a diesel engine, and has segmented impact pads on each of the four drums. It is capable of compacting various soil types in forward or reverse at speeds up to 12 MPH. The SLEP AAO for HSC is 162 systems.

The Vibratory Rollers Type I, Type II, and Type III are self-propelled single drum rollers equipped with vibratory action, and are used to level and compact all soil types. The combined AAO for Vibratory Rollers Type I and Type III is 88. The SLEP AAO for Vibratory Rollers Type II is 369 systems.

The All Terrain Crane (ATEC) is a hydraulic, all terrain crane capable of traveling over primary, secondary and off road surfaces at the tactical support level. Technical characteristics include: diesel engine, power shift transmission, three mode steering, independently controlled hydraulic outriggers and a 70 foot telescoping boom. The ATEC supports construction, maintenance bridging and resupply activities. The SLEP AAO for ATEC is 185 systems.

The Hydraulic Excavator (HYEX) Type I, II and III is a commercial item of construction equipment with minor military modifications. It is a diesel-driven, self-propelled, track mounted, hydraulically controlled system equipped with a hydraulic quick disconnect coupler for use with a wide variety of attachments. The SLEP AAO for HYEX Type I is 189 systems.

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2017 Army		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 50: Construction Equipment		<b>P-1 Line Item Number / Title:</b> M05500 / Const Equip ESP

<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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<b>Line Item MDAP/MAIS Code:</b> N/A	<b>Item MDAP/MAIS Code(s):</b> N/A
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The Scraper (613C) is a non-sectionalized/sectionalized scraper used by Engineer Support Companies for earthmoving maintenance and construction of roads and airfields. The sectionalised scraper can be sectionalized into two sections for transport by helicopter. The SLEP AAO for Scraper (613C) is 210 systems.

The 7.5T Crane is used primarily in light caro handling units where mobility is required. It is capable of safe operation in explosive environments at Ammunition and Petroleum, Oil, and Lubricant supply points and can be used by ordnance companies, petroleum platoons and maintenance battalions. The SLEP AAO for 7.5T Crane SLEP is 296 systems.

The Engineer Mission Module (EMM), Water Distributor is one of four Engineer Mission Modules which are demountable, systems capable of repeated transport, operation and use with Load Handling systems (LHS) type trucks and associated trailers. The four EMMs are theL EMM-Dump Body (DB), EMM-Concrete Module (CM), EMM-Bituminous Doistributor (BD) and EMM-Water Distributor (WD). The SLEP AAO for EMM is 302 systems.

The Asphalt Mixing Plant (AMP) is a portable drum type, electric motor driven facility, capable of self erection (major components), and satisfactory operation without requiring permanent type footings. It consists of major units, components and accessories as required to assemble a complete plant capable of producing 150 tons per hour of graded asphalt paving mix. These units are trailer mounted and can be interconnected mechanically and electrically, and operated to rated capacity. The SLEP AAO for AMP is 2 systems.

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	Quantity	17	43	62	-	62	58	77	75	42
	Total Obligation Authority	6.019	4.753	6.499	-	6.499	11.479	13.366	13.012	6.691
ANG	Quantity	17	84	28	-	28	62	69	63	51
	Total Obligation Authority	6.019	9.702	7.890	-	7.890	12.587	12.289	11.202	7.593
AR	Quantity	12	47	35	-	35	56	76	69	53
	Total Obligation Authority	3.895	5.185	12.323	-	12.323	11.516	13.535	12.268	7.770
<b>Total:</b>	<b>Quantity</b>	<b>46</b>	<b>174</b>	<b>125</b>	<b>-</b>	<b>125</b>	<b>176</b>	<b>222</b>	<b>207</b>	<b>146</b>
<b>Secondary Distribution</b>	<b>Total Obligation Authority</b>	<b>15.933</b>	<b>19.640</b>	<b>26.712</b>	<b>-</b>	<b>26.712</b>	<b>35.582</b>	<b>39.190</b>	<b>36.482</b>	<b>22.054</b>

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**Exhibit P-40, Budget Line Item Justification:** PB 2017 Army **Date:** February 2016

**Appropriation / Budget Activity / Budget Sub Activity:**  
 2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 50: Construction Equipment **P-1 Line Item Number / Title:**  
 M05500 / Const Equip ESP

**ID Code** (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** N/A

**Line Item MDAP/MAIS Code:** N/A **Item MDAP/MAIS Code(s):** N/A

Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	M05500 / Const Equip ESP	P-5a	A	129 / 350.400	46 / 15.933	174 / 19.640	125 / 26.712	- / -	125 / 26.712
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>			<b>129 / 350.400</b>	<b>46 / 15.933</b>	<b>174 / 19.640</b>	<b>125 / 26.712</b>	<b>- / -</b>	<b>125 / 26.712</b>

\*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

**Justification:**  
 FY 2017 Base procurement dollars in the amount of \$26.712 million provides refurbishment of approximately 125 vehicles consisting of the ATEC Crane, DEUCE, Vib Rollers I/III and II, 7.5 Ton Crane and Compaction Equipment. The Construction Equipment (CE) Service Life Extension Program (SLEP) is the engineer's lifeline to sustain the current force. The SLEP is critical to maintaining engineer unit's operational readiness standards by extending the life of many different CE vehicles by 10-15 years. It returns vehicles to the field with zero hours and zero miles with a manufacturer new vehicle warranty of 18 months. This program lowers the Army's operation and support costs normally associated with aged equipment. The SLEP is conducted at government and contractor facilities worldwide to include Germany, Italy, Korea, Kuwait and the USA.

This program is considered a Critical Dual Use (CDU) system enabling and supporting Defense Support to Civil Authorities (DSCA) operations.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.



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<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>											<b>Date:</b> February 2016				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 50						<b>P-1 Line Item Number / Title:</b> M05500 / Const Equip ESP					<b>Item Number / Title [DODIC]:</b> M05500 / Const Equip ESP				
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A						<b>MDAP/MAIS Code:</b>									
Resource Summary				Prior Years		FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total	
Procurement Quantity (Units in Each)				129		46		174		125		-		125	
Gross/Weapon System Cost (\$ in Millions)				350.400		15.933		19.640		26.712		-		26.712	
Less PY Advance Procurement (\$ in Millions)				-		-		-		-		-		-	
Net Procurement (P-1) (\$ in Millions)				350.400		15.933		19.640		26.712		-		26.712	
Plus CY Advance Procurement (\$ in Millions)				-		-		-		-		-		-	
<b>Total Obligation Authority (\$ in Millions)</b>				<b>350.400</b>		<b>15.933</b>		<b>19.640</b>		<b>26.712</b>		<b>-</b>		<b>26.712</b>	
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>															
Initial Spares (\$ in Millions)				-		-		-		-		-		-	
Gross/Weapon System Unit Cost (\$ in Thousands)				2,716.279		346.370		112.874		213.696		-		213.696	

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
Hardware -- DEUCE <sup>(†)</sup>	3,265.000	90	293.850	314.000	41	12.874	314.000	1	0.314	314.000	1	0.314	-	-	-	314.000	1	0.314
Hardware -- Compaction Equipment <sup>(†)</sup>	100.000	39	3.900	-	-	-	122.000	79	9.638	114.000	35	3.990	-	-	-	114.000	35	3.990
Hardware -- Vib Rollers I/II <sup>(†)</sup>	-	-	-	-	-	-	96.000	53	5.088	72.000	30	2.160	-	-	-	72.000	30	2.160
Hardware -- Vib Rollers II <sup>(†)</sup>	-	-	-	-	-	-	95.000	45	4.275	95.000	34	3.230	-	-	-	95.000	34	3.230
Hardware -- ATEC <sup>(†)</sup>	-	-	-	418.000	5	2.090	-	-	-	570.000	22	12.540	-	-	-	570.000	22	12.540
Hardware -- 7.5 Ton Crane <sup>(†)</sup>	-	-	-	-	-	-	-	-	-	1,000.000	3	3.000	-	-	-	1,000.000	3	3.000
Engineering Changes	-	-	10.664	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
System Engineering/ Program Management	-	-	24.986	-	-	0.819	-	-	0.246	-	-	0.758	-	-	-	-	-	0.758
Data	-	-	10.000	-	-	-	-	-	-	-	-	0.611	-	-	-	-	-	0.611
Fielding	-	-	7.000	-	-	0.150	-	-	0.079	-	-	0.109	-	-	-	-	-	0.109
<b>Subtotal: Recurring Cost</b>	<b>-</b>	<b>-</b>	<b>350.400</b>	<b>-</b>	<b>-</b>	<b>15.933</b>	<b>-</b>	<b>-</b>	<b>19.640</b>	<b>-</b>	<b>-</b>	<b>26.712</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>26.712</b>
<b>Subtotal: Flyaway Cost</b>	<b>-</b>	<b>-</b>	<b>350.400</b>	<b>-</b>	<b>-</b>	<b>15.933</b>	<b>-</b>	<b>-</b>	<b>19.640</b>	<b>-</b>	<b>-</b>	<b>26.712</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>26.712</b>
<b>Gross/Weapon System Cost</b>	<b>2,716.279</b>	<b>129</b>	<b>350.400</b>	<b>346.370</b>	<b>46</b>	<b>15.933</b>	<b>112.874</b>	<b>174</b>	<b>19.640</b>	<b>213.696</b>	<b>125</b>	<b>26.712</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>213.696</b>	<b>125</b>	<b>26.712</b>

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**Exhibit P-5, Cost Analysis: PB 2017 Army** **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 50	<b>P-1 Line Item Number / Title:</b> M05500 / Const Equip ESP	<b>Item Number / Title [DODIC]:</b> M05500 / Const Equip ESP
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**ID Code** (A=Service Ready, B=Not Service Ready) : A **MDAP/MAIS Code:**

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	17	43	62	-	62
	Total Obligation Authority	6.019	4.753	6.499	-	6.499
ANG	Quantity	17	84	28	-	28
	Total Obligation Authority	6.019	9.702	7.890	-	7.890
AR	Quantity	12	47	35	-	35
	Total Obligation Authority	3.895	5.185	12.323	-	12.323
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	<b>46</b>	<b>174</b>	<b>125</b>	<b>-</b>	<b>125</b>
	<b>Total Obligation Authority</b>	<b>15.933</b>	<b>19.640</b>	<b>26.712</b>	<b>-</b>	<b>26.712</b>

(t) indicates the presence of a P-5a

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**Exhibit P-5a, Procurement History and Planning: PB 2017 Army** **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 50	<b>P-1 Line Item Number / Title:</b> M05500 / Const Equip ESP	<b>Item Number / Title [DODIC]:</b> M05500 / Const Equip ESP
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Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
Hardware -- DEUCE		2015	Caterpillar / Peoria	SS / FFP	WARREN, MI	Jan 2016	Jul 2016	41	314.000			
Hardware -- DEUCE		2016	Caterpillar / Peoria	SS / FP	WARREN, MI	Jan 2016	Jan 2017	1	314.000			
Hardware -- DEUCE		2017	Caterpillar / Peoria	SS / FFP	WARREN, MI	Jan 2017	Jul 2017	1	314.000			
Hardware -- Compaction Equipment		2016	Caterpillar / Peoria	SS / FFP	WARREN, MI	Jan 2016	Jul 2016	79	122.000			
Hardware -- Compaction Equipment		2017	Caterpillar / Peoria	SS / FFP	WARREN, MI	Jan 2017	Jul 2017	35	114.000			
Hardware -- Vib Rollers I/III		2016	Caterpillar / Peoria	SS / FFP	WARREN, MI	Jan 2016	Jul 2016	53	96.000			
Hardware -- Vib Rollers I/III		2017	Caterpillar / Peoria	SS / FFP	WARREN, MI	Jan 2017	Jul 2017	30	72.000			
Hardware -- Vib Rollers II		2016	Caterpillar / Peoria	SS / FFP	WARREN, MI	Jan 2016	Jul 2016	45	95.000			
Hardware -- Vib Rollers II		2017	Caterpillar / Peoria	SS / FFP	WARREN, MI	Jan 2017	Jul 2017	34	95.000			
Hardware -- ATEC		2015	Grove / PA	SS / FFP	WARREN, MI	Jan 2015	Jul 2016	5	418.000			
Hardware -- ATEC		2016	Grove / PA	SS / FFP	WARREN, MI	Jan 2016	Jul 2016	-	-			
Hardware -- ATEC		2017	Grove / PA	SS / FFP	WARREN, MI	Jan 2017	Jul 2017	22	570.000			
Hardware -- 7.5 Ton Crane		2017	TBD / TBD	SS / FFP	WARREN, MI	Jan 2017	Jul 2017	3	1,000.000			

**Remarks:**  
This is a Commercial-Off-the-Shelf (COTS) Program.

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**Exhibit P-40, Budget Line Item Justification:** PB 2017 Army **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 50: Construction Equipment	<b>P-1 Line Item Number / Title:</b> ML5350 / Items Less Than \$5.0M (Const Equip)
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	61	-	28	23	-	23	41	30	4	67	Continuing	Continuing
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	125.598	8.099	5.087	6.649	0.096	6.745	6.899	7.546	4.957	11.895	Continuing	Continuing
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	125.598	8.099	5.087	6.649	0.096	6.745	6.899	7.546	4.957	11.895	Continuing	Continuing
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>125.598</b>	<b>8.099</b>	<b>5.087</b>	<b>6.649</b>	<b>0.096</b>	<b>6.745</b>	<b>6.899</b>	<b>7.546</b>	<b>4.957</b>	<b>11.895</b>	<b>Continuing</b>	<b>Continuing</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost ( <i>\$ in Thousands</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Thousands</i> )	2,058.984	-	181.679	289.087	-	293.261	168.268	251.533	1,239.250	177.537	Continuing	Continuing

**Description:**

This program covers various types of Construction Equipment (CE) where the acquisition cost for each line item is below \$5.0 million. These programs provide the enhanced capabilities to the current force making them able to execute their expeditionary mission.

1. Route Remediation is a system of systems that provide engineer units the capability to quickly repair damaged or improve worn routes throughout unit assigned areas of responsibility. This system consists of:

--The Portable Asphalt Patcher: is a highly mobile, self-contained, spray injection asphalt patcher built on an M1077 flat rack. It mixes aggregate with asphalt emulsion and dispenses the mixture into a repair area for a patch that is traffic ready within 20 minutes. The Army Acquisition Objective (AAO) is 7 systems.

--The Self Propelled Concrete Saw (SPCS) is fully operational and controlled by one person. The SPCS fills capability gaps in the ability of engineer teams to effectively conduct rapid, expedient, route repair in support of assured mobility. The Army Acquisition Objective (AAO) is 46 systems.

--The Portable Concrete Mixer (PCM) is a towable, fully functional, and independently powered volumetric concrete mixer. It provides continuous operation with a minimum concrete production capacity of 2 cubic yards and has a 250 gallon minimum on-board pressurized water system. The Army Acquisition Objective (AAO) is 269 systems.

--The Machine Powered Mowing System (MPMS) is a commercial front mounted boom attachment for the 966H, Wheeled Loader, LIN: L15041. The MPMS is a telescoping, high powered mowing attachment used to rapidly remove ground cover, foliage, grass, weeds, and underbrush. The MPMS interoperable with the armored and non-armored with polycarbonate windowed variants of the 966H Loader; is transported via M916 and M870 while attached to the machine. Each system will be fielded with the following three attachments: one 60" mower head attachment, one 4 blade saw, and one ditching attachment. The Army Acquisition Objective (AAO) is 67 systems.

2. The Water Well Drilling Rig (WWDR) is a four piece system consisting of a self propelled drilling rig, support/tender truck, a mud trailer and an air compressor trailer. The system will be used to produce water where surface or commercial sources do not exist. The drilling rig is a hydraulic, top-head driven unit with a telescoping mast capable of employing a standard 20 foot 8 inch drill steel string to a depth of 2000 feet. The rig will carry the initial 500 feet of drill steel. The support/tender truck will have a 2500 gallon water tank, an auxiliary 500 gallon fuel tank, a crane, and the capacity to carry 1500 feet in additional drill steel. The mud trailer will contain a mixing/cleaning system. The air compressor trailer will be utilized in supporting role in drilling and retrieving drill steel based upon geographical situations. The Army Acquisition Objective (AAO) is 8 systems.

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**Exhibit P-40, Budget Line Item Justification:** PB 2017 Army **Date:** February 2016

**Appropriation / Budget Activity / Budget Sub Activity:**  
 2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 50: Construction Equipment

**P-1 Line Item Number / Title:**  
 ML5350 / Items Less Than \$5.0M (Const Equip)

**ID Code** (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** N/A

**Line Item MDAP/MAIS Code:** N/A **Item MDAP/MAIS Code(s):** N/A

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	Quantity	-	14	14	-	14	-	-	-	13
	Total Obligation Authority	8.099	1.629	2.983	0.096	3.079	-	-	-	2.225
ANG	Quantity	-	7	6	-	6	21	15	2	27
	Total Obligation Authority	-	1.729	2.435	-	2.435	3.497	3.739	2.623	4.835
AR	Quantity	-	7	3	-	3	20	15	2	27
	Total Obligation Authority	-	1.729	1.231	-	1.231	3.402	3.807	2.334	4.835
<b>Total:</b>	<b>Quantity</b>	-	<b>28</b>	<b>23</b>	-	<b>23</b>	<b>41</b>	<b>30</b>	<b>4</b>	<b>67</b>
<b>Secondary Distribution</b>	<b>Total Obligation Authority</b>	<b>8.099</b>	<b>5.087</b>	<b>6.649</b>	<b>0.096</b>	<b>6.745</b>	<b>6.899</b>	<b>7.546</b>	<b>4.957</b>	<b>11.895</b>

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**Exhibit P-40, Budget Line Item Justification:** PB 2017 Army **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 50: Construction Equipment	<b>P-1 Line Item Number / Title:</b> ML5350 / Items Less Than \$5.0M (Const Equip)
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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<b>Line Item MDAP/MAIS Code:</b> N/A	<b>Item MDAP/MAIS Code(s):</b> N/A
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Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	ML5350 / Items Less Than \$5.0M (Const Equip)	P-5a	A	61 / 125.598	- / 8.099	28 / 5.087	23 / 6.649	- / 0.096	23 / 6.745
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>			<b>61 / 125.598</b>	<b>- / 8.099</b>	<b>28 / 5.087</b>	<b>23 / 6.649</b>	<b>- / 0.096</b>	<b>23 / 6.745</b>

\*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

**Justification:**  
 FY 2017 Base procurement dollars in the amount of \$6.649 million and the FY 2017 OCO procurement dollars in the amount of \$96.000 thousand support the procurement, fielding, and training of 23 Route Remediation systems. This equipment will allow Engineer Construction units to meet Operational Tempo (OPTEMPO) and Stability Reconstruction Operation (S&RO) requirements. Funding supports a balanced investment strategy for the Army's approved force structure and Army Force Generation (ARFORGEN) requirements. Funding activities will also include Engineering Change Proposals (ECPs), Technical Manuals, Support Equipment, Fielding and Program Management Support costs.

The FY 2017 funding request was reduced for \$0.219 million to account for the availability of prior year execution balances.

The FY17 OCO includes \$0.096 million to support the COCOM requirement for unit equipment sets to deter potential adversaries and support the European Reassurance Initiaves. This funding will be used to field Construction Equipment vehicles that support the European Reassurance Initiatives.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

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<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 50	<b>P-1 Line Item Number / Title:</b> ML5350 / Items Less Than \$5.0M (Const Equip)	<b>Item Number / Title [DODIC]:</b> ML5350 / Items Less Than \$5.0M (Const Equip)

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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Resource Summary		Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)		61	-	28	23	-	23
Gross/Weapon System Cost (\$ in Millions)		125.598	8.099	5.087	6.649	0.096	6.745
Less PY Advance Procurement (\$ in Millions)		-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)		125.598	8.099	5.087	6.649	0.096	6.745
Plus CY Advance Procurement (\$ in Millions)		-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>		<b>125.598</b>	<b>8.099</b>	<b>5.087</b>	<b>6.649</b>	<b>0.096</b>	<b>6.745</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares (\$ in Millions)	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	2,058.984	-	181.679	289.087	-	293.261	

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
Paving Machine, Bituminous Material <sup>(†)</sup>	1,361.000	5	6.805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TCMMD <sup>(†)</sup>	27.000	6	0.162	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Well Drilling <sup>(†)</sup>	3,500.000	4	14.000	-	-	3.122	-	-	-	3,823.000	1	3.823	-	-	-	3,823.000	1	3.823
Machine Powered Mowing System <sup>(†)</sup>	200.000	16	3.200	-	-	0.395	-	-	-	-	-	-	-	-	-	-	-	-
Portable Concrete Mixer <sup>(†)</sup>	128.000	30	3.840	-	-	-	126.000	28	3.528	-	-	-	-	-	-	-	-	-
Self Propelled Concrete Saw <sup>(†)</sup>	-	-	-	-	-	-	-	-	-	32.000	17	0.544	32.000	3	0.096	32.000	20	0.640
Portable Asphalt Patcher <sup>(†)</sup>	-	-	-	-	-	-	-	-	-	134.000	5	0.670	-	-	-	134.000	5	0.670
Engineering Change Proposals	-	-	-	-	-	-	-	-	-	-	-	0.045	-	-	-	-	-	0.045
System Engineering/ Program Management	-	-	17.998	-	-	1.738	-	-	0.700	-	-	1.030	-	-	-	-	-	1.030
System Test and Evaluation, Production	-	-	20.433	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Data	-	-	19.160	-	-	2.339	-	-	-	-	-	0.257	-	-	-	-	-	0.257
Support Equipment	-	-	15.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 50	<b>P-1 Line Item Number / Title:</b> ML5350 / Items Less Than \$5.0M (Const Equip)	<b>Item Number / Title [DODIC]:</b> ML5350 / Items Less Than \$5.0M (Const Equip)
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A		<b>MDAP/MAIS Code:</b>

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Fielding	-	-	25.000	-	-	0.505	-	-	0.859	-	-	0.280	-	-	-	-	-	0.280
<i>Subtotal: Recurring Cost</i>	-	-	125.598	-	-	8.099	-	-	5.087	-	-	6.649	-	-	0.096	-	-	6.745
<i>Subtotal: Flyaway Cost</i>	-	-	125.598	-	-	8.099	-	-	5.087	-	-	6.649	-	-	0.096	-	-	6.745
<b>Gross/Weapon System Cost</b>	<b>2,058.984</b>	<b>61</b>	<b>125.598</b>	-	-	<b>8.099</b>	<b>181.679</b>	<b>28</b>	<b>5.087</b>	<b>289.087</b>	<b>23</b>	<b>6.649</b>	-	-	<b>0.096</b>	<b>293.261</b>	<b>23</b>	<b>6.745</b>

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	-	14	14	-	14
	Total Obligation Authority	8.099	1.629	2.983	0.096	3.079
ANG	Quantity	-	7	6	-	6
	Total Obligation Authority	-	1.729	2.435	-	2.435
AR	Quantity	-	7	3	-	3
	Total Obligation Authority	-	1.729	1.231	-	1.231
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	<b>-</b>	<b>28</b>	<b>23</b>	<b>-</b>	<b>23</b>
	<b>Total Obligation Authority</b>	<b>8.099</b>	<b>5.087</b>	<b>6.649</b>	<b>0.096</b>	<b>6.745</b>

(t) indicates the presence of a P-5a



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<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2017 Army							<b>Date:</b> February 2016					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 50			<b>P-1 Line Item Number / Title:</b> ML5350 / Items Less Than \$5.0M (Const Equip)				<b>Item Number / Title [DODIC]:</b> ML5350 / Items Less Than \$5.0M (Const Equip)					

Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$ K)	Specs Avail Now?	Date Revision Available	RFP Issue Date
Paving Machine, Bituminous Material		2015	Leeboy / Lincolton, NC	C / FFP	WARREN, MI	Jan 2015	May 2015	-	-			
TCMMD		2015	Troxler Electronic Labs / Research Triangle Park, NC	C / FFP	WARREN, MI	Jan 2015	Jun 2015	-	-			
Well Drilling		2015	Laibe Corporation / Indianapolis, IN	SS / FFP	WARREN, MI	Jun 2015	Sep 2015	-	-			
Well Drilling		2017	TBD / TBD	SS / FFP	WARREN, MI	Dec 2016	Mar 2017	1	3,823.000			
Machine Powered Mowing System		2017	Caterpillar / Peoria, IL	C / FFP	WARREN, MI	May 2017	Sep 2017	-	-			
Portable Concrete Mixer		2015	Brothers Body and Equipment / Galion, OH	C / FFP	WARREN, MI	Dec 2014	Aug 2016	-	-	N		
Portable Concrete Mixer		2016	Brothers Body and Equipment / Galion, OH	C / FFP	WARREN, MI	Aug 2016	Aug 2017	28	126.000	N		
Self Propelled Concrete Saw		2017	TBD / TBD	C / FFP	WARREN, MI	Jan 2017	Jul 2017	20	32.000			
Portable Asphalt Patcher		2017	TBD / TBD	C / FFP	WARREN, MI	Apr 2017	Sep 2017	5	134.000			

**Remarks:**  
These items are being procured as Commercial-off-the-Shelf (COTS) systems

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**Exhibit P-40, Budget Line Item Justification:** PB 2017 Army **Date:** February 2016

**Appropriation / Budget Activity / Budget Sub Activity:**  
2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 55: Rail  
Float Containerization Equipment

**P-1 Line Item Number / Title:**  
M11101 / Army Watercraft Esp

**ID Code** (A=Service Ready, B=Not Service Ready): **Program Elements for Code B Items:** N/A **Other Related Program Elements:** N/A

**Line Item MDAP/MAIS Code:** N/A **Item MDAP/MAIS Code(s):** N/A

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	2	2	-	2	4	4	4	4	Continuing	Continuing
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	3.509	39.772	21.860	-	21.860	40.220	40.465	41.237	42.020	Continuing	Continuing
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	3.509	39.772	21.860	-	21.860	40.220	40.465	41.237	42.020	Continuing	Continuing
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	<b>3.509</b>	<b>39.772</b>	<b>21.860</b>	-	<b>21.860</b>	<b>40.220</b>	<b>40.465</b>	<b>41.237</b>	<b>42.020</b>	<b>Continuing</b>	<b>Continuing</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost ( <i>\$ in Thousands</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Thousands</i> )	-	-	19,886.000	10,930.000	-	10,930.000	10,055.000	10,116.250	10,309.250	10,505.000	Continuing	Continuing

**Description:**

The Army Watercraft Extended Service Program (ESP) budget line funds the Service Life Extension Programs (SLEP) across the Army Watercraft Systems portfolio. In FY 2015 - FY 2025 specifically, the Army Watercraft ESP budget line will fund across the Army Landing Craft Utility 2000 (LCU-2000) inventory, a globally dispersed fleet of 34 vessels, and will extend the current Economic Useful Life (EUL) of this platform by 10 years that will bridge the gap to procurement of a replacement vessel. The LCU-2000 was fielded from 1990-1993 and was designed and built specifically to the objective of a 25 year EUL. While no new capability is being added, some capabilities will be improved through new technology insertion, such as Engine Repower. The LCU-2000 Technical Manuals and provisioning data effort covers the critical repower requirement and all affected subsystems, as well as a total of 12 Engineering Change Proposals (ECPs), requiring a vast development/re-write of Technical Manuals. The Army Watercraft ESP budget line will also support the start of SLEP for the Modular Causeway System (MCS), specifically the Modular Warping Tug (MWT), one of four end items of the MCS. For the MWT, the focus is repower as well as new electrical system/components.

The LCU-2000 provides intra-theater movement of combat vehicles, equipment, and sustainment cargo, to include containerized, break-bulk, and roll-on roll-off (RO/RO) cargo, to improved and/or degraded ports, bare and austere beaches, and inland water terminals. The vessel is ideally suited for the discharge and back load of sea lift; the shallow draft, bow ramp, and associated systems providing for beaching and extraction. The vessel supports Joint Logistics Over the Shore (JLOTS), seaport opening, and delivers combat-configured elements or sustainment cargo during all phases of the campaign.

Army Watercraft Systems are categorized under Landing Craft, Towing and Terminal Operations, Ship-to-Shore Enablers and Watercraft Operations Support. Landing Craft consist of 8 Logistic Support Vessels (LSV), 34 Landing Craft Utility 2000 (LCU-2000), and 30 Landing Craft Mechanized 8 (LCM-8) MOD 1. Towing and Terminal Operations consist of 6 Large Tug 800 (LT-800), 16 Small Tug 900 (ST-900), and 4 Barge Derrick Crane 115-ton (BD-115). Ship-to-Shore Enablers consist of 3 Modular Causeway Systems (MCS) [each MCS includes 2 Roll-On/Roll-Off Discharge Facilities (RRDF), 5 Modular Warping Tugs (MWT), 1 Causeway Ferry (CF), 1 Floating Causeway (FC)]. Landing Craft discharge combat equipment or troops to austere beaches, undeveloped coastlines and operate in a non-permissive environment. Towing and Terminal Operations and Ship-to-Shore Enablers support ocean and port/harbor towing/salvage operations. Both are critical in denied/degraded ports, JLOTS operations, and operations throughout the littorals. Watercraft Operations Support includes 6 LCM-8 MOD 2.

First fielded in 1988, the Logistics Support Vessel (LSV) is globally self-deployable, and provides worldwide and intra-theater movement and line haul of large quantities of combat vehicles, equipment, and sustainment cargo, to include containerized, break-bulk, and RO/RO cargo, to improved and/or degraded ports, bare and austere beaches, and inland water terminals. With 10,500 square feet of cargo space and a payload capacity of 2,000 tons, the LSV can carry 24 combat loaded M1A1 Main Battle Tanks or the equivalent. The vessel supports JLOTS, seaport opening and coastal/inland waterway distribution, anti-access theater opening, and can deliver combat-configured elements or sustainment cargo during all phases of the campaign.

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**Exhibit P-40, Budget Line Item Justification:** PB 2017 Army **Date:** February 2016

**Appropriation / Budget Activity / Budget Sub Activity:**  
2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 55: Rail  
Float Containerization Equipment

**P-1 Line Item Number / Title:**  
M11101 / Army Watercraft Esp

**ID Code** (A=Service Ready, B=Not Service Ready): **Program Elements for Code B Items:** N/A **Other Related Program Elements:** N/A

**Line Item MDAP/MAIS Code:** N/A **Item MDAP/MAIS Code(s):** N/A

First fielded in 1990, the Landing Craft Utility 2000 (LCU-2000) provides intra-theater movement of combat vehicles, equipment, and sustainment cargo, to include containerized, break-bulk, and RO/RO cargo to improved and/or degraded ports, bare and austere beaches, and inland water terminals. The vessel is ideally suited for the discharge and back load of sea lift, the shallow draft, bow ramp, and associated systems providing capability for beaching and beach extraction. The vessel supports JLOTS, seaport opening and coastal/inland waterway distribution, anti-access theater opening, and can deliver combat-configured elements or sustainment during all phases of the campaign.

First fielded in 1967, the Landing Craft Mechanized 8 (LCM-8) transports combat equipped personnel and equipment, and sustainment cargo, from ship to shore and/or within coastal areas including inland waterways. The vessel is also capable of providing medical evacuations, command and control (C2) afloat and light harbor salvage support. The size of the vessel facilitates operation within restricted areas, access to shallow areas to include bare beaches, and extensively throughout inland waterways.

First fielded in 1994, the Large Tug 800 (LT-800) performs transoceanic and coastal towing operations, docking and undocking of large ships, salvage and recovery operations for disabled or damaged watercraft at sea and along the coastal main supply routes, clearance of degraded, damaged, and denied access waterways and port facilities, and provides both ship to ship and ship to shore firefighting capability to include in support of ammunition upload/download operations.

First fielded in 1998, the Small Tug 900 (ST-900) provides movement of cargo barges and lighterage of various types within a harbor, port, or Logistics Over the Shore (LOTS) or JLOTS operations. It also assists larger tugs with utility work such as docking/undocking of ships of all sizes, movement of floating cranes, and line-handling duties.

First fielded in 1999, the Barge Derrick, 115-ton (BD-115) provides heavy lift to load and discharge cargo that exceeds the lift capacity of ship's gear in theater-wide missions/operations. The BD-115 is capable of lifting the M1A1 main battle tank from the centerline of a non-self-sustaining ship, and is world-wide deployable via the LT-800. The BD-115 also provides heavy clearance and salvage capabilities within degraded, damaged, and denied access waterways and port facilities.

First fielded in 1996, the Modular Causeway System (MCS) provides floating platforms for the loading, discharge, and transport of combat vehicles, equipment, and sustainment cargo to and from improved or austere ports, inland water terminals, and during bare beach operations. A modular and highly transportable system, the MCS consists of both powered and non-powered systems to include the Roll-on Roll-off Discharge Facility (RRDF), Causeway Ferry (CF), Floating Causeway (FC), and Warring Tug (WT), and serves as a key enabler for both LOTS and JLOTS operations.

Comments: In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	Quantity	-	2	1	-	1	4	2	2	3
	Total Obligation Authority	3.509	19.886	10.930	-	10.930	40.220	20.052	20.436	31.515
AR	Quantity	-	-	1	-	1	-	2	2	1
	Total Obligation Authority	-	19.886	10.930	-	10.930	-	20.413	20.801	10.505
<b>Total:</b> Secondary Distribution	<b>Quantity</b>	-	<b>2</b>	<b>2</b>	-	<b>2</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>
	<b>Total Obligation Authority</b>	<b>3.509</b>	<b>39.772</b>	<b>21.860</b>	-	<b>21.860</b>	<b>40.220</b>	<b>40.465</b>	<b>41.237</b>	<b>42.020</b>

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**Exhibit P-40, Budget Line Item Justification:** PB 2017 Army **Date:** February 2016

**Appropriation / Budget Activity / Budget Sub Activity:** 2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 55: Rail Float Containerization Equipment **P-1 Line Item Number / Title:** M11101 / Army Watercraft Esp

**ID Code** (A=Service Ready, B=Not Service Ready): **Program Elements for Code B Items:** N/A **Other Related Program Elements:** N/A

**Line Item MDAP/MAIS Code:** N/A **Item MDAP/MAIS Code(s):** N/A

Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	M11101 / Army Watercraft Esp	P-5a, P-21		- / -	- / 3.509	2 / 39.772	2 / 21.860	- / -	2 / 21.860
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>			- / -	- / 3.509	2 / 39.772	2 / 21.860	- / -	2 / 21.860

\*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

**Justification:**  
 FY 2017 Base procurement dollars in the amount of \$21.860 million supports the procurement of 2 additional LCU-2000 SLEP vessels under the Phase I SLEP contract, New Equipment Training (NET), Technical Manual support, and Program Management/Matrix Support. Program Management/Matrix Support includes Program Management and System Engineering oversight required to manage the program and provide contractor oversight. Salaries, Benefits, Travel, Personnel Training and other government costs are included for retaining a professional acquisition workforce. The LCU-2000 SLEP will be accomplished in conjunction with the vessels' statutorily required On-Condition Cyclic Maintenance (OCCM, which is funded with OMA dollars). The SLEP modification package will make improvements to all engines and power generators and also includes 12 select ECPs through technology insertion, specifically targeting improvements in energy efficiency, force protection, habitability and miscellaneous upgrades; which are not covered under the Modification of In-Service Equipment appropriation.

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<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 55	<b>P-1 Line Item Number / Title:</b> M11101 / Army Watercraft Esp	<b>Item Number / Title [DODIC]:</b> M11101 / Army Watercraft Esp

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	-	-	2	2	-	2
Gross/Weapon System Cost (\$ in Millions)	-	3.509	39.772	21.860	-	21.860
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	3.509	39.772	21.860	-	21.860
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	-	<b>3.509</b>	<b>39.772</b>	<b>21.860</b>	-	<b>21.860</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	19,886.000	10,930.000	-	10,930.000

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
SLEP Vessels (LCU-2000) <sup>(†)</sup>	-	-	-	-	-	-	12,875.500	2	25.751	9,362.500	2	18.725	-	-	-	9,362.500	2	18.725
New Equipment Training (NET)	-	-	-	-	-	-	-	-	0.515	-	-	0.530	-	-	-	-	-	0.530
Technical Manuals	-	-	-	-	-	-	-	-	10.130	-	-	0.320	-	-	-	-	-	0.320
Program Management/Matrix Support	-	-	-	-	-	3.509	-	-	2.176	-	-	2.285	-	-	-	-	-	2.285
Training Assets	-	-	-	-	-	-	-	-	1.200	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	3.509	-	-	39.772	-	-	21.860	-	-	-	-	-	21.860
<i>Subtotal: Flyaway Cost</i>	-	-	-	-	-	3.509	-	-	39.772	-	-	21.860	-	-	-	-	-	21.860
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	3.509	19,886.000	2	39.772	10,930.000	2	21.860	-	-	-	10,930.000	2	21.860

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	-	2	1	-	1
	Total Obligation Authority	3.509	19.886	10.930	-	10.930
AR	Quantity	-	-	1	-	1
	Total Obligation Authority	-	19.886	10.930	-	10.930
<b>Total:</b>	<b>Quantity</b>	-	2	2	-	2

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<b>Exhibit P-5, Cost Analysis:</b> PB 2017 Army			<b>Date:</b> February 2016			
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 55		<b>P-1 Line Item Number / Title:</b> M11101 / Army Watercraft Esp		<b>Item Number / Title [DODIC]:</b> M11101 / Army Watercraft Esp		
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :			<b>MDAP/MAIS Code:</b>			
<b>Secondary Distribution</b>		<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>
<b>Secondary Distribution</b>	<b>Total Obligation Authority</b>	3.509	39.772	21.860	-	21.860

(t) indicates the presence of a P-5a

**UNCLASSIFIED**

**Exhibit P-5a, Procurement History and Planning: PB 2017 Army** **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 55	<b>P-1 Line Item Number / Title:</b> M11101 / Army Watercraft Esp	<b>Item Number / Title [DODIC]:</b> M11101 / Army Watercraft Esp
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Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
SLEP Vessels (LCU-2000) <sup>(†)</sup>		2016	TBD 1 / TBD	C / FFP	WARREN, MI	Jun 2016	Feb 2017	2	12,875.500	Y		Sep 2015
SLEP Vessels (LCU-2000) <sup>(†)</sup>		2017	TBD 1 / TBD	C / FFP	WARREN, MI	Apr 2017	Sep 2017	2	9,362.500	Y		

<sup>(†)</sup> indicates the presence of a P-21

**Remarks:**

The Landing Craft Utility 2000 (LCU-2000) Service Life Extension Program (SLEP) is planned in two phases. The first phase (Phase I) will consist of up to 2 Low Rate Initial Production (LRIP) vessels, and 2 option vessels. This LRIP during FY 2016-2018 will be used for SLEP, Engineering Change Proposal (ECP), Technical Data Package (TDP), New Equipment Training (NET) development, Test, Evaluation, Technical Manual (TM) Validation, and TM Verification. The second phase (Phase II) will consist of Full Rate Production (FRP) of LCU-2000 vessels in FY 2018-2025. The SLEP activities will update Main Propulsion, Bow Thruster, and Ships Service and Emergency Diesel Generator engines; upgrade Force Protection Equipment (new gun mounts and ballistic protection), and upgrade engineering systems (e.g. Air Conditioning System). Lead times are based on previous SLEP contracts for other vessels.

### UNCLASSIFIED

**Exhibit P-21, Production Schedule: PB 2017 Army** **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 55	<b>P-1 Line Item Number / Title:</b> M11101 / Army Watercraft Esp	<b>Item Number / Title [DODIC]:</b> M11101 / Army Watercraft Esp
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2016													Fiscal Year 2017											BALANCE																		
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2015	BAL DUE AS OF 1 OCT	Calendar Year 2016													Calendar Year 2017																												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P																	
SLEP Vessels (LCU-2000)																																																
1		2016	ARMY	2	-	2											A	-												1	-		-		1													
1		2017	ARMY	2	-	2																										A	-		-			-										1

O C C O	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P
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**Exhibit P-21, Production Schedule:** PB 2017 Army **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 55	<b>P-1 Line Item Number / Title:</b> M11101 / Army Watercraft Esp	<b>Item Number / Title [DODIC]:</b> M11101 / Army Watercraft Esp
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2018														Fiscal Year 2019														BALANCE	
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2017	BAL DUE AS OF 1 OCT	Calendar Year 2018														Calendar Year 2019														
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					
SLEP Vessels (LCU-2000)																																			
	1	2016	ARMY	2	2	-																								-					
	1	2017	ARMY	2	1	1	-	-	1																					-					
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					

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<b>Exhibit P-21, Production Schedule:</b> PB 2017 Army								<b>Date:</b> February 2016				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 55				<b>P-1 Line Item Number / Title:</b> M11101 / Army Watercraft Esp				<b>Item Number / Title [DODIC]:</b> M11101 / Army Watercraft Esp				
MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2017	1-8-5 For 2017	MAX For 2017	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	TBD 1 - TBD	1	1	1	-	9	8	17	-	7	5	12

"A" in the Delivery Schedule indicates the Contract Award Date.

**Note:** Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** PB 2017 Army **Date:** February 2016

**Appropriation / Budget Activity / Budget Sub Activity:**  
2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 55: Rail  
Float Containerization Equipment

**P-1 Line Item Number / Title:**  
ML5355 / Items Less Than \$5.0M (Float/Rail)

**ID Code** (A=Service Ready, B=Not Service Ready): **Program Elements for Code B Items:** N/A **Other Related Program Elements:** N/A

**Line Item MDAP/MAIS Code:** N/A **Item MDAP/MAIS Code(s):** N/A

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	176.171	2.166	5.835	1.967	-	1.967	2.377	2.427	2.474	1.487	Continuing	Continuing
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	176.171	2.166	5.835	1.967	-	1.967	2.377	2.427	2.474	1.487	Continuing	Continuing
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>176.171</b>	<b>2.166</b>	<b>5.835</b>	<b>1.967</b>	-	<b>1.967</b>	<b>2.377</b>	<b>2.427</b>	<b>2.474</b>	<b>1.487</b>	<b>Continuing</b>	<b>Continuing</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost ( <i>\$ in Thousands</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Thousands</i> )	-	-	-	-	-	-	-	-	-	-	-	-

**Description:**

This budget line funds two separate programs. One program supports Float and the other program supports Rail.

The Float program funds hardware and material in support of Army Watercraft Systems. The principle capabilities of Army Watercraft Systems are 1) movement/maneuver and distribution of combat equipment and sustainment material; 2) access to degraded and/or austere ports; 3) seaport operations, to include docking/undocking, firefighting, towing and rescue; 4) ship to shore access to "no port" areas such as austere and remote, bare beaches; and 5) heavy lift in support of damaged seaport and/or vessel repair and salvage.

Army Watercraft Systems are categorized under Landing Craft, Towing and Terminal Operations, Ship-to-Shore Enablers and Watercraft Operations Support. Landing Craft consist of 8 Logistic Support Vessels (LSV), 34 Landing Craft Utility 2000 (LCU-2000), and 30 Landing Craft Mechanized 8 (LCM-8) MOD 1. Towing and Terminal Operations consist of 6 Large Tug 800 (LT-800), 16 Small Tug 900 (ST-900), and 4 Barge Derrick Crane 115-ton (BD-115). Ship-to-Shore Enablers consist of 3 Modular Causeway Systems (MCS) [each MCS includes 2 Roll-On/Roll-Off Discharge Facilities (RRDF), 5 Modular Warping Tugs (MWT), 1 Causeway Ferry (CF), 1 Floating Causeway (FC)]. Landing Craft discharge combat equipment or troops to austere beaches, undeveloped coastlines and operate in a non-permissive environment. Towing and Terminal Operations and Ship-to-Shore Enablers support ocean and port/harbor towing/salvage operations. Both are critical in denied/degraded ports, Joint Logistics Over-the-Shore (JLOTS) operations, and operations throughout the littorals. Watercraft Operations Support includes 6 LCM-8 MOD 2.

First fielded in 1988, the Logistics Support Vessel (LSV) is globally self-deployable, and provides worldwide and intra-theater movement and line haul of large quantities of combat vehicles, equipment, and sustainment cargo, to include containerized, break-bulk, and Roll-on Roll-off (RO/RO) cargo, to improved and/or degraded ports, bare and austere beaches, and inland water terminals. With 10,500 square feet of cargo space and a payload capacity of 2,000 tons, the LSV can carry 24 combat loaded M1A1 Main Battle Tanks or the equivalent. The vessel supports JLOTS, seaport opening and coastal/inland waterway distribution, anti-access theater opening, and can deliver combat-configured elements or sustainment cargo during all phases of the campaign.

First fielded in 1990, the Landing Craft Utility 2000 (LCU-2000) provides intra-theater movement of combat vehicles, equipment, and sustainment cargo, to include containerized, break-bulk, and RO/RO cargo to improved and/or degraded ports, bare and austere beaches, and inland water terminals. The vessel is ideally suited for the discharge and back load of sea lift, the shallow draft, bow ramp, and associated systems providing capability for beaching and beach extraction. The vessel supports JLOTS, seaport opening and coastal/inland waterway distribution, anti-access theater opening, and can deliver combat-configured elements or sustainment during all phases of the campaign.

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2017 Army		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 55: Rail Float Containerization Equipment		<b>P-1 Line Item Number / Title:</b> ML5355 / Items Less Than \$5.0M (Float/Rail)
<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
<b>Line Item MDAP/MAIS Code:</b> N/A	<b>Item MDAP/MAIS Code(s):</b> N/A	
<p>First fielded in 1967, the Landing Craft Mechanized 8 (LCM-8) transports combat equipped personnel and equipment, and sustainment cargo, from ship to shore and/or within coastal areas including inland waterways. The vessel is also capable of providing medical evacuations, command and control (C2) afloat and light harbor salvage support. The size of the vessel facilitates operation within restricted areas, access to shallow areas to include bare beaches, and extensively throughout inland waterways.</p> <p>First fielded in 1994, the Large Tug 800 (LT-800) performs transoceanic and coastal towing operations, docking and undocking of large ships, salvage and recovery operations for disabled or damaged watercraft at sea and along the coastal main supply routes, clearance of degraded, damaged, and denied access waterways and port facilities, and provides both ship to ship and ship to shore firefighting capability to include in support of ammunition upload/download operations.</p> <p>First fielded in 1998, the Small Tug 900 (ST-900) provides movement of cargo barges and lighterage of various types within a harbor, port, or Logistics Over the Shore (LOTS) or JLOTS operations. It also assists larger tugs with utility work such as docking/undocking of ships of all sizes, movement of floating cranes, and line-handling duties.</p> <p>First fielded in 1999, the Barge Derrick, 115-ton (BD-115) provides heavy lift to load and discharge cargo that exceeds the lift capacity of ship's gear in theater-wide missions/operations. The BD-115 is capable of lifting the M1A1 main battle tank from the centerline of a non-self-sustaining ship, and is world-wide deployable via the LT-800. The BD-115 also provides heavy clearance and salvage capabilities within degraded, damaged, and denied access waterways and port facilities.</p> <p>First fielded in 1996, the Modular Causeway System (MCS) provides floating platforms for the loading, discharge, and transport of combat vehicles, equipment, and sustainment cargo to and from improved or austere ports, inland water terminals, and during bare beach operations. A modular and highly transportable system, the MCS consists of both powered and non-powered systems to include the Roll-on Roll-off Discharge Facility (RRDF), Causeway Ferry (CF), Floating Causeway (FC), and Warring Tug (WT), and serves as a key enabler for both LOTS and JLOTS operations.</p> <p>Rescue Boats with outboard engines to meet Safety-of-Life at Sea (SOLAS) requirements for the Watercraft LSV, LCU-2000, LT-800 and MCS fleet, including cranes, cradles, and davit assemblies (support assemblies).</p> <p>For the Rail program, railroad equipment consists of locomotives, rolling stock, railway passenger cars, track maintenance equipment, etc., used to support Army ammunition plants, Army Materiel Command (AMC) depots, Installation Management Command (IMCOM), Forces Command (FORSCOM) and Training and Doctrine Command (TRADOC) installations in peacetime, training and mobilization missions. This Railway Equipment is procured for the replacement of logistically unsupportable assets where current items are in some cases already unserviceable and in other cases, either unsafe or not cleared for use under the Federal Railroad Administration (FRA).</p> <p>Locomotive procurement consists of commercial off-the-shelf GENSET switcher locomotives in direct support of the Army Rail Modernization Program. The program mandates systematic replacement of an aging fleet, that for the respective installations are becoming increasingly more costly to maintain. The GENSET Locomotives are industry proven, state of the art technology that will position the Army to meet current EPA air quality restrictions, and future fuel economy mandates.</p> <p>Comments: In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.</p>		

**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** PB 2017 Army **Date:** February 2016

**Appropriation / Budget Activity / Budget Sub Activity:** 2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 55: Rail Float Containerization Equipment  
**P-1 Line Item Number / Title:** ML5355 / Items Less Than \$5.0M (Float/Rail)

**ID Code** (A=Service Ready, B=Not Service Ready): **Program Elements for Code B Items:** N/A **Other Related Program Elements:** N/A

**Line Item MDAP/MAIS Code:** N/A **Item MDAP/MAIS Code(s):** N/A

Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	ML5355 / Items Less Than \$5.0M (Float/Rail)	P-5a, P-21		- / 176.171	- / 2.166	- / 5.835	- / 1.967	- / -	- / 1.967
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>			<b>- / 176.171</b>	<b>- / 2.166</b>	<b>- / 5.835</b>	<b>- / 1.967</b>	<b>- / -</b>	<b>- / 1.967</b>

\*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

**Justification:**  
 FY 2017 Base procurement dollars in the amount of \$1.967 million supports Army Watercraft Systems in regards to Program Management Support and funds necessary for modifications and logistically unsupportable assets where current items are in some cases already unserviceable. Program Management Support includes Program Management and System Engineering oversight required to manage the program and provide contractor oversight. Salaries, Benefits, Travel, Personnel Training and other government costs are included for retaining a professional acquisition workforce.

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<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 55	<b>P-1 Line Item Number / Title:</b> ML5355 / Items Less Than \$5.0M (Float/Rail)	<b>Item Number / Title [DODIC]:</b> ML5355 / Items Less Than \$5.0M (Float/Rail)

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	176.171	2.166	5.835	1.967	-	1.967
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	176.171	2.166	5.835	1.967	-	1.967
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	<b>176.171</b>	<b>2.166</b>	<b>5.835</b>	<b>1.967</b>	<b>-</b>	<b>1.967</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

<b>Cost Elements</b>	<b>Prior Years</b>			<b>FY 2015</b>			<b>FY 2016</b>			<b>FY 2017 Base</b>			<b>FY 2017 OCO</b>			<b>FY 2017 Total</b>		
	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>
<b>Flyaway Cost</b>																		
<b>Recurring Cost</b>																		
1. RAIL (DOT VOLPE PROCUREMENT)	-	-	0.300	-	-	-	-	-	0.300	-	-	-	-	-	-	-	-	-
2. RAIL (PROGRAM MANAGEMENT)	-	-	0.200	-	-	-	-	-	0.150	-	-	-	-	-	-	-	-	-
3. RAILWAY EQUIPMENT	-	-	-	-	-	-	-	-	0.950	-	-	-	-	-	-	-	-	-
4. RAILWAY SAFETY	-	-	0.223	-	-	-	-	-	0.700	-	-	-	-	-	-	-	-	-
5. NET	-	-	-	-	-	-	-	-	0.400	-	-	-	-	-	-	-	-	-
6. LOCOMOTIVE COMPUTER UPGRADES	-	-	-	-	-	-	-	-	0.650	-	-	-	-	-	-	-	-	-
7. LOCOMOTIVE MAINTENANCE SUPPORT	-	-	-	-	-	-	-	-	0.720	-	-	-	-	-	-	-	-	-
8. WATERCRAFT (PROGRAM MANAGEMENT SPT.)	-	-	1.248	-	-	0.338	-	-	0.370	-	-	0.318	-	-	-	-	-	0.318
9. WATERCRAFT SUP. EQUIP (RESCUE BOATS)	-	-	1.001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10. RESCUE BOAT ASSEMBLIES <sup>(†)</sup>	-	-	0.215	-	-	-	16.000	32	0.512	32.750	12	0.393	-	-	-	32.750	12	0.393

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<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 55	<b>P-1 Line Item Number / Title:</b> ML5355 / Items Less Than \$5.0M (Float/Rail)	<b>Item Number / Title [DODIC]:</b> ML5355 / Items Less Than \$5.0M (Float/Rail)
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :		<b>MDAP/MAIS Code:</b>

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
11. RESCUE BOAT DELIVERY	-	-	0.934	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12. FLEET HANDHELD RADIO STANDARDIZATION	0.629	950	0.598	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13. REPLACEMENT OF LOGISTIC ASSETS	-	-	171.452	-	-	1.828	-	-	1.083	-	-	1.256	-	-	-	-	-	1.256
<i>Subtotal: Recurring Cost</i>	-	-	176.171	-	-	2.166	-	-	5.835	-	-	1.967	-	-	-	-	-	1.967
<i>Subtotal: Flyaway Cost</i>	-	-	176.171	-	-	2.166	-	-	5.835	-	-	1.967	-	-	-	-	-	1.967
<b>Gross/Weapon System Cost</b>	-	-	176.171	-	-	2.166	-	-	5.835	-	-	1.967	-	-	-	-	-	1.967

(t) indicates the presence of a P-5a

**UNCLASSIFIED**

<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2017 Army							<b>Date:</b> February 2016				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 55			<b>P-1 Line Item Number / Title:</b> ML5355 / Items Less Than \$5.0M (Float/Rail)				<b>Item Number / Title [DODIC]:</b> ML5355 / Items Less Than \$5.0M (Float/Rail)				

Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
10. RESCUE BOAT ASSEMBLIES <sup>(†)</sup>		2016	TBD / TBD	C / FFP	NSWCPD, Philadelphia, PA	Mar 2016	Jun 2016	32	16.000	N		
10. RESCUE BOAT ASSEMBLIES <sup>(†)</sup>		2017	TBD / TBD	C / FFP	NSWCPD, Philadelphia, PA	Mar 2017	Jun 2017	12	32.750	N		

<sup>(†)</sup> indicates the presence of a P-21

**Remarks:**

The full Safety of Life at Sea (SOLAS) rescue boat requirement is for 56 rescue boats. 34 rescue boats for Landing Craft Utility 2000 (LCU-2000), 8 rescue boats for Logistics Support Vessel (LSV), 6 rescue boats for Large Tug 800 (LT-800), 6 rescue boats for Roll-On/Roll-Off Discharge Facilities (RRDF), and 1 for the schoolhouse located at Fort Eustis. The final rescue boat procurement was off the General Services Administration (GSA) schedule in 3rd Quarter FY 2014.



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<b>Exhibit P-21, Production Schedule:</b> PB 2017 Army															<b>Date:</b> February 2016									
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 55										<b>P-1 Line Item Number / Title:</b> ML5355 / Items Less Than \$5.0M (Float/Rail)										<b>Item Number / Title [DODIC]:</b> ML5355 / Items Less Than \$5.0M (Float/Rail)				

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2016												Fiscal Year 2017												BALANCE			
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2015	BAL DUE AS OF 1 OCT	Calendar Year 2016												Calendar Year 2017														
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P		
<b>10. RESCUE BOAT ASSEMBLIES</b>																																	
	1	2016	ARMY	32	-	32																									A - - - 8 - 4 - 10 - 10		-
	1	2017	ARMY	12	-	12																									A - - - 6 - 6		-
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

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<b>Exhibit P-21, Production Schedule:</b> PB 2017 Army		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 55		<b>P-1 Line Item Number / Title:</b> ML5355 / Items Less Than \$5.0M (Float/Rail)
		<b>Item Number / Title [DODIC]:</b> ML5355 / Items Less Than \$5.0M (Float/Rail)

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2017	1-8-5 For 2017	MAX For 2017	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	TBD - TBD	1	10	10	-	6	3	9	-	-	-	-

"A" in the Delivery Schedule indicates the Contract Award Date.

**Note:** Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification: PB 2017 Army** **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 60: Generators	<b>P-1 Line Item Number / Title:</b> MA9800 / Generators And Associated Equip
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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<b>Line Item MDAP/MAIS Code:</b> N/A	<b>Item MDAP/MAIS Code(s):</b> N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	2,735	3,959	6,397	2,844	1,620	4,464	3,560	7,263	7,404	7,457	Continuing	Continuing
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	1,833.844	117.850	166.356	113.266	31.761	145.027	134.532	143.249	131.191	132.384	Continuing	Continuing
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	1,833.844	117.850	166.356	113.266	31.761	145.027	134.532	143.249	131.191	132.384	Continuing	Continuing
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>1,833.844</b>	<b>117.850</b>	<b>166.356</b>	<b>113.266</b>	<b>31.761</b>	<b>145.027</b>	<b>134.532</b>	<b>143.249</b>	<b>131.191</b>	<b>132.384</b>	<b>Continuing</b>	<b>Continuing</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost ( <i>\$ in Thousands</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Thousands</i> )	670.510	29.768	26.005	39.826	19.606	32.488	37.790	19.723	17.719	17.753	Continuing	Continuing

**Description:**

The Tactical Electric Power Program (TEP) program replaces and modernizes the DOD generator inventory to meet the Army's requirements. The TEP program is structured around Small (2-3kW), Medium (5-60kW), Large (>100kW) stand-alone generators, multiple configurations of Power Units/Power Plants (PU/PP) and associated distribution equipment (Power Distribution Illumination System Electrical (PDISE). These programs collectively provide a new, modern family of generators and distribution systems satisfying critical user requirements and will:

1. Reduce Acquisition Costs and Operating and Sustainment (O&S) costs by 15-20%.
2. Reduce weight by 25% across generator population, thereby reducing the Logistics footprint and improving deployability.
3. Significantly improve Reliability, Availability and Maintainability, to include Mean Time Between Failure improvements of 100-300%.
4. Eliminate gasoline from the generator inventory, thus complying with DOD guidance regarding single fuel on the battlefield (diesel/JP8).
5. Reduce battlefield detectability by lowering noise levels by 50-75% across generator population.
6. Improve battlefield survivability by providing mission critical electric power to the digitized warfighting forces.

The Small Tactical Electric Power (STEP) program will provide the Warfighter with expeditionary power solutions designed for combat operations in the most austere environments. STEP will replace existing systems and is a modernization program that will provide improved tactical electric mobile power sources for replacement of the currently fielded 2kW MTG sets and 3kW TQG sets, initially procured in the 1990s. STEP models will be more mobile, reliable, and logistically supportable power sources than their predecessors for the Department of Defense's (DoD's) 21st century digitized forces. STEP 2kW Army Acquisition Objective (AAO) is 5,000; STEP 3kW AAO is 20,000.

Large Advanced Mobile Power Sources (LAMPS) is a modernization program that will provide more mobile, reliable, and logistically supportable tactical electric power sources for the Department of Defense's 21st century digitized forces. LAMPS will replace the currently fielded 100/200 kilowatt (kW) Military-Standard (Mil-Std) generator sets and Tactical Quiet Generator (TQG) sets. LAMPS will provide improved tactical electric power to combat, combat support, and combat service support units throughout the Army and the other military Services within the DoD. The LAMPS program completed its Milestone B (MS B) decision review on 25 March 2011. The LAMPS system is based on technology currently available from industry and being used in various industrial applications. They are used to provide power to Combat Support Hospitals, Corps Support Commands, Homeland Defense, Military Intelligence, Special Operations Command and Forward Operating Bases. The LAMPS program will provide significant improvements over currently fielded systems in fuel consumption, size, weight, mobility, transportability, diagnostics/prognostics, enhanced survivability and supportability. The LAMPS program includes four (4) 50/60 Hertz (Hz) configurations; two (2) skid-mounted configurations and two (2) trailer-mounted (5 ton M1061E1 trailer) configurations as Power Units; and the LAMPS Power Distribution Unit (PDU). The LAMPS PDU will replace the M-400 (100 Amp) power distribution panel.

Army Acquisition Objective (AAO): LAMPS = 871, LAMPS PDU = 459.

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2017 Army		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 60: Generators		<b>P-1 Line Item Number / Title:</b> MA9800 / Generators And Associated Equip
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
<b>Line Item MDAP/MAIS Code:</b> N/A	<b>Item MDAP/MAIS Code(s):</b> N/A	

Power Distribution Illumination Systems Electrical (PDISE) provides reliable, quick to assemble, modular designed power distribution equipment that is critical to deploying power networks. The PDISE family consists of five different end items, including two feeder systems, two distribution systems and a utility assembly kit. PDISE is simple, reliable, and compatible with DoD generator sets from 5kW to 200kW. It is used to subdivide and distribute electricity from single power sources to multiple equipment users within shelters and various unit complexes, and thus is a critical element of the DoD power structure. PDISE is also critical to Army's transformation by reducing the logistics footprint through the use of centralized power configurations. Management and Distribution Control (MDC), formerly Improved PDISE, is the next generation program to establish a DoD family of electrical power feeder, distribution, management, and microgrid systems. MDC will be a force enabler yielding fuel saving efficiencies and will enhance power distribution between power generating and power using equipment to include greater intelligence to allow establishing a microgrid.  
M200 Army Acquisition Objective (AAO) = 251; M100 AAO = 2,214; M60 AAO = 6,008; M40 AAO = 4,337; M46 AAO = 11,477.

Management and Distribution Control (MDC), formerly Improved Power Distribution Illumination Systems Electrical (IPDISE) provides reliable, quick to assemble, modular designed power distribution equipment that is critical to deploying power networks. The PDISE family consists of five different end items, including two feeder systems, two distribution systems and a utility assembly kit. PDISE is simple, reliable, and compatible with DoD generator sets from 5kW to 200kW. It is used to subdivide and distribute electricity from single power sources to multiple equipment users within shelters and various unit complexes, and thus is a critical element of the DoD power structure. PDISE is also critical to Army's transformation by reducing the logistics footprint through the use of centralized power configurations. Management and Distribution Control (MDC) is the next generation program for the DoD family of electrical power feeder, distribution and microgrid systems. IPDISE will be a force enabler yielding fuel saving efficiencies and will enhance power distribution between power generation and power using equipment to include greater intelligence to allow establishing a microgrid.  
M200 Army Acquisition Objective (AAO) = 252; M100 AAO = 2,283; M60 AAO = 5,785; M40 AAO = 4,208; M46 AAO = 11,514; Microgrid PDU(LAMPS) AAO is TBD; Microgrid PDU(AAMPS) AAO is TBD

The Advanced Medium Mobile Power Sources (AMMPS) program provides mid-range power sources, including the 5 kilowatt(kW), 10kW, 15kW, 30kW, and 60kW Skid Mounted Advanced Medium Mobile Power Sources (AMMPS), which incorporates state-of-the-art commercial technologies that enhance the operational effectiveness and supportability of power sources. Operational effectiveness is improved through reduced noise (increasing survivability), and reduced weight (enhancing deployability, reduced footprint). The logistics footprint has been significantly reduced through improved fuel consumption (15-21% reduction), use of embedded diagnostics and improved maintainability.  
5kW Army Acquisition Objective (AAO) = 6,467; 10kW AAO = 5,092; 15kW AAO = 1,433; 30kW AAO = 331; 60kW AAO = 908.

Depot/Field Manufacturing Program: The integration of generator sets on trailers with the electronic components are defined as power units or power plants. Power Units (PU) consist of one generator set mounted on a trailer. Power Plants (PP) consist of two generator sets mounted on either one or two trailers (depending on size) with a switchbox installed and paralleling cables between sets. The generator sets are procured by competitive contracts through the Army Contracting Command – APG, Belvoir. The trailers are procured by competitive contracts through the Army Contracting Command - Warren. Set sizes from 5 kilowatt (kW) thru 60kW are mounted in Power Unit/Power Plant (PU/PP) configurations to meet the requirements of DOD.  
Power Units/Power Plants Army Acquisition Objective (AAO): 5kW PUPP = 3,708; 10kW PUPP = 5,190; 15kW PUPP = 4,340; 30kW PUPP = 1,652; 60kW PUPP = 932.

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	Quantity	2,140	3,489	1,486	939	2,425	1,969	4,137	4,036	3,935
	Total Obligation Authority	80.885	94.355	62.229	19.202	81.431	74.029	78.121	68.310	67.817
ANG	Quantity	1,240	1,783	783	420	1,203	861	2,298	2,469	2,375
	Total Obligation Authority	26.225	40.183	27.599	7.713	35.312	32.655	40.727	40.631	39.733
AR	Quantity	579	1,125	575	261	836	730	828	899	1,147
	Total Obligation Authority	10.740	31.818	23.438	4.846	28.284	27.848	24.401	22.250	24.834
<b>Total:</b>	<b>Quantity</b>	<b>3,959</b>	<b>6,397</b>	<b>2,844</b>	<b>1,620</b>	<b>4,464</b>	<b>3,560</b>	<b>7,263</b>	<b>7,404</b>	<b>7,457</b>

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**Exhibit P-40, Budget Line Item Justification:** PB 2017 Army **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 60: Generators	<b>P-1 Line Item Number / Title:</b> MA9800 / Generators And Associated Equip
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Secondary Distribution	Total Obligation Authority	117.850	166.356	113.266	31.761	145.027	134.532	143.249	131.191	132.384

**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** PB 2017 Army **Date:** February 2016

**Appropriation / Budget Activity / Budget Sub Activity:**  
2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 60: Generators

**P-1 Line Item Number / Title:**  
MA9800 / Generators And Associated Equip

**ID Code** (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** N/A

**Line Item MDAP/MAIS Code:** N/A **Item MDAP/MAIS Code(s):** N/A

Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	M50202 / Improved Power Distribution Illumination Systems E			- / -	- / -	- / -	- / 4.350	- / -	- / 4.350
P-5	M53500 / MEDIUM SETS (5-60 KW)	P-5a, P-21		546 / 909.216	1,085 / 48.731	- / 2.224	- / -	- / -	- / -
P-5	M59400 / SMALL SETS (2-3 KW)			- / 345.236	- / 3.487	- / -	- / -	- / -	- / -
P-5	R45400 / P-DISE 40-200 AMP	P-5a, P-21		1,414 / 70.247	1,671 / 16.428	3,100 / 18.852	- / -	501 / 2.856	501 / 2.856
P-5	R51050 / Advanced Medium Mobile Power Systems (AMMPS)	P-5a, P-21		- / -	- / -	1,998 / 60.111	2,234 / 62.248	980 / 23.152	3,214 / 85.400
P-5	R59210 / Power Units/Mounted (AMMPS)	P-5a, P-21		- / -	- / -	1,007 / 53.509	481 / 30.087	139 / 5.753	620 / 35.840
P-5	R61510 / Large Advanced Mobile Power	P-5a, P-21		- / -	- / -	292 / 25.380	129 / 15.328	- / -	129 / 15.328
P-5	R62700 / POWER UNITS/POWER PLANTS	P-5a, P-21		775 / 509.145	1,203 / 49.204	- / -	- / -	- / -	- / -
P-5	R63510 / Small Tactical Electric Power		A	- / -	- / -	- / 6.280	- / 1.253	- / -	- / 1.253
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>			<b>2,735 / 1,833.844</b>	<b>3,959 / 117.850</b>	<b>6,397 / 166.356</b>	<b>2,844 / 113.266</b>	<b>1,620 / 31.761</b>	<b>4,464 / 145.027</b>

\*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

**Justification:**

FY17 Base procurement dollars in the amount of \$113.266 million supports small, medium and large generator sets, assembly of power units and power plants, and IPDISE (Improved Power Distribution Illumination System Electrical). The program provides for the partial replacement of the current inventory of over aged, gasoline-fueled generators with modernized single fuel (diesel/JP8) assets that will enhance the user's safety, survivability, reduce the logistics footprint and enhance reliability and maintainability. These mobile generators provide electric power to virtually every weapon, communication, medical and combat support system in the inventory including Missile/Air Defense Systems; Tactical Operations Centers; Command, Control, Communications, Computers, Intelligence, Surveillance, and Reconnaissance systems; and Brigade Combat Teams (BCTs). Funding supports a balanced investment strategy for the Army's approved force structure and Army Force Generation (ARFORGEN) requirements.

FY17 OCO procurement dollars in the amount of \$31.761 million are required to support an urgent Operations Needs Statement (ONS) for new generation tactical electric power, which are more fuel efficient and reliable to support deployed forces in the Operation Inherent Resolve (OIR) theater of operations.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities

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<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 60		<b>P-1 Line Item Number / Title:</b> MA9800 / Generators And Associated Equip
		<b>Item Number / Title [DODIC]:</b> M50202 / Improved Power Distribution Illumination Systems E

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	-	-	-	4.350	-	4.350
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	-	-	-	4.350	-	4.350
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
<b>Total Obligation Authority</b> <i>(\$ in Millions)</i>	-	-	-	<b>4.350</b>	-	<b>4.350</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Thousands)</i>	-	-	-	-	-	-

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

<b>Cost Elements</b>	<b>Prior Years</b>			<b>FY 2015</b>			<b>FY 2016</b>			<b>FY 2017 Base</b>			<b>FY 2017 OCO</b>			<b>FY 2017 Total</b>		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
1. Engineering Support	-	-	-	-	-	-	-	-	-	-	-	1.856	-	-	-	-	-	1.856
2. Engineering Change Orders	-	-	-	-	-	-	-	-	-	-	-	0.106	-	-	-	-	-	0.106
3. Testing	-	-	-	-	-	-	-	-	-	-	-	0.106	-	-	-	-	-	0.106
4. System Fielding Support	-	-	-	-	-	-	-	-	-	-	-	0.474	-	-	-	-	-	0.474
5. Systems Assessment	-	-	-	-	-	-	-	-	-	-	-	0.078	-	-	-	-	-	0.078
6. Logistics Support	-	-	-	-	-	-	-	-	-	-	-	0.735	-	-	-	-	-	0.735
7. Data	-	-	-	-	-	-	-	-	-	-	-	0.083	-	-	-	-	-	0.083
8. PM Management Support	-	-	-	-	-	-	-	-	-	-	-	0.912	-	-	-	-	-	0.912
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	-	4.350	-	-	-	-	-	4.350
<i>Subtotal: Flyaway Cost</i>	-	-	-	-	-	-	-	-	-	-	-	<b>4.350</b>	-	-	-	-	-	<b>4.350</b>
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	-	-	-	-	-	-	<b>4.350</b>	-	-	-	-	-	<b>4.350</b>

<b>Secondary Distribution</b>		<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>
Army	Quantity	-	-	-	-	-

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis:</b> PB 2017 Army		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 60	<b>P-1 Line Item Number / Title:</b> MA9800 / Generators And Associated Equip	<b>Item Number / Title [DODIC]:</b> M50202 / Improved Power Distribution Illumination Systems E

**ID Code** (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

<b>Secondary Distribution</b>		<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>
	Total Obligation Authority	-	-	4.350	-	4.350
<b>Total:</b>	<b>Quantity</b>	-	-	-	-	-
<b>Secondary Distribution</b>	Total Obligation Authority	-	-	4.350	-	4.350



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**Exhibit P-5, Cost Analysis: PB 2017 Army** **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 60	<b>P-1 Line Item Number / Title:</b> MA9800 / Generators And Associated Equip	<b>Item Number / Title [DODIC]:</b> M53500 / MEDIUM SETS (5-60 KW)
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**ID Code** (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	546	1,085	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	909.216	48.731	2.224	-	-	-
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	909.216	48.731	2.224	-	-	-
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	<b>909.216</b>	<b>48.731</b>	<b>2.224</b>	-	-	-

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	1,665.231	44.913	-	-	-	-

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
1. Engineering Support	-	-	129.040	-	-	4.800	-	-	1.058	-	-	-	-	-	-	-	-	-
2. Engineering Change Orders	-	-	32.158	-	-	0.090	-	-	-	-	-	-	-	-	-	-	-	-
3. Testing	-	-	74.891	-	-	2.510	-	-	-	-	-	-	-	-	-	-	-	-
4. System Fielding Support	-	-	4.572	-	-	4.028	-	-	-	-	-	-	-	-	-	-	-	-
5. System Assessment	-	-	4.701	-	-	0.237	-	-	-	-	-	-	-	-	-	-	-	-
6. Logistics Support	-	-	21.530	-	-	4.300	-	-	-	-	-	-	-	-	-	-	-	-
7. Data	-	-	33.480	-	-	0.270	-	-	-	-	-	-	-	-	-	-	-	-
8. PM Management Support	-	-	599.492	-	-	4.969	-	-	1.166	-	-	-	-	-	-	-	-	-
5kW/60Hz (MEP1030) <sup>(†)</sup>	76.834	50	3.842	22.226	125	2.778	-	-	-	-	-	-	-	-	-	-	-	-
10kW/60Hz (MEP1040) <sup>(†)</sup>	36.740	150	5.511	25.552	880	22.486	-	-	-	-	-	-	-	-	-	-	-	-
15kW/60Hz (MEP1050) <sup>(†)</sup>	-	-	-	26.932	50	1.347	-	-	-	-	-	-	-	-	-	-	-	-
15kW/400Hz (MEP1051) <sup>(†)</sup>	-	-	-	30.548	15	0.458	-	-	-	-	-	-	-	-	-	-	-	-
60kW/400Hz (MEP1071) <sup>(†)</sup>	-	-	-	30.548	15	0.458	-	-	-	-	-	-	-	-	-	-	-	-

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 60		<b>P-1 Line Item Number / Title:</b> MA9800 / Generators And Associated Equip
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :		<b>MDAP/MAIS Code:</b>
<b>Item Number / Title [DODIC]:</b> M53500 / MEDIUM SETS (5-60 KW)		

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
<i>Subtotal: Recurring Cost</i>	-	-	909.217	-	-	48.731	-	-	2.224	-	-	-	-	-	-	-	-	-
<i>Subtotal: Flyaway Cost</i>	-	-	909.217	-	-	48.731	-	-	2.224	-	-	-	-	-	-	-	-	-
<b>Gross/Weapon System Cost</b>	1,665.231	546	909.216	44.913	1,085	48.731	-	-	2.224	-	-	-	-	-	-	-	-	-

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	560	-	-	-	-
	Total Obligation Authority	35.369	2.224	-	-	-
ANG	Quantity	348	-	-	-	-
	Total Obligation Authority	8.828	-	-	-	-
AR	Quantity	177	-	-	-	-
	Total Obligation Authority	4.534	-	-	-	-
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	<b>1,085</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
	<b>Total Obligation Authority</b>	<b>48.731</b>	<b>2.224</b>	<b>-</b>	<b>-</b>	<b>-</b>

(t) indicates the presence of a P-5a

**UNCLASSIFIED**

**Exhibit P-5a, Procurement History and Planning:** PB 2017 Army **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 60	<b>P-1 Line Item Number / Title:</b> MA9800 / Generators And Associated Equip	<b>Item Number / Title [DODIC]:</b> M53500 / MEDIUM SETS (5-60 KW)
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Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
5kW/60Hz (MEP1030) <sup>(†)</sup>		2015	CUMMINS POWER GENERATION; INC / Minneapolis, MN	C / FP	CECOM	Jun 2015	Nov 2015	125	22.226	Y		
10kW/60Hz (MEP1040) <sup>(†)</sup>		2015	CUMMINS POWER GENERATION; INC / Minneapolis, MN	C / FP	CECOM	Jun 2015	Nov 2015	880	25.552	Y		
15kW/60Hz (MEP1050) <sup>(†)</sup>		2015	CUMMINS POWER GENERATION; INC / Minneapolis, MN	C / FP	CECOM	Jun 2015	Nov 2015	50	26.932	Y		
15kW/400Hz (MEP1051) <sup>(†)</sup>		2015	CUMMINS POWER GENERATION; INC / Minneapolis, MN	C / FP	CECOM	Jun 2015	Nov 2015	15	30.548	Y		
60kW/400Hz (MEP1071) <sup>(†)</sup>		2015	CUMMINS POWER GENERATION; INC / Minneapolis, MN	C / FP	CECOM	Jun 2015	Nov 2015	15	30.548	Y		

<sup>(†)</sup> indicates the presence of a P-21

**UNCLASSIFIED**

**Exhibit P-21, Production Schedule:** PB 2017 Army **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 60	<b>P-1 Line Item Number / Title:</b> MA9800 / Generators And Associated Equip	<b>Item Number / Title [DODIC]:</b> M53500 / MEDIUM SETS (5-60 KW)
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2015												Fiscal Year 2016												BALANCE	
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2014	BAL DUE AS OF 1 OCT	Calendar Year 2015												Calendar Year 2016												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P
5kW/60Hz (MEP1030)																															
Prior Years Deliveries: 50																															
1		2015	ARMY	125	-	125																									
10kW/60Hz (MEP1040)																															
Prior Years Deliveries: 150																															
2		2015	ARMY	880	-	880																									
15kW/60Hz (MEP1050)																															
3		2015	ARMY	50	-	50																									
15kW/400Hz (MEP1051)																															
4		2015	ARMY	15	-	15																									
60kW/400Hz (MEP1071)																															
5		2015	ARMY	15	-	15																									
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

**UNCLASSIFIED**

**Exhibit P-21, Production Schedule:** PB 2017 Army **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 60	<b>P-1 Line Item Number / Title:</b> MA9800 / Generators And Associated Equip	<b>Item Number / Title [DODIC]:</b> M53500 / MEDIUM SETS (5-60 KW)
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2017												Fiscal Year 2018												BALANCE	
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2016	BAL DUE AS OF 1 OCT	Calendar Year 2017												Calendar Year 2018												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P
5kW/60Hz (MEP1030)																															
Prior Years Deliveries: 50																															
	1	2015	ARMY	125	121	4	4																						-		
10kW/60Hz (MEP1040)																															
Prior Years Deliveries: 150																															
	2	2015	ARMY	880	814	66	66																						-		
15kW/60Hz (MEP1050)																															
	3	2015	ARMY	50	50	-																							-		
15kW/400Hz (MEP1051)																															
	4	2015	ARMY	15	15	-																							-		
60kW/400Hz (MEP1071)																															
	5	2015	ARMY	15	15	-																							-		
								O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P

**UNCLASSIFIED**

<b>Exhibit P-21, Production Schedule:</b> PB 2017 Army	<b>Date:</b> February 2016
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<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 60	<b>P-1 Line Item Number / Title:</b> MA9800 / Generators And Associated Equip	<b>Item Number / Title [DODIC]:</b> M53500 / MEDIUM SETS (5-60 KW)
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MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2017	1-8-5 For 2017	MAX For 2017	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	CUMMINS POWER GENERATION; INC - Minneapolis, MN	1,500	3,000	4,800	6	8	5	13	6	8	5	13
2	CUMMINS POWER GENERATION; INC - Minneapolis, MN	1,500	3,000	4,800	6	8	5	13	6	8	5	13
3	CUMMINS POWER GENERATION; INC - Minneapolis, MN	1,500	3,000	4,800	6	8	5	13	6	8	5	13
4	CUMMINS POWER GENERATION; INC - Minneapolis, MN	1,500	3,000	4,800	6	8	5	13	6	8	5	13
5	CUMMINS POWER GENERATION; INC - Minneapolis, MN	1,500	3,000	4,800	6	8	5	13	6	8	5	13

"A" in the Delivery Schedule indicates the Contract Award Date.

**Note:** Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

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**Exhibit P-5, Cost Analysis: PB 2017 Army** **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 60	<b>P-1 Line Item Number / Title:</b> MA9800 / Generators And Associated Equip	<b>Item Number / Title [DODIC]:</b> M59400 / SMALL SETS (2-3 KW)
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**ID Code** (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	345.236	3.487	-	-	-	-
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	345.236	3.487	-	-	-	-
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	<b>345.236</b>	<b>3.487</b>	-	-	-	-

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
1. Engineering Support	-	-	24.574	-	-	0.887	-	-	-	-	-	-	-	-	-	-	-	-
2. Engineering Change Orders	-	-	2.826	-	-	0.102	-	-	-	-	-	-	-	-	-	-	-	-
3. Testing	-	-	2.106	-	-	0.076	-	-	-	-	-	-	-	-	-	-	-	-
4. System Fielding Support	-	-	20.178	-	-	0.750	-	-	-	-	-	-	-	-	-	-	-	-
5. System Assessment	-	-	0.471	-	-	0.017	-	-	-	-	-	-	-	-	-	-	-	-
6. Logistics Support	-	-	5.070	-	-	0.183	-	-	-	-	-	-	-	-	-	-	-	-
7. Data	-	-	1.385	-	-	0.050	-	-	-	-	-	-	-	-	-	-	-	-
8. PM Management Support	-	-	39.396	-	-	1.422	-	-	-	-	-	-	-	-	-	-	-	-
2kW DC	5.211	90	0.469	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2kW 60Hz	4.609	5,602	25.820	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3kW 400Hz	5.609	27	0.151	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3kW 60Hz	11.256	19,793	222.790	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	345.236	-	-	3.487	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Flyaway Cost</i>	-	-	345.236	-	-	3.487	-	-	-	-	-	-	-	-	-	-	-	-
<b>Gross/Weapon System Cost</b>	-	-	345.236	-	-	3.487	-	-	-	-	-	-	-	-	-	-	-	-

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>	<b>Date:</b> February 2016
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<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 60	<b>P-1 Line Item Number / Title:</b> MA9800 / Generators And Associated Equip	<b>Item Number / Title [DODIC]:</b> M59400 / SMALL SETS (2-3 KW)
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
<b>Secondary Distribution</b>						
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	3.487	-	-	-	-
<b>Total:</b>	<b>Quantity</b>	-	-	-	-	-
<b>Secondary Distribution</b>	<b>Total Obligation Authority</b>	<b>3.487</b>	-	-	-	-



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**Exhibit P-5, Cost Analysis: PB 2017 Army** **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 60	<b>P-1 Line Item Number / Title:</b> MA9800 / Generators And Associated Equip	<b>Item Number / Title [DODIC]:</b> R45400 / P-DISE 40-200 AMP
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**ID Code** (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	1,414	1,671	3,100	-	501	501
Gross/Weapon System Cost (\$ in Millions)	70.247	16.428	18.852	-	2.856	2.856
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	70.247	16.428	18.852	-	2.856	2.856
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	<b>70.247</b>	<b>16.428</b>	<b>18.852</b>	<b>-</b>	<b>2.856</b>	<b>2.856</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	49.680	9.831	6.081	-	5.701	5.701

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
1. Engineering Support	-	-	6.698	-	-	1.214	-	-	0.800	-	-	-	-	-	-	-	-	-
2. Engineering Change Orders	-	-	0.708	-	-	0.102	-	-	0.104	-	-	-	-	-	-	-	-	-
3. Testing	-	-	0.450	-	-	0.102	-	-	0.104	-	-	-	-	-	-	-	-	-
4. System Fielding Support	-	-	0.364	-	-	0.656	-	-	0.554	-	-	-	-	-	-	-	-	-
5. System Assessment	-	-	1.220	-	-	0.096	-	-	0.081	-	-	-	-	-	-	-	-	-
6. Logistics Support	-	-	5.088	-	-	0.912	-	-	0.729	-	-	-	-	-	-	-	-	-
7. Data	-	-	0.546	-	-	0.079	-	-	0.081	-	-	-	-	-	-	-	-	-
8. PM Management Support	-	-	16.608	-	-	1.210	-	-	1.016	-	-	-	-	-	-	-	-	-
M200 (Feeder System) <sup>(†)</sup>	32.544	338	11.000	23.633	60	1.418	11.499	203	2.335	-	-	-	-	-	-	-	-	-
M100 (Feeder System) <sup>(†)</sup>	9.913	807	8.000	12.140	143	1.736	6.179	382	2.360	-	-	-	-	-	-	-	-	-
M60 (Distribution System) <sup>(†)</sup>	5.556	1,952	10.845	8.916	300	2.675	5.516	145	0.799	-	-	-	5.700	501	2.856	5.700	501	2.856
M 40 (Distribution System) <sup>(†)</sup>	-	-	8.720	8.880	319	2.833	4.480	836	3.745	-	-	-	-	-	-	-	-	-
M46 (Utility Kit) <sup>(†)</sup>	-	-	-	4.000	849	3.395	4.005	1,534	6.143	-	-	-	-	-	-	-	-	-
<b>Subtotal: Recurring Cost</b>	<b>-</b>	<b>-</b>	<b>70.247</b>	<b>-</b>	<b>-</b>	<b>16.429</b>	<b>-</b>	<b>-</b>	<b>18.852</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>2.856</b>	<b>-</b>	<b>-</b>	<b>2.856</b>

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<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>												<b>Date:</b> February 2016					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 60						<b>P-1 Line Item Number / Title:</b> MA9800 / Generators And Associated Equip						<b>Item Number / Title [DODIC]:</b> R45400 / P-DISE 40-200 AMP					
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :												<b>MDAP/MAIS Code:</b>					

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
<i>Subtotal: Flyaway Cost</i>	-	-	70.247	-	-	16.429	-	-	18.852	-	-	-	-	-	2.856	-	-	2.856
<b>Gross/Weapon System Cost</b>	49.680	1,414	70.247	9.831	1,671	16.428	6.081	3,100	18.852	-	-	-	5.701	501	2.856	5.701	501	2.856

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	920	1,711	-	241	241
	Total Obligation Authority	9.045	10.234	-	1.371	1.371
ANG	Quantity	483	900	-	170	170
	Total Obligation Authority	4.748	5.717	-	0.971	0.971
AR	Quantity	268	489	-	90	90
	Total Obligation Authority	2.635	2.901	-	0.514	0.514
<b>Total:</b>	<b>Quantity</b>	<b>1,671</b>	<b>3,100</b>	<b>-</b>	<b>501</b>	<b>501</b>
<b>Secondary Distribution</b>	<b>Total Obligation Authority</b>	<b>16.428</b>	<b>18.852</b>	<b>-</b>	<b>2.856</b>	<b>2.856</b>

(t) indicates the presence of a P-5a

**UNCLASSIFIED**

**Exhibit P-5a, Procurement History and Planning: PB 2017 Army** **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 60	<b>P-1 Line Item Number / Title:</b> MA9800 / Generators And Associated Equip	<b>Item Number / Title [DODIC]:</b> R45400 / P-DISE 40-200 AMP
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Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
M200 (Feeder System) <sup>(†)</sup>		2015	Fidelity Technologies Corp / Reading	C / FP	ACC-APG, Belvoir	Jan 2015	Jan 2016	60	23.633	Y		
M200 (Feeder System) <sup>(†)</sup>		2016	Fidelity Technologies Corp / Reading	C / FP	ACC-APG, Belvoir	Jan 2016	Jan 2017	203	11.499	Y		
M100 (Feeder System) <sup>(†)</sup>		2015	Fidelity Technologies Corp / Reading	C / FP	ACC-APG, Belvoir	Jan 2015	Jan 2016	143	12.140	Y		
M100 (Feeder System) <sup>(†)</sup>		2016	Fidelity Technologies Corp / Reading	C / FP	ACC-APG, Belvoir	Jan 2016	Jan 2017	382	6.179	Y		
M60 (Distribution System) <sup>(†)</sup>		2015	Fidelity Technologies Corp / Reading	C / FP	ACC-APG, Belvoir	Jan 2015	Jan 2016	300	8.916	Y		
M60 (Distribution System) <sup>(†)</sup>		2016	Fidelity Technologies Corp / Reading	C / FP	ACC-APG, Belvoir	Jan 2016	Jan 2017	145	5.516	Y		
M60 (Distribution System) <sup>(†)</sup>	✓	2017	Fidelity Technologies Corp / Reading	C / FP	ACC-APG, Belvoir	Jan 2017	Jan 2018	501	5.700	Y		
M 40 (Distribution System) <sup>(†)</sup>		2015	Fidelity Technologies Corp / Reading	C / FP	ACC-APG, Belvoir	Jan 2015	Jan 2016	319	8.880	Y		
M 40 (Distribution System) <sup>(†)</sup>		2016	Fidelity Technologies Corp / Reading	C / FP	ACC-APG, Belvoir	Jan 2016	Jan 2017	836	4.480	Y		
M46 (Utility Kit) <sup>(†)</sup>		2015	Fidelity Technologies Corp / Reading	C / FP	ACC-APG, Belvoir	Jan 2015	Jan 2016	849	4.000	Y		
M46 (Utility Kit) <sup>(†)</sup>		2016	Fidelity Technologies Corp / Reading	C / FP	ACC-APG, Belvoir	Jan 2016	Jan 2017	1,534	4.005			

<sup>(†)</sup> indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2017 Army																								Date: February 2016																											
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 03 / 60						P-1 Line Item Number / Title: MA9800 / Generators And Associated Equip										Item Number / Title [DODIC]: R45400 / P-DISE 40-200 AMP																																			
Cost Elements (Units in Each)						Fiscal Year 2015										Fiscal Year 2016										BALANCE																									
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2014	BAL DUE AS OF 1 OCT	Calendar Year 2015										Calendar Year 2016																																		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R		M A Y	J U N	J U L	A U G	S E P																				
M200 (Feeder System)																																																			
Prior Years Deliveries: 338																																																			
	1	2015	ARMY	60	-	60					A	-																			15																				
	1	2016	ARMY	203	-	203																	A	-							203																				
M100 (Feeder System)																																																			
Prior Years Deliveries: 807																																																			
	2	2015	ARMY	143	-	143					A	-																			35																				
	2	2016	ARMY	382	-	382																	A	-							382																				
M60 (Distribution System)																																																			
Prior Years Deliveries: 1952																																																			
	3	2015	ARMY	300	-	300					A	-																			75																				
	3	2016	ARMY	145	-	145																	A	-							145																				
✓	3	2017	ARMY (L)	501	-	501																									501																				
M 40 (Distribution System)																																																			
	4	2015	ARMY	319	-	319					A	-																				78																			
	4	2016	ARMY	836	-	836																	A	-								836																			
M46 (Utility Kit)																																																			
	5	2015	ARMY	849	-	849					A	-																				210																			
	5	2016	ARMY	1,534	-	1,534																	A	-								1,534																			
<table border="1"> <thead> <tr> <th>O C T</th> <th>N O V</th> <th>D E C</th> <th>J A N</th> <th>F E B</th> <th>M A R</th> <th>A P R</th> <th>M A Y</th> <th>J U N</th> <th>J U L</th> <th>A U G</th> <th>S E P</th> <th>O C T</th> <th>N O V</th> <th>D E C</th> <th>J A N</th> <th>F E B</th> <th>M A R</th> <th>A P R</th> <th>M A Y</th> <th>J U N</th> <th>J U L</th> <th>A U G</th> <th>S E P</th> </tr> </thead> </table>																												O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P
O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P																												

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**Exhibit P-21, Production Schedule: PB 2017 Army** **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 60	<b>P-1 Line Item Number / Title:</b> MA9800 / Generators And Associated Equip	<b>Item Number / Title [DODIC]:</b> R45400 / P-DISE 40-200 AMP
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Cost Elements <i>(Units in Each)</i>				Fiscal Year 2017														Fiscal Year 2018												BALANCE			
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2016	BAL DUE AS OF 1 OCT	Calendar Year 2017														Calendar Year 2018												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P		
M200 (Feeder System)																																	
Prior Years Deliveries: 338																																	
	1	2015	ARMY	60	45	15	5	5	5																				-				
	1	2016	ARMY	203	-	203	-	-	-	16	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	-				
M100 (Feeder System)																																	
Prior Years Deliveries: 807																																	
	2	2015	ARMY	143	108	35	12	12	11																				-				
	2	2016	ARMY	382	-	382	-	-	-	32	32	32	32	32	32	32	32	32	32	32	32	31	31						-				
M60 (Distribution System)																																	
Prior Years Deliveries: 1952																																	
	3	2015	ARMY	300	225	75	25	25	25																				-				
	3	2016	ARMY	145	-	145	-	-	-	12	12	12	12	12	12	12	12	12	12	12	12	12	13						-				
	✓ 3	2017	ARMY (L1)	501	-	501				A	-	-	-	-	-	-	-	-	-	-	-	-	-	42	42	42	42	42	42	42	42	123	
M 40 (Distribution System)																																	
	4	2015	ARMY	319	241	78	26	26	26																				-				
	4	2016	ARMY	836	-	836	-	-	-	70	70	70	70	70	70	70	70	69	69	69	69								-				
M46 (Utility Kit)																																	
	5	2015	ARMY	849	639	210	70	70	70																				-				
	5	2016	ARMY	1,534	-	1,534	-	-	-	128	128	128	128	128	128	128	128	128	128	127	127								-				
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

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**Exhibit P-21, Production Schedule:** PB 2017 Army **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 60	<b>P-1 Line Item Number / Title:</b> MA9800 / Generators And Associated Equip	<b>Item Number / Title [DODIC]:</b> R45400 / P-DISE 40-200 AMP
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Cost Elements <i>(Units in Each)</i>					Fiscal Year 2019													Fiscal Year 2020													BALANCE		
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2018	BAL DUE AS OF 1 OCT	Calendar Year 2019													Calendar Year 2020													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			
M200 (Feeder System)																																	
Prior Years Deliveries: 338																																	
	1	2015	ARMY	60	60	-																							-				
	1	2016	ARMY	203	203	-																							-				
M100 (Feeder System)																																	
Prior Years Deliveries: 807																																	
	2	2015	ARMY	143	143	-																							-				
	2	2016	ARMY	382	382	-																							-				
M60 (Distribution System)																																	
Prior Years Deliveries: 1952																																	
	3	2015	ARMY	300	300	-																							-				
	3	2016	ARMY	145	145	-																							-				
	✓ 3	2017	ARMY (L1)	501	378	123	41	41	41																				-				
M 40 (Distribution System)																																	
	4	2015	ARMY	319	319	-																							-				
	4	2016	ARMY	836	836	-																							-				
M46 (Utility Kit)																																	
	5	2015	ARMY	849	849	-																							-				
	5	2016	ARMY	1,534	1,534	-																							-				

**UNCLASSIFIED**

**Exhibit P-21, Production Schedule:** PB 2017 Army **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 60	<b>P-1 Line Item Number / Title:</b> MA9800 / Generators And Associated Equip	<b>Item Number / Title [DODIC]:</b> R45400 / P-DISE 40-200 AMP
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MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2017	1-8-5 For 2017	MAX For 2017	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	Fidelity Technologies Corp - Reading	5,400	10,500	21,000	6	4	12	16	6	4	12	16
2	Fidelity Technologies Corp - Reading	5,400	10,500	21,000	6	4	12	16	6	4	12	16
3	Fidelity Technologies Corp - Reading	5,400	10,500	21,000	6	4	12	16	6	4	12	16
4	Fidelity Technologies Corp - Reading	5,400	10,500	21,000	6	4	12	16	6	4	12	16
5	Fidelity Technologies Corp - Reading	5,400	10,500	21,000	6	4	12	16	6	4	12	16

"A" in the Delivery Schedule indicates the Contract Award Date.

**Note:** Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

**Service/Agency Suffixes:**

(L) OCO

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<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 60	<b>P-1 Line Item Number / Title:</b> MA9800 / Generators And Associated Equip	<b>Item Number / Title [DODIC]:</b> R51050 / Advanced Medium Mobile Power Systems (AMMPS)

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>
Procurement Quantity (Units in Each)	-	-	1,998	2,234	980	3,214
Gross/Weapon System Cost (\$ in Millions)	-	-	60.111	62.248	23.152	85.400
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	-	60.111	62.248	23.152	85.400
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	-	-	<b>60.111</b>	<b>62.248</b>	<b>23.152</b>	<b>85.400</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	30.086	27.864	23.624	26.571

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

<b>Cost Elements</b>	<b>Prior Years</b>			<b>FY 2015</b>			<b>FY 2016</b>			<b>FY 2017 Base</b>			<b>FY 2017 OCO</b>			<b>FY 2017 Total</b>		
	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>
<b>Flyaway Cost</b>																		
<b>Recurring Cost</b>																		
1. Engineering Support	-	-	-	-	-	-	-	-	0.753	-	-	0.828	-	-	-	-	-	0.828
2. Engineering Change Orders	-	-	-	-	-	-	-	-	0.092	-	-	1.850	-	-	-	-	-	1.850
3. Testing	-	-	-	-	-	-	-	-	8.500	-	-	0.751	-	-	-	-	-	0.751
4. System Fielding Support	-	-	-	-	-	-	-	-	1.755	-	-	1.930	-	-	-	-	-	1.930
5. System Assessment	-	-	-	-	-	-	-	-	0.258	-	-	0.358	-	-	-	-	-	0.358
6. Logistics Support	-	-	-	-	-	-	-	-	1.310	-	-	1.441	-	-	-	-	-	1.441
7. Data	-	-	-	-	-	-	-	-	0.187	-	-	0.366	-	-	-	-	-	0.366
8. PM Management Support	-	-	-	-	-	-	-	-	0.895	-	-	0.985	-	-	-	-	-	0.985
5kW/60Hz (MEP1030) <sup>(†)</sup>	-	-	-	-	-	-	21.496	925	19.884	22.510	1,264	28.453	22.513	577	12.990	22.510	1,841	41.441
10kW/400Hz (MEP1041) <sup>(†)</sup>	-	-	-	-	-	-	25.826	19	0.491	-	-	-	-	-	-	-	-	-
10kW/60Hz (MEP1040) <sup>(†)</sup>	-	-	-	-	-	-	24.223	927	22.455	25.217	826	20.829	25.217	403	10.162	25.217	1,229	30.992
15kW/400Hz (MEP1051) <sup>(†)</sup>	-	-	-	-	-	-	26.593	62	1.649	27.636	54	1.492	-	-	-	27.636	54	1.492



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<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 60	<b>P-1 Line Item Number / Title:</b> MA9800 / Generators And Associated Equip	<b>Item Number / Title [DODIC]:</b> R51050 / Advanced Medium Mobile Power Systems (AMMPS)
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :		<b>MDAP/MAIS Code:</b>

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
15kW/60Hz (MEP1050) <sup>(†)</sup>	-	-	-	-	-	-	25.026	38	0.951	26.000	40	1.040	-	-	-	26.000	40	1.040
30kW/400Hz (MEP1061) <sup>(†)</sup>	-	-	-	-	-	-	31.735	2	0.063	-	-	-	-	-	-	-	-	-
60kW/400Hz (MEP1071) <sup>(†)</sup>	-	-	-	-	-	-	34.737	25	0.868	-	-	-	-	-	-	-	-	-
60kW/60Hz (MEP1070) <sup>(†)</sup>	-	-	-	-	-	-	-	-	-	38.500	50	1.925	-	-	-	38.500	50	1.925
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	60.111	-	-	62.248	-	-	23.152	-	-	85.399
<i>Subtotal: Flyaway Cost</i>	-	-	-	-	-	-	-	-	60.111	-	-	62.248	-	-	23.152	-	-	85.399
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	-	30.086	1,998	60.111	27.864	2,234	62.248	23.624	980	23.152	26.571	3,214	85.400

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	-	1,053	1,155	622	1,777
	Total Obligation Authority	-	31.628	32.151	14.699	46.850
ANG	Quantity	-	559	622	205	827
	Total Obligation Authority	-	17.105	17.579	4.897	22.476
AR	Quantity	-	386	457	153	610
	Total Obligation Authority	-	11.378	12.518	3.556	16.074
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	-	<b>1,998</b>	<b>2,234</b>	<b>980</b>	<b>3,214</b>
	<b>Total Obligation Authority</b>	-	<b>60.111</b>	<b>62.248</b>	<b>23.152</b>	<b>85.400</b>

<sup>(†)</sup> indicates the presence of a P-5a

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<b>Exhibit P-5a, Procurement History and Planning: PB 2017 Army</b>							<b>Date:</b> February 2016				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 60			<b>P-1 Line Item Number / Title:</b> MA9800 / Generators And Associated Equip				<b>Item Number / Title [DODIC]:</b> R51050 / Advanced Medium Mobile Power Systems (AMMPS)				

Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
5kW/60Hz (MEP1030) <sup>(†)</sup>		2016	CUMMINS POWER GENERATION; INC / Minneapolis, MN	C / FP	ACC-APG, Belvoir	Sep 2016	Jun 2017	925	21.496	Y		
5kW/60Hz (MEP1030) <sup>(†)</sup>		2017	TBD / TBD	C / FP	ACC-APG, Belvoir	Jan 2017	Jun 2018	1,841	22.510	Y		
10kW/400Hz (MEP1041) <sup>(†)</sup>		2016	CUMMINS POWER GENERATION; INC / Minneapolis, MN	C / FFP	ACC-APG, Belvoir	Sep 2016	Jun 2017	19	25.826	Y		
10kW/60Hz (MEP1040) <sup>(†)</sup>		2016	CUMMINS POWER GENERATION; INC / Minneapolis, MN	C / FP	ACC-APG, Belvoir	Sep 2016	Jun 2017	927	24.223	Y		
10kW/60Hz (MEP1040) <sup>(†)</sup>		2017	TBD / TBD	C / FP	ACC-APG, Belvoir	Jan 2017	Jun 2018	1,229	25.217	Y		
15kW/400Hz (MEP1051) <sup>(†)</sup>		2016	CUMMINS POWER GENERATION; INC / Minneapolis, MN	C / FP	ACC-APG, Belvoir	Sep 2016	Jun 2017	62	26.593	Y		
15kW/400Hz (MEP1051) <sup>(†)</sup>		2017	TBD / TBD	C / FP	ACC-APG, Belvoir	Jan 2017	Jun 2018	54	27.636	Y		
15kW/60Hz (MEP1050) <sup>(†)</sup>		2016	CUMMINS POWER GENERATION; INC / Minneapolis, MN	C / FP	ACC-APG, Belvoir	Sep 2016	Jun 2017	38	25.026	Y		
15kW/60Hz (MEP1050) <sup>(†)</sup>		2017	TBD / TBD	C / FP	ACC-APG, Belvoir	Jan 2017	Jun 2018	40	26.000	Y		
30kW/400Hz (MEP1061) <sup>(†)</sup>		2016	CUMMINS POWER GENERATION; INC / Minneapolis, MN	C / FP	ACC-APG, Belvoir	Sep 2016	Jun 2017	2	31.735	Y		
60kW/400Hz (MEP1071) <sup>(†)</sup>		2016	CUMMINS POWER GENERATION; INC / Minneapolis, MN	C / FP	ACC-APG, Belvoir	Sep 2016	Jun 2017	25	34.737	Y		
60kW/60Hz (MEP1070) <sup>(†)</sup>		2017	TBD / TBD	C / FP	ACC-APG, Belvoir	Jan 2017	Jun 2018	50	38.500	Y		

<sup>(†)</sup> indicates the presence of a P-21

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<b>Exhibit P-21, Production Schedule: PB 2017 Army</b>																							<b>Date:</b> February 2016															
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 60											<b>P-1 Line Item Number / Title:</b> MA9800 / Generators And Associated Equip											<b>Item Number / Title [DODIC]:</b> R51050 / Advanced Medium Mobile Power Systems (AMMPS)																
<b>Cost Elements (Units in Each)</b>						<b>Fiscal Year 2016</b>														<b>Fiscal Year 2017</b>														<b>B A L A N C E</b>				
<b>O C C #</b>	<b>M F R #</b>	<b>FY</b>	<b>SERVICE</b>	<b>PROC QTY</b>	<b>ACCEP T P R I O R T O 1 O C T 2 0 1 5</b>	<b>BAL DUE AS O F 1 O C T</b>	<b>Calendar Year 2016</b>														<b>Calendar Year 2017</b>																	
							<b>O C T</b>	<b>N O V</b>	<b>D E C</b>	<b>J A N</b>	<b>F E B</b>	<b>M A R</b>	<b>A P R</b>	<b>M A Y</b>	<b>J U N</b>	<b>J U L</b>	<b>A U G</b>	<b>S E P</b>	<b>O C T</b>	<b>N O V</b>	<b>D E C</b>	<b>J A N</b>	<b>F E B</b>	<b>M A R</b>	<b>A P R</b>	<b>M A Y</b>	<b>J U N</b>	<b>J U L</b>	<b>A U G</b>	<b>S E P</b>								
<b>5kW/60Hz (MEP1030)</b>																																						
	1	2016	ARMY	925	-	925																														617		
	2	2017	ARMY	1,841	-	1,841																														1,841		
<b>10kW/400Hz (MEP1041)</b>																																						
	3	2016	ARMY	19	-	19																															15	
<b>10kW/60Hz (MEP1040)</b>																																						
	4	2016	ARMY	927	-	927																															619	
	5	2017	ARMY	1,229	-	1,229																															1,229	
<b>15kW/400Hz (MEP1051)</b>																																						
	6	2016	ARMY	62	-	62																															42	
	7	2017	ARMY	54	-	54																															54	
<b>15kW/60Hz (MEP1050)</b>																																						
	8	2016	ARMY	38	-	38																															26	
	9	2017	ARMY	40	-	40																															40	
<b>30kW/400Hz (MEP1061)</b>																																						
	10	2016	ARMY	2	-	2																															-	
<b>60kW/400Hz (MEP1071)</b>																																						
	11	2016	ARMY	25	-	25																															17	
<b>60kW/60Hz (MEP1070)</b>																																						
	12	2017	ARMY	50	-	50																																50
							<b>O C T</b>	<b>N O V</b>	<b>D E C</b>	<b>J A N</b>	<b>F E B</b>	<b>M A R</b>	<b>A P R</b>	<b>M A Y</b>	<b>J U N</b>	<b>J U L</b>	<b>A U G</b>	<b>S E P</b>	<b>O C T</b>	<b>N O V</b>	<b>D E C</b>	<b>J A N</b>	<b>F E B</b>	<b>M A R</b>	<b>A P R</b>	<b>M A Y</b>	<b>J U N</b>	<b>J U L</b>	<b>A U G</b>	<b>S E P</b>								

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Exhibit P-21, Production Schedule: PB 2017 Army																							Date: February 2016							
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 03 / 60										P-1 Line Item Number / Title: MA9800 / Generators And Associated Equip										Item Number / Title [DODIC]: R51050 / Advanced Medium Mobile Power Systems (AMMPS)										
Cost Elements (Units in Each)						Fiscal Year 2018													Fiscal Year 2019										BALANCE	
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2017	BAL DUE AS OF 1 OCT	Calendar Year 2018													Calendar Year 2019										
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L		A U G
5kW/60Hz (MEP1030)																														
	1	2016	ARMY	925	308	617	77	77	77	77	77	77	77	78																-
	2	2017	ARMY	1,841	-	1,841	-	-	-	-	-	-	-	-	141	141	141	141	141	141	141	141	141	141	141	142	142	142		146
10kW/400Hz (MEP1041)																														
	3	2016	ARMY	19	4	15	1	2	2	2	2	2	2	2																-
10kW/60Hz (MEP1040)																														
	4	2016	ARMY	927	308	619	77	77	77	77	77	78	78	78																-
	5	2017	ARMY	1,229	-	1,229	-	-	-	-	-	-	-	-	94	94	94	94	94	94	94	94	94	94	94	93	93		103	
15kW/400Hz (MEP1051)																														
	6	2016	ARMY	62	20	42	5	5	5	5	5	5	6	6																-
	7	2017	ARMY	54	-	54	-	-	-	-	-	-	-	-	5	5	5	5	5	5	4	4	4	4	4	4	4			-
15kW/60Hz (MEP1050)																														
	8	2016	ARMY	38	12	26	3	3	3	3	3	3	4	4																-
	9	2017	ARMY	40	-	40	-	-	-	-	-	-	-	-	3	3	3	3	3	3	3	3	4	4	4	4	4			-
30kW/400Hz (MEP1061)																														
	10	2016	ARMY	2	2	-																								-
60kW/400Hz (MEP1071)																														
	11	2016	ARMY	25	8	17	2	2	2	2	2	2	2	3																-
60kW/60Hz (MEP1070)																														
	12	2017	ARMY	50	-	50	-	-	-	-	-	-	-	-	4	4	4	4	4	4	4	4	4	4	4	5	5			-
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P

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<b>Exhibit P-21, Production Schedule:</b> PB 2017 Army		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 60		<b>P-1 Line Item Number / Title:</b> MA9800 / Generators And Associated Equip
		<b>Item Number / Title [DODIC]:</b> R51050 / Advanced Medium Mobile Power Systems (AMMPS)

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2017	1-8-5 For 2017	MAX For 2017	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	CUMMINS POWER GENERATION; INC - Minneapolis, MN	1,500	3,000	4,800	6	4	12	16	-	-	-	-
2	TBD - TBD	1,500	3,000	4,800	6	4	12	16	-	-	-	-
3	CUMMINS POWER GENERATION; INC - Minneapolis, MN	1,500	3,000	4,800	6	4	12	16	-	-	-	-
4	CUMMINS POWER GENERATION; INC - Minneapolis, MN	1,500	3,000	4,800	6	4	12	16	-	-	-	-
5	TBD - TBD	1,500	3,000	4,800	6	4	12	16	-	-	-	-
6	CUMMINS POWER GENERATION; INC - Minneapolis, MN	1,500	3,000	4,800	6	4	12	16	-	-	-	-
7	TBD - TBD	1,500	3,000	4,800	6	4	12	16	-	-	-	-
8	CUMMINS POWER GENERATION; INC - Minneapolis, MN	1,500	3,000	4,800	6	4	12	16	-	-	-	-
9	TBD - TBD	1,500	3,000	4,800	6	4	12	16	-	-	-	-
10	CUMMINS POWER GENERATION; INC - Minneapolis, MN	1,500	3,000	4,800	6	4	12	16	-	-	-	-
11	CUMMINS POWER GENERATION; INC - Minneapolis, MN	1,500	3,000	4,800	6	4	12	16	-	-	-	-
12	TBD - TBD	1,500	3,000	4,800	6	4	12	16	-	-	-	-

"A" in the Delivery Schedule indicates the Contract Award Date.

**Note:** Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 60	<b>P-1 Line Item Number / Title:</b> MA9800 / Generators And Associated Equip	<b>Item Number / Title [DODIC]:</b> R59210 / Power Units/Mounted (AMMPS)

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>
Procurement Quantity (Units in Each)	-	-	1,007	481	139	620
Gross/Weapon System Cost (\$ in Millions)	-	-	53.509	30.087	5.753	35.840
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	-	53.509	30.087	5.753	35.840
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	-	-	<b>53.509</b>	<b>30.087</b>	<b>5.753</b>	<b>35.840</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	53.137	62.551	41.388	57.806

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

<b>Cost Elements</b>	<b>Prior Years</b>			<b>FY 2015</b>			<b>FY 2016</b>			<b>FY 2017 Base</b>			<b>FY 2017 OCO</b>			<b>FY 2017 Total</b>		
	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>
<b>Flyaway Cost</b>																		
<b>Recurring Cost</b>																		
1. Engineering Support	-	-	-	-	-	-	-	-	1.522	-	-	1.674	-	-	-	-	-	1.674
2. Engineering Change Orders	-	-	-	-	-	-	-	-	0.020	-	-	1.500	-	-	-	-	-	1.500
3. Testing	-	-	-	-	-	-	-	-	8.500	-	-	0.999	-	-	-	-	-	0.999
4. System Fielding Support	-	-	-	-	-	-	-	-	1.569	-	-	1.726	-	-	-	-	-	1.726
5. System Assessment	-	-	-	-	-	-	-	-	0.230	-	-	0.400	-	-	-	-	-	0.400
6. Logistics Support	-	-	-	-	-	-	-	-	1.050	-	-	1.155	-	-	-	-	-	1.155
7. Data	-	-	-	-	-	-	-	-	0.192	-	-	0.366	-	-	-	-	-	0.366
8. PM Management Support	-	-	-	-	-	-	-	-	1.745	-	-	1.918	-	-	-	-	-	1.918
PP3001, two 5kW 50/60Hz, LTT <sup>(†)</sup>	-	-	-	-	-	-	54.670	52	2.843	55.760	60	3.346	55.760	20	1.116	55.760	80	4.461
PP3101, two 5kW 50/60Hz, M200A1 <sup>(†)</sup>	-	-	-	-	-	-	55.800	17	0.949	-	-	-	-	-	-	-	-	-
PP3102, two 10kW 50/60Hz <sup>(†)</sup>	-	-	-	-	-	-	60.331	33	1.991	61.535	30	1.846	61.535	5	0.308	61.535	35	2.154
PP3105, two 30kW 50/60Hz <sup>(†)</sup>	-	-	-	-	-	-	71.883	33	2.372	72.540	30	2.176	72.540	10	0.726	72.540	40	2.902

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 60	<b>P-1 Line Item Number / Title:</b> MA9800 / Generators And Associated Equip	<b>Item Number / Title [DODIC]:</b> R59210 / Power Units/Mounted (AMMPS)
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :		<b>MDAP/MAIS Code:</b>

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
PP3106, two 60kW 50/60Hz <sup>(†)</sup>	-	-	-	-	-	-	77.389	5	0.387	86.643	1	0.087	-	-	-	86.643	1	0.087
PU2001, 5kW 50/60Hz <sup>(†)</sup>	-	-	-	-	-	-	29.020	74	2.147	29.597	70	2.072	29.597	25	0.740	29.597	95	2.812
PP3003, two 15kW 50/60Hz <sup>(†)</sup>	-	-	-	-	-	-	61.972	67	4.152	63.209	20	1.264	63.209	5	0.317	63.209	25	1.580
PU2002, 10kW 50/60Hz <sup>(†)</sup>	-	-	-	-	-	-	28.026	210	5.885	30.724	90	2.765	30.724	33	1.014	30.724	123	3.779
PU2012, 10kW 400Hz <sup>(†)</sup>	-	-	-	-	-	-	32.854	13	0.427	-	-	-	-	-	-	-	-	-
PU2111, 15kW 400Hz <sup>(†)</sup>	-	-	-	-	-	-	34.591	75	2.594	-	-	-	-	-	-	-	-	-
PU2003, 15kW 50/60Hz, LTT <sup>(†)</sup>	-	-	-	-	-	-	32.156	175	5.627	-	-	-	-	-	-	-	-	-
PU2101, 15kW 50/60Hz, M200 <sup>(†)</sup>	-	-	-	-	-	-	33.014	73	2.410	33.777	39	1.317	33.777	15	0.507	33.777	54	1.824
PU2102, 30kW 50/60Hz <sup>(†)</sup>	-	-	-	-	-	-	37.141	94	3.491	37.904	78	2.957	37.904	6	0.227	37.904	84	3.184
PU2112, 30kW 400Hz <sup>(†)</sup>	-	-	-	-	-	-	39.786	14	0.557	40.579	13	0.528	40.579	5	0.203	40.579	18	0.730
PU2103, 60kW 50/60Hz <sup>(†)</sup>	-	-	-	-	-	-	39.300	67	2.633	39.848	50	1.992	39.848	15	0.598	39.848	65	2.590
PU2113, 60kW 400Hz <sup>(†)</sup>	-	-	-	-	-	-	42.788	5	0.214	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	53.509	-	-	30.087	-	-	5.753	-	-	35.840
<i>Subtotal: Flyaway Cost</i>	-	-	-	-	-	-	-	-	53.509	-	-	30.087	-	-	5.753	-	-	35.840
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	-	53.137	1,007	53.509	62.551	481	30.087	41.388	139	5.753	57.806	620	35.840

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	-	577	263	76	339
	Total Obligation Authority	-	30.538	16.440	3.132	19.572
ANG	Quantity	-	324	161	45	206
	Total Obligation Authority	-	17.361	10.020	1.845	11.865

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<b>Exhibit P-5, Cost Analysis:</b> PB 2017 Army		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 60	<b>P-1 Line Item Number / Title:</b> MA9800 / Generators And Associated Equip	<b>Item Number / Title [DODIC]:</b> R59210 / Power Units/Mounted (AMMPS)

**ID Code** (A=Service Ready, B=Not Service Ready) : \_\_\_\_\_ **MDAP/MAIS Code:** \_\_\_\_\_

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
AR	Quantity	-	106	57	18	75
	Total Obligation Authority	-	5.610	3.627	0.776	4.403
<b>Total:</b>	<b>Quantity</b>	-	<b>1,007</b>	<b>481</b>	<b>139</b>	<b>620</b>
<b>Secondary Distribution</b>	<b>Total Obligation Authority</b>	-	<b>53.509</b>	<b>30.087</b>	<b>5.753</b>	<b>35.840</b>

(t) indicates the presence of a P-5a



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Exhibit P-5a, Procurement History and Planning: PB 2017 Army								Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 03 / 60			P-1 Line Item Number / Title: MA9800 / Generators And Associated Equip					Item Number / Title [DODIC]: R59210 / Power Units/Mounted (AMMPS)				
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$ K)	Specs Avail Now?	Date Revision Available	RFP Issue Date
PP3001, two 5kW 50/60Hz, LTT <sup>(†)</sup>		2016	CUMMINS POWER GENERATION; INC / Minneapolis, MN	C / FP	ACC-APG, Belvoir	Sep 2016	Jun 2017	52	54.670	Y		
PP3001, two 5kW 50/60Hz, LTT <sup>(†)</sup>		2017	TBD / TBD	C / FP	ACC-APG, Belvoir	Jan 2017	Jun 2018	80	55.760	Y		
PP3101, two 5kW 50/60Hz, M200A1 <sup>(†)</sup>		2016	CUMMINS POWER GENERATION; INC / Minneapolis, MN	C / FP	ACC-APG, Belvoir	Sep 2016	Jun 2017	17	55.800	Y		
PP3102, two 10kW 50/60Hz <sup>(†)</sup>		2016	CUMMINS POWER GENERATION; INC / Minneapolis, MN	C / FP	ACC-APG, Belvoir	Sep 2016	Jun 2017	33	60.331	Y		
PP3102, two 10kW 50/60Hz <sup>(†)</sup>		2017	TBD / TBD	C / FP	ACC-APG, Belvoir	Jan 2017	Jun 2018	35	61.535	Y		
PP3105, two 30kW 50/60Hz <sup>(†)</sup>		2016	CUMMINS POWER GENERATION; INC / Minneapolis, MN	C / FP	ACC-APG, Belvoir	Sep 2016	Jun 2017	33	71.883	Y		
PP3105, two 30kW 50/60Hz <sup>(†)</sup>		2017	TBD / TBD	C / FP	ACC-APG, Belvoir	Jan 2017	Jun 2018	40	72.540	Y		
PP3106, two 60kW 50/60Hz <sup>(†)</sup>		2016	CUMMINS POWER GENERATION; INC / Minneapolis, MN	C / FP	ACC-APG, Belvoir	Sep 2016	Jun 2017	5	77.389	Y		
PP3106, two 60kW 50/60Hz <sup>(†)</sup>		2017	TBD / TBD	C / FP	ACC-APG, Belvoir	Jan 2017	Jun 2018	1	86.643	Y		
PU2001, 5kW 50/60Hz <sup>(†)</sup>		2016	CUMMINS POWER GENERATION; INC / Minneapolis, MN	C / FP	ACC-APG, Belvoir	Sep 2016	Jun 2017	74	29.020	Y		
PU2001, 5kW 50/60Hz <sup>(†)</sup>		2017	TBD / TBD	C / FP	ACC-APG, Belvoir	Jan 2017	Jun 2018	95	29.597	Y		
PP3003, two 15kW 50/60Hz <sup>(†)</sup>		2016	CUMMINS POWER GENERATION; INC / Minneapolis, MN	C / FP	ACC-APG, Belvoir	Sep 2016	Jun 2017	67	61.972	Y		
PP3003, two 15kW 50/60Hz <sup>(†)</sup>		2017	TBD / TBD	C / FP	ACC-APG, Belvoir	Jan 2017	Jun 2018	25	63.209	Y		
PU2002, 10kW 50/60Hz <sup>(†)</sup>		2016	CUMMINS POWER GENERATION; INC / Minneapolis, MN	C / FP	ACC-APG, Belvoir	Sep 2016	Jun 2017	210	28.026	Y		
PU2002, 10kW 50/60Hz <sup>(†)</sup>		2017	TBD / TBD	C / FP	ACC-APG, Belvoir	Jan 2017	Jun 2018	123	30.724	Y		
PU2012, 10kW 400Hz <sup>(†)</sup>		2016	CUMMINS POWER GENERATION; INC / Minneapolis, MN	C / FP	ACC-APG, Belvoir	Sep 2016	Jun 2017	13	32.854	Y		
PU2111, 15kW 400Hz <sup>(†)</sup>		2016	CUMMINS POWER GENERATION; INC / Minneapolis, MN	C / FP	ACC-APG, Belvoir	Sep 2016	Jun 2017	75	34.591	Y		
PU2003, 15kW 50/60Hz, LTT <sup>(†)</sup>		2016	CUMMINS POWER GENERATION; INC / Minneapolis, MN	C / FP	ACC-APG, Belvoir	Sep 2016	Jun 2017	175	32.156	Y		
PU2101, 15kW 50/60Hz, M200 <sup>(†)</sup>		2016	CUMMINS POWER GENERATION; INC / Minneapolis, MN	C / FP	ACC-APG, Belvoir	Sep 2016	Jun 2017	73	33.014	Y		
PU2101, 15kW 50/60Hz, M200 <sup>(†)</sup>		2017	TBD / TBD	C / FP	ACC-APG, Belvoir	Jan 2017	Jun 2018	54	33.777	Y		
PU2102, 30kW 50/60Hz <sup>(†)</sup>		2016	CUMMINS POWER GENERATION; INC / Minneapolis, MN	C / FP	ACC-APG, Belvoir	Sep 2016	Jun 2017	94	37.141	Y		

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<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2017 Army							<b>Date:</b> February 2016					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 60			<b>P-1 Line Item Number / Title:</b> MA9800 / Generators And Associated Equip				<b>Item Number / Title [DODIC]:</b> R59210 / Power Units/Mounted (AMMPS)					

Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
PU2102, 30kW 50/60Hz <sup>(†)</sup>		2017	TBD / TBD	C / FP	ACC-APG, Belvoir	Jan 2017	Jun 2018	84	37.904	Y		
PU2112, 30kW 400Hz <sup>(†)</sup>		2016	CUMMINS POWER GENERATION; INC / Minneapolis, MN	C / FP	ACC-APG, Belvoir	Sep 2016	Jun 2017	14	39.786	Y		
PU2112, 30kW 400Hz <sup>(†)</sup>		2017	TBD / TBD	C / FP	ACC-APG, Belvoir	Jan 2017	Jun 2018	18	40.579	Y		
PU2103, 60kW 50/60Hz <sup>(†)</sup>		2016	CUMMINS POWER GENERATION; INC / Minneapolis, MN	C / FP	ACC-APG, Belvoir	Sep 2016	Jun 2017	67	39.300	Y		
PU2103, 60kW 50/60Hz <sup>(†)</sup>		2017	TBD / TBD	C / FP	ACC-APG, Belvoir	Jan 2017	Jun 2018	65	39.848	Y		
PU2113, 60kW 400Hz <sup>(†)</sup>		2016	CUMMINS POWER GENERATION; INC / Minneapolis, MN	C / FP	ACC-APG, Belvoir	Sep 2016	Jun 2017	5	42.788	Y		

<sup>(†)</sup> indicates the presence of a P-21



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<b>Exhibit P-21, Production Schedule:</b> PB 2017 Army															<b>Date:</b> February 2016									
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 60										<b>P-1 Line Item Number / Title:</b> MA9800 / Generators And Associated Equip										<b>Item Number / Title [DODIC]:</b> R59210 / Power Units/Mounted (AMMPS)				

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2016														Fiscal Year 2017										BALANCE						
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2015	BAL DUE AS OF 1 OCT	Calendar Year 2016														Calendar Year 2017															
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P					
PU2102, 30kW 50/60Hz																																				
	21	2016	ARMY	94	-	94													A	-	-	-	-	-	-	-	-	-	-	7	7	8	8	64		
	22	2017	ARMY	84	-	84																			A	-	-	-	-	-	-	-	-	-	-	84
PU2112, 30kW 400Hz																																				
	23	2016	ARMY	14	-	14													A	-	-	-	-	-	-	-	-	-	1	1	1	1	10			
	24	2017	ARMY	18	-	18																		A	-	-	-	-	-	-	-	-	-	-	18	
PU2103, 60kW 50/60Hz																																				
	25	2016	ARMY	67	-	67													A	-	-	-	-	-	-	-	-	-	5	5	5	5	47			
	26	2017	ARMY	65	-	65																		A	-	-	-	-	-	-	-	-	-	-	65	
PU2113, 60kW 400Hz																																				
	27	2016	ARMY	5	-	5													A	-	-	-	-	-	-	-	-	-	1	1	1	1	1			
							O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S						
							C	O	E	A	E	A	A	A	U	U	A	E	C	O	V	E	A	E	A	A	U	U	A	S						
							T	V	C	N	B	R	R	Y	N	L	G	P	T	V	C	N	B	R	R	Y	N	L	G	P						

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Exhibit P-21, Production Schedule: PB 2017 Army																								Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity:						P-1 Line Item Number / Title:										Item Number / Title [DODIC]:													
2035A / 03 / 60						MA9800 / Generators And Associated Equip										R59210 / Power Units/Mounted (AMMPS)													
Cost Elements (Units in Each)						Fiscal Year 2018										Fiscal Year 2019								BALANCE					
O C O #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2017	BAL DUE AS OF 1 OCT	Calendar Year 2018										Calendar Year 2019												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B		M A R	A P R	M A Y	J U N	J U L
PP3001, two 5kW 50/60Hz, LTT																													
1	2016	ARMY	52	20	32	4	4	4	4	4	4	4	4																-
2	2017	ARMY	80	-	80	-	-	-	-	-	-	-	-	7	7	7	7	7	7	7	7	6	6	6	6				-
PP3101, two 5kW 50/60Hz, M200A1																													
3	2016	ARMY	17	4	13	1	1	1	2	2	2	2	2																-
PP3102, two 10kW 50/60Hz																													
4	2016	ARMY	33	12	21	3	3	3	3	3	2	2	2																-
5	2017	ARMY	35	-	35	-	-	-	-	-	-	-	-	3	3	3	3	3	3	3	3	3	3	3	3	2			-
PP3105, two 30kW 50/60Hz																													
6	2016	ARMY	33	12	21	3	3	3	3	3	2	2	2																-
7	2017	ARMY	40	-	40	-	-	-	-	-	-	-	-	4	4	4	4	3	3	3	3	3	3	3	3	3			-
PP3106, two 60kW 50/60Hz																													
8	2016	ARMY	5	4	1	1																							-
9	2017	ARMY	1	-	1	-	-	-	-	-	-	-	-	1															-
PU2001, 5kW 50/60Hz																													
10	2016	ARMY	74	26	48	6	6	6	6	6	6	6	6																-
11	2017	ARMY	95	-	95	-	-	-	-	-	-	-	-	8	8	8	8	8	8	8	8	8	8	8	8	8	7		-
PP3003, two 15kW 50/60Hz																													
12	2016	ARMY	67	20	47	5	6	6	6	6	6	6	6																-
13	2017	ARMY	25	-	25	-	-	-	-	-	-	-	-	2	2	2	2	2	2	2	2	2	2	2	2	3			-
PU2002, 10kW 50/60Hz																													
14	2016	ARMY	210	68	142	17	17	18	18	18	18	18	18																-
15	2017	ARMY	123	-	123	-	-	-	-	-	-	-	-	10	10	10	10	10	10	10	10	10	10	11	11	11			-
PU2012, 10kW 400Hz																													
16	2016	ARMY	13	4	9	1	1	1	1	1	1	1	2																-
PU2111, 15kW 400Hz																													
17	2016	ARMY	75	24	51	6	6	6	6	6	7	7	7																-
PU2003, 15kW 50/60Hz, LTT																													
18	2016	ARMY	175	56	119	14	15	15	15	15	15	15	15																-
PU2101, 15kW 50/60Hz, M200																													
19	2016	ARMY	73	25	48	6	6	6	6	6	6	6	6																-
20	2017	ARMY	54	-	54	-	-	-	-	-	-	-	-	4	4	4	4	4	4	5	5	5	5	5	5				-
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P

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<b>Exhibit P-21, Production Schedule:</b> PB 2017 Army															<b>Date:</b> February 2016														
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 60										<b>P-1 Line Item Number / Title:</b> MA9800 / Generators And Associated Equip										<b>Item Number / Title [DODIC]:</b> R59210 / Power Units/Mounted (AMMPS)									

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2018														Fiscal Year 2019														BALANCE	
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2017	BAL DUE AS OF 1 OCT	Calendar Year 2018														Calendar Year 2019														
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					
PU2102, 30kW 50/60Hz																																			
	21	2016	ARMY	94	30	64	8	8	8	8	8	8	8	8															-						
	22	2017	ARMY	84	-	84	-	-	-	-	-	-	-	-	7	7	7	7	7	7	7	7	7	7	7	7	7	7	-						
PU2112, 30kW 400Hz																																			
	23	2016	ARMY	14	4	10	1	1	1	1	1	1	2	2															-						
	24	2017	ARMY	18	-	18	-	-	-	-	-	-	-	-	2	2	2	2	2	2	1	1	1	1	1	1	1	-							
PU2103, 60kW 50/60Hz																																			
	25	2016	ARMY	67	20	47	5	6	6	6	6	6	6	6															-						
	26	2017	ARMY	65	-	65	-	-	-	-	-	-	-	-	6	6	6	6	6	6	5	5	5	5	5	5	5	5	-						
PU2113, 60kW 400Hz																																			
	27	2016	ARMY	5	4	1	1																						-						
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					

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<b>Exhibit P-21, Production Schedule:</b> PB 2017 Army		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 60		<b>P-1 Line Item Number / Title:</b> MA9800 / Generators And Associated Equip
		<b>Item Number / Title [DODIC]:</b> R59210 / Power Units/Mounted (AMMPS)

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2017	1-8-5 For 2017	MAX For 2017	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	CUMMINS POWER GENERATION; INC - Minneapolis, MN	500	1,400	2,800	4	3	12	15	-	-	-	-
2	TBD - TBD	500	1,400	2,800	4	3	12	15	-	-	-	-
3	CUMMINS POWER GENERATION; INC - Minneapolis, MN	500	1,400	2,800	4	3	12	15	-	-	-	-
4	CUMMINS POWER GENERATION; INC - Minneapolis, MN	500	1,400	2,800	4	3	12	15	-	-	-	-
5	TBD - TBD	500	1,400	2,800	4	3	12	15	-	-	-	-
6	CUMMINS POWER GENERATION; INC - Minneapolis, MN	500	1,400	2,800	4	3	12	15	-	-	-	-
7	TBD - TBD	500	1,400	2,800	4	3	12	15	-	-	-	-
8	CUMMINS POWER GENERATION; INC - Minneapolis, MN	500	1,400	2,800	4	3	12	15	-	-	-	-
9	TBD - TBD	500	1,400	2,800	4	3	12	15	-	-	-	-
10	CUMMINS POWER GENERATION; INC - Minneapolis, MN	500	1,400	2,800	4	3	12	15	-	-	-	-
11	TBD - TBD	500	1,400	2,800	4	3	12	15	-	-	-	-
12	CUMMINS POWER GENERATION; INC - Minneapolis, MN	500	1,400	2,800	4	3	12	15	-	-	-	-
13	TBD - TBD	500	1,400	2,800	4	3	12	15	-	-	-	-
14	CUMMINS POWER GENERATION; INC - Minneapolis, MN	500	1,400	2,800	4	3	12	15	-	-	-	-
15	TBD - TBD	500	1,400	2,800	4	3	12	15	-	-	-	-
16	CUMMINS POWER GENERATION; INC - Minneapolis, MN	500	1,400	2,800	4	3	12	15	-	-	-	-
17	CUMMINS POWER GENERATION; INC - Minneapolis, MN	500	1,400	2,800	4	3	12	15	-	-	-	-

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<b>Exhibit P-21, Production Schedule:</b> PB 2017 Army		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 60		<b>P-1 Line Item Number / Title:</b> MA9800 / Generators And Associated Equip
		<b>Item Number / Title [DODIC]:</b> R59210 / Power Units/Mounted (AMMPS)

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2017	1-8-5 For 2017	MAX For 2017	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
18	CUMMINS POWER GENERATION; INC - Minneapolis, MN	500	1,400	2,800	4	3	12	15	-	-	-	-
19	CUMMINS POWER GENERATION; INC - Minneapolis, MN	500	1,400	2,800	4	3	12	15	-	-	-	-
20	TBD - TBD	500	1,400	2,800	4	3	12	15	-	-	-	-
21	CUMMINS POWER GENERATION; INC - Minneapolis, MN	500	1,400	2,800	4	3	12	15	-	-	-	-
22	TBD - TBD	500	1,400	2,800	4	3	12	15	-	-	-	-
23	CUMMINS POWER GENERATION; INC - Minneapolis, MN	500	1,400	2,800	4	3	12	15	-	-	-	-
24	TBD - TBD	500	1,400	2,800	4	3	12	15	-	-	-	-
25	CUMMINS POWER GENERATION; INC - Minneapolis, MN	500	1,400	2,800	4	3	12	15	-	-	-	-
26	TBD - TBD	500	1,400	2,800	4	3	12	15	-	-	-	-
27	CUMMINS POWER GENERATION; INC - Minneapolis, MN	500	1,400	2,800	4	3	12	15	-	-	-	-

"A" in the Delivery Schedule indicates the Contract Award Date.

**Note:** Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).



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<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>					<b>Date:</b> February 2016				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 60			<b>P-1 Line Item Number / Title:</b> MA9800 / Generators And Associated Equip			<b>Item Number / Title [DODIC]:</b> R61510 / Large Advanced Mobile Power			
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :					<b>MDAP/MAIS Code:</b>				
<b>Resource Summary</b>			<b>Prior Years</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>	
Procurement Quantity (Units in Each)			-	-	292	129	-	129	
Gross/Weapon System Cost (\$ in Millions)			-	-	25.380	15.328	-	15.328	
Less PY Advance Procurement (\$ in Millions)			-	-	-	-	-	-	
Net Procurement (P-1) (\$ in Millions)			-	-	25.380	15.328	-	15.328	
Plus CY Advance Procurement (\$ in Millions)			-	-	-	-	-	-	
<b>Total Obligation Authority (\$ in Millions)</b>			-	-	<b>25.380</b>	<b>15.328</b>	-	<b>15.328</b>	
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>									
Initial Spares (\$ in Millions)			-	-	-	-	-	-	
Gross/Weapon System Unit Cost (\$ in Thousands)			-	-	86.918	118.822	-	118.822	

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
1. Engineering Support	-	-	-	-	-	-	-	-	1.134	-	-	1.185	-	-	-	-	-	1.185
2. Engineering Change Orders	-	-	-	-	-	-	-	-	1.019	-	-	0.104	-	-	-	-	-	0.104
3. Testing	-	-	-	-	-	-	-	-	1.019	-	-	0.104	-	-	-	-	-	0.104
4. System Fielding Support	-	-	-	-	-	-	-	-	0.746	-	-	0.766	-	-	-	-	-	0.766
5. Systems Assessment	-	-	-	-	-	-	-	-	0.110	-	-	0.113	-	-	-	-	-	0.113
6. Logistics Support	-	-	-	-	-	-	-	-	1.037	-	-	1.065	-	-	-	-	-	1.065
7. Data	-	-	-	-	-	-	-	-	0.102	-	-	0.104	-	-	-	-	-	0.104
8. PM Management Support	-	-	-	-	-	-	-	-	1.367	-	-	1.237	-	-	-	-	-	1.237
LAMPS 100kW Skid <sup>(†)</sup>	-	-	-	-	-	-	73.422	41	3.010	85.217	15	1.278	-	-	-	85.217	15	1.278
LAMPS 100kW Power Unit <sup>(†)</sup>	-	-	-	-	-	-	89.898	100	8.990	102.286	69	7.058	-	-	-	102.286	69	7.058
LAMPS 200kW Skid <sup>(†)</sup>	-	-	-	-	-	-	102.750	4	0.411	-	-	-	-	-	-	-	-	-
LAMPS 200kW Power Unit <sup>(†)</sup>	-	-	-	-	-	-	107.500	3	0.323	-	-	-	-	-	-	-	-	-
LAMPS PDU <sup>(†)</sup>	-	-	-	-	-	-	42.450	144	6.113	51.422	45	2.314	-	-	-	51.422	45	2.314
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	25.380	-	-	15.328	-	-	-	-	-	15.328
<i>Subtotal: Flyaway Cost</i>	-	-	-	-	-	-	-	-	25.380	-	-	15.328	-	-	-	-	-	15.328

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<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>												<b>Date:</b> February 2016					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 60						<b>P-1 Line Item Number / Title:</b> MA9800 / Generators And Associated Equip						<b>Item Number / Title [DODIC]:</b> R61510 / Large Advanced Mobile Power					
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :												<b>MDAP/MAIS Code:</b>					

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Gross/Weapon System Cost	-	-	-	-	-	-	86.918	292	25.380	118.822	129	15.328	-	-	-	118.822	129	15.328

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	-	148	68	-	68
	Total Obligation Authority	-	13.451	8.035	-	8.035
AR	Quantity	-	144	61	-	61
	Total Obligation Authority	-	11.929	7.293	-	7.293
<b>Total:</b>	<b>Quantity</b>	-	<b>292</b>	<b>129</b>	-	<b>129</b>
<b>Secondary Distribution</b>	<b>Total Obligation Authority</b>	-	<b>25.380</b>	<b>15.328</b>	-	<b>15.328</b>

(t) indicates the presence of a P-5a

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**Exhibit P-5a, Procurement History and Planning: PB 2017 Army** **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 60	<b>P-1 Line Item Number / Title:</b> MA9800 / Generators And Associated Equip	<b>Item Number / Title [DODIC]:</b> R61510 / Large Advanced Mobile Power
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Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
LAMPS 100kW Skid <sup>(†)</sup>		2016	L-3 Communications Westwood Co / Tulsa	C / FP	ACC-APG, Belvoir	Sep 2016	Jul 2017	41	73.422	Y		
LAMPS 100kW Skid <sup>(†)</sup>		2017	L-3 Communications Westwood Co / Tulsa	C / FP	ACC-APG, Belvoir	Jan 2017	Jul 2018	15	85.217	Y		
LAMPS 100kW Power Unit <sup>(†)</sup>		2016	L-3 Communications Westwood Co / Tulsa	C / FP	ACC-APG, Belvoir	Sep 2016	Jul 2017	100	89.898	Y		
LAMPS 100kW Power Unit <sup>(†)</sup>		2017	L-3 Communications Westwood Co / Tulsa	C / FP	ACC-APG, Belvoir	Jan 2017	Jul 2018	69	102.286	Y		
LAMPS 200kW Skid <sup>(†)</sup>		2016	L-3 Communications Westwood Co / Tulsa	C / FP	ACC-APG, Belvoir	Sep 2016	Jul 2017	4	102.750	Y		
LAMPS 200kW Power Unit <sup>(†)</sup>		2016	L-3 Communications Westwood Co / Tulsa	C / FP	ACC-APG, Belvoir	Sep 2016	Jul 2017	3	107.500	Y		
LAMPS PDU <sup>(†)</sup>		2016	L-3 Communications Westwood Co / Tulsa	C / FP	ACC-APG, Belvoir	Sep 2016	Jul 2017	144	42.450	Y		
LAMPS PDU <sup>(†)</sup>		2017	L-3 Communications Westwood Co / Tulsa	C / FP	ACC-APG, Belvoir	Jan 2017	Jul 2018	45	51.422	Y		

<sup>(†)</sup> indicates the presence of a P-21

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**Exhibit P-21, Production Schedule:** PB 2017 Army **Date:** February 2016

**Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 03 / 60 **P-1 Line Item Number / Title:** MA9800 / Generators And Associated Equip **Item Number / Title [DODIC]:** R61510 / Large Advanced Mobile Power

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2016																Fiscal Year 2017												B A L A N C E					
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2015	BAL DUE AS OF 1 OCT	Calendar Year 2016																Calendar Year 2017																
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P									
LAMPS 100kW Skid																																							
	1	2016	ARMY	41	-	41													A	-															4	4	4	29	
	1	2017	ARMY	15	-	15																A	-														15		
LAMPS 100kW Power Unit																																							
	2	2016	ARMY	100	-	100													A	-														9	9	9	73		
	2	2017	ARMY	69	-	69															A	-															69		
LAMPS 200kW Skid																																							
	3	2016	ARMY	4	-	4													A	-															1	1	1	1	
LAMPS 200kW Power Unit																																							
	4	2016	ARMY	3	-	3													A	-																1	1	1	-
LAMPS PDU																																							
	5	2016	ARMY	144	-	144													A	-																12	12	12	108
	5	2017	ARMY	45	-	45																A	-															45	
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P									

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**Exhibit P-21, Production Schedule: PB 2017 Army** **Date:** February 2016

**Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 03 / 60 **P-1 Line Item Number / Title:** MA9800 / Generators And Associated Equip **Item Number / Title [DODIC]:** R61510 / Large Advanced Mobile Power

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2018												Fiscal Year 2019												BALANCE	
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2017	BAL DUE AS OF 1 OCT	Calendar Year 2018												Calendar Year 2019												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P
LAMPS 100kW Skid																															
	1	2016	ARMY	41	12	29	4	4	3	3	3	3	3	3	3														-		
	1	2017	ARMY	15	-	15	-	-	-	-	-	-	-	-	-	1	1	1	1	1	1	1	1	1	2	2	2		-		
LAMPS 100kW Power Unit																															
	2	2016	ARMY	100	27	73	9	8	8	8	8	8	8	8	8														-		
	2	2017	ARMY	69	-	69	-	-	-	-	-	-	-	-	-	6	6	6	6	6	6	6	6	5	5	5			-		
LAMPS 200kW Skid																															
	3	2016	ARMY	4	3	1	1																						-		
LAMPS 200kW Power Unit																															
	4	2016	ARMY	3	3	-																							-		
LAMPS PDU																															
	5	2016	ARMY	144	36	108	12	12	12	12	12	12	12	12	12														-		
	5	2017	ARMY	45	-	45	-	-	-	-	-	-	-	-	-	5	5	5	5	5	5	5	5	5	5	5			-		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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**Exhibit P-21, Production Schedule:** PB 2017 Army **Date:** February 2016

**Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 03 / 60 **P-1 Line Item Number / Title:** MA9800 / Generators And Associated Equip **Item Number / Title [DODIC]:** R61510 / Large Advanced Mobile Power

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2017	1-8-5 For 2017	MAX For 2017	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	L-3 Communications Westwood Co - Tulsa	120	180	240	4	6	9	15	4	3	12	15
2	L-3 Communications Westwood Co - Tulsa	120	180	240	4	6	9	15	4	3	12	15
3	L-3 Communications Westwood Co - Tulsa	120	180	240	4	6	9	15	4	3	12	15
4	L-3 Communications Westwood Co - Tulsa	120	180	240	4	6	9	15	4	3	12	15
5	L-3 Communications Westwood Co - Tulsa	120	180	240	4	6	9	15	4	3	12	15

"A" in the Delivery Schedule indicates the Contract Award Date.

**Note:** Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

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<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 60	<b>P-1 Line Item Number / Title:</b> MA9800 / Generators And Associated Equip	<b>Item Number / Title [DODIC]:</b> R62700 / POWER UNITS/POWER PLANTS

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>
Procurement Quantity (Units in Each)	775	1,203	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	509.145	49.204	-	-	-	-
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	509.145	49.204	-	-	-	-
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	<b>509.145</b>	<b>49.204</b>	-	-	-	-

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	656.961	40.901	-	-	-	-

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

<b>Cost Elements</b>	<b>Prior Years</b>			<b>FY 2015</b>			<b>FY 2016</b>			<b>FY 2017 Base</b>			<b>FY 2017 OCO</b>			<b>FY 2017 Total</b>		
	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>
Flyaway Cost																		
Recurring Cost																		
1. Engineering Support	-	-	58.049	-	-	3.375	-	-	-	-	-	-	-	-	-	-	-	-
2. Engineering Change Orders	-	-	0.246	-	-	0.020	-	-	-	-	-	-	-	-	-	-	-	-
3. Testing	-	-	0.669	-	-	1.267	-	-	-	-	-	-	-	-	-	-	-	-
4. System Fielding Support	-	-	1.692	-	-	2.552	-	-	-	-	-	-	-	-	-	-	-	-
5. Systems Assessment	-	-	0.955	-	-	0.239	-	-	-	-	-	-	-	-	-	-	-	-
6. Logistics Support	-	-	1.429	-	-	2.584	-	-	-	-	-	-	-	-	-	-	-	-
7..Data	-	-	0.143	-	-	0.198	-	-	-	-	-	-	-	-	-	-	-	-
8. PM Management Support	-	-	401.610	-	-	4.037	-	-	-	-	-	-	-	-	-	-	-	-
PP3101, two 5kW 50/60Hz, M200A1	47.000	33	1.551	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PP3102, two 10kW 50/60Hz <sup>(†)</sup>	-	-	-	56.779	50	2.839	-	-	-	-	-	-	-	-	-	-	-	-
PP3105, two 30kW 50/60Hz	64.000	468	29.951	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PU2001, 5kW 50/60Hz <sup>(†)</sup>	38.531	143	5.510	22.807	350	7.982	-	-	-	-	-	-	-	-	-	-	-	-

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<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 60	<b>P-1 Line Item Number / Title:</b> MA9800 / Generators And Associated Equip	<b>Item Number / Title [DODIC]:</b> R62700 / POWER UNITS/POWER PLANTS
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :		<b>MDAP/MAIS Code:</b>

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
PP3003, two 15kW 50/60Hz <sup>(†)</sup>	-	-	-	61.265	51	3.125	-	-	-	-	-	-	-	-	-	-	-	-
PU2002, 10kW 50/60Hz <sup>(†)</sup>	56.027	131	7.340	26.144	390	10.196	-	-	-	-	-	-	-	-	-	-	-	-
PU2101, 15kW 50/60Hz, M200A1 <sup>(†)</sup>	-	-	-	27.533	150	4.130	-	-	-	-	-	-	-	-	-	-	-	-
PU2102, 30kW 50/60Hz <sup>(†)</sup>	-	-	-	31.415	212	6.660	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	509.145	-	-	49.204	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Flyaway Cost</i>	-	-	509.145	-	-	49.204	-	-	-	-	-	-	-	-	-	-	-	-
<b>Gross/Weapon System Cost</b>	<b>656.961</b>	<b>775</b>	<b>509.145</b>	<b>40.901</b>	<b>1,203</b>	<b>49.204</b>	-	-	-	-	-	-	-	-	-	-	-	-

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	660	-	-	-	-
	Total Obligation Authority	32.984	-	-	-	-
ANG	Quantity	409	-	-	-	-
	Total Obligation Authority	12.649	-	-	-	-
AR	Quantity	134	-	-	-	-
	Total Obligation Authority	3.571	-	-	-	-
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	<b>1,203</b>	-	-	-	-
	<b>Total Obligation Authority</b>	<b>49.204</b>	-	-	-	-

<sup>(†)</sup> indicates the presence of a P-5a



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<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2017 Army							<b>Date:</b> February 2016					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 60			<b>P-1 Line Item Number / Title:</b> MA9800 / Generators And Associated Equip				<b>Item Number / Title [DODIC]:</b> R62700 / POWER UNITS/POWER PLANTS					

Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
PP3102, two 10kW 50/60Hz <sup>(†)</sup>		2015	Cummins Power Generation, INC / Minneapolis, MN	C / FP	CECOM	Jun 2015	Nov 2015	50	56.779	Y		
PU2001, 5kW 50/60Hz <sup>(†)</sup>		2015	Cummins Power Generation, INC / Minneapolis, MN	C / FP	CECOM	Jun 2015	Nov 2015	350	22.807	Y		
PP3003, two 15kW 50/60Hz <sup>(†)</sup>		2015	Cummins Power Generation, INC / Minneapolis, MN	C / FPIF	CECOM	Jun 2015	Nov 2015	51	61.265	Y		
PU2002, 10kW 50/60Hz <sup>(†)</sup>		2015	Cummins Power Generation, INC / Minneapolis, MN	C / FP	CECOM	Jun 2015	Nov 2015	390	26.144	Y		
PU2101, 15kW 50/60Hz, M200A1 <sup>(†)</sup>		2015	Cummins Power Generation, INC / Minneapolis, MN	C / FP	CECOM	Jun 2015	Nov 2015	150	27.533	Y		
PU2102, 30kW 50/60Hz <sup>(†)</sup>		2015	Cummins Power Generation, INC / Minneapolis, MN	C / FP	CECOM	Jun 2015	Nov 2015	212	31.415	Y		

<sup>(†)</sup> indicates the presence of a P-21

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<b>Exhibit P-21, Production Schedule:</b> PB 2017 Army																				<b>Date:</b> February 2016									
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 60										<b>P-1 Line Item Number / Title:</b> MA9800 / Generators And Associated Equip										<b>Item Number / Title [DODIC]:</b> R62700 / POWER UNITS/POWER PLANTS									

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2015													Fiscal Year 2016													B A L A N C E																				
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2014	BAL DUE AS OF 1 OCT	Calendar Year 2015													Calendar Year 2016																																
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P																						
PP3102, two 10kW 50/60Hz																																																				
1		2015	ARMY	50	-	50																							A	-	-	-	-	-	4	4	4	4	4	4	4	4	4	4	4	4	4	5	5			
PU2001, 5kW 50/60Hz																																																				
Prior Years Deliveries: 143																																																				
2		2015	ARMY	350	-	350																							A	-	-	-	-	-	29	29	29	29	29	29	29	29	29	29	29	29	29	29	30	30		
PP3003, two 15kW 50/60Hz																																																				
3		2015	ARMY	51	-	51																							A	-	-	-	-	-	4	4	4	4	4	4	4	4	4	4	4	4	4	5	5	5		
PU2002, 10kW 50/60Hz																																																				
Prior Years Deliveries: 131																																																				
4		2015	ARMY	390	-	390																							A	-	-	-	-	-	32	32	32	32	32	32	32	32	32	32	32	32	32	33	33	33	33	33
PU2101, 15kW 50/60Hz, M200A1																																																				
5		2015	ARMY	150	-	150																							A	-	-	-	-	-	13	13	13	13	13	13	13	13	13	13	12	12	12	12	12	12	12	
PU2102, 30kW 50/60Hz																																																				
6		2015	ARMY	212	-	212																							A	-	-	-	-	-	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P																						

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<b>Exhibit P-21, Production Schedule:</b> PB 2017 Army															<b>Date:</b> February 2016														
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 60										<b>P-1 Line Item Number / Title:</b> MA9800 / Generators And Associated Equip										<b>Item Number / Title [DODIC]:</b> R62700 / POWER UNITS/POWER PLANTS									

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2017													Fiscal Year 2018													BALANCE				
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2016	BAL DUE AS OF 1 OCT	Calendar Year 2017													Calendar Year 2018																
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P						
PP3102, two 10kW 50/60Hz																														-						
1		2015	ARMY	50	45	5	5																													
PU2001, 5kW 50/60Hz																																				
Prior Years Deliveries: 143																																				
2		2015	ARMY	350	320	30	30																													
PP3003, two 15kW 50/60Hz																														-						
3		2015	ARMY	51	46	5	5																													
PU2002, 10kW 50/60Hz																																				
Prior Years Deliveries: 131																																				
4		2015	ARMY	390	357	33	33																													
PU2101, 15kW 50/60Hz, M200A1																																				
5		2015	ARMY	150	138	12	12																													
PU2102, 30kW 50/60Hz																																				
6		2015	ARMY	212	194	18	18																													
								O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					

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<b>Exhibit P-21, Production Schedule:</b> PB 2017 Army		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 60		<b>P-1 Line Item Number / Title:</b> MA9800 / Generators And Associated Equip
		<b>Item Number / Title [DODIC]:</b> R62700 / POWER UNITS/POWER PLANTS

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2017	1-8-5 For 2017	MAX For 2017	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	Cummins Power Generation, INC - Minneapolis, MN	500	1,400	2,800	4	9	4	13	4	8	5	13
2	Cummins Power Generation, INC - Minneapolis, MN	500	1,400	2,800	4	9	4	13	4	8	5	13
3	Cummins Power Generation, INC - Minneapolis, MN	500	1,400	2,800	4	9	4	13	4	8	5	13
4	Cummins Power Generation, INC - Minneapolis, MN	500	1,400	2,800	4	9	4	13	4	8	5	13
5	Cummins Power Generation, INC - Minneapolis, MN	500	1,400	2,800	4	9	4	13	4	8	5	13
6	Cummins Power Generation, INC - Minneapolis, MN	500	1,400	2,800	4	9	4	13	4	8	5	13

"A" in the Delivery Schedule indicates the Contract Award Date.

**Note:** Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

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<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 60	<b>P-1 Line Item Number / Title:</b> MA9800 / Generators And Associated Equip	<b>Item Number / Title [DODIC]:</b> R63510 / Small Tactical Electric Power

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	-	6.280	1.253	-	1.253
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	-	6.280	1.253	-	1.253
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	-	<b>6.280</b>	<b>1.253</b>	-	<b>1.253</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Thousands</i> )	-	-	-	-	-	-

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

<b>Cost Elements</b>	<b>Prior Years</b>			<b>FY 2015</b>			<b>FY 2016</b>			<b>FY 2017 Base</b>			<b>FY 2017 OCO</b>			<b>FY 2017 Total</b>		
	<b>Unit Cost</b> (\$ K)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ K)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ K)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ K)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ K)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ K)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)
Flyaway Cost																		
Recurring Cost																		
1. Engineering Support	-	-	-	-	-	-	-	-	1.810	-	-	-	-	-	-	-	-	-
2. Engineering Change Orders	-	-	-	-	-	-	-	-	0.991	-	-	-	-	-	-	-	-	-
7. Data	-	-	-	-	-	-	-	-	0.272	-	-	-	-	-	-	-	-	-
8. PM Management Support	-	-	-	-	-	-	-	-	3.207	-	-	1.253	-	-	-	-	-	1.253
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	6.280	-	-	1.253	-	-	-	-	-	1.253
<i>Subtotal: Flyaway Cost</i>	-	-	-	-	-	-	-	-	6.280	-	-	1.253	-	-	-	-	-	1.253
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	-	-	-	6.280	-	-	1.253	-	-	-	-	-	1.253

<b>Secondary Distribution</b>		<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	-	6.280	1.253	-	1.253
<b>Total:</b>	<b>Quantity</b>	-	-	-	-	-
<b>Secondary Distribution</b>	<b>Total Obligation Authority</b>	-	6.280	1.253	-	1.253

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**Exhibit P-40, Budget Line Item Justification:** PB 2017 Army **Date:** February 2016

**Appropriation / Budget Activity / Budget Sub Activity:**  
2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 60: Generators

**P-1 Line Item Number / Title:**  
R42501 / Tactical Electric Power Recapitalization

**ID Code** (A=Service Ready, B=Not Service Ready): **Program Elements for Code B Items:** N/A **Other Related Program Elements:** N/A

**Line Item MDAP/MAIS Code:** N/A **Item MDAP/MAIS Code(s):** N/A

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	4	66	14	14	Continuing	Continuing
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	-	11.505	7.867	-	7.867	4.436	23.407	6.437	6.567	Continuing	Continuing
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	-	11.505	7.867	-	7.867	4.436	23.407	6.437	6.567	Continuing	Continuing
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	-	<b>11.505</b>	<b>7.867</b>	-	<b>7.867</b>	<b>4.436</b>	<b>23.407</b>	<b>6.437</b>	<b>6.567</b>	<b>Continuing</b>	<b>Continuing</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost ( <i>\$ in Thousands</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Thousands</i> )	-	-	-	-	-	-	1,109.000	354.652	459.786	469.071	Continuing	Continuing

**Description:**

This effort supports the recapitalization of the MEP-PU-810A/B, Deployable Power Generation & Distribution System (DPGDS) Prime Power Unit (PPU). The DPGDS PPU is the U.S. Army's current prime power mobile electric power generating asset. The DPGDS PPU is a wheel-mounted, diesel engine driven, prime power (Type II), utility (Class 2A), Mode I unit that produces 840 kilowatts (kW), 4160 volts line-to-line at 60Hz and 700kW, 3800 volts line-to-line at 50Hz with an 0.8 power factor, lagging. The MEP-PU-810 has two variants, the MEP-PU-810A, a towed trailer configuration capable of being air transported by a C-130 aircraft, and the MEP-PU-810B, a 5th wheel configuration Department of Transportation (DOT) approved for over the road use at 55 miles per hour. Throughout the Department of Defense there are 165 'A' Models and 66 'B' Models supporting numerous missions, such as supporting the nation's Ballistic Missile Defense System.

FY 2016 and FY 2017 are first article build/test years. Upon contract award the vendor will take possession of Government Furnished Equipment first article units, three (3) each MEP-PU-810A and MEP-PU-810B, and proceed to create the Modification Work Order to Recapitalize a MEP-PU-810 A to a MEP-PU-810C and a MEP-PU-810B to a MEP-PU-810D. Upon successful completion of the MWO on the first article units, first article testing will commence. Consequently, there are no quantities listed.

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	Quantity	-	-	-	-	-	4	66	14	14
	Total Obligation Authority	-	11.505	7.867	-	7.867	4.436	23.407	6.437	6.567
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	-	-	-	-	-	<b>4</b>	<b>66</b>	<b>14</b>	<b>14</b>
	<b>Total Obligation Authority</b>	-	<b>11.505</b>	<b>7.867</b>	-	<b>7.867</b>	<b>4.436</b>	<b>23.407</b>	<b>6.437</b>	<b>6.567</b>

**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** PB 2017 Army **Date:** February 2016

**Appropriation / Budget Activity / Budget Sub Activity:**  
2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 60: Generators

**P-1 Line Item Number / Title:**  
R42501 / Tactical Electric Power Recapitalization

**ID Code** (A=Service Ready, B=Not Service Ready): **Program Elements for Code B Items:** N/A **Other Related Program Elements:** N/A

**Line Item MDAP/MAIS Code:** N/A **Item MDAP/MAIS Code(s):** N/A

Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	R42511 / RECAP of DPGDS (840k)			- / -	- / -	- / 11.505	- / 7.867	- / -	- / 7.867
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>			- / -	- / -	- / 11.505	- / 7.867	- / -	- / 7.867

\*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

**Justification:**

FY17 Base procurement dollars in the amount of \$7.867 million supports the DPGDS PPU Recapitalization. IAW Army Regulation 70-1, Army Acquisition Policy, Recapitalization is a key element in the modernization and sustainment of the Army's current force. The goals of recapitalization are to extend service life, stabilize the rate of growth of operating and support costs, improve reliability, maintainability, safety, and the efficiency of recapitalized systems. Further, recapitalization is expected to reduce the logistics footprint, as well as enhance warfighting capabilities for selected recapitalized systems. Hence, the recapitalization of the existing DPGDS PPUs is required to extend their economic useful life and to prevent a capability gap from emerging. Units currently requiring this capability include the 249th Engineer Battalion (Prime Power), the Joint Land Attack Cruise Missile Defense Elevated Netted Sensor System (JLENS), and the Missile Defense Agency/U.S. Army Space and Missile Defense Command forward based mode radar sites. This effort will streamline the logistical support requirements, capitalize on advancements in technology and afford the capability to the force for an estimated additional fifteen (15) years.

In accordance with Section 1815 of the FY2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 60	<b>P-1 Line Item Number / Title:</b> R42501 / Tactical Electric Power Recapitalization	<b>Item Number / Title [DODIC]:</b> R42511 / RECAP of DPGDS (840k)

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	-	11.505	7.867	-	7.867
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	-	11.505	7.867	-	7.867
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	-	<b>11.505</b>	<b>7.867</b>	-	<b>7.867</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Thousands</i> )	-	-	-	-	-	-

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

<b>Cost Elements</b>	<b>Prior Years</b>			<b>FY 2015</b>			<b>FY 2016</b>			<b>FY 2017 Base</b>			<b>FY 2017 OCO</b>			<b>FY 2017 Total</b>		
	<b>Unit Cost</b> (\$ K)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ K)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ K)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ K)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ K)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ K)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)
Flyaway Cost																		
Recurring Cost																		
Engineering Support	-	-	-	-	-	-	-	-	3.800	-	-	1.951	-	-	-	-	-	1.951
Engineering Change Orders	-	-	-	-	-	-	-	-	1.000	-	-	0.050	-	-	-	-	-	0.050
Testing	-	-	-	-	-	-	-	-	0.500	-	-	4.872	-	-	-	-	-	4.872
Logistics Support	-	-	-	-	-	-	-	-	3.800	-	-	0.500	-	-	-	-	-	0.500
Data	-	-	-	-	-	-	-	-	0.750	-	-	0.050	-	-	-	-	-	0.050
PM Management Support	-	-	-	-	-	-	-	-	1.655	-	-	0.444	-	-	-	-	-	0.444
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	11.505	-	-	7.867	-	-	-	-	-	7.867
<i>Subtotal: Flyaway Cost</i>	-	-	-	-	-	-	-	-	11.505	-	-	7.867	-	-	-	-	-	7.867
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	-	-	-	11.505	-	-	7.867	-	-	-	-	-	7.867

<b>Secondary Distribution</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>
Army					
Quantity	-	-	-	-	-
Total Obligation Authority	-	11.505	7.867	-	7.867
<b>Total: Secondary Distribution</b>					
Quantity	-	-	-	-	-
Total Obligation Authority	-	11.505	7.867	-	7.867



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**Exhibit P-40, Budget Line Item Justification:** PB 2017 Army **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 65: Material Handling Equipment	<b>P-1 Line Item Number / Title:</b> G41001 / Family Of Forklifts
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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<b>Line Item MDAP/MAIS Code:</b> N/A	<b>Item MDAP/MAIS Code(s):</b> N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	157	123	278	5	8	13	172	172	163	183	Continuing	Continuing
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	43.099	14.392	27.982	2.307	0.846	3.153	17.999	18.391	17.759	20.240	Continuing	Continuing
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	43.099	14.392	27.982	2.307	0.846	3.153	17.999	18.391	17.759	20.240	Continuing	Continuing
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>43.099</b>	<b>14.392</b>	<b>27.982</b>	<b>2.307</b>	<b>0.846</b>	<b>3.153</b>	<b>17.999</b>	<b>18.391</b>	<b>17.759</b>	<b>20.240</b>	<b>Continuing</b>	<b>Continuing</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost ( <i>\$ in Thousands</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Thousands</i> )	274.516	117.008	100.655	461.400	105.750	242.538	104.645	106.924	108.951	110.601	Continuing	Continuing

**Description:**

The Family of Forklifts supports various combat, combat support, and combat service support units in the loading and unloading of palletized supplies. Currently, the forklift family consists of the Light Capability Rough Terrain Forklift (LCRTF) and the All-Terrain Lifter, Army System (ATLAS).

The Light Capability Rough Terrain Forklift (LCRTF) is used to load and unload palletized supplies including ammunition from International Standard Organization (ISO) containers and tactical vehicles. The LCRTF will move supplies across the beach and rough terrain to transfer loads from aircraft landing zones and tactical vehicles. The LCRTF mission profile is 20 hours of operations in all types of environmental conditions. The LCRTF will be employed by cargo battalions, artillery units, transportation support battalions, combat service support units and various aviation units. It will be routinely in forward deployed areas with operating forces in support of combat operations other than war. The LCRTF system is a Critical Dual Use (CDU) system enabling and supporting Defense Support to Civil Authorities (DSCA) operations (i.e. Disaster Relief). It can be transported by C-130 aircraft and external sling load via CH47D helicopter. LCRT Forklift Army Acquisition Objective (AAO): 2,776 Systems. The minimum sustainment rate is 15 systems.

The All-Terrain Lifter, Army System (ATLAS) is a family of, C-130 airplane, transportable 10,000 Pound (LB) capacity variable reach rough terrain forklifts. The ATLAS primary missions include handling all classes of supply, stuffing and un-stuffing standard Army pallets in 20 foot International Standard Organization (ISO) containers, handling break-bulk cargo and loads weighing up to 10,000 LBS on Air Force 463L pallets. It is a key component to the Army's Container Oriented Distribution System which is essential to the deployment of an Expeditionary Army and sustainment of a deployed force. The ATLAS forklift mobility capabilities support all the Army's Brigade Combat Teams and units from seven branches (Transportation, Quartermaster, Ordnance, Missile & Munitions, Engineer, Aviation and Medical). Crew survivability is being addressed in accordance with the Army's Long Term Armor Strategy (LTAS). The ATLAS is a military unique vehicle. It operates in all terrains, has cross country mobility and road speed of 23 Miles per Hour (MPH). Commercial forklifts cannot meet the military requirements nor the Key Performance Parameters (KPP) identified in the ATLAS requirements document. The ATLAS is capable of performing all mission requirements and meets EPA Tier III emissions requirements, with increased reliability and survivability. The ATLAS system is a Critical Dual Use (CDU) system enabling and supporting Defense Support to Civil Authorities (DSCA) operations (i.e. Disaster Relief). The ATLAS Army Acquisition Objective (AAO) is: 4,645. The Army has procured 4,399 Systems.

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army									
Quantity	72	184	5	8	13	65	65	61	69
Total Obligation Authority	7.129	18.336	2.307	0.846	3.153	6.640	6.808	6.575	7.494

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**Exhibit P-40, Budget Line Item Justification:** PB 2017 Army **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 65: Material Handling Equipment	<b>P-1 Line Item Number / Title:</b> G41001 / Family Of Forklifts
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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<b>Line Item MDAP/MAIS Code:</b> N/A	<b>Item MDAP/MAIS Code(s):</b> N/A
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Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
ANG	Quantity	15	47	-	-	-	42	42	40	44
	Total Obligation Authority	3.199	4.818	-	-	-	4.420	4.508	4.352	4.960
AR	Quantity	36	47	-	-	-	65	65	62	70
	Total Obligation Authority	4.064	4.828	-	-	-	6.939	7.075	6.832	7.786
<b>Total:</b>	<b>Quantity</b>	<b>123</b>	<b>278</b>	<b>5</b>	<b>8</b>	<b>13</b>	<b>172</b>	<b>172</b>	<b>163</b>	<b>183</b>
<b>Secondary Distribution</b>	<b>Total Obligation Authority</b>	<b>14.392</b>	<b>27.982</b>	<b>2.307</b>	<b>0.846</b>	<b>3.153</b>	<b>17.999</b>	<b>18.391</b>	<b>17.759</b>	<b>20.240</b>

**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** PB 2017 Army **Date:** February 2016

**Appropriation / Budget Activity / Budget Sub Activity:**  
 2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 65:  
 Material Handling Equipment **P-1 Line Item Number / Title:**  
 G41001 / Family Of Forklifts

**ID Code** (A=Service Ready, B=Not Service Ready): **Program Elements for Code B Items:** N/A **Other Related Program Elements:** N/A

**Line Item MDAP/MAIS Code:** N/A **Item MDAP/MAIS Code(s):** N/A

Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	G41002 / 5K LIGHT CAPABILITY ROUGH TERRAIN (LCRT) FORKLIFT	P-5a, P-21	A	157 / 43.099	123 / 14.392	278 / 27.982	5 / 2.307	8 / 0.846	13 / 3.153
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>			<b>157 / 43.099</b>	<b>123 / 14.392</b>	<b>278 / 27.982</b>	<b>5 / 2.307</b>	<b>8 / 0.846</b>	<b>13 / 3.153</b>

\*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

**Justification:**  
 FY 2017 Base procurement dollars in the amount of \$2.307 million will procure and field 5 LCRTF systems. The funding will also be used for all associated Program Management support costs.  
  
 The FY 2017 OCO includes \$0.846 million to support the COCOM requirement for unit equipment sets to deter potential adversaries and support the European Reassurance Initiatives. The procurements include 8 LCRTF systems.  
  
 In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

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<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 65	<b>P-1 Line Item Number / Title:</b> G41001 / Family Of Forklifts	<b>Item Number / Title [DODIC]:</b> G41002 / 5K LIGHT CAPABILITY ROUGH TERRAIN (LCRT) FORKLIFT

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>
Procurement Quantity (Units in Each)	157	123	278	5	8	13
Gross/Weapon System Cost (\$ in Millions)	43.099	14.392	27.982	2.307	0.846	3.153
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	43.099	14.392	27.982	2.307	0.846	3.153
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	<b>43.099</b>	<b>14.392</b>	<b>27.982</b>	<b>2.307</b>	<b>0.846</b>	<b>3.153</b>
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>						
Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	274.516	117.008	100.655	461.400	105.750	242.538

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

<b>Cost Elements</b>	<b>Prior Years</b>			<b>FY 2015</b>			<b>FY 2016</b>			<b>FY 2017 Base</b>			<b>FY 2017 OCO</b>			<b>FY 2017 Total</b>		
	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>
<b>Flyaway Cost</b>																		
<b>Recurring Cost</b>																		
Hardware <sup>(†)</sup>	182.000	157	28.574	85.000	146	12.410	88.000	278	24.464	90.000	5	0.450	90.000	8	0.720	90.000	13	1.170
Engineering Changes	-	-	-	-	-	-	-	-	0.266	-	-	-	-	-	-	-	-	-
System Engineering/ Program Management	-	-	2.850	-	-	0.810	-	-	0.832	-	-	1.050	-	-	-	-	-	1.050
System Test and Evaluation, Production	-	-	1.200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Data	-	-	2.400	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Support Equipment	-	-	2.400	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fielding	-	-	5.675	-	-	1.172	-	-	2.420	-	-	0.807	-	-	0.126	-	-	0.933
<i>Subtotal: Recurring Cost</i>	-	-	43.099	-	-	14.392	-	-	27.982	-	-	2.307	-	-	0.846	-	-	3.153
<i>Subtotal: Flyaway Cost</i>	-	-	43.099	-	-	14.392	-	-	27.982	-	-	2.307	-	-	0.846	-	-	3.153
<b>Gross/Weapon System Cost</b>	<b>274.516</b>	<b>157</b>	<b>43.099</b>	<b>117.008</b>	<b>123</b>	<b>14.392</b>	<b>100.655</b>	<b>278</b>	<b>27.982</b>	<b>461.400</b>	<b>5</b>	<b>2.307</b>	<b>105.750</b>	<b>8</b>	<b>0.846</b>	<b>242.538</b>	<b>13</b>	<b>3.153</b>

<b>Secondary Distribution</b>		<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>
Army	Quantity	72	184	5	8	13
	Total Obligation Authority	7.129	18.336	2.307	0.846	3.153
ANG	Quantity	15	47	-	-	-
	Total Obligation Authority	3.199	4.818	-	-	-

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis:</b> PB 2017 Army		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 65	<b>P-1 Line Item Number / Title:</b> G41001 / Family Of Forklifts	<b>Item Number / Title [DODIC]:</b> G41002 / 5K LIGHT CAPABILITY ROUGH TERRAIN (LCRT) FORKLIFT

**ID Code** (A=Service Ready, B=Not Service Ready) : A **MDAP/MAIS Code:**

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
AR	Quantity	36	47	-	-	-
	Total Obligation Authority	4.064	4.828	-	-	-
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	<b>123</b>	<b>278</b>	<b>5</b>	<b>8</b>	<b>13</b>
	<b>Total Obligation Authority</b>	<b>14.392</b>	<b>27.982</b>	<b>2.307</b>	<b>0.846</b>	<b>3.153</b>

(t) indicates the presence of a P-5a

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<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2017 Army							<b>Date:</b> February 2016				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 65			<b>P-1 Line Item Number / Title:</b> G41001 / Family Of Forklifts				<b>Item Number / Title [DODIC]:</b> G41002 / 5K LIGHT CAPABILITY ROUGH TERRAIN (LCRT) FORKLIFT				

<b>Cost Elements</b>	<b>O C O</b>	<b>FY</b>	<b>Contractor and Location</b>	<b>Method/Type or Funding Vehicle</b>	<b>Location of PCO</b>	<b>Award Date</b>	<b>Date of First Delivery</b>	<b>Qty (Each)</b>	<b>Unit Cost (\$ K)</b>	<b>Specs Avail Now?</b>	<b>Date Revision Available</b>	<b>RFP Issue Date</b>
Hardware <sup>(†)</sup>		2015	Kalmar RT Center / San Antonio	C / FFP	TACOM	Dec 2014	Sep 2015	146	85.000	Y		Mar 2011
Hardware <sup>(†)</sup>		2016	Kalmar RT Center / San Antonio	C / FFP	TACOM	Dec 2015	Aug 2016	278	88.000	Y		Mar 2011
Hardware <sup>(†)</sup>		2017	TBD / TBD	C / FFP	TACOM	Dec 2016	Sep 2017	13	90.000	N		Aug 2015

<sup>(†)</sup> indicates the presence of a P-21

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<b>Exhibit P-21, Production Schedule:</b> PB 2017 Army															<b>Date:</b> February 2016														
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 65										<b>P-1 Line Item Number / Title:</b> G41001 / Family Of Forklifts										<b>Item Number / Title [DODIC]:</b> G41002 / 5K LIGHT CAPABILITY ROUGH TERRAIN (LCRT) FORKLIFT									

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2015														Fiscal Year 2016														BALANCE	
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2014	BAL DUE AS OF 1 OCT	Calendar Year 2015														Calendar Year 2016														
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					
Hardware																																			
Prior Years Deliveries: 157																																			
	1	2015	ARMY	146	-	146		A	-	-	-	-	-	-	-	-	-	7	11	6	10	15	15	15	15	15	15	15	15	15	7		-		
	1	2016	ARMY	278	-	278															A	-	-	-	-	-	-	-	-	-	8	20	250		
	2	2017	ARMY	13	-	13																											13		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					

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<b>Exhibit P-21, Production Schedule:</b> PB 2017 Army															<b>Date:</b> February 2016														
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 65										<b>P-1 Line Item Number / Title:</b> G41001 / Family Of Forklifts										<b>Item Number / Title [DODIC]:</b> G41002 / 5K LIGHT CAPABILITY ROUGH TERRAIN (LCRT) FORKLIFT									

Cost Elements <i>(Units in Each)</i>					Fiscal Year 2017															Fiscal Year 2018															BALANCE		
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2016	BAL DUE AS OF 1 OCT	Calendar Year 2017															Calendar Year 2018															
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P							
Hardware																																					
Prior Years Deliveries: 157																																					
	1	2015	ARMY	146	146	-																															
	1	2016	ARMY	278	28	250	25	25	25	25	25	25	25	25	25																						
	2	2017	ARMY	13	-	13				A	-	-	-	-	-	-	-	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2					
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P							



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<b>Exhibit P-21, Production Schedule:</b> PB 2017 Army		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 65		<b>P-1 Line Item Number / Title:</b> G41001 / Family Of Forklifts
		<b>Item Number / Title [DODIC]:</b> G41002 / 5K LIGHT CAPABILITY ROUGH TERRAIN (LCRT) FORKLIFT

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2017	1-8-5 For 2017	MAX For 2017	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	Kalmar RT Center - San Antonio	15	35	100	-	3	25	28	-	3	8	11
2	TBD - TBD	1	17	100	-	3	8	11	-	-	-	-

"A" in the Delivery Schedule indicates the Contract Award Date.

**Note:** Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

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**Exhibit P-40, Budget Line Item Justification:** PB 2017 Army **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 70: Training Equipment	<b>P-1 Line Item Number / Title:</b> MA6600 / Combat Training Centers Support
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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<b>Line Item MDAP/MAIS Code:</b> N/A	<b>Item MDAP/MAIS Code(s):</b> N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	754	3,330	508	519	-	519	575	676	1,540	1,482	Continuing	Continuing
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	1,347.855	76.362	74.916	75.359	-	75.359	76.695	71.702	89.898	74.601	Continuing	Continuing
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	1,347.855	76.362	74.916	75.359	-	75.359	76.695	71.702	89.898	74.601	Continuing	Continuing
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>1,347.855</b>	<b>76.362</b>	<b>74.916</b>	<b>75.359</b>	<b>-</b>	<b>75.359</b>	<b>76.695</b>	<b>71.702</b>	<b>89.898</b>	<b>74.601</b>	<b>Continuing</b>	<b>Continuing</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost ( <i>\$ in Thousands</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Thousands</i> )	1,787.606	22.932	147.472	145.200	-	145.200	133.383	106.068	58.375	50.338	Continuing	Continuing

**Description:**

The Combat Training Centers (CTCs) are the Army's premiere collective training centers. The CTCs provide high-fidelity Live, Virtual and Constructive (LVC) Brigade training rotations which prepare Brigade Combat Teams, Joint partners, and supporting units to deploy in support of the Army's Sustainable Readiness Model (SRM). The CTC program supports the National Training Center (NTC), the Joint Readiness Training Center (JRTC), and the Joint Multinational Readiness Center (JMRC). The CTCs primary goal is to develop agile and adaptive leaders at the tactical, operational and strategic levels while providing BCTs the core training necessary to conduct decisive action in a dynamic operating environment.

The Instrumentation System (IS) is a communications, analysis and feedback system that provides a realistic operational environment for training the Brigade Combat Team (BCT) and below in preparation for deployment to conduct Unified Land Operations (ULO). It is comprised of voice, video, and data instrumentation subsystem networks that include software, hardware, work stations, base-station equipment, communications infrastructure, voice radios, data devices, and interfaces. The Instrumentation System provides the Combat Trainer (CT) critical situational awareness for training safety, analysis, and feedback capabilities to conduct After Action Reviews (AARs).

The Combat Training Center Military Operations on Urban Terrain Instrumentation System (CTC MOUT IS) provides instrumentation for the collection, data transfer, control, editing and presentation of training exercises including realistic battlefield effects, targetry, and night operations. The After Action Review (AAR) theater provides a multi-media environment with video replay capability to enable discussions and assessments of unit performance during exercises. Program instrumentation is fielded at the National Training Center (NTC), the Joint Readiness Training Center (JRTC), and the Joint Multination Readiness Center (JMRC).

The Combat Training Center LIVE FIRE Modernization (CTC LIVE FIRE MOD) provides Future Army System of Integrated Targets (FASIT) qualified live-fire capable targets: stationary armor targets (SAT) with accompanying battlefield effects simulators (BES); stationary infantry targets (SIT); human urban targets (HUT); double-arm SIT's; moving infantry targets (MIT); and non-FASIT qualified Aviation 3-D and Unattended Aerial Systems (UAS) targets which provide a capability for the CTCs to support the transition from Mission Rehearsal Exercise/Situational Training Exercise (MRE/ST) rotations to Unified Land Operations (ULO) against a hybrid threat.

The CTC Aviation program procures and installs instrumentation capabilities on the Light Utility Helicopter (LUH) and for the Instrumentation System (IS) to track newly fielded Light Utility Helicopters (LUH) performing Observer/Controller (OC) and Opposing Forces (OPFOR) roles at the three CTCs. The CTC Aviation program provides the capabilities to communicate with LUH organic onboard radios via the CTC ground-based Observer Controller Communications Systems (OCCS). The OPFOR capability provides a high-fidelity threat to the BLUFOR in training at the CTCs and the OC capability provides and aids the control of the CTC exercises to ultimately achieve the objective of improved and sustained readiness of the force.

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2017 Army		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 70: Training Equipment		<b>P-1 Line Item Number / Title:</b> MA6600 / Combat Training Centers Support
<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
<b>Line Item MDAP/MAIS Code:</b> N/A	<b>Item MDAP/MAIS Code(s):</b> N/A	

The OPFOR Surrogate Wheeled Vehicles (OSWV) program procures technical vehicles, unique VISMODs, and Civilian on the Battlefield Vehicles (COBVs). This capability provides for an accurate replication of OPFOR and Civilians on the Battlefield (COB) vehicle environment that rotational units must train against.

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	Quantity	3,330	508	519	-	519	575	676	1,540	1,482
	Total Obligation Authority	76.362	74.916	75.359	-	75.359	76.695	71.702	89.898	74.601
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	<b>3,330</b>	<b>508</b>	<b>519</b>	<b>-</b>	<b>519</b>	<b>575</b>	<b>676</b>	<b>1,540</b>	<b>1,482</b>
	<b>Total Obligation Authority</b>	<b>76.362</b>	<b>74.916</b>	<b>75.359</b>	<b>-</b>	<b>75.359</b>	<b>76.695</b>	<b>71.702</b>	<b>89.898</b>	<b>74.601</b>

**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** PB 2017 Army **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 70: Training Equipment	<b>P-1 Line Item Number / Title:</b> MA6600 / Combat Training Centers Support
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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<b>Line Item MDAP/MAIS Code:</b> N/A	<b>Item MDAP/MAIS Code(s):</b> N/A
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Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	MA6601 / Combat Training Centers (CTC) Support	P-5a, P-21		754 / 1,347.855	3,330 / 76.362	508 / 74.916	519 / 75.359	- / -	519 / 75.359
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>			<b>754 / 1,347.855</b>	<b>3,330 / 76.362</b>	<b>508 / 74.916</b>	<b>519 / 75.359</b>	<b>- / -</b>	<b>519 / 75.359</b>

\*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

**Justification:**

FY 2017 Base procurement dollars in the amount of \$75.359 million supports the following efforts:

FY 2017 Base procurement dollars in the amount of \$68.977 million procures completion of the modernization of the existing Range Communications System (RCS) at the Joint Readiness Training Center (JRTC) to include the Combat Trainer Communications Subsystem (CTCS) voice and data communications devices, live fire, and test and integration. Funding will also procure the initial phase of the RCS Infrastructure for the JRTC Land Expansion area and will also be used to perform essential lifecycle activities on the existing subsystems of the fielded Instrumentation Systems located at the National Training Center (NTC), JRTC, and Joint Multinational Readiness Center (JMRC). These essential lifecycle activities consist of Information Technology (IT) Hardware Replacement, Continuous Technology Refresh (CTR), and Post Deployment Software Support (PDSS) to ensure that the Instrumentation System subsystems do not become obsolete and that there is a continuing evolution of system capability over the lifecycle of the Instrumentation Systems at the three Combat Training Centers.

FY 2017 Base procurement dollars in the amount of \$2.223 million procures Continuous Technology Refreshment (CTR) components to instrument the Self Airfield, Ft. Polk Military Operations on Urban Terrain (MOUT) site at the Joint Readiness Training Center (JRTC) for the Combat Training Center MOUT Instrumentation System (CTC MOUT IS) program.

FY 2017 Base procurement dollars in the amount of \$2.843 million procures for the Combat Training Center LIVE FIRE Modernization (CTC LIVE FIRE MOD) program a variation of a company live-fire set which includes; Stationary Armor Targets (SATs) that are FASIT compliant, Stationary Infantry Targets (SITs), Double-Arm Targets (DATs) and Moving Infantry Targets (MITs) for the Joint Readiness Training Center (JRTC). Each kit is comprised of different quantities of components. In addition the procurement includes initial spares, replacing obsolete/unsafe Hoffman Devices, and refreshes/replaces obsolete target lifters and thermal signature devices at both the JRTC and National Training Center (NTC).

FY 2017 Base procurement dollars in the amount of \$1.100 million provides program support for CTC Aviation team needed to maintain the life of existing Light Utility Helicopter (LUH) Tactical Engagement Simulation System (TESS) instrumentation for the Observer Controller and OPFOR aircraft at the three CTCs.

FY 2017 Base procurement dollars in the amount of \$0.216 million procures government labor and travel in support of OPFOR Surrogate Wheeled Vehicles (OSWV) program.

FY 2017 Base procurement dollars procure training devices and systems in support of U.S. Army Readiness to support a balanced investment strategy for the Army's approved force structure and the Army's Sustainable Readiness Model (SRM).

All quantities support the Active Army.

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<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 70	<b>P-1 Line Item Number / Title:</b> MA6600 / Combat Training Centers Support	<b>Item Number / Title [DODIC]:</b> MA6601 / Combat Training Centers (CTC) Support

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	754	3,330	508	519	-	519
Gross/Weapon System Cost (\$ in Millions)	1,347.855	76.362	74.916	75.359	-	75.359
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	1,347.855	76.362	74.916	75.359	-	75.359
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	<b>1,347.855</b>	<b>76.362</b>	<b>74.916</b>	<b>75.359</b>	<b>-</b>	<b>75.359</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	1,787.606	22.932	147.472	145.200	-	145.200

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
IS: In-House Govt/ Contract Spt	-	-	10.850	-	-	6.100	-	-	7.303	-	-	6.323	-	-	-	-	-	6.323
IS: Range Communication System (RCS) <sup>(†)</sup>	-	-	1,169.934	43,551.000	1	43.551	35,000.000	1	35.000	33,612.000	1	33.612	-	-	-	33,612.000	1	33.612
IS: Essential Lifecycle Activities	-	-	85.778	-	-	15.411	-	-	25.601	-	-	29.042	-	-	-	-	-	29.042
CTC MOUT IS In-House Govt/Contract Spt	-	-	4.134	-	-	-	-	-	-	-	-	0.529	-	-	-	-	-	0.529
CTC MOUT IS Instrumentation <sup>(†)</sup>	-	-	27.009	-	-	-	1,107.500	2	2.215	-	-	-	-	-	-	-	-	-
CTC MOUT IS Continuous Tech Refresh	-	-	-	-	-	-	-	-	-	-	-	1.694	-	-	-	-	-	1.694
OPFOR WEAPONS (MBT, OSV & SLM) kits	19.450	626	12.176	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OPFOR Vehicle In-House Govt	-	-	-	-	-	-	-	-	0.213	-	-	0.216	-	-	-	-	-	0.216
CTC LIVE FIRE In-House Govt/Contract Spt	-	-	1.178	-	-	-	-	-	0.386	-	-	0.476	-	-	-	-	-	0.476

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<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 70	<b>P-1 Line Item Number / Title:</b> MA6600 / Combat Training Centers Support	<b>Item Number / Title [DODIC]:</b> MA6601 / Combat Training Centers (CTC) Support
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :		<b>MDAP/MAIS Code:</b>

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
CTC LIVE FIRE MOD Kits <sup>(†)</sup>	-	-	8.339	-	-	-	4.749	505	2.398	4.569	518	2.367	-	-	-	4.569	518	2.367
CTC Aviation: In-House Govt/Contract Spt	-	-	4.312	-	-	-	-	-	1.800	-	-	1.100	-	-	-	-	-	1.100
CTC Aviation Shootback Kits	2,012.083	12	24.145	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
European Reassurance Initiative (ERI) <sup>(†)</sup>	-	-	-	3.394	3,329	11.300	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	<i>1,347.855</i>	-	-	<i>76.361</i>	-	-	<i>74.916</i>	-	-	<i>75.359</i>	-	-	-	-	-	<i>75.359</i>
<i>Subtotal: Flyaway Cost</i>	-	-	<i>1,347.855</i>	-	-	<i>76.361</i>	-	-	<i>74.916</i>	-	-	<i>75.359</i>	-	-	-	-	-	<i>75.359</i>
<b>Gross/Weapon System Cost</b>	<b>1,787.606</b>	<b>754</b>	<b>1,347.855</b>	<b>22.932</b>	<b>3,330</b>	<b>76.362</b>	<b>147.472</b>	<b>508</b>	<b>74.916</b>	<b>145.200</b>	<b>519</b>	<b>75.359</b>	-	-	-	<b>145.200</b>	<b>519</b>	<b>75.359</b>

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	3,330	508	519	-	519
	Total Obligation Authority	76.362	74.916	75.359	-	75.359
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	<b>3,330</b>	<b>508</b>	<b>519</b>	-	<b>519</b>
	<b>Total Obligation Authority</b>	<b>76.362</b>	<b>74.916</b>	<b>75.359</b>	-	<b>75.359</b>

(†) indicates the presence of a P-5a

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<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2017 Army								<b>Date:</b> February 2016				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 70			<b>P-1 Line Item Number / Title:</b> MA6600 / Combat Training Centers Support					<b>Item Number / Title [DODIC]:</b> MA6601 / Combat Training Centers (CTC) Support				
Cost Elements	OCO	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$ K)	Specs Avail Now?	Date Revision Available	RFP Issue Date
IS: Range Communication System (RCS) <sup>(†)</sup>		2015	Northrup Grumman Tech Services / Orlando, FI	C / FFP	PEO STRI, Orlando, FL	Mar 2015	Mar 2016	1	43,551.000	Y		
IS: Range Communication System (RCS) <sup>(†)</sup>		2016	Northrup Grumman Tech Services / Orlando, FI	C / FFP	ACC, Orlando, FL	Mar 2016	Mar 2017	1	35,000.000	Y		
IS: Range Communication System (RCS) <sup>(†)</sup>		2017	TBS (CTC IS) / TBS	C / FFP	ACC, Orlando, FL	Feb 2017	May 2018	1	33,612.000	N		
CTC MOUT IS Instrumentation <sup>(†)</sup>		2016	Lockheed Martin Simulation Tra / Orlando, FI	C / FFP	ACC, Orlando, FL	May 2016	May 2017	2	1,107.500	Y		
CTC LIVE FIRE MOD Kits <sup>(†)</sup>		2016	Advanced IT Concepts (CTC LF) / Winter Springs, FL	C / IDIQ	ACC, Orlando, FL	Mar 2016	Dec 2016	505	4.749	Y		
CTC LIVE FIRE MOD Kits <sup>(†)</sup>		2017	TBS (CTC LF MOD) / TBS	C / IDIQ	ACC, Orlando, FL	Mar 2017	Dec 2017	518	4.569	Y		
European Reassurance Initiative (ERI) <sup>(†)</sup>		2015	TBS (ERI) / TBS	C / FFP	ACC, Orlando, FL	Sep 2016	Mar 2017	3,329	3.394	Y		

<sup>(†)</sup> indicates the presence of a P-21

**Remarks:**

PEO STRI = Program Executive Office for Simulation, Training and Instrumentation  
 Army Contracting Command, (ACC) Orlando, FL

LMSTS = Lockheed Martin Simulation Training Systems

European Reassurance Initiative (ERI) \$11.3M FY15 OPA OCO received on 30 Sep 2016 from FY15-27 PA.

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<b>Exhibit P-21, Production Schedule:</b> PB 2017 Army		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 70		<b>P-1 Line Item Number / Title:</b> MA6600 / Combat Training Centers Support
<b>Item Number / Title [DODIC]:</b> MA6601 / Combat Training Centers (CTC) Support		

Cost Elements <i>(Units in Each)</i>				Fiscal Year 2015														Fiscal Year 2016												BALANCE			
O C C O #	M F R Y	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2014	BAL DUE AS OF 1 OCT	Calendar Year 2015														Calendar Year 2016													
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P				
IS: Range Communication System (RCS)																																	
1	2015	ARMY (LII)	1	-	1							A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-				
1	2016	ARMY (LIII)	1	-	1																						A	-	-	-	-	-	1
2	2017	ARMY (LIV)	1	-	1																											1	
CTC MOUT IS Instrumentation																																	
3	2016	ARMY (LV)	2	-	2																							A	-	-	-	-	2
CTC LIVE FIRE MOD Kits																																	
4	2016	ARMY (LVI)	505	-	505																							A	-	-	-	-	505
5	2017	ARMY	518	-	518																												518
European Reassurance Initiative (ERI)																																	
6	2015	ARMY	3,329	-	3,329																												3,329
						O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S				
						C	O	E	A	E	A	A	A	U	U	U	E	C	O	V	E	A	B	A	A	U	U	U	E				
						T	V	C	N	B	R	P	Y	N	L	G	P	T	V	C	N	B	R	R	Y	N	L	U	G	P			



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<b>Exhibit P-21, Production Schedule:</b> PB 2017 Army		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 70		<b>P-1 Line Item Number / Title:</b> MA6600 / Combat Training Centers Support
		<b>Item Number / Title [DODIC]:</b> MA6601 / Combat Training Centers (CTC) Support

Cost Elements <i>(Units in Each)</i>				Fiscal Year 2017														Fiscal Year 2018												BALANCE		
O C C O #	M F R FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2016	BAL DUE AS OF 1 OCT	Calendar Year 2017														Calendar Year 2018												
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			
IS: Range Communication System (RCS)																																
1	2015	ARMY (LII)	1	1	-																								-			
1	2016	ARMY (LIII)	1	-	1	-	-	-	-	-	1																		-			
2	2017	ARMY (LIV)	1	-	1					A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-			
CTC MOUT IS Instrumentation																																
3	2016	ARMY (LV)	2	-	2	-	-	-	-	-	-	-	2															-				
CTC LIVE FIRE MOD Kits																																
4	2016	ARMY (LVI)	505	-	505	-	-	505																				-				
5	2017	ARMY	518	-	518					A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	518	-				
European Reassurance Initiative (ERI)																																
6	2015	ARMY	3,329	-	3,329	-	-	-	-	-	3,329																	-				
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

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<b>Exhibit P-21, Production Schedule:</b> PB 2017 Army		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 70		<b>P-1 Line Item Number / Title:</b> MA6600 / Combat Training Centers Support
		<b>Item Number / Title [DODIC]:</b> MA6601 / Combat Training Centers (CTC) Support

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2017	1-8-5 For 2017	MAX For 2017	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	Northrup Grumman Tech Services - Orlando, Fl	1	1	1	-	5	13	18	-	5	13	18
2	TBS (CTC IS) - TBS	1	1	1	-	4	16	20	-	-	-	-
3	Lockheed Martin Simulation Tra - Orlando, Fl	1	3	9	-	7	13	20	-	-	-	-
4	Advanced IT Concepts (CTC LF) - Winter Springs, FL	1	1,400	8,000	-	5	10	15	-	-	-	-
5	TBS (CTC LF MOD) - TBS	1	1,400	8,000	-	5	10	15	-	-	-	-
6	TBS (ERI) - TBS	1	1	1	-	-	-	-	-	-	-	-

"A" in the Delivery Schedule indicates the Contract Award Date.

**Note:** Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

**Service/Agency Suffixes:**

- (LII) BASE
- (LIII) BASE
- (LIV) BASE
- (LV) BASE
- (LVI) BASE

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**Exhibit P-40, Budget Line Item Justification:** PB 2017 Army **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 70: Training Equipment	<b>P-1 Line Item Number / Title:</b> NA0100 / Training Devices, Nonsystem
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> 0654715A	<b>Other Related Program Elements:</b> N/A
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<b>Line Item MDAP/MAIS Code:</b> N/A	<b>Item MDAP/MAIS Code(s):</b> N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	25,115	2,314	30,354	18,782	-	18,782	5,766	684	93	55	Continuing	Continuing
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	2,538.973	117.093	278.236	253.050	-	253.050	260.137	277.370	199.834	191.596	Continuing	Continuing
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	2,538.973	117.093	278.236	253.050	-	253.050	260.137	277.370	199.834	191.596	Continuing	Continuing
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>2,538.973</b>	<b>117.093</b>	<b>278.236</b>	<b>253.050</b>	<b>-</b>	<b>253.050</b>	<b>260.137</b>	<b>277.370</b>	<b>199.834</b>	<b>191.596</b>	<b>Continuing</b>	<b>Continuing</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost ( <i>\$ in Thousands</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Thousands</i> )	101.094	50.602	9.166	13.473	-	13.473	45.116	405.512	2,148.753	3,483.564	Continuing	Continuing

**Description:**

The Army continues to build on a major initiative with the Non-System Training Device (NSTD) program to introduce realistic and effective training devices into the individual and unit training setting. These devices bring into play many aspects of the combat environment (smoke, noise, confusion, stress, etc.), which provide our Soldiers with a valuable experience of battlefield conditions in a training environment. This effort includes the acquisition of training capabilities that support force-on-force training, force-on-target training, engagement simulation, and classroom instruction. Devices and simulations are being fielded to minimize resource consumption which will affect a direct cost reduction through conservation of energy and ammunition. These devices provide capabilities that allow Soldiers, leaders, and units to train tasks and missions that would be unsafe or too resource intensive to conduct with actual weapons, weapons systems, and ammunitions or if done in the actual environment. This budget line supports all Other Procurement, Army (OPA) funding for Non-System Training Devices (NSTD). It procures a variety of NSTD items such as the Home Station Instrumentation Training System (HITS), Live, Virtual, Constructive Integrating Architecture (LVC-IA), Army Targetry System (ATS), Digital Range Training System (DRTS), Integrated Military Operations in Urbanized Terrain (MOUT) Training System (IMTS), Battle Command Training Complex - Equipment Support (BCTC-ES), Common Training Instrumentation Architecture (CTIA), Intelligence & Electronic Warfare Tactical Proficiency Trainer (IEWTPT), Target Modernization, Common Battle Command Simulations Equipment (CBCSE), Joint Pacific Multinational Readiness Capability-Instrumentation System (JPMRC-IS), Call For Fires Trainer (CFFT), Engagement Skills Trainer (EST), Instrumentable Multiple Integrated Laser Engagement System (I-MILES), and Medical Simulation Training Center (MSTC).

The Engagement Skills Trainer (EST) is the unit/institutional, indoor, multipurpose, multi-lane, small arms, crew-served and individual anti-tank training simulation that enables training across three different modes: individual marksmanship; small unit(collective) gunnery and tactical training; and judgmental use of force (shoot/don't shoot), which includes escalation of force/graduated response scenarios.

The Call For Fire Trainer (CFFT) family of systems is a lightweight, rapidly deployable, observed fire training system that provides simulated battlefield training for Fire Support Specialists (FSS), Joint Fires Observers (JFO), and Soldiers. The system provides simulated battlefield training to conduct Indirect Fires, Close Air Support, Close Combat Attack, and Naval Surface Fire Support. The CFFT Immersive System provides the capability for Army, Joint, Multinational, and Special Operations Forces to conduct advanced, complex, and realistic fires training at the Fires Center of Excellence, Ft Sill, OK. CFFT is a critical training enabler to support Warfighters in applying precision fires on target to prevent fratricide and minimize collateral damage.

The Home Station Instrumentation Training System (HITS) provides a high-fidelity deployable instrumented training capability to support platoon through battalion level Live Force-on-Force Training. HITS tracks the location of soldiers and vehicles and simulates weapons' effects and engagements, allowing units to "Train as they Fight" against live opponents. HITS provides accurate feedback to training units. HITS consists of light deployable components that can be rapidly assembled/disassembled and transported to support deployed training. HITS integrates with future and legacy MILES. HITS is a member of the Live Training Transformation (LT2) family of training systems and shares several hardware and software components with the Instrumentation Systems (IS). HITS provides the Live domain for Live-Virtual-Constructive (LVC) training integration.

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2017 Army		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 70: Training Equipment		<b>P-1 Line Item Number / Title:</b> NA0100 / Training Devices, Nonsystem
<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> 0654715A	<b>Other Related Program Elements:</b> N/A
<b>Line Item MDAP/MAIS Code:</b> N/A	<b>Item MDAP/MAIS Code(s):</b> N/A	

The Joint Pacific Multinational Readiness Capability-Instrumentation System (JPMRC-IS) is a transportable instrumentation system that provides instrumented training for the Brigade Combat Team and below. JPMRC-IS a rapidly deployable, self-supported system providing an Observer Controller Communications Systems, Battle Command Systems, Instrumentation System, Embedded Constructive Simulations, TAF workstations, Voice and Video Monitoring, AAR presentation, and provides its own power generation. JPMRC-IS performs the end-to-end mission functions of Exercise Planning, System Preparation, Exercise Management, Monitoring, and Control, Training Performance Feedback through onsite AARs and unit Take Home Packages.

The Medical Simulation Training Center (MSTC) is a critical readiness enabler for combat units as it provides realistic medical training to both medical and non-medical Soldiers in the Active, Reserve, and National Guard. MSTCs provide hands-on instruction on the latest battlefield trauma and critical care techniques based on Army Medical Department (AMEDD) approved performance oriented Program of Instructions (POI). Medical treatment validation exercises simulate the high stress of performing medical interventions in combat. MSTC supports Unit Medical Readiness by validating Combat Medic Military Occupational Specialty (MOS) (68W) Emergency Medical Technician (EMT) biennial recertification requirements and provides Combat Lifesaver (CLS) training to non-medical Soldiers.

The Intelligence & Electronic Warfare Tactical Proficiency Trainer (IEWTPT) is a Non-System Training Device (NSTD) that supports military intelligence soldiers by simulating and stimulating Military Intelligence (MI) organic or surrogate equipment enabling system operators and analysts to utilize their Intelligence, Surveillance, and Reconnaissance (ISR) assets to provide the commander with required, executable, intelligence information. IEWTPT provides a realistic Intelligence target environment for Multi-Intelligence disciplines (Signals Intelligence (SIGINT), Imagery Intelligence (IMINT), Human Intelligence (HUMINT), Counterintelligence (CI), Geospatial Intelligence (GEOINT)) and must simulate/stimulate and maintain concurrency with multiple systems such as: Prophet, Distributed Common Ground System-Army (DCGS-A), Tactical Ground Station (TGS), Joint Surveillance Target Attack Radar System-Common Ground Station (JSTARS-CGS), Tactical Unmanned Aerial Vehicle (TUAV), Tactical Exploitation System/Distributed Tactical Exploitation System (TES/DTES). IEWTPT provides static and dynamic training events (interactive environment for individual, collective, and Live, Virtual, and Constructive integrated mission rehearsals/exercises) in an integrated, playback, and stand alone mode. IEWTPT is composed of four components: Constructive Simulation, Technical Control Cell (TCC), Target Signature Arrays (TSA)/ Simulation Interface, and the HUMINT Control Cell (HCC). The IEWTPT TCC provides critical Intel enhancements to a constructive simulation to simulate/stimulate go-to-war or surrogate ISR systems where system operators/analysts are able to exploit exercise intelligence data during training, just as they would in a "real world" operation.

Common Battle Command Simulation Equipment (CBCSE) is a fundamental element of the Joint Land Component Constructive Training Capability (JLCCTC) Program of Record, which supports institutional and operational Mission Command training for active and reserve component units. CBCSE procures and delivers commercial-off-the-shelf hardware, software and delta/new equipment training for Army Hub and Spoke Mission Training Complexes in support of JLCCTC. CBCSE must be capable of running each JLCCTC fielded software version of Army training in support of Army Force 2025.

Army Targetry Systems (ATS) will provide computerized live fire Armor and Infantry training ranges to the Army, Active Reserve (USAR) and Army National Guard (ARNG) installations. This equipment enables trainers to develop scenarios and to control targetry and battlefield simulation devices so that soldiers can practice wartime mission tasks in a stressful battlefield environment. The computerized system also provides feedback on individual and unit level performance to enable recognition of problem areas needing corrective action while at the same time recognizing positive performance. This equipment reinforces correct procedures and fosters soldier's confidence. The fielded equipment includes stationary and moving infantry and armor targets along with battlefield simulators for sound and sight. All ranges can be used with Multiple Integrated Laser Engagement System (MILES) equipment.

The Digital Range Training System (DRTS) provides new and modern ranges capable of training, evaluating and stressing Soldiers and their modern equipment with a realistic train-as-you-fight environment. Four standard training ranges Digital Multi Purpose Range Complex (DMPRC), Digital Multi Purpose Training Range (DMPTR), Battle Area Complex (BAX) and Digital Air Ground Integrated Range (DAGIR) will utilize all available combat systems capabilities, and digitally integrate them to manage all forces undergoing individual and collective live-fire training and qualification. These Training Systems replace obsolete, inadequate training methods and equipment in order to simulate new weapon systems, challenge Soldiers, incorporate the Digitized Force, and provide enhanced training data collection and After Action Review (AAR) capabilities. They incorporate digital system training as well as integrate multiple ranges and training environments for the training units.

The Integrated Military Operations in Urban Terrain (MOUT) Training System (IMTS) program fields the Combined Arms Collective Training Facility (CACTF), the Collective Training Facility (CTF), Live Fire Shoot House (LFSH), and the Urban Assault Course (UAC). The IMTS training systems provide instrumentation to enable training and After Action Review (AAR) of Soldier training exercises up to the battalion level combined training for the Active and Reserve Component Army. The CACTF, CTF, and LFSH enable training and AAR under daylight and night vision environments.

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2017 Army		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 70: Training Equipment		<b>P-1 Line Item Number / Title:</b> NA0100 / Training Devices, Nonsystem

<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> 0654715A	<b>Other Related Program Elements:</b> N/A
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<b>Line Item MDAP/MAIS Code:</b> N/A	<b>Item MDAP/MAIS Code(s):</b> N/A
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The Target Modernization program provides the continued software support and enhancements for the Government owned target control system software Targetry Range Automated Control and Recording (TRACR), integration with legacy range adapter software (interfacing TRACR to legacy targets, allowing range upgrades without the need to replace the targets), Information Assurance accreditation and support, and synchronization with the Common Training Instrumentation Architecture (CTIA). Target Modernization supports the revitalization vice replacement of existing ranges. The Target Modernization program provides a single common target specification, standards, and interfaces for all target system devices, and provides support for Live, Virtual, and Constructive Training Environment.

Battle Command Training Center-Equipment Support (BCTC-ES) provides the furniture, fixtures, equipment (FF&E), network, Reconfigurable Tactical Operation Center (RTOC), technical control, classroom and work cell capabilities, and technical tools required for all Army Mission Training Complexes (MTC) and for the associated Military Construction Army (MCA) infrastructure. Enabling the linkage of constructive simulations to Mission Command (MC) systems and extending unit communications. BCTC-ES provides equipment that integrates Army MC Systems into Tactical Operation Center (TOC) sets, providing visualization of the Common Operating Picture (COP). It also supports the requirements for the DoD Information Assurance Certification and Accreditation Process (DIACAP), which helps enable the linkage within a MTC that supports secure and distributed MC/Simulation training. Provides Architectural and Engineering (A&E) support to the MTC Design Board for new MCA development.

The Instrumentable-Multiple Integrated Laser Engagement System (I-MILES) program enhances the warfighter's capability to prepare for combat operations allowing training and assessment of individual and collective tasks during force-on-force operations. The devices use an eye-safe laser to replicate the engagement effects of their intended "line of sight" weapons systems. I-MILES provides realistic, real-time casualty effects for force-on-force tactical engagement training scenarios and its ability to integrate into training instrumentation systems provide for high fidelity combined arms combat exercises. Due to their modular design, I-MILES devices are approved for use at Home Station, the Combat Training Centers (CTCs) and in the theater of operations to meet training requirements. The current "Instrumentable" MILES replaces the previously fielded "Basic" MILES, which cannot integrate into training instrumentation systems. Army Tactical Engagement Simulation System (A-TESS) will combine existing I-MILES capabilities with indirect fire capabilities into a single TESS program of record.

The Common Training Instrumentation Architecture (CTIA) is the critical Live core product-line architecture of the Live, Virtual, Constructive Integrated Training Environment (LVC-ITE). CTIA provides the common Army owned software, product-line architecture, product line software, standards, services, and architecture framework for supporting the Live Training Transformation (LT2) Product Line of Live Training Systems (LTS) supporting Army-wide live instrumented Force-On-Force (FOF) and Force-On-Target (FOT) training requirements. CTIA provides the Post Deployment Software Support (PDSS) and technology refresh for the LT2 family of LTS supporting over 150 fielded live training systems across the Army. CTIA also provides the live training architecture standard for achieving and maintaining the interoperability between LTS and the Live, Virtual, Constructive Integrating Architecture (LVC-IA), battle command and control (C2) systems, and the Test and Training Enabling Architecture (TENA).

The Live, Virtual, Constructive - Integrating Architecture (LVC-IA) provides a net-centric linkage that collects, retrieves and exchanges data among existing Training Aids, Devices, Simulations, and Simulators (TADSS) and Mission Command Systems. The LVC-IA defines "how" information is exchanged among the different LVC domains and the Mission Command Systems. The LVC-IA provides enterprise level tools for exercise control, After Action Review, and system information assurance. It also provides hardware and software to interface the different Live, Virtual, and Constructive communication protocols and provides a correlated common operating picture for the training audience on their organic Mission Command equipment. The integration of the Live, Virtual, and Constructive and Gaming TADSS (AVCATT, CCTT, GFT, HITS, JLCCTC) with the Mission Command equipment will enable larger and more robust training events to better prepare U.S. Soldiers for their missions at an overall reduced cost. The end-state goal is to enable an LVC Integrated Training Environment that can cost effectively replicate Operational Environments to provide a high level of value-added training and mission rehearsal opportunities to Army Commanders and their Soldiers enhancing Army training and readiness.

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	Quantity	2,306	30,168	18,594	-	18,594	5,608	632	78	34
	Total Obligation Authority	83.240	227.433	184.536	-	184.536	197.545	177.881	165.855	156.316
ANG	Quantity	6	136	186	-	186	94	39	10	16
	Total Obligation Authority	29.574	26.766	59.633	-	59.633	45.399	89.604	25.200	24.791
AR	Quantity	2	50	2	-	2	64	13	5	5
	Total Obligation Authority	4.279	24.037	8.881	-	8.881	17.193	9.885	8.779	10.489

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**Exhibit P-40, Budget Line Item Justification:** PB 2017 Army **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 70: Training Equipment	<b>P-1 Line Item Number / Title:</b> NA0100 / Training Devices, Nonsystem
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> 0654715A	<b>Other Related Program Elements:</b> N/A
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<b>Line Item MDAP/MAIS Code:</b> N/A	<b>Item MDAP/MAIS Code(s):</b> N/A
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Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
<b>Total:</b>	Quantity	2,314	30,354	18,782	-	18,782	5,766	684	93	55
<b>Secondary Distribution</b>	Total Obligation Authority	117.093	278.236	253.050	-	253.050	260.137	277.370	199.834	191.596

**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** PB 2017 Army **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 70: Training Equipment	<b>P-1 Line Item Number / Title:</b> NA0100 / Training Devices, Nonsystem
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> 0654715A	<b>Other Related Program Elements:</b> N/A
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<b>Line Item MDAP/MAIS Code:</b> N/A	<b>Item MDAP/MAIS Code(s):</b> N/A
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Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	NA0101 / NSTD Soldier Training Support Program (STSP)	P-5a, P-21	A	167 / 188.871	3 / 31.737	576 / 58.634	342 / 45.263	- / -	342 / 45.263
P-5	NA0102 / NSTD INTELLIGENCE	P-5a, P-21	A	94 / 29.133	- / 3.115	2 / 3.797	2 / 5.377	- / -	2 / 5.377
P-5	NA0103 / NSTD COMMAND & CONTROL	P-5a	A	30 / 357.212	3 / 26.137	8 / 40.172	9 / 41.959	- / -	9 / 41.959
P-5	NA0105 / NSTD RANGES AND TARGETS	P-5a, P-21	A	14 / 1,333.695	- / 25.405	8 / 48.950	5 / 56.718	- / -	5 / 56.718
P-5	NA0106 / NSTD Battle Command Training Center Support Prg	P-5a		12 / 311.275	18 / 16.498	18 / 12.042	18 / 18.038	- / -	18 / 18.038
P-5	NA0116 / NSTD- MILES	P-5a, P-21		24,791 / 267.366	2,280 / 5.000	29,735 / 102.587	18,399 / 74.518	- / -	18,399 / 74.518
P-5	NA0121 / NSTD - LVC ARCHITECTURE	P-5a, P-21		7 / 51.421	10 / 9.201	7 / 12.054	7 / 11.177	- / -	7 / 11.177
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>			<b>25,115 / 2,538.973</b>	<b>2,314 / 117.093</b>	<b>30,354 / 278.236</b>	<b>18,782 / 253.050</b>	<b>- / -</b>	<b>18,782 / 253.050</b>

\*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

**Justification:**  
 FY 17 BASE dollars in the amount of \$253.050 million supports the following efforts:

FY 2017 Base procurement dollars in the amount of \$8.155 million will be used to perform essential lifecycle activities on the existing 15 fielded Home Station Instrumentation Systems (HITS). Primary focus is to maintain system relevancy to ensure concurrence of training capabilities and integration into Live Virtual Constructive Integrated Architecture (LVC-IA).

FY 2017 Base procurement dollars in the amount of \$8.052 million procures post deployment software support for the Joint Pacific Multinational Readiness Capability-Instrumentation System (JPMRC-IS) located at Schofield Barracks, HI.

FY 2017 Base procurement dollars in the amount of \$7.072 million will support the fielding of upgraded systems, produce a solution for the upgraded JFO certification requirements and to improve the training of precision fires. The use of the CFFT III maximizes and enhances live training. CFFT is used for total recertification of Joint Fires Observers (JFO) reducing time and cost while enabling readiness.

FY 2017 Base procurement dollars in the amount of \$5.939 will provide (10) Medical Training Command and Control (MT-C2). The MT-C2 enables training environment manipulation, medical scenario integration, mannequin control, audio video (AV) surveillance and recording as well as hostile fire simulations and friendly force engagement control in order to maximize the positive impact and training experience of each fluid training event. (10) High Fidelity Tetherless Mannequins will also be procured. The HFTM provides training on advanced medical skills necessary for recertification of US Army 68Ws.

FY 2017 Base procurement dollars in the amount of \$14.168 million will upgrade 298 EST systems and provides for pre-planned product improvements in weapons optics integration. The EST II enables readiness and enhances live training; the EST is identified as an acceptable substitute for night and chemical, biological, radiological, nuclear and explosives. Units without assigned weapons are authorized to use the EST II for qualification per regulations.

FY 2017 Base procurement dollars in the amount of \$1.877 million will enable the Army Corps of Engineers to procure, install, test, and certify racks and shelving, which incorporates a fire suppression system part of the racks and shelving effort associated with the Training Support Center MILCON project at Ft. Hood, TX.

The IEWTPT FY 2017 Base procurement dollars in the amount of \$5.377 million supports the procurement of two TCCs and Interim Contractor Support (ICS) for two installations. IEWTPT consists of a blend non-developmental hardware components and mission specific software to support detailed Army intelligence corps training and readiness at home station locations. The IEWTPT program will continue engineering and technical product improvements in FY 2017.

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2017 Army		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 70: Training Equipment		<b>P-1 Line Item Number / Title:</b> NA0100 / Training Devices, Nonsystem
<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> 0654715A	<b>Other Related Program Elements:</b> N/A
<b>Line Item MDAP/MAIS Code:</b> N/A	<b>Item MDAP/MAIS Code(s):</b> N/A	
<p>FY 2017 Base procurement dollars in the amount of \$41.959 million procures COTS hardware, software, training and PDSS and Pre-Planned Product Improvement (P3I) to support JLCCTC. This will enable continued efficient training support from the current systems and facilities, then transition these facilities to the objective simulation systems as part of the Constructive Strategy Implementation. Quantities represent sites and vary to configuration of site size, therefore, causing unit costs to fluctuate. The base quantity reflects the number of planned fielding events. This reflects fully burdened costs since the OPA is used to fund the Program Manager (PM), Information Assurance Vulnerability Assessment (IAVA) and hardware refresh.</p> <p>FY 2017 Base procurement dollars in the amount of \$12.625 million procures for the Army Targetry Systems (ATS) program computerized live fire Armor and Infantry training ranges to the Army, USAR, and ARNG installations to ensure soldier readiness. These ranges will replace existing ranges with new technology and increase throughput capability by providing additional ranges. Readiness of soldiers is critical to saving lives in wartime situations. Training ranges being provided will enhance the quality of training at installations. Accurate feedback to soldiers on training with battlefield conditions helps them learn procedures and techniques that will save lives and achieve success on the battlefield.</p> <p>FY 2017 Base procurement dollars in the amount of \$32.216 million procures for the Digital Range Training System (DRTS) program; labor, travel, Fort Bragg Aerial Gunnery Range (AGR) digital range instrumentation, Post Deployment Software Support (PDSS), Continuous Technology Refreshment (CTR), Information Assurance (IA) and Aviation Integration.</p> <p>FY 2017 Base procurement dollars in the amount of \$8.544 million procures for the Integrated Military Operations in Urban Terrain (MOUT) Training System (IMTS) program, in-house government support, and Continuous Technology Refreshment (CTR) of three aging Combined Arms Collective Training Facilities (CACTFs) and one shoot house that have been in operation for six to eight years.</p> <p>FY 2017 Base procurement dollars in the amount of \$3.333 million procures for the Target Modernization program a single Government owned common target control system for all Army targets and small arms ranges, this also includes, Range Configuration Management, Continuous Technology Refreshment (CTR), Post Deployment Software Support (PDSS), Future Army System of Integrated Targets (FASIT) Technology Refreshment/Maturation, updates to Targetry Range Automated Control and Recording (TRACR) Legacy Range and Device Adapters, and advance the TRACR Product Line to maintain synchronization with Live Training Transformation (LT2) Portal.</p> <p>FY 2017 Base procurement dollars in the amount of \$18.038M procure Mission Command equipment for refresh or upgrades, network infrastructure equipment for upgrades or to meet emerging Information Assurance and RMF requirements, and the refresh of furniture, fixtures and equipment for the Mission Command Training Complexes. BCTC-ES also funds DIACAP and RMF, server refresh and upgrades, as well as the Electronic Security System (ESS). All of these systems enable initial, sustainment and pre-deployment digital training as well as providing a reach back capability for deployed units. DIACAP and Mission Command refresh quantities reflect all sites which will receive at least one type of these fieldings or equipment installations. The cost varies by site and fiscal year, depending on the size of the MTC or length of time between upgrades. Starting in FY17, the increase in costs show actual costs in regards to refreshing legacy MTCs; the older systems were analog and all technology is currently digital and has increased refresh cost significantly. The onset of the RMF process and the new requirements it is levying on MTC has driven costs up, which is from the increased amount of equipment (HW/SW) required to maintain accreditation and system security. Specific sites scheduled to be refreshed in FY17 include: Ft. Riley, Ft. Campbell, Birmingham (a USAR facility), and Camp Casey (Korea).</p> <p>FY 2017 Base procurement dollars in the amount of \$74.518 million procures Instrumentable-Multiple Integrated Laser Engagement System (I-MILES) and replaces the obsolete Basic MILES, and MILES XXI at various installations Army wide. Both Basic MILES and MILES XXI have reached the end of their life cycle in which they are not economical to repair and sustain. I-MILES Devices are to be fielded as either Brigade Combat Team (BCT) or Battalion sets that can be integrated into the Live-Virtual-Constructive Integrated Architecture (LVC-IA) as a component of the full training environment. The completion of the I-MILES basis of issue (BOI) and pure fleetings of the I-MILES product lines will standardize training at Home Station, Combat Training Centers and deployed training environments. Pure fleetings of the I-MILES product lines allows maximized maintenance efficiencies and balance requirements to set the conditions for Commanders to conduct improved force-on-force training contributing to unit readiness supporting the 39th Chief of the Staff of the Army's #1 priority of "Readiness". Vehicle Tactical Engagement Simulation System (VTESS) is the newest I-MILES product line and will be awarded in 4th quarter FY16. This award supports Low Rate Initial Production (LRIP) quantities production to be delivered in 2nd quarter FY18. I-MILES FY17 program funding supports VTESS Full Rate Product (FRP) start up requirements with the first delivery being in 3rd quarter FY18.</p> <p>FY 2017 Base procurement dollars in the amount of \$3.469 million procures for the CTIA program required infrastructure, core lab facility, PDSS, Technology Refresh and modifications for the LT2, Family of Training Systems (FTS), and the LVC-ITE.</p>		



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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2017 Army		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 70: Training Equipment		<b>P-1 Line Item Number / Title:</b> NA0100 / Training Devices, Nonsystem
<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> 0654715A	<b>Other Related Program Elements:</b> N/A
<b>Line Item MDAP/MAIS Code:</b> N/A	<b>Item MDAP/MAIS Code(s):</b> N/A	
<p>FY 2017 Base procurement dollars in the amount of \$7.708 million procures the Live, Virtual, Constructive - Integrating Architecture (LVC-IA) associated hardware and software, Post Deployment Software Support (PDSS) activities, version upgrades, technology refresh, spares, site support and New Equipment Training (NET) at Army Mission Training Complexes (MTC) in preparation for Force 2025 and beyond. LVC-IA program PDSS provides a capability to support sustainment of the system software and its associated subsystems and components. LVC-IA program performs version upgrades for replacement or modification of components for reasons other than obsolescence including Pre-Planned Product Improvement (P3I), modification, conversion, reconfiguration, retrofit, and technology insertion to increase the performance capability of the system; program will conduct upgrades from Version 1 to Version 2 at 5 fielded locations. Government Program Management will provide program management, engineering and technical oversight, contract support and travel for the LVC-IA. System Technical Support will perform the activities necessary Army Risk Management Framework (RMF) requirement. The LVC-IA provides the architecture that enables the Army to utilize the Live, Virtual, and Constructive training devices in the Army's Integrated Training Environment (ITE).</p> <p>In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.</p>		

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<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 70		<b>P-1 Line Item Number / Title:</b> NA0100 / Training Devices, Nonsystem
		<b>Item Number / Title [DODIC]:</b> NA0101 / NSTD Soldier Training Support Program (STSP)

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	167	3	576	342	-	342
Gross/Weapon System Cost (\$ in Millions)	188.871	31.737	58.634	45.263	-	45.263
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	188.871	31.737	58.634	45.263	-	45.263
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	<b>188.871</b>	<b>31.737</b>	<b>58.634</b>	<b>45.263</b>	<b>-</b>	<b>45.263</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	1,130.964	10,579.000	101.795	132.348	-	132.348

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
EST - Five Lane Subsystem/Refresh <sup>(†)</sup>	62.437	167	10.427	-	-	-	30.302	388	11.757	45.846	298	13.662	-	-	-	45.846	298	13.662
EST In-house/ Contractor Support	-	-	137.703	-	-	-	-	-	0.511	-	-	0.506	-	-	-	-	-	0.506
CFFT (Various Configurations) <sup>(†)</sup>	-	-	13.637	-	-	-	750.000	4	3.000	111.583	24	2.678	-	-	-	111.583	24	2.678
CFFT Initial Spares	-	-	0.626	-	-	-	-	-	0.107	-	-	0.147	-	-	-	-	-	0.147
CFFT Concurrency/ PDSS	-	-	0.426	-	-	-	-	-	1.644	-	-	3.140	-	-	-	-	-	3.140
CFFT In-house/ Contractor Support	-	-	7.175	-	-	-	-	-	1.135	-	-	1.107	-	-	-	-	-	1.107
HITS version 4 <sup>(†)</sup>	-	-	-	7,893.333	3	23.680	6,250.000	2	12.500	-	-	-	-	-	-	-	-	-
HITS Engineering Change Proposal	-	-	-	-	-	-	-	-	1.217	-	-	-	-	-	-	-	-	-
HITS Concurrency	-	-	-	-	-	-	-	-	3.646	-	-	-	-	-	-	-	-	-
HITS PDSS/CTR	-	-	3.404	-	-	3.708	-	-	5.349	-	-	5.602	-	-	-	-	-	5.602
HITS In-House/ Contractor Spt	-	-	10.531	-	-	2.244	-	-	2.977	-	-	2.553	-	-	-	-	-	2.553
JPMRC-IS In-House/ Contractor Spt	-	-	-	-	-	0.617	-	-	0.658	-	-	0.372	-	-	-	-	-	0.372
JPMRC-IS PDSS/CTR	-	-	1.892	-	-	1.488	-	-	6.367	-	-	7.680	-	-	-	-	-	7.680

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<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 70		<b>P-1 Line Item Number / Title:</b> NA0100 / Training Devices, Nonsystem
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A		<b>MDAP/MAIS Code:</b>
<b>Item Number / Title [DODIC]:</b> NA0101 / NSTD Soldier Training Support Program (STSP)		

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
MSTC In-house/ Contractor Support	-	-	3.050	-	-	-	-	-	1.775	-	-	1.309	-	-	-	-	-	1.309
MSTC MT-C2 <sup>(†)</sup>	-	-	-	-	-	-	-	-	-	350.000	10	3.500	-	-	-	350.000	10	3.500
MSTC MATT Concurrency <sup>(†)</sup>	-	-	-	-	-	-	32.929	42	1.383	-	-	-	-	-	-	-	-	-
MSTC Validation Lanes <sup>(†)</sup>	-	-	-	-	-	-	33.000	2	0.066	-	-	-	-	-	-	-	-	-
MSTC Part Task Trainers <sup>(†)</sup>	-	-	-	-	-	-	32.905	21	0.691	-	-	-	-	-	-	-	-	-
MSTC High Fidelity Tetherless Mannequin <sup>(†)</sup>	-	-	-	-	-	-	32.915	117	3.851	113.000	10	1.130	-	-	-	113.000	10	1.130
Racks and Shelving	-	-	-	-	-	-	-	-	-	-	-	1.877	-	-	-	-	-	1.877
<i>Subtotal: Recurring Cost</i>	-	-	188.871	-	-	31.737	-	-	58.634	-	-	45.263	-	-	-	-	-	45.263
<i>Subtotal: Flyaway Cost</i>	-	-	188.871	-	-	31.737	-	-	58.634	-	-	45.263	-	-	-	-	-	45.263
<b>Gross/Weapon System Cost</b>	<b>1,130.964</b>	<b>167</b>	<b>188.871</b>	<b>10,579.000</b>	<b>3</b>	<b>31.737</b>	<b>101.795</b>	<b>576</b>	<b>58.634</b>	<b>132.348</b>	<b>342</b>	<b>45.263</b>	-	-	-	<b>132.348</b>	<b>342</b>	<b>45.263</b>

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	1	399	162	-	162
	Total Obligation Authority	11.980	39.851	39.470	-	39.470
ANG	Quantity	2	130	180	-	180
	Total Obligation Authority	19.757	4.329	5.793	-	5.793
AR	Quantity	-	47	-	-	-
	Total Obligation Authority	-	14.454	-	-	-
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	<b>3</b>	<b>576</b>	<b>342</b>	-	<b>342</b>
	<b>Total Obligation Authority</b>	<b>31.737</b>	<b>58.634</b>	<b>45.263</b>	-	<b>45.263</b>

(†) indicates the presence of a P-5a

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**Exhibit P-5a, Procurement History and Planning: PB 2017 Army** **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 70	<b>P-1 Line Item Number / Title:</b> NA0100 / Training Devices, Nonsystem	<b>Item Number / Title [DODIC]:</b> NA0101 / NSTD Soldier Training Support Program (STSP)
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Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$ K)	Specs Avail Now?	Date Revision Available	RFP Issue Date
EST - Five Lane Subsystem/ Refresh <sup>(†)</sup>		2016	Meggitt Training Systems, Inc / Suwanee, GA	C / FFP	ACC, Orlando, FL	Apr 2016	Jan 2017	388	30.302	Y		
EST - Five Lane Subsystem/ Refresh <sup>(†)</sup>		2017	Meggitt Training Systems, Inc / Suwanee, GA	C / FFP	ACC, Orlando, FL	Apr 2017	Jan 2018	298	45.846	Y		
CFFT (Various Configurations) <sup>(†)</sup>		2016	Nova Technologies / Panama City, FL	C / FFP	ACC, Orlando, FL	Apr 2016	Jan 2017	4	750.000	Y		
CFFT (Various Configurations) <sup>(†)</sup>		2017	Nova Technologies / Panama City, FL	C / FFP	ACC, Orlando, FL	Apr 2017	Jan 2018	24	111.583	Y		
HITS version 4 <sup>(†)</sup>		2015	Cubic Simulation Systems / Orlando, FL	C / FFP	PEO STRI, Orlando, FL	May 2015	Mar 2016	3	7,893.333	Y		
HITS version 4 <sup>(†)</sup>		2016	Cubic Simulation Systems / Orlando, FL	C / FFP	ACC, Orlando, FL	Mar 2016	Dec 2016	2	6,250.000	Y		
MSTC MT-C2 <sup>(†)</sup>		2017	TBS (MSTC) MT-C2 / TBS	C / FFP	ACC, Orlando, FL	Mar 2017	Sep 2017	10	350.000	Y		
MSTC MATT Concurrency <sup>(†)</sup>		2016	KFORCE Gov't Sol. (MSTC) MATT / FAIRFAX, VA	SS / FFP	ACC, Orlando, FL	Mar 2016	Apr 2016	42	32.929	Y		
MSTC Validation Lanes <sup>(†)</sup>		2016	TBS (MSTC) Validation Lanes / TBS	C / FFP	ACC, Orlando, FL	Mar 2016	Jul 2016	2	33.000	N		
MSTC Part Task Trainers <sup>(†)</sup>		2016	TBS (MSTC) PTT / TBS	C / FFP	ACC, Orlando, FL	Jun 2016	Jul 2016	21	32.905	Y		
MSTC High Fidelity Tetherless Mannequin		2016	TBC (MSTC) HFTM / TBS	C / FFP	ACC, Orlando, FL	Jun 2016	Jul 2016	117	32.915	N		
MSTC High Fidelity Tetherless Mannequin		2017	TBC (MSTC) HFTM / TBS	C / FFP	ACC, Orlando, FL	Mar 2017	Jul 2017	10	113.000	N		

<sup>(†)</sup> indicates the presence of a P-21

**Remarks:**

PEO STRI = Program Executive Office for Simulation, Training and Instrumentation

MSTC High Fidelity Tetherless Mannequin (HFTM) are COTS.

Army Contracting Command, (ACC) Orlando, FL

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<b>Exhibit P-21, Production Schedule:</b> PB 2017 Army		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 70		<b>P-1 Line Item Number / Title:</b> NA0100 / Training Devices, Nonsystem
		<b>Item Number / Title [DODIC]:</b> NA0101 / NSTD Soldier Training Support Program (STSP)

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2015													Fiscal Year 2016													B A L A N C E						
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2014	BAL DUE AS OF 1 OCT	Calendar Year 2015													Calendar Year 2016																		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P								
EST - Five Lane Subsystem/Refresh																																						
Prior Years Deliveries: 167																																						
	1	2016	ARMY	388	-	388																							A -	-	-	-	-	-	-	388		
	1	2017	ARMY	298	-	298																															298	
CFFT (Various Configurations)																																						
	2	2016	ARMY	4	-	4																								A -	-	-	-	-	-	-	4	
	2	2017	ARMY	24	-	24																															24	
HITS version 4																																						
	3	2015	ARMY	3	-	3																															1	
	3	2016	ARMY	2	-	2																								A -	-	-	-	-	-	-	2	
MSTC MT-C2																																						
	4	2017	ARMY	10	-	10																															10	
MSTC MATT Concurrency																																						
	5	2016	ARMY	42	-	42																								A -	12	10	10	10			-	
MSTC Validation Lanes																																						
	6	2016	ARMY	2	-	2																								A -	-	-	-	1	1		-	
MSTC Part Task Trainers																																						
	7	2016	ARMY	21	-	21																												A -	6	5	5	5
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P								

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Exhibit P-21, Production Schedule: PB 2017 Army Date: February 2016

**Appropriation / Budget Activity / Budget Sub Activity:**  
2035A / 03 / 70

**P-1 Line Item Number / Title:**  
NA0100 / Training Devices, Nonsystem

**Item Number / Title [DODIC]:**  
NA0101 / NSTD Soldier Training Support Program (STSP)

Cost Elements <i>(Units in Each)</i>					Fiscal Year 2017															Fiscal Year 2018												B A L A N C E				
O C C #	M F R Y	S E R V I C E	P R O C Q T Y	A C C E P T P R I O R T O 1 O C T 2 0 1 6	B A L D U E A S O F 1 O C T 2 0 1 6	Calendar Year 2017															Calendar Year 2018															
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P							
EST - Five Lane Subsystem/Refresh																																				
Prior Years Deliveries: 167																																				
1	2016	ARMY	388	-	388	-	-	-	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	-				
1	2017	ARMY	298	-	298																						25	25	25	25	25	25	25	25	25	73
CFFT (Various Configurations)																																				
2	2016	ARMY	4	-	4	-	-	-	1	-	1	1	-	1																				-		
2	2017	ARMY	24	-	24																						4	4	4	4	4	4	4		-	
HITS version 4																																				
3	2015	ARMY	3	2	1	-	1																											-		
3	2016	ARMY	2	-	2	-	-	1	1																									-		
MSTC MT-C2																																				
4	2017	ARMY	10	-	10													2	2	2	2	2	2	2	2	2							-			
MSTC MATT Concurrency																																				
5	2016	ARMY	42	42	-																													-		
MSTC Validation Lanes																																				
6	2016	ARMY	2	2	-																													-		
MSTC Part Task Trainers																																				
7	2016	ARMY	21	16	5	5																												-		
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P							

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<b>Exhibit P-21, Production Schedule:</b> PB 2017 Army		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 70		<b>P-1 Line Item Number / Title:</b> NA0100 / Training Devices, Nonsystem
		<b>Item Number / Title [DODIC]:</b> NA0101 / NSTD Soldier Training Support Program (STSP)

Cost Elements <i>(Units in Each)</i>					Fiscal Year 2019													Fiscal Year 2020													BALANCE	
O C C O #	M F R FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2018	BAL DUE AS OF 1 OCT	Calendar Year 2019													Calendar Year 2020													
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			
EST - Five Lane Subsystem/Refresh																																
Prior Years Deliveries: 167																																
1	2016	ARMY	388	388	-																									-		
1	2017	ARMY	298	225	73	25	25	23																						-		
CFFT (Various Configurations)																																
2	2016	ARMY	4	4	-																									-		
2	2017	ARMY	24	24	-																									-		
HITS version 4																																
3	2015	ARMY	3	3	-																									-		
3	2016	ARMY	2	2	-																									-		
MSTC MT-C2																																
4	2017	ARMY	10	10	-																									-		
MSTC MATT Concurrency																																
5	2016	ARMY	42	42	-																									-		
MSTC Validation Lanes																																
6	2016	ARMY	2	2	-																									-		
MSTC Part Task Trainers																																
7	2016	ARMY	21	21	-																									-		
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

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<b>Exhibit P-21, Production Schedule:</b> PB 2017 Army		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 70		<b>P-1 Line Item Number / Title:</b> NA0100 / Training Devices, Nonsystem
		<b>Item Number / Title [DODIC]:</b> NA0101 / NSTD Soldier Training Support Program (STSP)

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2017	1-8-5 For 2017	MAX For 2017	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	Meggitt Training Systems, Inc - Suwanee, GA	10	400	600	-	6	10	16	-	6	10	16
2	Nova Technologies - Panama City, FL	1	48	120	-	6	9	15	-	6	9	15
3	Cubic Simulation Systems - Orlando, FL	1	3	5	-	7	11	18	-	6	9	15
4	TBS (MSTC) MT-C2 - TBS	1	10	20	-	5	7	12	-	-	-	-
5	KFORCE Gov't Sol. (MSTC) MATT - FAIRFAX, VA	1	50	100	-	3	2	5	-	3	2	5
6	TBS (MSTC) Validation Lanes - TBS	1	5	10	-	5	5	10	-	5	5	10
7	TBS (MSTC) PTT - TBS	1	25	50	-	8	2	10	-	8	2	10

"A" in the Delivery Schedule indicates the Contract Award Date.

**Note:** Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).



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<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>											<b>Date:</b> February 2016						
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 70						<b>P-1 Line Item Number / Title:</b> NA0100 / Training Devices, Nonsystem					<b>Item Number / Title [DODIC]:</b> NA0102 / NSTD INTELLIGENCE						
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A						<b>MDAP/MAIS Code:</b>											
Resource Summary				Prior Years		FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total			
Procurement Quantity (Units in Each)				94		-		2		2		-		2			
Gross/Weapon System Cost (\$ in Millions)				29.133		3.115		3.797		5.377		-		5.377			
Less PY Advance Procurement (\$ in Millions)				-		-		-		-		-		-			
Net Procurement (P-1) (\$ in Millions)				29.133		3.115		3.797		5.377		-		5.377			
Plus CY Advance Procurement (\$ in Millions)				-		-		-		-		-		-			
<b>Total Obligation Authority (\$ in Millions)</b>				<b>29.133</b>		<b>3.115</b>		<b>3.797</b>		<b>5.377</b>		<b>-</b>		<b>5.377</b>			
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>																	
Initial Spares (\$ in Millions)				-		-		-		-		-		-		-	
Gross/Weapon System Unit Cost (\$ in Thousands)				309.926		-		1,898.500		2,688.500		-		2,688.500			

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
IEWTPT TCC <sup>(†)</sup>	864.875	8	6.919	469.000	1	0.469	469.000	2	0.938	384.000	2	0.768	-	-	-	384.000	2	0.768
IEWTPT HCC	32.482	85	2.761	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IEWTPT TCC - Retrofit	267.000	1	0.267	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Engineering for Product Improvement	-	-	14.838	-	-	1.020	-	-	1.150	-	-	2.521	-	-	-	-	-	2.521
Interim Contractor Support	-	-	2.642	-	-	0.819	-	-	0.900	-	-	0.900	-	-	-	-	-	0.900
Program Management	-	-	1.706	-	-	0.807	-	-	0.809	-	-	1.188	-	-	-	-	-	1.188
<i>Subtotal: Recurring Cost</i>	-	-	29.133	-	-	3.115	-	-	3.797	-	-	5.377	-	-	-	-	-	5.377
<i>Subtotal: Flyaway Cost</i>	-	-	29.133	-	-	3.115	-	-	3.797	-	-	5.377	-	-	-	-	-	5.377
<b>Gross/Weapon System Cost</b>	<b>309.926</b>	<b>94</b>	<b>29.133</b>	<b>-</b>	<b>-</b>	<b>3.115</b>	<b>1,898.500</b>	<b>2</b>	<b>3.797</b>	<b>2,688.500</b>	<b>2</b>	<b>5.377</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>2,688.500</b>	<b>2</b>	<b>5.377</b>

Secondary Distribution		FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total	
Army	Quantity	-		1		-		-		-	
	Total Obligation Authority	3.115		1.899		-		-		-	
ANG	Quantity	-		-		1		-		1	
	Total Obligation Authority	-		-		2.656		-		2.656	
AR	Quantity	-		1		1		-		1	

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<b>Exhibit P-5, Cost Analysis:</b> PB 2017 Army	<b>Date:</b> February 2016
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<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 70	<b>P-1 Line Item Number / Title:</b> NA0100 / Training Devices, Nonsystem	<b>Item Number / Title [DODIC]:</b> NA0102 / NSTD INTELLIGENCE
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
<b>Secondary Distribution</b>						
	Total Obligation Authority	-	1.898	2.721	-	2.721
<b>Total:</b>	<b>Quantity</b>	-	2	2	-	2
<b>Secondary Distribution</b>	<b>Total Obligation Authority</b>	3.115	3.797	5.377	-	5.377

(t) indicates the presence of a P-5a

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**Exhibit P-5a, Procurement History and Planning:** PB 2017 Army **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 70	<b>P-1 Line Item Number / Title:</b> NA0100 / Training Devices, Nonsystem	<b>Item Number / Title [DODIC]:</b> NA0102 / NSTD INTELLIGENCE
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Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
IEWTPT TCC		2015	TBS / TBS	C / FFP	PEO STRI, Orlando, FL	Mar 2015	Sep 2015	1	469.000	Y		
IEWTPT TCC		2016	TBS / TBS	C / FFP	ACC, Orlando, FL	Jun 2016	Sep 2016	2	469.000	Y		
IEWTPT TCC <sup>(†)</sup>		2017	TBS / TBS	C / FFP	ACC, Orlando, FL	Jan 2017	Apr 2017	2	384.000	Y		

<sup>(†)</sup> indicates the presence of a P-21

**Remarks:**

A future IEWTPT system contract, scheduled for award in 2nd Quarter 2017, will continue the production (using Commercial, Off-the-Shelf (COTS) items), integration, fielding, training, hardware/software updates, and technical support of the IEWTPT Technical Control Cell (TCC) system. Software version releases are planned as well as engineering for product improvement releases.

Army Contracting Command, (ACC) Orlando, FL

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**Exhibit P-21, Production Schedule:** PB 2017 Army **Date:** February 2016

**Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 03 / 70 **P-1 Line Item Number / Title:** NA0100 / Training Devices, Nonsystem **Item Number / Title [DODIC]:** NA0102 / NSTD INTELLIGENCE

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2015												Fiscal Year 2016												BALANCE	
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2014	BAL DUE AS OF 1 OCT	Calendar Year 2015												Calendar Year 2016												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P
IEWTPT TCC																															
Prior Years Deliveries: 8																															
1		2017	ARMY		2	-	2																						2		
								O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P

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**Exhibit P-21, Production Schedule:** PB 2017 Army **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 70	<b>P-1 Line Item Number / Title:</b> NA0100 / Training Devices, Nonsystem	<b>Item Number / Title [DODIC]:</b> NA0102 / NSTD INTELLIGENCE
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Cost Elements <i>(Units in Each)</i>							Fiscal Year 2017														Fiscal Year 2018														BALANCE
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2016	BAL DUE AS OF 1 OCT	Calendar Year 2017														Calendar Year 2018														
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					
IEWTPT TCC																																			
Prior Years Deliveries: 8																																			
1	2017	ARMY		2	-	2				A	-	-	-	1	-	1														-					
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					

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<b>Exhibit P-21, Production Schedule:</b> PB 2017 Army	<b>Date:</b> February 2016
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<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 70	<b>P-1 Line Item Number / Title:</b> NA0100 / Training Devices, Nonsystem	<b>Item Number / Title [DODIC]:</b> NA0102 / NSTD INTELLIGENCE
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MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2017	1-8-5 For 2017	MAX For 2017	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	TBS - TBS	1	2	3	-	3	4	7	-	-	-	-

"A" in the Delivery Schedule indicates the Contract Award Date.

**Note:** Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

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<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 70		<b>P-1 Line Item Number / Title:</b> NA0100 / Training Devices, Nonsystem
		<b>Item Number / Title [DODIC]:</b> NA0103 / NSTD COMMAND & CONTROL

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	30	3	8	9	-	9
Gross/Weapon System Cost (\$ in Millions)	357.212	26.137	40.172	41.959	-	41.959
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	357.212	26.137	40.172	41.959	-	41.959
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	<b>357.212</b>	<b>26.137</b>	<b>40.172</b>	<b>41.959</b>	<b>-</b>	<b>41.959</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	11,907.067	8,712.333	5,021.500	4,662.111	-	4,662.111

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
Division/Hub <sup>(†)</sup>	13,616.333	21	285.943	1,271.000	6	7.626	1,173.111	9	10.558	1,168.500	6	7.011	-	-	-	1,168.500	6	7.011
Spoke <sup>(†)</sup>	2,591.778	9	23.326	1,204.000	5	6.020	1,198.000	4	4.792	1,066.000	3	3.198	-	-	-	1,066.000	3	3.198
Common Hardware Platform Refresh	-	-	8.373	-	-	1.859	-	-	2.814	-	-	9.079	-	-	-	-	-	9.079
Program Management	-	-	14.901	-	-	1.342	-	-	1.358	-	-	1.736	-	-	-	-	-	1.736
Post Deployment Software Spt (PDSS)	-	-	24.669	-	-	9.290	-	-	10.383	-	-	11.573	-	-	-	-	-	11.573
Pre-Planned Product Improvement (P3I)	-	-	-	-	-	-	-	-	10.267	-	-	6.862	-	-	-	-	-	6.862
Constructive Strategy Implementation	-	-	-	-	-	-	-	-	-	-	-	2.500	-	-	-	-	-	2.500
<i>Subtotal: Recurring Cost</i>	-	-	357.212	-	-	26.137	-	-	40.172	-	-	41.959	-	-	-	-	-	41.959
<i>Subtotal: Flyaway Cost</i>	-	-	357.212	-	-	26.137	-	-	40.172	-	-	41.959	-	-	-	-	-	41.959
<b>Gross/Weapon System Cost</b>	<b>11,907.067</b>	<b>30</b>	<b>357.212</b>	<b>8,712.333</b>	<b>3</b>	<b>26.137</b>	<b>5,021.500</b>	<b>8</b>	<b>40.172</b>	<b>4,662.111</b>	<b>9</b>	<b>41.959</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>4,662.111</b>	<b>9</b>	<b>41.959</b>

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	2	8	9	-	9
	Total Obligation Authority	20.059	28.232	31.600	-	31.600

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis:</b> PB 2017 Army		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 70	<b>P-1 Line Item Number / Title:</b> NA0100 / Training Devices, Nonsystem	<b>Item Number / Title [DODIC]:</b> NA0103 / NSTD COMMAND & CONTROL

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
ANG	Quantity	1	-	-	-	-
	Total Obligation Authority	3.599	7.102	5.651	-	5.651
AR	Quantity	-	-	-	-	-
	Total Obligation Authority	2.479	4.838	4.708	-	4.708
<b>Total:</b> Secondary Distribution	<b>Quantity</b>	<b>3</b>	<b>8</b>	<b>9</b>	-	<b>9</b>
	<b>Total Obligation Authority</b>	<b>26.137</b>	<b>40.172</b>	<b>41.959</b>	-	<b>41.959</b>

(†) indicates the presence of a P-5a



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<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2017 Army							<b>Date:</b> February 2016				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 70			<b>P-1 Line Item Number / Title:</b> NA0100 / Training Devices, Nonsystem				<b>Item Number / Title [DODIC]:</b> NA0103 / NSTD COMMAND & CONTROL				

Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$ K)	Specs Avail Now?	Date Revision Available	RFP Issue Date
Division/Hub		2014	General Dynamics / Fairfax, VA	C / FFP	PEO STRI, Orlando, FL	Jan 2014	Feb 2014	7	923.143	Y		
Division/Hub		2015	General Dynamics / Fairfax, VA	C / FFP	ACC, Orlando, FL	Feb 2015	Apr 2015	6	1,271.000	Y		
Division/Hub		2016	General Dynamics / Fairfax, VA	C / FFP	ACC, Orlando, FL	Feb 2016	Apr 2016	9	1,173.111	Y		
Division/Hub		2017	TBS / TBS	C / FFP	ACC, Orlando, FL	Nov 2016	Mar 2017	6	1,168.500	Y		
Spoke		2014	General Dynamics / Fairfax, VA	C / FFP	PEO STRI, Orlando, FL	Feb 2014	Apr 2014	4	807.750	Y		
Spoke		2015	General Dynamics / Fairfax, VA	C / FFP	ACC, Orlando, FL	Feb 2015	Apr 2015	5	1,204.000	Y		
Spoke		2016	General Dynamics / Fairfax, VA	C / FFP	ACC, Orlando, FL	Feb 2016	Apr 2016	4	1,198.000	Y		
Spoke		2017	TBS / TBS	C / FFP	ACC, Orlando, FL	Nov 2016	Mar 2017	3	1,066.000	Y		

**Remarks:**  
Items are all commercial-off-the-shelf (COTS).

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 70		<b>P-1 Line Item Number / Title:</b> NA0100 / Training Devices, Nonsystem
		<b>Item Number / Title [DODIC]:</b> NA0105 / NSTD RANGES AND TARGETS

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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Resource Summary		Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)		14	-	8	5	-	5
Gross/Weapon System Cost (\$ in Millions)		1,333.695	25.405	48.950	56.718	-	56.718
Less PY Advance Procurement (\$ in Millions)		-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)		1,333.695	25.405	48.950	56.718	-	56.718
Plus CY Advance Procurement (\$ in Millions)		-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>		<b>1,333.695</b>	<b>25.405</b>	<b>48.950</b>	<b>56.718</b>	<b>-</b>	<b>56.718</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	95,263.929	-	6,118.750	11,343.600	-	11,343.600

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
ATS Hardware <sup>(†)</sup>	4,172.111	9	37.549	-	-	-	2,455.857	7	17.191	2,814.500	4	11.258	-	-	-	2,814.500	4	11.258
Interim Logistic Support	-	-	14.481	-	-	0.305	-	-	0.735	-	-	0.663	-	-	-	-	-	0.663
ATS Engineering Support	-	-	5.714	-	-	0.249	-	-	0.250	-	-	0.298	-	-	-	-	-	0.298
Quality Assurance	-	-	4.635	-	-	0.232	-	-	0.233	-	-	0.214	-	-	-	-	-	0.214
Contracting Support	-	-	0.200	-	-	0.214	-	-	0.215	-	-	0.192	-	-	-	-	-	0.192
DRTS Complex <sup>(†)</sup>	606,887.000	2	1,213.774	-	-	-	8,570.000	1	8.570	7,000.000	1	7.000	-	-	-	7,000.000	1	7.000
DRTS In-house gov't & contractor support	-	-	27.161	-	-	3.434	-	-	3.524	-	-	3.212	-	-	-	-	-	3.212
DRTS PDSS	-	-	2.341	-	-	0.967	-	-	0.688	-	-	0.688	-	-	-	-	-	0.688
DRTS CTR	-	-	-	-	-	-	-	-	1.726	-	-	14.616	-	-	-	-	-	14.616
DRTS Information Assurance (IA)	-	-	-	-	-	0.507	-	-	0.727	-	-	0.550	-	-	-	-	-	0.550
DRTS Aviation Integration	-	-	-	-	-	2.067	-	-	0.995	-	-	6.150	-	-	-	-	-	6.150
IMTS CTR	-	-	-	-	-	5.387	-	-	8.790	-	-	6.779	-	-	-	-	-	6.779
IMTS CTF	2,067.000	3	6.201	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IMTS In-house gov't & contractor support	-	-	9.207	-	-	1.743	-	-	1.878	-	-	1.765	-	-	-	-	-	1.765

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 70		<b>P-1 Line Item Number / Title:</b> NA0100 / Training Devices, Nonsystem
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A		<b>MDAP/MAIS Code:</b>
<b>Item Number / Title [DODIC]:</b> NA0105 / NSTD RANGES AND TARGETS		

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Target Modernization	-	-	10.975	-	-	-	-	-	2.539	-	-	2.375	-	-	-	-	-	2.375
Target Modernization In-House Gov't sup	-	-	1.457	-	-	-	-	-	0.889	-	-	0.958	-	-	-	-	-	0.958
ERI Mobile Target Sets (MTS)	-	-	-	-	-	10.300	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	1,333.695	-	-	25.405	-	-	48.950	-	-	56.718	-	-	-	-	-	56.718
<i>Subtotal: Flyaway Cost</i>	-	-	1,333.695	-	-	25.405	-	-	48.950	-	-	56.718	-	-	-	-	-	56.718
<b>Gross/Weapon System Cost</b>	<b>95,263.929</b>	<b>14</b>	<b>1,333.695</b>	-	-	<b>25.405</b>	<b>6,118.750</b>	<b>8</b>	<b>48.950</b>	<b>11,343.600</b>	<b>5</b>	<b>56.718</b>	-	-	-	<b>11,343.600</b>	<b>5</b>	<b>56.718</b>

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	-	3	-	-	-
	Total Obligation Authority	25.405	32.192	11.185	-	11.185
ANG	Quantity	-	4	5	-	5
	Total Obligation Authority	-	14.938	45.533	-	45.533
AR	Quantity	-	1	-	-	-
	Total Obligation Authority	-	1.820	-	-	-
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	-	<b>8</b>	<b>5</b>	-	<b>5</b>
	<b>Total Obligation Authority</b>	<b>25.405</b>	<b>48.950</b>	<b>56.718</b>	-	<b>56.718</b>

(t) indicates the presence of a P-5a

**UNCLASSIFIED**

<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2017 Army								<b>Date:</b> February 2016				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 70			<b>P-1 Line Item Number / Title:</b> NA0100 / Training Devices, Nonsystem					<b>Item Number / Title [DODIC]:</b> NA0105 / NSTD RANGES AND TARGETS				
<b>Cost Elements</b>	<b>O C O</b>	<b>FY</b>	<b>Contractor and Location</b>	<b>Method/Type or Funding Vehicle</b>	<b>Location of PCO</b>	<b>Award Date</b>	<b>Date of First Delivery</b>	<b>Qty (Each)</b>	<b>Unit Cost (\$ K)</b>	<b>Specs Avail Now?</b>	<b>Date Revision Available</b>	<b>RFP Issue Date</b>
ATS Hardware <sup>(†)</sup>		2016	TBS (ATS HW) / TBS	C / IDIQ	TACOM-RI	Feb 2016	Jul 2016	7	2,455.857	Y		
ATS Hardware <sup>(†)</sup>		2017	TBS (ATS HW) / TBS	C / IDIQ	TACOM-RI	Feb 2017	Jul 2017	4	2,814.500	Y		
DRTS Complex <sup>(†)</sup>		2016	Lockheed Martin (DRTS) / Orlando, FL 32825	C / FFP	ACC, Orlando, FL	Jun 2016	Jun 2017	1	8,570.000	Y		
DRTS Complex <sup>(†)</sup>		2017	Lockheed Martin (DRTS) / Orlando, FL 32825	C / FFP	ACC, Orlando, FL	Jul 2017	Jul 2018	1	7,000.000	Y		

<sup>(†)</sup> indicates the presence of a P-21

**Remarks:**

\* ATS contractors are Meggitt Defense Systems-Caswell, Minneapolis, MN; Action Target, Provo, UT; SAAB, Orlando, FL; Lockheed-Martin, Huntsville, AL; and Strategic Systems Inc., Decatur, AL. Long term IDIQ contracts have been negotiated with all five sources. Contract awards will be made in some combination to some or all of these sources.

European Reassurance Initiative (ERI) \$10.3M FY15 OPA OCO received on 30 Sep 2016 from FY15-27 PA.

Army Contracting Command, (ACC) Orlando, FL

European Reassurance Initiative (ERI) \$11.3M FY15 OPA OCO received on 30 Sep 2016 from FY15-27 PA.

## UNCLASSIFIED

Exhibit P-21, Production Schedule: PB 2017 Army																							Date: February 2016																
Appropriation / Budget Activity / Budget Sub Activity:											P-1 Line Item Number / Title:											Item Number / Title [DODIC]:																	
2035A / 03 / 70											NA0100 / Training Devices, Nonsystem											NA0105 / NSTD RANGES AND TARGETS																	
Cost Elements <i>(Units in Each)</i>				Fiscal Year 2016													Fiscal Year 2017													B A L A N C E									
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2015	BAL DUE AS OF 1 OCT	Calendar Year 2016													Calendar Year 2017																			
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P								
ATS Hardware																																							
Prior Years Deliveries: 9																																							
	1	2016	ARMY	7	-	7											A	-	-	-	-	-	-	3	3	1					-								
	1	2017	ARMY	4	-	4																								A	-	-	-	-	-	1	1	1	1
DRTS Complex																																							
Prior Years Deliveries: 2																																							
	2	2016	ARMY (LVII)	1	-	1											A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1		-			
	2	2017	ARMY	1	-	1																											A	-	-	-		1	
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P									

**UNCLASSIFIED**

<b>Exhibit P-21, Production Schedule:</b> PB 2017 Army															<b>Date:</b> February 2016														
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 70										<b>P-1 Line Item Number / Title:</b> NA0100 / Training Devices, Nonsystem										<b>Item Number / Title [DODIC]:</b> NA0105 / NSTD RANGES AND TARGETS									

Cost Elements <i>(Units in Each)</i>					Fiscal Year 2018												Fiscal Year 2019												BALANCE		
O C O #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2017	BAL DUE AS OF 1 OCT	Calendar Year 2018												Calendar Year 2019												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L		A U G	S E P
ATS Hardware																															
Prior Years Deliveries: 9																															
	1	2016	ARMY		7	7	-																						-		
	1	2017	ARMY		4	3	1	1																					-		
DRTS Complex																															
Prior Years Deliveries: 2																															
	2	2016	ARMY (LVII)		1	1	-																						-		
	2	2017	ARMY		1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
								O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P

**UNCLASSIFIED**

<b>Exhibit P-21, Production Schedule:</b> PB 2017 Army		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 70		<b>P-1 Line Item Number / Title:</b> NA0100 / Training Devices, Nonsystem
		<b>Item Number / Title [DODIC]:</b> NA0105 / NSTD RANGES AND TARGETS

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2017	1-8-5 For 2017	MAX For 2017	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	TBS (ATS HW) - TBS	1	48	120	-	4	6	10	-	4	6	10
2	Lockheed Martin (DRTS) - Orlando, FL 32825	1	15	25	-	8	13	21	-	9	13	22

"A" in the Delivery Schedule indicates the Contract Award Date.

**Note:** Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

**Service/Agency Suffixes:**

<sup>(LVII)</sup> BASE

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 70		<b>P-1 Line Item Number / Title:</b> NA0100 / Training Devices, Nonsystem
		<b>Item Number / Title [DODIC]:</b> NA0106 / NSTD Battle Command Training Center Support Prg

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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Resource Summary		Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)		12	18	18	18	-	18
Gross/Weapon System Cost (\$ in Millions)		311.275	16.498	12.042	18.038	-	18.038
Less PY Advance Procurement (\$ in Millions)		-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)		311.275	16.498	12.042	18.038	-	18.038
Plus CY Advance Procurement (\$ in Millions)		-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>		<b>311.275</b>	<b>16.498</b>	<b>12.042</b>	<b>18.038</b>	<b>-</b>	<b>18.038</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares (\$ in Millions)	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	25,939.583	916.556	669.000	1,002.111	-	1,002.111	

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
MCTC Furniture, Fixture & Equipment <sup>(†)</sup>	139,306.000	2	278.612	1,497.000	1	1.497	-	-	-	-	-	-	-	-	-	-	-	-
Furniture, Fixtures & Equipment Refresh <sup>(†)</sup>	1,649.500	4	6.598	1,034.750	4	4.139	611.000	5	3.055	1,050.000	4	4.200	-	-	-	1,050.000	4	4.200
Mission Command Equipment - Hardware <sup>(†)</sup>	-	-	-	607.570	7	4.253	547.330	6	3.284	780.000	6	4.680	-	-	-	780.000	6	4.680
Battlefield Visualization <sup>(†)</sup>	-	-	-	-	-	-	253.000	3	0.759	2,526.000	1	2.526	-	-	-	2,526.000	1	2.526
DIACAP / RMF <sup>(†)</sup>	3,946.000	4	15.784	1,228.750	4	4.915	1,092.750	4	4.371	1,303.500	4	5.214	-	-	-	1,303.500	4	5.214
ESS Services <sup>(†)</sup>	5,140.500	2	10.281	543.500	2	1.087	-	-	-	270.300	3	0.811	-	-	-	270.300	3	0.811
Program Management	-	-	-	-	-	0.607	-	-	0.573	-	-	0.607	-	-	-	-	-	0.607
<i>Subtotal: Recurring Cost</i>	-	-	311.275	-	-	16.498	-	-	12.042	-	-	18.038	-	-	-	-	-	18.038
<i>Subtotal: Flyaway Cost</i>	-	-	311.275	-	-	16.498	-	-	12.042	-	-	18.038	-	-	-	-	-	18.038
<b>Gross/Weapon System Cost</b>	<b>25,939.583</b>	<b>12</b>	<b>311.275</b>	<b>916.556</b>	<b>18</b>	<b>16.498</b>	<b>669.000</b>	<b>18</b>	<b>12.042</b>	<b>1,002.111</b>	<b>18</b>	<b>18.038</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1,002.111</b>	<b>18</b>	<b>18.038</b>

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	13	15	17	-	17



**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis:</b> PB 2017 Army		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 70	<b>P-1 Line Item Number / Title:</b> NA0100 / Training Devices, Nonsystem	<b>Item Number / Title [DODIC]:</b> NA0106 / NSTD Battle Command Training Center Support Prg

**ID Code** (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
	Total Obligation Authority	8.480	10.618	16.586	-	16.586
ANG	Quantity	3	2	-	-	-
	Total Obligation Authority	6.218	0.397	-	-	-
AR	Quantity	2	1	1	-	1
	Total Obligation Authority	1.800	1.027	1.452	-	1.452
<b>Total:</b>	<b>Quantity</b>	<b>18</b>	<b>18</b>	<b>18</b>	-	<b>18</b>
<b>Secondary Distribution</b>	<b>Total Obligation Authority</b>	<b>16.498</b>	<b>12.042</b>	<b>18.038</b>	-	<b>18.038</b>

(t) indicates the presence of a P-5a

**UNCLASSIFIED**

**Exhibit P-5a, Procurement History and Planning: PB 2017 Army** **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 70	<b>P-1 Line Item Number / Title:</b> NA0100 / Training Devices, Nonsystem	<b>Item Number / Title [DODIC]:</b> NA0106 / NSTD Battle Command Training Center Support Prg
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Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
MCTC Furniture, Fixture & Equipment		2015	General Dynamics / Fairfax, VA 22030	C / FFP	ACC Orlando, FL	Jan 2015	Feb 2015	1	1,497.000	Y		
Furniture, Fixtures & Equipment Refresh		2015	General Dynamics / Fairfax, VA 22030	C / FFP	ACC Orlando, FL	Mar 2015	Apr 2015	4	1,034.750	Y		
Furniture, Fixtures & Equipment Refresh		2016	General Dynamics / Fairfax, VA 22030	C / FFP	ACC Orlando, FL	Mar 2016	Jun 2016	5	611.000	Y		
Furniture, Fixtures & Equipment Refresh		2017	TBD / TBD	C / TBD	ACC Orlando, FL	Jan 2017	Apr 2017	4	1,050.000			
Mission Command Equipment - Hardware		2015	General Dynamics / Fairfax, VA 22030	C / FFP	ACC Orlando, FL	Jan 2015	Apr 2015	7	607.570	Y		
Mission Command Equipment - Hardware		2016	General Dynamics / Fairfax, VA 22030	C / FFP	ACC Orlando, FL	Mar 2016	Jun 2016	6	547.330	Y		
Mission Command Equipment - Hardware		2017	TBD / TBD	C / TBD	ACC Orlando, FL	Jan 2017	Apr 2017	6	780.000			
Battlefield Visualization		2016	General Dynamics / Fairfax, VA 22030	C / FFP	ACC Orlando, FL	Mar 2016	Jun 2016	3	253.000	Y		
Battlefield Visualization		2017	TBD / TBD	C / TBD	ACC Orlando, FL	Jan 2017	Apr 2017	1	2,526.000			
DIACAP / RMF		2015	General Dynamics / Fairfax, VA 22030	C / FFP	ACC Orlando, FL	Jan 2015	Apr 2015	4	1,228.750	Y		
DIACAP / RMF		2016	General Dynamics / Fairfax, VA 22030	C / FFP	ACC Orlando, FL	Mar 2016	Jun 2016	4	1,092.750	Y		
DIACAP / RMF		2017	TBD / TBD	C / TBD	ACC Orlando, FL	Jan 2017	Apr 2017	4	1,303.500			
ESS Services		2015	General Dynamics / Fairfax, VA 22030	C / FFP	ACC Orlando, FL	Mar 2015	Jun 2015	2	543.500	Y		

**Remarks:**

Items are COTS.

Program is currently going through a contract recompet. Anticipated contract award date is 2QFY17.

Army Contracting Command, (ACC) Orlando, FL

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>											<b>Date:</b> February 2016				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 70						<b>P-1 Line Item Number / Title:</b> NA0100 / Training Devices, Nonsystem					<b>Item Number / Title [DODIC]:</b> NA0116 / NSTD- MILES				
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :						<b>MDAP/MAIS Code:</b>									
Resource Summary			Prior Years		FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total		
Procurement Quantity (Units in Each)			24,791		2,280		29,735		18,399		-		18,399		
Gross/Weapon System Cost (\$ in Millions)			267.366		5.000		102.587		74.518		-		74.518		
Less PY Advance Procurement (\$ in Millions)			-		-		-		-		-		-		
Net Procurement (P-1) (\$ in Millions)			267.366		5.000		102.587		74.518		-		74.518		
Plus CY Advance Procurement (\$ in Millions)			-		-		-		-		-		-		
<b>Total Obligation Authority (\$ in Millions)</b>			<b>267.366</b>		<b>5.000</b>		<b>102.587</b>		<b>74.518</b>		<b>-</b>		<b>74.518</b>		
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>															
Initial Spares (\$ in Millions)			-		-		-		-		-		-		
Gross/Weapon System Unit Cost (\$ in Thousands)			10.785		2.193		3.450		4.050		-		4.050		

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
MILES Individual Weapon System (IWS) <sup>(†)</sup>	9.629	22,705	218.625	2.193	2,280	5.000	1.987	28,231	56.100	2.100	15,959	33.514	-	-	-	2.100	15,959	33.514
MILES Tactical Vehicle System (TVS)	7.400	1,501	11.107	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
I-MILES Vehicle TESS (V-TESS) <sup>(†)</sup>	-	-	-	-	-	-	11.400	568	6.475	11.500	2,440	28.060	-	-	-	11.500	2,440	28.060
MILES CVTESS <sup>(†)</sup>	24.501	585	14.333	-	-	-	27.100	936	25.366	-	-	-	-	-	-	-	-	-
MILES Tech Refresh	-	-	5.345	-	-	-	-	-	1.222	-	-	1.000	-	-	-	-	-	1.000
MILES In House Government Support	-	-	6.760	-	-	-	-	-	6.486	-	-	6.498	-	-	-	-	-	6.498
MILES Contractor Engineering Support	-	-	2.596	-	-	-	-	-	2.400	-	-	2.500	-	-	-	-	-	2.500
MILES ECPs	-	-	7.000	-	-	-	-	-	4.543	-	-	1.800	-	-	-	-	-	1.800
MILES PDSS	-	-	-	-	-	-	-	-	-	-	-	1.146	-	-	-	-	-	1.146
MILES Initial Spares	-	-	1.600	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	267.368	-	-	5.000	-	-	102.587	-	-	74.518	-	-	-	-	-	74.518
<i>Subtotal: Flyaway Cost</i>	-	-	267.368	-	-	5.000	-	-	102.587	-	-	74.518	-	-	-	-	-	74.518
<b>Gross/Weapon System Cost</b>	<b>10.785</b>	<b>24,791</b>	<b>267.366</b>	<b>2.193</b>	<b>2,280</b>	<b>5.000</b>	<b>3.450</b>	<b>29,735</b>	<b>102.587</b>	<b>4.050</b>	<b>18,399</b>	<b>74.518</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>4.050</b>	<b>18,399</b>	<b>74.518</b>

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**Exhibit P-5, Cost Analysis: PB 2017 Army** **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 70	<b>P-1 Line Item Number / Title:</b> NA0100 / Training Devices, Nonsystem	<b>Item Number / Title [DODIC]:</b> NA0116 / NSTD- MILES
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**ID Code** (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	2,280	29,735	18,399	-	18,399
	Total Obligation Authority	5,000	102,587	74,518	-	74,518
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	<b>2,280</b>	<b>29,735</b>	<b>18,399</b>	<b>-</b>	<b>18,399</b>
	<b>Total Obligation Authority</b>	<b>5,000</b>	<b>102,587</b>	<b>74,518</b>	<b>-</b>	<b>74,518</b>

(t) indicates the presence of a P-5a

**UNCLASSIFIED**

**Exhibit P-5a, Procurement History and Planning:** PB 2017 Army **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 70	<b>P-1 Line Item Number / Title:</b> NA0100 / Training Devices, Nonsystem	<b>Item Number / Title [DODIC]:</b> NA0116 / NSTD- MILES
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Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
MILES Individual Weapon System (IWS) <sup>(†)</sup>		2015	Cubic Defense Sys. (IWS) / San Diego, CA	C / FFP	PEO STRI, Orlando, FL	May 2015	Sep 2015	2,280	2.193	Y		
MILES Individual Weapon System (IWS) <sup>(†)</sup>		2016	Cubic Defense Sys. (IWS) / San Diego, CA	C / FFP	ACC, Orlando, FL	Mar 2016	Jul 2016	28,231	1.987	Y		
MILES Individual Weapon System (IWS) <sup>(†)</sup>		2017	Cubic Defense Sys. (IWS) / San Diego, CA	C / FFP	ACC, Orlando, FL	Mar 2017	Jul 2017	15,959	2.100	Y		
I-MILES Vehicle TESS (V-TESS) <sup>(†)</sup>		2016	TBS (V-TESS) / TBS	C / FFP	ACC, Orlando, FL	Sep 2016	Mar 2018	568	11.400	Y		
I-MILES Vehicle TESS (V-TESS) <sup>(†)</sup>		2017	TBS (V-TESS) / TBS	C / FFP	ACC, Orlando, FL	Sep 2017	Jun 2018	2,440	11.500	Y		
MILES CVTESS <sup>(†)</sup>		2016	SAAB Training USA LLC (CVTESS) / Orlando, FL	C / FFP	ACC, Orlando, FL	Dec 2015	Jul 2016	936	27.100	Y		

<sup>(†)</sup> indicates the presence of a P-21

**Remarks:**  
Army Contracting Command, (ACC) Orlando, FL

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Exhibit P-21, Production Schedule: PB 2017 Army																												Date: February 2016											
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 03 / 70												P-1 Line Item Number / Title: NA0100 / Training Devices, Nonsystem												Item Number / Title [DODIC]: NA0116 / NSTD- MILES															
Cost Elements <i>(Units in Thousands)</i>						Fiscal Year 2015												Fiscal Year 2016												BALANCE									
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2014	BAL DUE AS OF 1 OCT	Calendar Year 2015												Calendar Year 2016																				
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P								
MILES Individual Weapon System (IWS)																																							
Prior Years Deliveries: 22705																																							
1	2015	ARMY		2.280	-	2.280													A -	-	-	-	.190	.190	.190	.190	.190	.190	.190	.190	.190	.190	.190		-				
1	2016	ARMY		28.231	-	28.231																								A -	-	-	-	-	2.352	2.352	2.352	21.175	
1	2017	ARMY		15.959	-	15.959																															15.959		
I-MILES Vehicle TESS (V-TESS)																																							
2	2016	ARMY		.568	-	.568																														.568			
2	2017	ARMY		2.440	-	2.440																															2.440		
MILES CVTESS																																							
Prior Years Deliveries: 585																																							
3	2016	ARMY		.936	-	.936																								A -	-	-	-	-	-	.500	.436		-
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P									

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**Exhibit P-21, Production Schedule:** PB 2017 Army **Date:** February 2016

**Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 03 / 70 **P-1 Line Item Number / Title:** NA0100 / Training Devices, Nonsystem **Item Number / Title [DODIC]:** NA0116 / NSTD- MILES

Cost Elements <i>(Units in Thousands)</i>						Fiscal Year 2017												Fiscal Year 2018												BALANCE	
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2016	BAL DUE AS OF 1 OCT	Calendar Year 2017												Calendar Year 2018												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P
MILES Individual Weapon System (IWS)																															
Prior Years Deliveries: 22705																															
	1	2015	ARMY	2.280	2.280	-																							-		
	1	2016	ARMY	28.231	7.056	21.175	2.352	2.352	2.352	2.352	2.352	2.352	2.352	2.352	2.359														-		
	1	2017	ARMY	15.959	-	15.959																							-		
I-MILES Vehicle TESS (V-TESS)																															
	2	2016	ARMY	.568	-	.568	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.568	-			
	2	2017	ARMY	2.440	-	2.440																							-		
MILES CVTESS																															
Prior Years Deliveries: 585																															
	3	2016	ARMY	.936	.936	-																							-		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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**Exhibit P-21, Production Schedule:** PB 2017 Army **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 70	<b>P-1 Line Item Number / Title:</b> NA0100 / Training Devices, Nonsystem	<b>Item Number / Title [DODIC]:</b> NA0116 / NSTD- MILES
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MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2017	1-8-5 For 2017	MAX For 2017	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	Cubic Defense Sys. (IWS) - San Diego, CA	400	33,000	35,000	-	5	5	10	-	5	5	10
2	TBS (V-TESS) - TBS	500	2,750	5,700	-	11	19	30	-	11	10	21
3	SAAB Training USA LLC (CVTESS) - Orlando, FL	150	950	1,000	-	2	8	10	-	-	-	-

"A" in the Delivery Schedule indicates the Contract Award Date.

**Note:** Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).



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<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 70	<b>P-1 Line Item Number / Title:</b> NA0100 / Training Devices, Nonsystem	<b>Item Number / Title [DODIC]:</b> NA0121 / NSTD - LVC ARCHITECTURE

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	7	10	7	7	-	7
Gross/Weapon System Cost (\$ in Millions)	51.421	9.201	12.054	11.177	-	11.177
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	51.421	9.201	12.054	11.177	-	11.177
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	<b>51.421</b>	<b>9.201</b>	<b>12.054</b>	<b>11.177</b>	<b>-</b>	<b>11.177</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	7,345.857	920.100	1,722.000	1,596.714	-	1,596.714

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
CTIA In-house gov't support	-	-	2.983	-	-	-	-	-	0.666	-	-	0.574	-	-	-	-	-	0.574
CTIA PDSS	-	-	11.821	-	-	-	-	-	2.348	-	-	1.700	-	-	-	-	-	1.700
CTIA Modifications	-	-	-	-	-	-	-	-	-	-	-	0.750	-	-	-	-	-	0.750
CTIA Continuous Tech Refresh	-	-	-	-	-	-	-	-	-	-	-	0.445	-	-	-	-	-	0.445
LVC-IA fieldings <sup>(f)</sup>	3,484.714	7	24.393	500.000	3	1.500	500.000	3	1.500	-	-	-	-	-	-	-	-	-
LVC New Equipment Training	-	-	-	-	-	0.300	-	-	0.300	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	39.197	-	-	1.800	-	-	4.814	-	-	3.469	-	-	-	-	-	3.469
Non Recurring Cost																		
LVC-IA Version Upgrade/ Tech Refresh <sup>(f)</sup>	-	-	-	400.000	3	1.200	400.000	2	0.800	400.000	5	2.000	-	-	-	400.000	5	2.000
<i>Subtotal: Non Recurring Cost</i>	-	-	-	-	-	1.200	-	-	0.800	-	-	2.000	-	-	-	-	-	2.000
<i>Subtotal: Flyaway Cost</i>	-	-	39.197	-	-	3.000	-	-	5.614	-	-	5.469	-	-	-	-	-	5.469
Software Cost																		
Recurring Cost																		
LVC-IA PDSS <sup>(f)</sup>	-	-	5.661	578.000	4	2.312	1,200.000	2	2.400	1,260.000	2	2.520	-	-	-	1,260.000	2	2.520
LVC-IA Core System Integration	-	-	2.100	-	-	0.700	-	-	0.700	-	-	0.700	-	-	-	-	-	0.700

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<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 70		<b>P-1 Line Item Number / Title:</b> NA0100 / Training Devices, Nonsystem
		<b>Item Number / Title [DODIC]:</b> NA0121 / NSTD - LVC ARCHITECTURE
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :		<b>MDAP/MAIS Code:</b>

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
<i>Subtotal: Recurring Cost</i>	-	-	7.761	-	-	3.012	-	-	3.100	-	-	3.220	-	-	-	-	-	3.220
<i>Subtotal: Software Cost</i>	-	-	7.761	-	-	3.012	-	-	3.100	-	-	3.220	-	-	-	-	-	3.220
<b>Support - Program Management Cost</b>																		
Government Management	-	-	2.513	-	-	2.539	-	-	2.690	-	-	1.838	-	-	-	-	-	1.838
<i>Subtotal: Support - Program Management Cost</i>	-	-	2.513	-	-	2.539	-	-	2.690	-	-	1.838	-	-	-	-	-	1.838
<b>Support - System Technical Support (STS) Cost</b>																		
System Technical Support (STS)	-	-	1.950	-	-	0.650	-	-	0.650	-	-	0.650	-	-	-	-	-	0.650
<i>Subtotal: Support - System Technical Support (STS) Cost</i>	-	-	1.950	-	-	0.650	-	-	0.650	-	-	0.650	-	-	-	-	-	0.650
<b>Gross/Weapon System Cost</b>	7,345.857	7	51.421	920.100	10	9.201	1,722.000	7	12.054	1,596.714	7	11.177	-	-	-	1,596.714	7	11.177

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	10	7	7	-	7
	Total Obligation Authority	9.201	12.054	11.177	-	11.177
<b>Total:</b>	<b>Quantity</b>	<b>10</b>	<b>7</b>	<b>7</b>	<b>-</b>	<b>7</b>
<b>Secondary Distribution</b>	<b>Total Obligation Authority</b>	<b>9.201</b>	<b>12.054</b>	<b>11.177</b>	<b>-</b>	<b>11.177</b>

(t) indicates the presence of a P-5a

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**Exhibit P-5a, Procurement History and Planning: PB 2017 Army** **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 70	<b>P-1 Line Item Number / Title:</b> NA0100 / Training Devices, Nonsystem	<b>Item Number / Title [DODIC]:</b> NA0121 / NSTD - LVC ARCHITECTURE
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Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
LVC-IA fieldings <sup>(†)</sup>		2015	Cole Engineering Services / Orlando	C / CPFF	PEO STRI, Orlando, FL	Jan 2015	Feb 2015	3	500.000	Y		
LVC-IA fieldings <sup>(†)</sup>		2016	Cole Engineering Services / Orlando	C / CPFF	ACC Orlando, FL	Jan 2016	Feb 2016	3	500.000	Y		
LVC-IA Version Upgrade/ Tech Refresh <sup>(†)</sup>		2015	Cole Engineering Services / Orlando	C / CPFF	ACC Orlando, FL	Jan 2015	Apr 2015	3	400.000	Y		
LVC-IA Version Upgrade/ Tech Refresh <sup>(†)</sup>		2016	TBD / TBD	C / CPFF	ACC Orlando, FL	Apr 2016	Jun 2016	2	400.000	Y		
LVC-IA Version Upgrade/ Tech Refresh <sup>(†)</sup>		2017	TBD / TBD	C / CPFF	ACC Orlando, FL	Apr 2017	Jun 2017	5	400.000	Y		Jul 2015
LVC-IA PDSS <sup>(†)</sup>		2016	TBD / TBD	C / CPFF	ACC Orlando, FL	Apr 2016	Jul 2016	2	1,200.000	Y		
LVC-IA PDSS <sup>(†)</sup>		2017	TBD / TBD	C / CPFF	ACC Orlando, FL	Apr 2017	Jul 2017	2	1,260.000	Y		Jul 2015

<sup>(†)</sup> indicates the presence of a P-21

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**Exhibit P-21, Production Schedule:** PB 2017 Army **Date:** February 2016

**Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 03 / 70 **P-1 Line Item Number / Title:** NA0100 / Training Devices, Nonsystem **Item Number / Title [DODIC]:** NA0121 / NSTD - LVC ARCHITECTURE

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2015												Fiscal Year 2016												BALANCE	
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2014	BAL DUE AS OF 1 OCT	Calendar Year 2015												Calendar Year 2016												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P
LVC-IA fieldings																															
Prior Years Deliveries: 7																															
	1	2015	ARMY	3	-	3																									-
	1	2016	ARMY	3	-	3																									-
LVC-IA Version Upgrade/ Tech Refresh																															
	2	2015	ARMY	3	-	3																									-
	3	2016	ARMY	2	-	2																									1
	3	2017	ARMY	5	-	5																									5
LVC-IA PDSS																															
	4	2016	ARMY	2	-	2																									1
	4	2017	ARMY	2	-	2																									2
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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**Exhibit P-21, Production Schedule:** PB 2017 Army **Date:** February 2016

**Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 03 / 70 **P-1 Line Item Number / Title:** NA0100 / Training Devices, Nonsystem **Item Number / Title [DODIC]:** NA0121 / NSTD - LVC ARCHITECTURE

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2017												Fiscal Year 2018												BALANCE	
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2016	BAL DUE AS OF 1 OCT	Calendar Year 2017												Calendar Year 2018												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P
LVC-IA fieldings																															
Prior Years Deliveries: 7																															
	1	2015	ARMY	3	3	-																							-		
	1	2016	ARMY	3	3	-																							-		
LVC-IA Version Upgrade/ Tech Refresh																															
	2	2015	ARMY	3	3	-																							-		
	3	2016	ARMY	2	1	1	-	-	1																					-	
	3	2017	ARMY	5	-	5																							-		
LVC-IA PDSS																															
	4	2016	ARMY	2	1	1	-	-	-	1																				-	
	4	2017	ARMY	2	-	2																							-		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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<b>Exhibit P-21, Production Schedule:</b> PB 2017 Army		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 70		<b>P-1 Line Item Number / Title:</b> NA0100 / Training Devices, Nonsystem
		<b>Item Number / Title [DODIC]:</b> NA0121 / NSTD - LVC ARCHITECTURE

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2017	1-8-5 For 2017	MAX For 2017	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	Cole Engineering Services - Orlando	1	3	5	-	3	2	5	-	3	2	5
2	Cole Engineering Services - Orlando	1	3	5	-	3	4	7	-	3	4	7
3	TBD - TBD	1	3	5	-	6	3	9	-	6	3	9
4	TBD - TBD	1	3	5	-	6	3	9	-	6	3	9

"A" in the Delivery Schedule indicates the Contract Award Date.

**Note:** Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

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**Exhibit P-40, Budget Line Item Justification:** PB 2017 Army **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 70: Training Equipment	<b>P-1 Line Item Number / Title:</b> NA0170 / Close Combat Tactical Trainer
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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<b>Line Item MDAP/MAIS Code:</b> N/A	<b>Item MDAP/MAIS Code(s):</b> N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	40	108	223	309	-	309	216	219	411	209	Continuing	Continuing
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	1,062.661	13.406	45.210	48.271	-	48.271	45.718	47.135	51.322	39.503	Continuing	Continuing
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	1,062.661	13.406	45.210	48.271	-	48.271	45.718	47.135	51.322	39.503	Continuing	Continuing
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>1,062.661</b>	<b>13.406</b>	<b>45.210</b>	<b>48.271</b>	<b>-</b>	<b>48.271</b>	<b>45.718</b>	<b>47.135</b>	<b>51.322</b>	<b>39.503</b>	<b>Continuing</b>	<b>Continuing</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost ( <i>\$ in Thousands</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Thousands</i> )	26,566.525	124.130	202.735	156.217	-	156.217	211.657	215.228	124.871	189.010	Continuing	Continuing

**Description:**

The Close Combat Tactical Trainer (CCTT) is a critical readiness enabler for Armored Brigade Combat Team (ABCT) units. CCTT simulators support Commanders' home station collective training and readiness requirements in conducting predeployment training in preparation for worldwide combat operations. CCTT immersively and comprehensively trains Armor, Cavalry, Infantry, Mechanized Infantry, and Armored Reconnaissance units from squad through Battalion/Squadron level, to include their staffs. The primary training audience operates from full-crew simulators, reconfigurable command posts, and live battalion command posts to accomplish their combined arms training tasks. CCTT is a ground based, collective training device composed of three systems: the CCTT, the Reconfigurable Vehicle Tactical Trainer (RVTT) and the Dismounted Soldier Training System (DSTS). CCTT is comprised of full fidelity, manned simulators for the M1 Abrams main battle tank, M2 Bradley Fighting Vehicle (BFV) variants. RVTT is a CCTT Reconfigurable Vehicle Simulator (RVS) comprised of full fidelity, manned simulators for the High Mobility Multipurpose Wheeled Vehicle (HMMWV) and the Heavy Expanded Mobility Tactical Truck (HEMTT). DSTS is a virtual trainer providing an ability to immerse the individual Soldier into a virtual, combat environment.

CCTT is an integral part of the Army training strategy, and through planned platform concurrency modernization, will enable CCTT to support Army Force 2025 and Beyond.

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	
Army	Quantity	96	164	261	-	261	180	195	321	184
	Total Obligation Authority	10.700	40.110	45.391	-	45.391	41.172	40.312	45.391	36.969
ANG	Quantity	12	59	48	-	48	34	20	90	25
	Total Obligation Authority	2.706	5.100	2.880	-	2.880	4.488	4.519	5.931	2.534
AR	Quantity	-	-	-	-	-	2	4	-	-
	Total Obligation Authority	-	-	-	-	-	0.058	2.304	-	-
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	<b>108</b>	<b>223</b>	<b>309</b>	<b>-</b>	<b>309</b>	<b>216</b>	<b>219</b>	<b>411</b>	<b>209</b>
	<b>Total Obligation Authority</b>	<b>13.406</b>	<b>45.210</b>	<b>48.271</b>	<b>-</b>	<b>48.271</b>	<b>45.718</b>	<b>47.135</b>	<b>51.322</b>	<b>39.503</b>

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**Exhibit P-40, Budget Line Item Justification:** PB 2017 Army **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 70: Training Equipment	<b>P-1 Line Item Number / Title:</b> NA0170 / Close Combat Tactical Trainer
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	NA0170 / Close Combat Tactical Trainer	P-5a, P-21		40 / 1,062.661	108 / 13.406	223 / 45.210	309 / 48.271	- / -	309 / 48.271
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>			<b>40 / 1,062.661</b>	<b>108 / 13.406</b>	<b>223 / 45.210</b>	<b>309 / 48.271</b>	<b>- / -</b>	<b>309 / 48.271</b>

\*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

**Justification:**

FY 2017 base procurement dollars in the amount of \$48.271 million procures simulator modernization upgrades consisting of updated Input/Output (I/O) components (platform, human machine interfaces), infrastructure improvements via virtualization to reduce hardware components, and visual system improvements that will reduce sustainment costs. CCTT modernization will occur in parallel with platform concurrency upgrades (Joint Battle Command (JBC), Joint Tactical Radio Systems (JTRS), Crew Duke V3, Improved Commander's Independent Thermal Viewer (CITV), Upgraded Gunner's Primary Sight, Advanced Multi-Purpose (AMP) Round, Force Protection) that support the M2A3 Chassis Modernization Embedded Diagnostic (CMED), M2A2 Operation Desert Storm Situation Awareness (ODS-SA), M2A3 CMED Bradley Fire Support Vehicle (BFIST), M1A1 ODS-SA and M1A2 System Enhancement Package (SEP) version 2 simulators. The aforementioned modernization upgrades are essential in enabling the long term operation and sustainability of the CCTT system, which is a key training enabler for the Active and National Guard components for training in a simulated, fully interactive, virtual battlefield. The CCTT requirement exists to train and sustain collective (crew through battalion) tasks to meet Army readiness and mission objectives. CCTT training also contributes to unit readiness by augmenting live training to train tasks that cannot be performed in a live training environment due to safety, cost and environmental constraints.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the Active and Reserve Components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.



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<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 70		<b>P-1 Line Item Number / Title:</b> NA0170 / Close Combat Tactical Trainer
		<b>Item Number / Title [DODIC]:</b> NA0170 / Close Combat Tactical Trainer

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	40	108	223	309	-	309
Gross/Weapon System Cost (\$ in Millions)	1,062.661	13.406	45.210	48.271	-	48.271
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	1,062.661	13.406	45.210	48.271	-	48.271
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	<b>1,062.661</b>	<b>13.406</b>	<b>45.210</b>	<b>48.271</b>	<b>-</b>	<b>48.271</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	26,566.525	124.130	202.735	156.217	-	156.217

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
PROD ENGINEERING AND PMO SUPPORT	-	-	54.855	-	-	1.500	-	-	6.800	-	-	4.355	-	-	-	-	-	4.355
PRODUCTION ENGR CONTRACTOR SUPT	-	-	31.015	-	-	0.900	-	-	1.200	-	-	1.550	-	-	-	-	-	1.550
CONCURRENCY <sup>(†)</sup>	632.300	40	25.292	22.220	108	2.400	91.700	223	20.450	-	-	-	-	-	-	-	-	-
SOFTWARE MAINTENANCE SUPPORT	-	-	934.863	-	-	8.606	-	-	16.760	-	-	12.050	-	-	-	-	-	12.050
INTERIM CONTRACTORS LOGISTICS SUPPORT	-	-	16.636	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MODERNIZATION/ TECHNOLOGY REFRESH <sup>(†)</sup>	-	-	-	-	-	-	-	-	-	98.110	309	30.317	-	-	-	98.110	309	30.317
<i>Subtotal: Recurring Cost</i>	-	-	<i>1,062.661</i>	-	-	<i>13.406</i>	-	-	<i>45.209</i>	-	-	<i>48.271</i>	-	-	-	-	-	<i>48.271</i>
<i>Subtotal: Flyaway Cost</i>	-	-	<i>1,062.661</i>	-	-	<i>13.406</i>	-	-	<i>45.209</i>	-	-	<i>48.271</i>	-	-	-	-	-	<i>48.271</i>
<b>Gross/Weapon System Cost</b>	<b>26,566.525</b>	<b>40</b>	<b>1,062.661</b>	<b>124.130</b>	<b>108</b>	<b>13.406</b>	<b>202.735</b>	<b>223</b>	<b>45.210</b>	<b>156.217</b>	<b>309</b>	<b>48.271</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>156.217</b>	<b>309</b>	<b>48.271</b>

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	96	164	261	-	261

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**Exhibit P-5, Cost Analysis: PB 2017 Army** **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 70	<b>P-1 Line Item Number / Title:</b> NA0170 / Close Combat Tactical Trainer	<b>Item Number / Title [DODIC]:</b> NA0170 / Close Combat Tactical Trainer
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**ID Code** (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

<b>Secondary Distribution</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>	
	Total Obligation Authority	10.700	40.110	45.391	-	45.391
ANG	Quantity	12	59	48	-	48
	Total Obligation Authority	2.706	5.100	2.880	-	2.880
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	<b>108</b>	<b>223</b>	<b>309</b>	<b>-</b>	<b>309</b>
	<b>Total Obligation Authority</b>	<b>13.406</b>	<b>45.210</b>	<b>48.271</b>	<b>-</b>	<b>48.271</b>

(t) indicates the presence of a P-5a

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**Exhibit P-5a, Procurement History and Planning: PB 2017 Army** **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 70	<b>P-1 Line Item Number / Title:</b> NA0170 / Close Combat Tactical Trainer	<b>Item Number / Title [DODIC]:</b> NA0170 / Close Combat Tactical Trainer
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Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
CONCURRENCY <sup>(†)</sup>		2014	Lockheed Martin Corporation / Orlando	C / FFP	PEO STRI, Orlando, FL	Jul 2014	Jan 2015	40	468.350	Y		
CONCURRENCY <sup>(†)</sup>		2015	Lockheed Martin Corporation / Orlando	C / FFP	ACC, Orlando Florida	Mar 2015	Apr 2015	108	22.220	Y		
CONCURRENCY <sup>(†)</sup>		2016	Lockheed Martin Corporation / Orlando	C / FFP	ACC, Orlando Florida	Mar 2016	Apr 2016	223	91.700	Y		
MODERNIZATION/ TECHNOLOGY REFRESH <sup>(†)</sup>		2017	TBS / TBS	C / TBD	ACC, Orlando Florida	Jan 2017	Jul 2017	309	98.110	N		

<sup>(†)</sup> indicates the presence of a P-21

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**Exhibit P-21, Production Schedule:** PB 2017 Army **Date:** February 2016

**Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 03 / 70 **P-1 Line Item Number / Title:** NA0170 / Close Combat Tactical Trainer **Item Number / Title [DODIC]:** NA0170 / Close Combat Tactical Trainer

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2014												Fiscal Year 2015												BALANCE	
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2013	BAL DUE AS OF 1 OCT	Calendar Year 2014												Calendar Year 2015												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P
CONCURRENCY																															
1		2014	ARMY	40	-	40																							-		
1		2015	ARMY	108	-	108																							-		
1		2016	ARMY	223	-	223																							223		
MODERNIZATION/ TECHNOLOGY REFRESH																															
2		2017	ARMY	309	-	309																							309		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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**Exhibit P-21, Production Schedule:** PB 2017 Army **Date:** February 2016

**Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 03 / 70 **P-1 Line Item Number / Title:** NA0170 / Close Combat Tactical Trainer **Item Number / Title [DODIC]:** NA0170 / Close Combat Tactical Trainer

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2016												Fiscal Year 2017												BALANCE	
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2015	BAL DUE AS OF 1 OCT	Calendar Year 2016												Calendar Year 2017												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P
CONCURRENCY																															
1		2014	ARMY	40	40	-																							-		
1		2015	ARMY	108	108	-																							-		
1		2016	ARMY	223	-	223																							-		
MODERNIZATION/ TECHNOLOGY REFRESH																															
2		2017	ARMY	309	-	309																							274		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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<b>Exhibit P-21, Production Schedule:</b> PB 2017 Army															<b>Date:</b> February 2016														
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 70										<b>P-1 Line Item Number / Title:</b> NA0170 / Close Combat Tactical Trainer										<b>Item Number / Title [DODIC]:</b> NA0170 / Close Combat Tactical Trainer									

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2018										Fiscal Year 2019										B A L A N C E				
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2017	BAL DUE AS OF 1 OCT	Calendar Year 2018										Calendar Year 2019													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R		M A Y	J U N	J U L	A U G
<b>CONCURRENCY</b>																														
	1	2014	ARMY	40	40	-																								-
	1	2015	ARMY	108	108	-																								-
	1	2016	ARMY	223	223	-																								-
<b>MODERNIZATION/ TECHNOLOGY REFRESH</b>																														
	2	2017	ARMY	309	35	274	34	36	36	36	34	34	34	20	10															-
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P

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<b>Exhibit P-21, Production Schedule:</b> PB 2017 Army	<b>Date:</b> February 2016
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<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 70	<b>P-1 Line Item Number / Title:</b> NA0170 / Close Combat Tactical Trainer	<b>Item Number / Title [DODIC]:</b> NA0170 / Close Combat Tactical Trainer
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MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2017	1-8-5 For 2017	MAX For 2017	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	Lockheed Martin Corporation - Orlando	1	72	200	-	5	1	6	-	-	1	1
2	TBS - TBS	1	72	200	-	5	1	6	-	-	1	1

"A" in the Delivery Schedule indicates the Contract Award Date.

**Note:** Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

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**Exhibit P-40, Budget Line Item Justification:** PB 2017 Army **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 70: Training Equipment	<b>P-1 Line Item Number / Title:</b> NA0173 / Aviation Combined Arms Tactical Trainer
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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<b>Line Item MDAP/MAIS Code:</b> N/A	<b>Item MDAP/MAIS Code(s):</b> N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	1	-	23	15	-	15	13	12	12	23	Continuing	Continuing
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	475.394	10.040	30.068	40.000	-	40.000	36.929	33.922	36.120	35.141	Continuing	Continuing
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	475.394	10.040	30.068	40.000	-	40.000	36.929	33.922	36.120	35.141	Continuing	Continuing
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>475.394</b>	<b>10.040</b>	<b>30.068</b>	<b>40.000</b>	<b>-</b>	<b>40.000</b>	<b>36.929</b>	<b>33.922</b>	<b>36.120</b>	<b>35.141</b>	<b>Continuing</b>	<b>Continuing</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost ( <i>\$ in Thousands</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Thousands</i> )	475,394.000	-	1,307.304	2,666.667	-	2,666.667	2,840.692	2,826.833	3,010.000	1,527.870	Continuing	Continuing

**Description:**

The Aviation Combined Arms Tactical Trainer (AVCATT) is Army Aviation's only Collective Training System of Record to ensure the Active, Reserve and Army National Guard Aviation Units are trained and ready. AVCATT enables unit collective and combined arms air-ground training for AH-64, UH-60, CH-47, UH-72, and OH-58 aircrews within the Live, Virtual, Constructive (LVC) Integrated Training Environment (ITE). The AVCATT also supports the training of Non-Rated crew members in crew coordination, flight, aerial gunnery, hoist and slingload related tasks via the Non-Rated Crewmember Manned Module (NCM3); which can be linked to AVCATT's UH-60 and CH-47 cockpit configurations to support a unit's specific Mission Training Requirements.

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	
Army	Quantity	-	12	9	-	9	8	6	6	12
	Total Obligation Authority	5.221	15.635	24.807	-	24.807	21.887	17.495	18.630	18.124
ANG	Quantity	-	7	4	-	4	3	4	4	7
	Total Obligation Authority	3.062	9.171	9.654	-	9.654	9.558	10.438	11.113	10.813
AR	Quantity	-	4	2	-	2	2	2	2	4
	Total Obligation Authority	1.757	5.262	5.539	-	5.539	5.484	5.989	6.377	6.204
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	<b>-</b>	<b>23</b>	<b>15</b>	<b>-</b>	<b>15</b>	<b>13</b>	<b>12</b>	<b>12</b>	<b>23</b>
	<b>Total Obligation Authority</b>	<b>10.040</b>	<b>30.068</b>	<b>40.000</b>	<b>-</b>	<b>40.000</b>	<b>36.929</b>	<b>33.922</b>	<b>36.120</b>	<b>35.141</b>



**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** PB 2017 Army **Date:** February 2016

**Appropriation / Budget Activity / Budget Sub Activity:**  
2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 70: Training Equipment

**P-1 Line Item Number / Title:**  
NA0173 / Aviation Combined Arms Tactical Trainer

**ID Code** (A=Service Ready, B=Not Service Ready): **Program Elements for Code B Items:** N/A **Other Related Program Elements:** N/A

**Line Item MDAP/MAIS Code:** N/A **Item MDAP/MAIS Code(s):** N/A

Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	NA0173 / Aviation Combined Arms Tactical Trainer	P-5a, P-21		1 / 475.394	- / 10.040	23 / 30.068	15 / 40.000	- / -	15 / 40.000
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>			<b>1 / 475.394</b>	<b>- / 10.040</b>	<b>23 / 30.068</b>	<b>15 / 40.000</b>	<b>- / -</b>	<b>15 / 40.000</b>

\*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

**Justification:**  
AVCATT/NCM3 modernization will occur in parallel with platform concurrency upgrades that support the AH-64E v6, CH-47F v9.4, Common Operating Environment Integrated Digital Modem, Aircraft Survivability Equipment, Link 16, and UH-72 system upgrades. The aforementioned modernization upgrades are essential toward enabling the long term operation and sustainability of the AVCATT/NCM3 system, which is a key training enabler for the Active and National Guard components for training combined arms operations in a simulated, fully interactive, virtual battlefield. The AVCATT/NCM3 requirement exists to train and sustain collective (crew through battalion) tasks to meet Army readiness and mission objectives. AVCATT/NCM3 training also contributes to unit readiness by augmenting live training to train tasks that cannot be performed in a live training environment due to safety, cost, and environmental constraints.

FY 2017 Base procurement dollars in the amount of \$40.000 million supports AVCATT/NCM3 Post Deployment Software Support (PDSS), procurement of three NCM3 devices, interoperability support, replacement of obsolescent technology, replacement of obsolete components of the Helmet Mounted Display, replacement of obsolete NCM3 host computers systems, and procurement of remaining training environment virtualized hardware. Interoperability support includes the renewal of Authority to Operate for AVCATT and NCM3, resynchronization with and upgrades to the OneSAF semiautonomous forces, support for interoperability with the Close Combat Tactical Trainer (CCTT), support for interoperability with the Universal Mission Simulator (UMS), and testing/fielding of integrated Live Virtual Constructive Integrating Architecture (LVC-IA). Technology Refresh includes replacement of obsolete Intrusion Protection/Detection Systems, replacement of obsolete data switches, and replacement of obsolete servo control modules.

AVCATT/NCM3 is an integral part of the Army training strategy, and through planned platform concurrency modernization, will enable AVCATT/NCM3 to support Army Force 2025 and Beyond.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the Active and Reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 70	<b>P-1 Line Item Number / Title:</b> NA0173 / Aviation Combined Arms Tactical Trainer	<b>Item Number / Title [DODIC]:</b> NA0173 / Aviation Combined Arms Tactical Trainer

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>
Procurement Quantity (Units in Each)	1	-	23	15	-	15
Gross/Weapon System Cost (\$ in Millions)	475.394	10.040	30.068	40.000	-	40.000
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	475.394	10.040	30.068	40.000	-	40.000
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	<b>475.394</b>	<b>10.040</b>	<b>30.068</b>	<b>40.000</b>	<b>-</b>	<b>40.000</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	475,394.000	-	1,307.304	2,666.667	-	2,666.667

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

<b>Cost Elements</b>	<b>Prior Years</b>			<b>FY 2015</b>			<b>FY 2016</b>			<b>FY 2017 Base</b>			<b>FY 2017 OCO</b>			<b>FY 2017 Total</b>		
	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>
<b>Flyaway Cost</b>																		
<b>Recurring Cost</b>																		
A. Production Engineering and PMO	-	-	434.183	-	-	2.165	-	-	3.822	-	-	4.511	-	-	-	-	-	4.511
B. Software Maintenance Support (PDSS)	-	-	25.476	-	-	5.236	-	-	9.038	-	-	6.629	-	-	-	-	-	6.629
C. NCM3 Suite <sup>(†)</sup>	4,077.000	1	4.077	-	-	-	-	-	-	3,000.000	3	9.000	-	-	-	3,000.000	3	9.000
D. LVC-IA Interoperability Support	-	-	3.067	-	-	-	-	-	-	-	-	4.649	-	-	-	-	-	4.649
E. HVAC Obsolescence <sup>(†)</sup>	-	-	0.855	-	-	-	331.000	11	3.641	-	-	-	-	-	-	-	-	-
F. Technology Refresh	-	-	1.410	-	-	0.400	-	-	2.495	-	-	3.577	-	-	-	-	-	3.577
G. CH-47F and UH-60M Concurrency	-	-	6.326	-	-	0.943	-	-	-	-	-	-	-	-	-	-	-	-
H. Helmet Mounted Display Obsolescence	-	-	-	-	-	-	-	-	3.000	-	-	2.000	-	-	-	-	-	2.000
I. AH-64 & Manned Unmanned Teaming Concu	-	-	-	-	-	1.164	-	-	3.945	-	-	2.000	-	-	-	-	-	2.000
J. NCM3 Concurrency and Interoperability	-	-	-	-	-	0.132	-	-	0.467	-	-	3.974	-	-	-	-	-	3.974
K. Virtualization <sup>(†)</sup>	-	-	-	-	-	-	305.000	12	3.660	305.000	12	3.660	-	-	-	305.000	12	3.660

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<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 70	<b>P-1 Line Item Number / Title:</b> NA0173 / Aviation Combined Arms Tactical Trainer	<b>Item Number / Title [DODIC]:</b> NA0173 / Aviation Combined Arms Tactical Trainer
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :		<b>MDAP/MAIS Code:</b>

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
<i>Subtotal: Recurring Cost</i>	-	-	475.394	-	-	10.040	-	-	30.068	-	-	40.000	-	-	-	-	-	40.000
<i>Subtotal: Flyaway Cost</i>	-	-	475.394	-	-	10.040	-	-	30.068	-	-	40.000	-	-	-	-	-	40.000
<b>Gross/Weapon System Cost</b>	475,394.000	1	475.394	-	-	10.040	1,307.304	23	30.068	2,666.667	15	40.000	-	-	-	2,666.667	15	40.000

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	-	12	9	-	9
	Total Obligation Authority	5.221	15.635	24.807	-	24.807
ANG	Quantity	-	7	4	-	4
	Total Obligation Authority	3.062	9.171	9.654	-	9.654
AR	Quantity	-	4	2	-	2
	Total Obligation Authority	1.757	5.262	5.539	-	5.539
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	-	23	15	-	15
	<b>Total Obligation Authority</b>	10.040	30.068	40.000	-	40.000

(t) indicates the presence of a P-5a

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<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2017 Army							<b>Date:</b> February 2016					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 70			<b>P-1 Line Item Number / Title:</b> NA0173 / Aviation Combined Arms Tactical Trainer				<b>Item Number / Title [DODIC]:</b> NA0173 / Aviation Combined Arms Tactical Trainer					

Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
C. NCM3 Suite <sup>(†)</sup>		2017	Cymstar / Broken Arrow, OK	SS / FFP	ACC Orlando, FL	Jan 2017	Jul 2018	3	3,000.000	Y		
E. HVAC Obsolescence <sup>(†)</sup>		2016	Applied Companies / Valencia, CA	C / FFP	ACC Orlando, FL	Jul 2016	Oct 2016	11	331.000	N		
K. Virtualization <sup>(†)</sup>		2016	Cole Engineering Services, Inc / Orlando, FL	C / FFP	ACC Orlando, FL	Jul 2016	Oct 2016	12	305.000	N		
K. Virtualization <sup>(†)</sup>		2017	Cole Engineering Services, Inc / Orlando, FL	C / FFP	ACC Orlando, FL	Jul 2017	Oct 2017	12	305.000	N		

<sup>(†)</sup> indicates the presence of a P-21

**Remarks:**

Cost Element C. NCM3 Suite procurement are options on existing contracts and will be exercised when funds become available in 2QFY17. The 18 month lead time is based upon historical data for the amount of time required to produce and deliver an NCM3.

Cost Element E. HVAC award date is the date to exercise existing contract options. Contract options will be awarded after current HVAC contract options are complete.

Cost Element K. Virtualization award date is for award of a new task order to an existing indefinite delivery/indefinite quantity contract. The award of the task order and delivery in FY16 will follow completion of ongoing first article production and nonrecurring engineering. Award of subsequent virtualization contract options in FY17 is aligned to occur after the initial delivery is complete.



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<b>Exhibit P-21, Production Schedule:</b> PB 2017 Army															<b>Date:</b> February 2016									
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 70										<b>P-1 Line Item Number / Title:</b> NA0173 / Aviation Combined Arms Tactical Trainer										<b>Item Number / Title [DODIC]:</b> NA0173 / Aviation Combined Arms Tactical Trainer				

Cost Elements <i>(Units in Each)</i>					Fiscal Year 2018													Fiscal Year 2019													BALANCE		
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2017	BAL DUE AS OF 1 OCT	Calendar Year 2018													Calendar Year 2019													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			
C. NCM3 Suite																																	
Prior Years Deliveries: 1																																	
	1	2017	ARMY	3	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
E. HVAC Obsolescence																																	
	2	2016	ARMY	11	11	-																											
K. Virtualization																																	
	3	2016	ARMY	12	12	-																											
	3	2017	ARMY	12	-	12	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

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<b>Exhibit P-21, Production Schedule:</b> PB 2017 Army		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 70		<b>P-1 Line Item Number / Title:</b> NA0173 / Aviation Combined Arms Tactical Trainer
<b>Item Number / Title [DODIC]:</b> NA0173 / Aviation Combined Arms Tactical Trainer		

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2017	1-8-5 For 2017	MAX For 2017	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	Cymstar - Broken Arrow, OK	1	3	12	9	6	18	24	9	6	18	24
2	Applied Companies - Valencia, CA	1	3	12	6	3	6	9	6	3	6	9
3	Cole Engineering Services, Inc - Orlando, FL	1	3	12	6	3	6	9	6	3	6	9

"A" in the Delivery Schedule indicates the Contract Award Date.

**Note:** Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

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**Exhibit P-40, Budget Line Item Justification:** PB 2017 Army **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 70: Training Equipment	<b>P-1 Line Item Number / Title:</b> NA0176 / Gaming Technology In Support of Army Training
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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<b>Line Item MDAP/MAIS Code:</b> N/A	<b>Item MDAP/MAIS Code(s):</b> N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	18	39	-	32	-	32	10	-	12	10	Continuing	Continuing
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	29.251	10.165	9.793	11.543	-	11.543	12.303	15.002	17.994	18.653	Continuing	Continuing
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	29.251	10.165	9.793	11.543	-	11.543	12.303	15.002	17.994	18.653	Continuing	Continuing
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>29.251</b>	<b>10.165</b>	<b>9.793</b>	<b>11.543</b>	<b>-</b>	<b>11.543</b>	<b>12.303</b>	<b>15.002</b>	<b>17.994</b>	<b>18.653</b>	<b>Continuing</b>	<b>Continuing</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost ( <i>\$ in Thousands</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Thousands</i> )	1,625.056	260.641	-	360.719	-	360.719	1,230.300	-	1,499.500	1,865.300	Continuing	Continuing

**Description:**

The Games for Training (GFT) Program prepares Soldiers and leaders for combined arms maneuver operations for Force 2025 and beyond in support of the Joint Force and allies with tailorable and scalable training and mission rehearsal capabilities. Gaming Technology provides an application to train and rehearse convoy-operations, platoon level, mounted infantry tactics, dismounted operations, rules-of-engagement training, cross-cultural communications training, Improvised explosive device (IED) defeat training, route clearance, ground air coordination, Unmanned Aerial Vehicle (UAV) integration, and other small unit and individual training and mission rehearsal requirements. The GFT program satisfies the Active, the National Guard, and the Army Reserves' educational requirements in the Operational, Institutional, and Self-Development Training Domains with a low-overhead, flexible, persistent training capability on geo-specific and geo-typical terrain that is relevant with all military platforms and weapon systems. GFT comprehensively trains Company and below formations to operate in today's dynamic combat environment. GFT trains higher multi-echelon units and staffs without troops to meet Combatant Commanders' requirements.

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	
Army	Quantity	30	-	15	-	15	10	-	11	9
	Total Obligation Authority	5.939	3.265	4.505	-	4.505	5.177	4.913	7.117	7.100
ANG	Quantity	5	-	15	-	15	-	-	1	-
	Total Obligation Authority	2.188	3.264	4.645	-	4.645	3.563	5.045	5.526	5.689
AR	Quantity	4	-	2	-	2	-	-	-	1
	Total Obligation Authority	2.038	3.264	2.393	-	2.393	3.563	5.044	5.351	5.864
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	<b>39</b>	<b>-</b>	<b>32</b>	<b>-</b>	<b>32</b>	<b>10</b>	<b>-</b>	<b>12</b>	<b>10</b>
	<b>Total Obligation Authority</b>	<b>10.165</b>	<b>9.793</b>	<b>11.543</b>	<b>-</b>	<b>11.543</b>	<b>12.303</b>	<b>15.002</b>	<b>17.994</b>	<b>18.653</b>



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**Exhibit P-40, Budget Line Item Justification:** PB 2017 Army **Date:** February 2016

**Appropriation / Budget Activity / Budget Sub Activity:**  
2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 70: Training Equipment

**P-1 Line Item Number / Title:**  
NA0176 / Gaming Technology In Support of Army Training

**ID Code** (A=Service Ready, B=Not Service Ready): **Program Elements for Code B Items:** N/A **Other Related Program Elements:** N/A

**Line Item MDAP/MAIS Code:** N/A **Item MDAP/MAIS Code(s):** N/A

Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	NA0176 / Gaming Technology In Support of Army Training	P-5a		18 / 29.251	39 / 10.165	- / 9.793	32 / 11.543	- / -	32 / 11.543
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>			<b>18 / 29.251</b>	<b>39 / 10.165</b>	<b>- / 9.793</b>	<b>32 / 11.543</b>	<b>- / -</b>	<b>32 / 11.543</b>

\*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

**Justification:**

FY 2017 Base procurement dollars in the amount of \$11.543 million allows for the Games for Training (GFT) program to enable sustained readiness by efficiently and effectively building Soldier, leader, and unit competency on technical skills necessary to perform multiple mission types in accordance with current tactics, techniques and procedures in preparation for Force 2025 and beyond. Funding primarily supports the procurement of the annual renewal of the Virtual Battlespace 3 (VBS3) Flagship software license that provides Army Enterprise use rights. Additionally, funding provides for the procurement of new gaming hardware suites and gaming system refresh. The GFT program will also provide other commercial and Government off-the-shelf game software applications used to train Active, Reserve, and Army National Guard soldiers in a PC based, shared environment. Government Management will provide program management, engineering and technical oversight, contract support and travel for the GFT program. Production Engineering facilitates the GFT Common Operating Environment requirement by making Army's gaming content available over the cloud and mobile operating environments. Government Furnished Materials provides a Web Portal for the centralized distribution, repository of content and tech support of the VBS3 and gaming software for the Army training community. GFT is a critical program enabling other virtual and constructive training capabilities and the Integrated Training Environment (ITE).

Increase in Flagship License after FY15 on P5 Exhibit is due to planned increase in interface design, license management and test procedure delivery costs. FY16 Unit costs for the New Gaming Hardware Suites cost element should reflect a Unit Cost of \$100.000 thousand, and a quantity of 11 each in the P-5 and P-5a exhibits. This information is not accurately reflected in the P-5 and P-5a exhibits due to the database being locked. These quantities reflect procurement of 11 New Gaming Hardware Suites in FY16 in order to meet user requirements. The remaining 17 suites will be procured in FY17 as shown in the exhibit.

The Flyaway cost increase from FY16 to FY17 is a result of the required refresh for 15 previously procured Gaming Hardware Suites.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the Active and Reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 70	<b>P-1 Line Item Number / Title:</b> NA0176 / Gaming Technology In Support of Army Training	<b>Item Number / Title [DODIC]:</b> NA0176 / Gaming Technology In Support of Army Training

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	18	39	-	32	-	32
Gross/Weapon System Cost (\$ in Millions)	29.251	10.165	9.793	11.543	-	11.543
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	29.251	10.165	9.793	11.543	-	11.543
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	<b>29.251</b>	<b>10.165</b>	<b>9.793</b>	<b>11.543</b>	<b>-</b>	<b>11.543</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	1,625.056	260.641	-	360.719	-	360.719

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
New Gaming Hardware Suites <sup>(f)</sup>	150.000	18	2.700	100.000	39	3.900	-	-	1.100	100.000	17	1.700	-	-	-	100.000	17	1.700
Gaming Systems Refresh <sup>(f)</sup>	-	-	-	-	-	-	-	-	-	100.000	15	1.500	-	-	-	100.000	15	1.500
Fielding, Documentation	-	-	0.793	-	-	0.131	-	-	0.500	-	-	-	-	-	-	-	-	-
NET/Update Training	-	-	0.310	-	-	0.165	-	-	0.250	-	-	0.250	-	-	-	-	-	0.250
<i>Subtotal: Recurring Cost</i>	<i>-</i>	<i>-</i>	<i>3.803</i>	<i>-</i>	<i>-</i>	<i>4.196</i>	<i>-</i>	<i>-</i>	<i>1.850</i>	<i>-</i>	<i>-</i>	<i>3.450</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>3.450</i>
<i>Subtotal: Flyaway Cost</i>	<i>-</i>	<i>-</i>	<i>3.803</i>	<i>-</i>	<i>-</i>	<i>4.196</i>	<i>-</i>	<i>-</i>	<i>1.850</i>	<i>-</i>	<i>-</i>	<i>3.450</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>3.450</i>
Hardware Cost																		
Recurring Cost																		
Gaming Toolkits/ Ancillary Equipment	-	-	0.858	-	-	-	-	-	0.200	-	-	-	-	-	-	-	-	-
Modifications and Upgrades	-	-	9.231	-	-	0.116	-	-	0.103	-	-	0.275	-	-	-	-	-	0.275
<i>Subtotal: Recurring Cost</i>	<i>-</i>	<i>-</i>	<i>10.089</i>	<i>-</i>	<i>-</i>	<i>0.116</i>	<i>-</i>	<i>-</i>	<i>0.303</i>	<i>-</i>	<i>-</i>	<i>0.275</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>0.275</i>
<i>Subtotal: Hardware Cost</i>	<i>-</i>	<i>-</i>	<i>10.089</i>	<i>-</i>	<i>-</i>	<i>0.116</i>	<i>-</i>	<i>-</i>	<i>0.303</i>	<i>-</i>	<i>-</i>	<i>0.275</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>0.275</i>
Software Cost																		
Recurring Cost																		
Flagship License	-	-	8.322	-	-	4.000	-	-	5.000	-	-	4.800	-	-	-	-	-	4.800

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 70	<b>P-1 Line Item Number / Title:</b> NA0176 / Gaming Technology In Support of Army Training	<b>Item Number / Title [DODIC]:</b> NA0176 / Gaming Technology In Support of Army Training

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
<i>Subtotal: Recurring Cost</i>	-	-	8.322	-	-	4.000	-	-	5.000	-	-	4.800	-	-	-	-	-	4.800
<i>Subtotal: Software Cost</i>	-	-	8.322	-	-	4.000	-	-	5.000	-	-	4.800	-	-	-	-	-	4.800
<b>Support - Government Furnished Materials Cost</b>																		
Government Furnished Materials	-	-	1.941	-	-	0.250	-	-	0.525	-	-	0.533	-	-	-	-	-	0.533
<i>Subtotal: Support - Government Furnished Materials Cost</i>	-	-	1.941	-	-	0.250	-	-	0.525	-	-	0.533	-	-	-	-	-	0.533
<b>Support - Production Engineering Cost</b>																		
Production Engineering	-	-	-	-	-	-	-	-	-	-	-	0.532	-	-	-	-	-	0.532
<i>Subtotal: Support - Production Engineering Cost</i>	-	-	-	-	-	-	-	-	-	-	-	0.532	-	-	-	-	-	0.532
<b>Support - Program Management Cost</b>																		
Government Management	-	-	4.596	-	-	1.563	-	-	1.865	-	-	1.953	-	-	-	-	-	1.953
<i>Subtotal: Support - Program Management Cost</i>	-	-	4.596	-	-	1.563	-	-	1.865	-	-	1.953	-	-	-	-	-	1.953
<b>Support - System Technical Support (STS) Cost</b>																		
System Technical Support (STS)	-	-	0.500	-	-	0.040	-	-	0.250	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - System Technical Support (STS) Cost</i>	-	-	0.500	-	-	0.040	-	-	0.250	-	-	-	-	-	-	-	-	-
<b>Gross/Weapon System Cost</b>	1,625.056	18	29.251	260.641	39	10.165	-	-	9.793	360.719	32	11.543	-	-	-	360.719	32	11.543

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	30	-	15	-	15
	Total Obligation Authority	5.939	3.265	4.505	-	4.505
ANG	Quantity	5	-	15	-	15
	Total Obligation Authority	2.188	3.264	4.645	-	4.645
AR	Quantity	4	-	2	-	2
	Total Obligation Authority	2.038	3.264	2.393	-	2.393
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	<b>39</b>	<b>-</b>	<b>32</b>	<b>-</b>	<b>32</b>
	<b>Total Obligation Authority</b>	<b>10.165</b>	<b>9.793</b>	<b>11.543</b>	<b>-</b>	<b>11.543</b>

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<b>Exhibit P-5, Cost Analysis:</b> PB 2017 Army		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 70	<b>P-1 Line Item Number / Title:</b> NA0176 / Gaming Technology In Support of Army Training	<b>Item Number / Title [DODIC]:</b> NA0176 / Gaming Technology In Support of Army Training
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :		<b>MDAP/MAIS Code:</b>
<sup>(†)</sup> indicates the presence of a P-5a		

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<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2017 Army							<b>Date:</b> February 2016				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 70			<b>P-1 Line Item Number / Title:</b> NA0176 / Gaming Technology In Support of Army Training				<b>Item Number / Title [DODIC]:</b> NA0176 / Gaming Technology In Support of Army Training				

Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
New Gaming Hardware Suites		2015	CDWG / Chicago, IL	C / FFP	ACC Orlando, FL	Dec 2014	Apr 2015	39	100.000	Y		
New Gaming Hardware Suites		2016	TBD / TBD	TBD	ACC Orlando, FL	Mar 2016	May 2016	-	-	Y		
New Gaming Hardware Suites		2017	TBD / TBD	TBD	ACC Orlando, FL	Jan 2017	Mar 2017	17	100.000	Y		
Gaming Systems Refresh		2017	TBD / TBD	TBD	ACC Orlando, FL	Jan 2017	Mar 2017	15	100.000	Y		

**Remarks:**

New Gaming Hardware Suites are COTS procured through the ARMY CHESS Program.

As mentioned on the P-40, the FY2016 row in the P-5a should have a Quantity of 11, and Unit cost of 100.000 thousand.

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**Exhibit P-40, Budget Line Item Justification:** PB 2017 Army **Date:** February 2016

**Appropriation / Budget Activity / Budget Sub Activity:**  
2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 80: Test Measure and Dig Equipment (TMD)

**P-1 Line Item Number / Title:**  
N10000 / Calibration Sets Equipment

**ID Code** (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** N/A

**Line Item MDAP/MAIS Code:** N/A **Item MDAP/MAIS Code(s):** N/A

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	9	186	113	66	-	66	880	247	48	34	Continuing	Continuing
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	296.313	5.726	4.650	4.963	-	4.963	5.564	8.515	4.459	3.964	Continuing	Continuing
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	296.313	5.726	4.650	4.963	-	4.963	5.564	8.515	4.459	3.964	Continuing	Continuing
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>296.313</b>	<b>5.726</b>	<b>4.650</b>	<b>4.963</b>	<b>-</b>	<b>4.963</b>	<b>5.564</b>	<b>8.515</b>	<b>4.459</b>	<b>3.964</b>	<b>Continuing</b>	<b>Continuing</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost ( <i>\$ in Thousands</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Thousands</i> )	32,923.667	30.785	41.150	75.197	-	75.197	6.323	34.474	92.896	116.588	Continuing	Continuing

**Description:**

Calibration Sets Equipment (CALSETS) consists of calibration instrumentation housed in fixed facilities or contained within tactical shelters with accompanying power generation equipment. The CALSETS instrumentation provides support to maintenance units and area support organizations from brigade to multi-theater sustainment operations and ensures a cascading transfer of precision accuracy originating from the US National Institute of Standards and Technology (NIST). The calibration sets are designed to support 90 percent of the Army test, measurement and diagnostic equipment (TMDE) workload with an objective of 98 percent. The instruments and equipment procured through this program are assembled into several set configurations (AN/GSM-286, AN/GSM-287, AN/GSM-439, and AN/GSM-440, and Reference) and two tactical calibration shelters (AN/GSM-705 and AN/GSM-421A(V)2). These calibration standards sets are integral to verifying the accuracy of TMDE with mandated traceability to accuracy standards. State-of-the-art calibration equipment is required to ensure that advanced technology weapons and systems are maintained at the required state of operational readiness. Systems supported by the Calibration Sets include, but are not limited to, unmanned aerial vehicles supporting military signal and electronic intelligence operations; tactical and strategic communications; and ground and aviation platforms such as the Army family of tactical tracked and wheeled vehicles and the Apache, Blackhawk, and Chinook helicopters.

Army Acquisition Objective (AAO): AN/GSM-286 - 45; AN/GSM-287 - 67; AN/GSM-439 - 39; AN/GSM-440 - 34; AN/GSM-705 - 27; AN/GSM-421A(V)2 - 27; Secondary Reference Standards Set - 11

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	Quantity	109	77	40	-	40	585	180	29	20
	Total Obligation Authority	3.356	2.748	2.779	-	2.779	3.116	4.768	2.750	2.408
ANG	Quantity	77	36	26	-	26	295	67	19	14
	Total Obligation Authority	2.370	1.902	2.184	-	2.184	2.448	3.747	1.709	1.556
<b>Total:</b> <b>Secondary Distribution</b>	<b>Quantity</b>	<b>186</b>	<b>113</b>	<b>66</b>	<b>-</b>	<b>66</b>	<b>880</b>	<b>247</b>	<b>48</b>	<b>34</b>
	<b>Total Obligation Authority</b>	<b>5.726</b>	<b>4.650</b>	<b>4.963</b>	<b>-</b>	<b>4.963</b>	<b>5.564</b>	<b>8.515</b>	<b>4.459</b>	<b>3.964</b>

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**Exhibit P-40, Budget Line Item Justification:** PB 2017 Army **Date:** February 2016

**Appropriation / Budget Activity / Budget Sub Activity:** 2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 80: Test Measure and Dig Equipment (TMD) **P-1 Line Item Number / Title:** N10000 / Calibration Sets Equipment

**ID Code** (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** N/A

**Line Item MDAP/MAIS Code:** N/A **Item MDAP/MAIS Code(s):** N/A

Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	N10000 / Calibration Sets Equipment	P-5a, P-21	A	9 / 296.313	186 / 5.726	113 / 4.650	66 / 4.963	- / -	66 / 4.963
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>			<b>9 / 296.313</b>	<b>186 / 5.726</b>	<b>113 / 4.650</b>	<b>66 / 4.963</b>	<b>- / -</b>	<b>66 / 4.963</b>

\*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

**Justification:**  
 FY 2017 base procurement dollars in the amount of \$4.963 million support acquisition of an up-armor capable AN/GSM-421A(V)2 Tactical Calibration Shelter. This funding will also acquire pneumatic pressure calibration controllers and indicators to support various Army pressure gages and Pitot-Static Test Equipment (i.e., Army aviation altitude and airspeed tester). This calibration instrumentation is contained within the up-armor capable AN/GSM-421A(V)2 Tactical Calibration Shelter and the other CALSETS configurations.

The FY 2017 funding request was reduced by \$0.691 million to account for the availability of prior year execution balances.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

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<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>					<b>Date:</b> February 2016			
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 80			<b>P-1 Line Item Number / Title:</b> N10000 / Calibration Sets Equipment			<b>Item Number / Title [DODIC]:</b> N10000 / Calibration Sets Equipment		
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A					<b>MDAP/MAIS Code:</b>			
<b>Resource Summary</b>			<b>Prior Years</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>
Procurement Quantity (Units in Each)			9	186	113	66	-	66
Gross/Weapon System Cost (\$ in Millions)			296.313	5.726	4.650	4.963	-	4.963
Less PY Advance Procurement (\$ in Millions)			-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)			296.313	5.726	4.650	4.963	-	4.963
Plus CY Advance Procurement (\$ in Millions)			-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>			<b>296.313</b>	<b>5.726</b>	<b>4.650</b>	<b>4.963</b>	<b>-</b>	<b>4.963</b>
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>								
Initial Spares (\$ in Millions)			-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)			32,923.667	30.785	41.150	75.197	-	75.197

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
<b>Hardware Cost</b>																		
Recurring Cost																		
AN/GSM-421A(V)2 Calibration Set <sup>(†)</sup>	800.000	8	6.400	800.000	1	0.800	-	-	-	800.000	1	0.800	-	-	-	800.000	1	0.800
Accelerometer Calibrator <sup>(†)</sup>	-	-	-	19.189	37	0.710	-	-	-	-	-	-	-	-	-	-	-	-
Electronic Counter <sup>(†)</sup>	-	-	-	7.181	171	1.228	-	-	-	-	-	-	-	-	-	-	-	-
Pneumatic Pressure Controller/Indicator <sup>(†)</sup>	-	-	-	-	-	-	25.000	8	0.200	19.426	54	1.049	-	-	-	19.426	54	1.049
NGB First Unit Equipped Shortfalls	-	-	0.693	-	-	0.050	-	-	0.050	-	-	0.019	-	-	-	-	-	0.019
Calibration Accessories/Spt Instruments	-	-	-	-	-	0.039	-	-	0.134	-	-	-	-	-	-	-	-	-
Calibration Instruments	26,776.700	10	267.767	-	-	-	-	-	-	10.000	11	0.110	-	-	-	10.000	11	0.110
<i>Subtotal: Recurring Cost</i>	-	-	274.860	-	-	2.827	-	-	0.384	-	-	1.978	-	-	-	-	-	1.978
<i>Subtotal: Hardware Cost</i>	-	-	274.860	-	-	2.827	-	-	0.384	-	-	1.978	-	-	-	-	-	1.978
<b>Software Cost</b>																		
Recurring Cost																		
Calibration Software Update	-	-	-	-	-	-	-	-	-	-	-	0.075	-	-	-	-	-	0.075
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	-	0.075	-	-	-	-	-	0.075
Non Recurring Cost																		



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<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>													<b>Date:</b> February 2016					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 80						<b>P-1 Line Item Number / Title:</b> N10000 / Calibration Sets Equipment						<b>Item Number / Title [DODIC]:</b> N10000 / Calibration Sets Equipment						
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A									<b>MDAP/MAIS Code:</b>									
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Calibration Software Environment	-	-	-	-	-	-	3.596	431	1.550	-	-	-	-	-	-	-	-	-
<i>Subtotal: Non Recurring Cost</i>	-	-	-	-	-	-	-	-	1.550	-	-	-	-	-	-	-	-	-
<i>Subtotal: Software Cost</i>	-	-	-	-	-	-	-	-	<b>1.550</b>	-	-	<b>0.075</b>	-	-	-	-	-	<b>0.075</b>
Package Fielding Cost																		
Recurring Cost																		
New Equipment Training/Fielding Support	-	-	0.929	-	-	0.030	-	-	0.030	-	-	0.010	-	-	-	-	-	0.010
<i>Subtotal: Recurring Cost</i>	-	-	0.929	-	-	0.030	-	-	0.030	-	-	0.010	-	-	-	-	-	0.010
<i>Subtotal: Package Fielding Cost</i>	-	-	<b>0.929</b>	-	-	<b>0.030</b>	-	-	<b>0.030</b>	-	-	<b>0.010</b>	-	-	-	-	-	<b>0.010</b>
Logistics Cost																		
Recurring Cost																		
Technical and Logistics Data/ Services	-	-	-	-	-	0.702	-	-	0.493	-	-	0.974	-	-	-	-	-	0.974
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	0.702	-	-	0.493	-	-	0.974	-	-	-	-	-	0.974
<i>Subtotal: Logistics Cost</i>	-	-	-	-	-	<b>0.702</b>	-	-	<b>0.493</b>	-	-	<b>0.974</b>	-	-	-	-	-	<b>0.974</b>
Support - Initial Spares and Repair Parts Cost																		
Initial Spares and Repair Parts	-	-	1.460	-	-	0.020	-	-	0.020	-	-	0.015	-	-	-	-	-	0.015
<i>Subtotal: Support - Initial Spares and Repair Parts Cost</i>	-	-	<b>1.460</b>	-	-	<b>0.020</b>	-	-	<b>0.020</b>	-	-	<b>0.015</b>	-	-	-	-	-	<b>0.015</b>
Support - Production Engineering Cost																		
Production Engineering	-	-	11.171	-	-	1.741	-	-	1.759	-	-	1.469	-	-	-	-	-	1.469
<i>Subtotal: Support - Production Engineering Cost</i>	-	-	<b>11.171</b>	-	-	<b>1.741</b>	-	-	<b>1.759</b>	-	-	<b>1.469</b>	-	-	-	-	-	<b>1.469</b>
Support - Program Management Cost																		
Government Management	-	-	7.893	-	-	0.228	-	-	0.230	-	-	0.233	-	-	-	-	-	0.233
<i>Subtotal: Support - Program Management Cost</i>	-	-	<b>7.893</b>	-	-	<b>0.228</b>	-	-	<b>0.230</b>	-	-	<b>0.233</b>	-	-	-	-	-	<b>0.233</b>
Support - Quality Assurance Cost																		
Quality Assurance	-	-	-	-	-	0.178	-	-	0.184	-	-	0.189	-	-	-	-	-	0.189
<i>Subtotal: Support - Quality Assurance Cost</i>	-	-	-	-	-	<b>0.178</b>	-	-	<b>0.184</b>	-	-	<b>0.189</b>	-	-	-	-	-	<b>0.189</b>

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<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>												<b>Date:</b> February 2016					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 80						<b>P-1 Line Item Number / Title:</b> N10000 / Calibration Sets Equipment						<b>Item Number / Title [DODIC]:</b> N10000 / Calibration Sets Equipment					
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A												<b>MDAP/MAIS Code:</b>					

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Support - System Technical Support (STS) Cost																		
System Technical Support (STS)	-	-	-	-	-	-	-	-	-	-	-	0.020	-	-	-	-	-	0.020
<i>Subtotal: Support - System Technical Support (STS) Cost</i>	-	-	-	-	-	-	-	-	-	-	-	<b>0.020</b>	-	-	-	-	-	<b>0.020</b>
<b>Gross/Weapon System Cost</b>	32,923.667	9	296.313	30.785	186	5.726	41.150	113	4.650	75.197	66	4.963	-	-	-	75.197	66	4.963

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	109	77	40	-	40
	Total Obligation Authority	3.356	2.748	2.779	-	2.779
ANG	Quantity	77	36	26	-	26
	Total Obligation Authority	2.370	1.902	2.184	-	2.184
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	<b>186</b>	<b>113</b>	<b>66</b>	<b>-</b>	<b>66</b>
	<b>Total Obligation Authority</b>	<b>5.726</b>	<b>4.650</b>	<b>4.963</b>	<b>-</b>	<b>4.963</b>

(t) indicates the presence of a P-5a

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**Exhibit P-5a, Procurement History and Planning:** PB 2017 Army **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 80	<b>P-1 Line Item Number / Title:</b> N10000 / Calibration Sets Equipment	<b>Item Number / Title [DODIC]:</b> N10000 / Calibration Sets Equipment
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Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
AN/GSM-421A(V)2 Calibration Set <sup>(†)</sup>		2015	Dynetics / Huntsville, AL	C / FFP	AFCC - Eglin AFB	Feb 2016	Dec 2016	1	800.000			
AN/GSM-421A(V)2 Calibration Set <sup>(†)</sup>		2017	Dynetics / Huntsville, AL	C / FFP	AFCC - Eglin AFB	Mar 2017	Dec 2017	1	800.000	Y		
Accelerometer Calibrator		2015	Technical Communities, Inc. / San Bruno, CA	SS / FFP	ACC - Redstone	May 2015	Sep 2015	37	19.189			
Electronic Counter		2015	TBS (2) / TBD	C / FFP	ACC - Redstone	Mar 2015	Jul 2015	171	7.181			
Pneumatic Pressure Controller/ Indicator		2016	TBS (6) / TBD	C / FFP	ACC - Redstone	May 2016	Jun 2016	8	25.000	Y		Oct 2015
Pneumatic Pressure Controller/ Indicator		2017	TBS (6) / TBD	C / FFP	ACC - Redstone	Feb 2017	Apr 2017	54	19.426	Y		

<sup>(†)</sup> indicates the presence of a P-21

**Remarks:**

Numerous items are procured through the Calibration Sets Equipment program to maintain state-of-the art capabilities in the calibration sets. All equipment except the AN/GSM-421A(V)2 Calibration Set is Commercial off the Shelf (COTS).

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Exhibit P-21, Production Schedule: PB 2017 Army Date: February 2016

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 03 / 80 P-1 Line Item Number / Title: N10000 / Calibration Sets Equipment Item Number / Title [DODIC]: N10000 / Calibration Sets Equipment

Table with columns: Cost Elements, Fiscal Year 2015, Fiscal Year 2016, BALANCE. Sub-headers for Fiscal Year 2015 and 2016 include Calendar Year 2015 and Calendar Year 2016.

Prior Years Deliveries: 8. Table with columns: O C O #, M F R #, FY, SERVICE, PROC QTY, ACCEP TO 1 OCT 2014, BAL DUE AS OF 1 OCT. Rows for 2015 and 2017.

Table with columns: O C T, N O V, D E C, J A N, F E B, M A R, A P R, M A Y, J U N, J U L, A U G, S E P, O C T, N O V, D E C, J A N, F E B, M A R, A P R, M A Y, J U N, J U L, A U G, S E P

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**Exhibit P-21, Production Schedule:** PB 2017 Army **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 80	<b>P-1 Line Item Number / Title:</b> N10000 / Calibration Sets Equipment	<b>Item Number / Title [DODIC]:</b> N10000 / Calibration Sets Equipment
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2017												Fiscal Year 2018												BALANCE	
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2016	BAL DUE AS OF 1 OCT	Calendar Year 2017												Calendar Year 2018												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P
AN/GSM-421A(V)2 Calibration Set																															
Prior Years Deliveries: 8																															
	1	2015	ARMY	1	-	1	-	-	1																				-		
	1	2017	ARMY	1	-	1																							-		

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<b>Exhibit P-21, Production Schedule:</b> PB 2017 Army	<b>Date:</b> February 2016
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<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 80	<b>P-1 Line Item Number / Title:</b> N10000 / Calibration Sets Equipment	<b>Item Number / Title [DODIC]:</b> N10000 / Calibration Sets Equipment
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MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2017	1-8-5 For 2017	MAX For 2017	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	Dynetics - Huntsville, AL	1	3	9	-	10	7	17	-	5	9	14

"A" in the Delivery Schedule indicates the Contract Award Date.

**Note:** Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

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**Exhibit P-40, Budget Line Item Justification:** PB 2017 Army **Date:** February 2016

**Appropriation / Budget Activity / Budget Sub Activity:**  
2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 80: Test Measure and Dig Equipment (TMD) **P-1 Line Item Number / Title:**  
MB4000 / Integrated Family Of Test Equipment (IFTE)

**ID Code** (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0604746A

**Line Item MDAP/MAIS Code:** N/A **Item MDAP/MAIS Code(s):** N/A

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	3,224	1,437	1,253	699	-	699	610	664	700	429	Continuing	Continuing
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	702.557	37.482	34.487	29.781	-	29.781	26.752	26.745	27.502	34.446	Continuing	Continuing
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	702.557	37.482	34.487	29.781	-	29.781	26.752	26.745	27.502	34.446	Continuing	Continuing
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>702.557</b>	<b>37.482</b>	<b>34.487</b>	<b>29.781</b>	<b>-</b>	<b>29.781</b>	<b>26.752</b>	<b>26.745</b>	<b>27.502</b>	<b>34.446</b>	<b>Continuing</b>	<b>Continuing</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost ( <i>\$ in Thousands</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Thousands</i> )	217.915	26.084	27.524	42.605	-	42.605	43.856	40.279	39.289	80.294	Continuing	Continuing

**Description:**

The Integrated Family of Test Equipment (IFTE) includes the Maintenance Support Device (MSD) for field-level support and the Next Generation Automatic Test System (NGATS) for consolidation of off-system automatic test and diagnostic equipment requirements. The IFTE systems provide electronic fault isolation, diagnostic and repair capabilities at all levels of maintenance and do it more cost effectively than system-specific testers. They are designed to and are capable of supporting multiple weapons systems. The MSD fleet consists of portable rugged and light (non-rugged) test and diagnostic equipment used at all levels of maintenance to automatically diagnose electronic and automotive subsystems of the Army's ground and aviation weapon systems. The MSD systems provide test and diagnostic support and maintenance automation capabilities that are critical to the readiness of Army units and their equipment. They host interactive electronic technical manuals and expert diagnostics systems, conduct intrusive testing in support of Army weapons and electronic systems, and provide a means to upload/download mission-critical software into weapon system on-board computer electronics. The MSDs are being fielded to support approved Army force structure requirements. They will host the Digital Logbook and Global Combat Support System-Army (GCSS-A) software, provide Army maintainers the capability to connect to the logistics enterprise, and perform maintenance management in an information-enabled environment. The MSDs are the Army's standard at-system test and diagnostic equipment. They are an essential maintenance tool in the support plans for the Army's ground vehicle and aviation fleets, and are in widespread use in deployed units. The NGATS is a mobile, rapidly deployable, reconfigurable general-purpose automatic test and diagnostic system which provides sustainment level maintenance testing and screening directly to the Army's major weapons systems in order to maintain the readiness and availability of those combat systems. NGATS maintains backward compatibility with previous IFTE versions, is Joint Services Next-Generation Test (NxTest) compliant, and includes interservice testing and diagnostic support capability. It is capable of satisfying field, sustainment and depot level requirements for fault isolation, diagnostics and off-system repair of current and future weapons systems. NGATS will be the single automatic test and diagnostic solution in the Army by incrementally replacing the Direct Support Electrical Systems Test Set (DSESTS), all previous IFTE Base Shop Test Facility versions, and depot system-specific automatic test equipment. It is the platform for transitioning Agile Rapid Global Combat Support System (ARGCS) technologies into the Army's weapon system support structure. The ARGCS Advanced Concept Technology Demonstration (ACTD) was sponsored by the Department of Defense (DoD), and all Services are expected to transition demonstrated technologies into their automatic test system (ATS) programs. The NGATS eliminates the requirement for the 1970s era DSESTS and reduces the associated logistics burden and cost of support. It implements a modern test and diagnostic capability to support the new generation of ground-based targeting and observation sensor packages for individual, crew and intelligence gathering systems and equipment such as Stryker Remote Weapons Station (RWS), Improved Tube-launched Optically-tracked Wire-guided missile (TOW) Acquisition System (ITAS), Common Remotely Operated Weapons Station (CROWS) and Common Missile Warning System (CMWS) and also has the ability to improve the testing and diagnostic support of legacy weapons systems.

Army Acquisition Objective (AAO): MSD - 39,487; NGATS - 184

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**Exhibit P-40, Budget Line Item Justification:** PB 2017 Army **Date:** February 2016

**Appropriation / Budget Activity / Budget Sub Activity:** 2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 80: Test Measure and Dig Equipment (TMD) **P-1 Line Item Number / Title:** MB4000 / Integrated Family Of Test Equipment (IFTE)

**ID Code** (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0604746A

**Line Item MDAP/MAIS Code:** N/A **Item MDAP/MAIS Code(s):** N/A

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	Quantity	633	129	74	-	74	65	70	74	48
	Total Obligation Authority	23.928	13.039	16.737	-	16.737	16.464	15.891	16.051	23.057
ANG	Quantity	603	900	500	-	500	485	475	334	203
	Total Obligation Authority	10.842	17.174	10.435	-	10.435	9.145	8.683	6.107	6.074
AR	Quantity	201	224	125	-	125	60	119	292	178
	Total Obligation Authority	2.712	4.274	2.609	-	2.609	1.143	2.171	5.344	5.315
<b>Total:</b>	<b>Quantity</b>	<b>1,437</b>	<b>1,253</b>	<b>699</b>	<b>-</b>	<b>699</b>	<b>610</b>	<b>664</b>	<b>700</b>	<b>429</b>
<b>Secondary Distribution</b>	<b>Total Obligation Authority</b>	<b>37.482</b>	<b>34.487</b>	<b>29.781</b>	<b>-</b>	<b>29.781</b>	<b>26.752</b>	<b>26.745</b>	<b>27.502</b>	<b>34.446</b>



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**Exhibit P-40, Budget Line Item Justification:** PB 2017 Army **Date:** February 2016

**Appropriation / Budget Activity / Budget Sub Activity:** 2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 80: Test Measure and Dig Equipment (TMD) **P-1 Line Item Number / Title:** MB4000 / Integrated Family Of Test Equipment (IFTE)

**ID Code** (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0604746A

**Line Item MDAP/MAIS Code:** N/A **Item MDAP/MAIS Code(s):** N/A

Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	MB4002 / Maintenance Support Device	P-5a, P-21	A	3,215 / 582.399	1,435 / 24.643	1,250 / 23.852	695 / 14.493	- / -	695 / 14.493
P-5	MB4004 / Next Generation Automatic Test System (NGATS)	P-5a, P-21	B	9 / 120.158	2 / 12.839	3 / 10.635	4 / 15.288	- / -	4 / 15.288
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>			<b>3,224 / 702.557</b>	<b>1,437 / 37.482</b>	<b>1,253 / 34.487</b>	<b>699 / 29.781</b>	<b>- / -</b>	<b>699 / 29.781</b>

\*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

**Justification:**

FY 2017 Base procurement dollars in the amount of \$29.781 million support acquisition of 4 NGATS and 695 MSDs to satisfy critical test and diagnostic requirements of Army warfighting systems and to support a balanced investment strategy for the Army's approved force structure requirements. Acquisition of the NGATS will continue deployment of a multi-purpose, multi-echelon off-platform automatic test and diagnostic capability to support many of the Army's weapons platforms such as Abrams, Bradley, Duke, Stryker, CROWS M777, Paladin Integrated Management (PIM), TOW, Avenger and Multiple Launch Rocket System and to achieve the stated DoD goal of replacing multiple single function, aging, obsolete and costly automatic test systems with a single tester capable of supporting all weapons systems at field, sustainment and depot maintenance levels. This funding implements the net-centric logistics capability ensuring maintenance data is leveraged at all support levels through a closed loop data sharing architecture that supports the future logistics concepts such as Common Logistics Operating Environment (CLOE) as well as improved diagnostics by linking embedded diagnostics and condition-based maintenance. Acquisition of the MSDs will satisfy approved Army force structure requirements. This equipment provides critical test and diagnostics support for weapons and support systems such as the Abrams, Bradley, Stryker, Blackhawk, Chinook, Apache, Kiowa Warrior, Patriot, Mine-Resistant Ambush-Protected (MRAP) vehicle, and the Army's diesel-powered tactical wheeled vehicles.

The FY 2017 funding request was reduced by \$0.245 million to account for prior year execution balances.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

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<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>					<b>Date:</b> February 2016				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 80			<b>P-1 Line Item Number / Title:</b> MB4000 / Integrated Family Of Test Equipment (IFTE)				<b>Item Number / Title [DODIC]:</b> MB4002 / Maintenance Support Device		
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A					<b>MDAP/MAIS Code:</b>				
<b>Resource Summary</b>			<b>Prior Years</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>	
Procurement Quantity (Units in Each)			3,215	1,435	1,250	695	-	695	
Gross/Weapon System Cost (\$ in Millions)			582.399	24.643	23.852	14.493	-	14.493	
Less PY Advance Procurement (\$ in Millions)			-	-	-	-	-	-	
Net Procurement (P-1) (\$ in Millions)			582.399	24.643	23.852	14.493	-	14.493	
Plus CY Advance Procurement (\$ in Millions)			-	-	-	-	-	-	
<b>Total Obligation Authority (\$ in Millions)</b>			<b>582.399</b>	<b>24.643</b>	<b>23.852</b>	<b>14.493</b>	<b>-</b>	<b>14.493</b>	
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>									
Initial Spares (\$ in Millions)			-	-	-	-	-	-	
Gross/Weapon System Unit Cost (\$ in Thousands)			181.151	17.173	19.082	20.853	-	20.853	

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
<b>Hardware Cost</b>																		
Recurring Cost																		
MSD/MSD Internal Com Eng (ICE) (Rugged) <sup>(f)</sup>	16.372	19,474	318.833	12.741	1,435	18.284	12.371	1,250	15.464	11.164	695	7.759	-	-	-	11.164	695	7.759
<i>Subtotal: Recurring Cost</i>	-	-	318.828	-	-	18.283	-	-	15.464	-	-	7.759	-	-	-	-	-	7.759
<i>Subtotal: Hardware Cost</i>	-	-	<b>318.828</b>	-	-	<b>18.283</b>	-	-	<b>15.464</b>	-	-	<b>7.759</b>	-	-	-	-	-	<b>7.759</b>
<b>Package Fielding Cost</b>																		
Recurring Cost																		
New Equipment Training/Fielding Support	-	-	3.194	-	-	0.728	-	-	0.532	-	-	0.525	-	-	-	-	-	0.525
Shipping Equipment to the Field	-	-	0.348	-	-	0.146	-	-	0.110	-	-	0.060	-	-	-	-	-	0.060
<i>Subtotal: Recurring Cost</i>	-	-	3.542	-	-	0.874	-	-	0.642	-	-	0.585	-	-	-	-	-	0.585
<i>Subtotal: Package Fielding Cost</i>	-	-	<b>3.542</b>	-	-	<b>0.874</b>	-	-	<b>0.642</b>	-	-	<b>0.585</b>	-	-	-	-	-	<b>0.585</b>
<b>Support - Initial Spares and Repair Parts Cost</b>																		
Initial Spares and Repair Parts	-	-	-	-	-	0.820	-	-	0.296	-	-	0.176	-	-	-	-	-	0.176
<i>Subtotal: Support - Initial Spares and Repair Parts Cost</i>	-	-	-	-	-	<b>0.820</b>	-	-	<b>0.296</b>	-	-	<b>0.176</b>	-	-	-	-	-	<b>0.176</b>
<b>Support - Production Engineering Cost</b>																		
Production Engineering	-	-	10.905	-	-	2.990	-	-	4.811	-	-	4.437	-	-	-	-	-	4.437

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<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>												<b>Date:</b> February 2016					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 80						<b>P-1 Line Item Number / Title:</b> MB4000 / Integrated Family Of Test Equipment (IFTE)						<b>Item Number / Title [DODIC]:</b> MB4002 / Maintenance Support Device					
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A												<b>MDAP/MAIS Code:</b>					

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
<i>Subtotal: Support - Production Engineering Cost</i>	-	-	10.905	-	-	2.990	-	-	4.811	-	-	4.437	-	-	-	-	-	4.437
Support - Program Management Cost																		
Government Management	-	-	4.294	-	-	0.830	-	-	0.779	-	-	0.417	-	-	-	-	-	0.417
<i>Subtotal: Support - Program Management Cost</i>	-	-	4.294	-	-	0.830	-	-	0.779	-	-	0.417	-	-	-	-	-	0.417
Support - Quality Assurance Cost																		
Quality Assurance	-	-	0.463	-	-	0.090	-	-	0.087	-	-	0.070	-	-	-	-	-	0.070
<i>Subtotal: Support - Quality Assurance Cost</i>	-	-	0.463	-	-	0.090	-	-	0.087	-	-	0.070	-	-	-	-	-	0.070
Support - System Technical Support (STS) Cost																		
System Technical Support (STS)	-	-	244.367	-	-	0.755	-	-	1.773	-	-	0.806	-	-	-	-	-	0.806
<i>Subtotal: Support - System Technical Support (STS) Cost</i>	-	-	244.367	-	-	0.755	-	-	1.773	-	-	0.806	-	-	-	-	-	0.806
Support - System Test and Evaluation Cost																		
Test and Evaluation Support	-	-	-	-	-	-	-	-	-	-	-	0.243	-	-	-	-	-	0.243
<i>Subtotal: Support - System Test and Evaluation Cost</i>	-	-	-	-	-	-	-	-	-	-	-	0.243	-	-	-	-	-	0.243
<b>Gross/Weapon System Cost</b>	<b>181.151</b>	<b>3,215</b>	<b>582.399</b>	<b>17.173</b>	<b>1,435</b>	<b>24.643</b>	<b>19.082</b>	<b>1,250</b>	<b>23.852</b>	<b>20.853</b>	<b>695</b>	<b>14.493</b>	-	-	-	<b>20.853</b>	<b>695</b>	<b>14.493</b>

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	631	126	70	-	70
	Total Obligation Authority	11.089	2.404	1.449	-	1.449
ANG	Quantity	603	900	500	-	500
	Total Obligation Authority	10.842	17.174	10.435	-	10.435
AR	Quantity	201	224	125	-	125
	Total Obligation Authority	2.712	4.274	2.609	-	2.609
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	<b>1,435</b>	<b>1,250</b>	<b>695</b>	-	<b>695</b>
	<b>Total Obligation Authority</b>	<b>24.643</b>	<b>23.852</b>	<b>14.493</b>	-	<b>14.493</b>

(†) indicates the presence of a P-5a

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**Exhibit P-5a, Procurement History and Planning:** PB 2017 Army **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 80	<b>P-1 Line Item Number / Title:</b> MB4000 / Integrated Family Of Test Equipment (IFTE)	<b>Item Number / Title [DODIC]:</b> MB4002 / Maintenance Support Device
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Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
MSD/MSD Internal Com Eng (ICE) (Rugged) <sup>(†)</sup>		2015	Miltope Corporation / Hope Hull, AL	C / FFP	ACC-Picatiny	Jun 2015	Dec 2015	1,435	12.741			
MSD/MSD Internal Com Eng (ICE) (Rugged) <sup>(†)</sup>		2016	Miltope Corporation / Hope Hull, AL	C / FFP	ACC-Picatiny	Mar 2016	Sep 2016	1,250	12.371	Y		
MSD/MSD Internal Com Eng (ICE) (Rugged) <sup>(†)</sup>		2017	TBS / TBD	C / FFP	ACC-Picatiny	Jan 2017	Jul 2017	695	11.164	Y		Apr 2016

<sup>(†)</sup> indicates the presence of a P-21

**Remarks:**

Unit costs vary from year to year depending upon the configurations purchased to meet projected fielding requirements. Maintenance Support Device (MSD) systems are costed and programmed normally with 65 percent of the MSD fleet equipped with an Internal Combustion Engine (ICE) test adapter kit (MSD-ICE).

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**Exhibit P-21, Production Schedule:** PB 2017 Army **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 80	<b>P-1 Line Item Number / Title:</b> MB4000 / Integrated Family Of Test Equipment (IFTE)	<b>Item Number / Title [DODIC]:</b> MB4002 / Maintenance Support Device
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2015												Fiscal Year 2016												B A L A N C E	
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2014	BAL DUE AS OF 1 OCT	Calendar Year 2015												Calendar Year 2016												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P
MSD/MSD Internal Com Eng (ICE) (Rugged)																															
Prior Years Deliveries: 19474																															
	1	2015	ARMY	1,435	-	1,435																									
	1	2016	ARMY	1,250	-	1,250																									
	2	2017	ARMY	695	-	695																									
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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**Exhibit P-21, Production Schedule:** PB 2017 Army **Date:** February 2016

**Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 03 / 80 **P-1 Line Item Number / Title:** MB4000 / Integrated Family Of Test Equipment (IFTE) **Item Number / Title [DODIC]:** MB4002 / Maintenance Support Device

Cost Elements <i>(Units in Each)</i>					Fiscal Year 2017													Fiscal Year 2018												BALANCE		
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEP T P R I O R T O 1 O C T 2 0 1 6	BAL D U E A S O F 1 O C T	Calendar Year 2017													Calendar Year 2018												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P	
MSD/MSD Internal Com Eng (ICE) (Rugged)																																
Prior Years Deliveries: 19474																																
1	2015	ARMY	1,435	1,435	-																								-			
1	2016	ARMY	1,250	65	1,185	150	150	150	150	150	150	150	135																-			
2	2017	ARMY	695	-	695				A	-	-	-	-	-	50	50	75	75	75	75	75	75	75	75	70				-			
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

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<b>Exhibit P-21, Production Schedule:</b> PB 2017 Army	<b>Date:</b> February 2016
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<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 80	<b>P-1 Line Item Number / Title:</b> MB4000 / Integrated Family Of Test Equipment (IFTE)	<b>Item Number / Title [DODIC]:</b> MB4002 / Maintenance Support Device
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MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2017	1-8-5 For 2017	MAX For 2017	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	Miltope Corporation - Hope Hull, AL	500	1,500	4,000	-	6	3	9	-	6	6	12
2	TBS - TBD	100	500	1,500	7	4	6	10	-	-	-	-

"A" in the Delivery Schedule indicates the Contract Award Date.

**Note:** Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

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<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 80	<b>P-1 Line Item Number / Title:</b> MB4000 / Integrated Family Of Test Equipment (IFTE)	<b>Item Number / Title [DODIC]:</b> MB4004 / Next Generation Automatic Test System (NGATS)

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : B				<b>MDAP/MAIS Code:</b>			
<b>Resource Summary</b>		<b>Prior Years</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>
Procurement Quantity (Units in Each)		9	2	3	4	-	4
Gross/Weapon System Cost (\$ in Millions)		120.158	12.839	10.635	15.288	-	15.288
Less PY Advance Procurement (\$ in Millions)		-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)		120.158	12.839	10.635	15.288	-	15.288
Plus CY Advance Procurement (\$ in Millions)		-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>		<b>120.158</b>	<b>12.839</b>	<b>10.635</b>	<b>15.288</b>	<b>-</b>	<b>15.288</b>
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>							
Initial Spares (\$ in Millions)		-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)		13,350.889	6,419.500	3,545.000	3,822.000	-	3,822.000

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
<b>Hardware Cost</b>																		
Recurring Cost																		
Next Generation Automatic Test System <sup>(†)</sup>	2,275.889	9	20.483	1,624.000	2	3.248	2,500.000	3	7.500	2,500.000	4	10.000	-	-	-	2,500.000	4	10.000
Support Equipment	-	-	62.877	-	-	1.654	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	83.360	-	-	4.902	-	-	7.500	-	-	10.000	-	-	-	-	-	10.000
<b>Subtotal: Hardware Cost</b>	-	-	<b>83.360</b>	-	-	<b>4.902</b>	-	-	<b>7.500</b>	-	-	<b>10.000</b>	-	-	-	-	-	<b>10.000</b>
<b>Software Cost</b>																		
Recurring Cost																		
Test Program Set Support	-	-	13.629	-	-	1.598	-	-	-	-	-	0.347	-	-	-	-	-	0.347
<i>Subtotal: Recurring Cost</i>	-	-	13.629	-	-	1.598	-	-	-	-	-	0.347	-	-	-	-	-	0.347
<b>Subtotal: Software Cost</b>	-	-	<b>13.629</b>	-	-	<b>1.598</b>	-	-	-	-	-	<b>0.347</b>	-	-	-	-	-	<b>0.347</b>
<b>Logistics Cost</b>																		
Recurring Cost																		
Technical and Logistics Data/ Services	-	-	-	-	-	2.500	-	-	1.277	-	-	1.200	-	-	-	-	-	1.200
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	2.500	-	-	1.277	-	-	1.200	-	-	-	-	-	1.200
<b>Subtotal: Logistics Cost</b>	-	-	-	-	-	<b>2.500</b>	-	-	<b>1.277</b>	-	-	<b>1.200</b>	-	-	-	-	-	<b>1.200</b>
Support - Initial Spares and Repair Parts Cost																		



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<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 80	<b>P-1 Line Item Number / Title:</b> MB4000 / Integrated Family Of Test Equipment (IFTE)	<b>Item Number / Title [DODIC]:</b> MB4004 / Next Generation Automatic Test System (NGATS)
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : B		<b>MDAP/MAIS Code:</b>

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Initial Spares and Repair Parts	-	-	11.784	-	-	2.000	-	-	-	-	-	1.831	-	-	-	-	-	1.831
<i>Subtotal: Support - Initial Spares and Repair Parts Cost</i>	-	-	<b>11.784</b>	-	-	<b>2.000</b>	-	-	-	-	-	<b>1.831</b>	-	-	-	-	-	<b>1.831</b>
Support - Production Engineering Cost																		
Production Engineering	-	-	9.029	-	-	1.039	-	-	1.030	-	-	1.061	-	-	-	-	-	1.061
<i>Subtotal: Support - Production Engineering Cost</i>	-	-	<b>9.029</b>	-	-	<b>1.039</b>	-	-	<b>1.030</b>	-	-	<b>1.061</b>	-	-	-	-	-	<b>1.061</b>
Support - Program Management Cost																		
Government Management	-	-	2.356	-	-	0.800	-	-	0.828	-	-	0.849	-	-	-	-	-	0.849
<i>Subtotal: Support - Program Management Cost</i>	-	-	<b>2.356</b>	-	-	<b>0.800</b>	-	-	<b>0.828</b>	-	-	<b>0.849</b>	-	-	-	-	-	<b>0.849</b>
<b>Gross/Weapon System Cost</b>	<b>13,350.889</b>	<b>9</b>	<b>120.158</b>	<b>6,419.500</b>	<b>2</b>	<b>12.839</b>	<b>3,545.000</b>	<b>3</b>	<b>10.635</b>	<b>3,822.000</b>	<b>4</b>	<b>15.288</b>	-	-	-	<b>3,822.000</b>	<b>4</b>	<b>15.288</b>

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	2	3	4	-	4
	Total Obligation Authority	12.839	10.635	15.288	-	15.288
<b>Total:</b>	Quantity	<b>2</b>	<b>3</b>	<b>4</b>	<b>-</b>	<b>4</b>
<b>Secondary Distribution</b>	Total Obligation Authority	<b>12.839</b>	<b>10.635</b>	<b>15.288</b>	<b>-</b>	<b>15.288</b>

(t) indicates the presence of a P-5a

**UNCLASSIFIED**

<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2017 Army							<b>Date:</b> February 2016					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 80			<b>P-1 Line Item Number / Title:</b> MB4000 / Integrated Family Of Test Equipment (IFTE)				<b>Item Number / Title [DODIC]:</b> MB4004 / Next Generation Automatic Test System (NGATS)					

Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
Next Generation Automatic Test System <sup>(†)</sup>		2015	Boeing Company / St. Louis	C / FFP	ACC-Picatiny	Jun 2015	Jun 2016	2	1,624.000			
Next Generation Automatic Test System <sup>(†)</sup>		2016	Boeing Company / St. Louis	C / FFP	ACC-Picatiny	Jan 2016	Jan 2017	3	2,500.000			
Next Generation Automatic Test System <sup>(†)</sup>		2017	Boeing Company / St. Louis	C / FFP	ACC-Picatiny	Jan 2017	Jan 2018	4	2,500.000	Y		

<sup>(†)</sup> indicates the presence of a P-21

**Remarks:**

The systems to be procured in FY 2016 and FY 2017 will be sheltered versions necessary for field deployment. The unit cost is lower for the systems procured in FY 2015 since they are a free-standing (non-sheltered) version for fielding to Army depots and avoid the shelter and integration costs associated with the mobile version.

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<b>Exhibit P-21, Production Schedule:</b> PB 2017 Army															<b>Date:</b> February 2016														
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 80										<b>P-1 Line Item Number / Title:</b> MB4000 / Integrated Family Of Test Equipment (IFTE)										<b>Item Number / Title [DODIC]:</b> MB4004 / Next Generation Automatic Test System (NGATS)									

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2015													Fiscal Year 2016													B A L A N C E	
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2014	BAL DUE AS OF 1 OCT	Calendar Year 2015													Calendar Year 2016													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			
Next Generation Automatic Test System																																	
Prior Years Deliveries: 9																																	
	1	2015	ARMY	2	-	2																											
	1	2016	ARMY	3	-	3																											
	1	2017	ARMY	4	-	4																											
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

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<b>Exhibit P-21, Production Schedule:</b> PB 2017 Army															<b>Date:</b> February 2016														
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 80										<b>P-1 Line Item Number / Title:</b> MB4000 / Integrated Family Of Test Equipment (IFTE)										<b>Item Number / Title [DODIC]:</b> MB4004 / Next Generation Automatic Test System (NGATS)									

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2017													Fiscal Year 2018													BALANCE	
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2016	BAL DUE AS OF 1 OCT	Calendar Year 2017													Calendar Year 2018													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			
Next Generation Automatic Test System																																	
Prior Years Deliveries: 9																																	
1		2015	ARMY	2	2	-																							-				
1		2016	ARMY	3	-	3	-	-	-		1	-	-		1	-	-		1										-				
1		2017	ARMY	4	-	4					A	-	-	-	-	-	-	-	-	-	1	-	-	1	-	-	1	-	-	1			
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

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<b>Exhibit P-21, Production Schedule:</b> PB 2017 Army																							<b>Date:</b> February 2016							
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 80										<b>P-1 Line Item Number / Title:</b> MB4000 / Integrated Family Of Test Equipment (IFTE)										<b>Item Number / Title [DODIC]:</b> MB4004 / Next Generation Automatic Test System (NGATS)										
Cost Elements <i>(Units in Each)</i>					Fiscal Year 2019										Fiscal Year 2020										B A L A N C E					
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2018	BAL DUE AS OF 1 OCT	Calendar Year 2019										Calendar Year 2020													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R		A P R	M A Y	J U N	J U L	A U G
Next Generation Automatic Test System																														
Prior Years Deliveries: 9																														
	1	2015	ARMY	2	2	-																							-	
	1	2016	ARMY	3	3	-																							-	
	1	2017	ARMY	4	3	1	1																						-	
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P

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<b>Exhibit P-21, Production Schedule:</b> PB 2017 Army		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 80		<b>P-1 Line Item Number / Title:</b> MB4000 / Integrated Family Of Test Equipment (IFTE)
		<b>Item Number / Title [DODIC]:</b> MB4004 / Next Generation Automatic Test System (NGATS)

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2017	1-8-5 For 2017	MAX For 2017	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	Boeing Company - St. Louis	1	5	15	8	8	12	20	-	4	12	16

"A" in the Delivery Schedule indicates the Contract Award Date.

**Note:** Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

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**Exhibit P-40, Budget Line Item Justification:** PB 2017 Army **Date:** February 2016

**Appropriation / Budget Activity / Budget Sub Activity:**  
2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 80: Test Measure and Dig Equipment (TMD)

**P-1 Line Item Number / Title:**  
N11000 / Test Equipment Modernization (TEMOD)

**ID Code** (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** N/A

**Line Item MDAP/MAIS Code:** N/A **Item MDAP/MAIS Code(s):** N/A

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	16,594	616	586	342	251	593	1,023	352	488	156	Continuing	Continuing
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	340.659	11.711	11.083	6.342	1.140	7.482	9.880	10.769	9.914	9.916	Continuing	Continuing
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	340.659	11.711	11.083	6.342	1.140	7.482	9.880	10.769	9.914	9.916	Continuing	Continuing
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>340.659</b>	<b>11.711</b>	<b>11.083</b>	<b>6.342</b>	<b>1.140</b>	<b>7.482</b>	<b>9.880</b>	<b>10.769</b>	<b>9.914</b>	<b>9.916</b>	<b>Continuing</b>	<b>Continuing</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost ( <i>\$ in Thousands</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Thousands</i> )	20.529	19.011	18.913	18.544	4.542	12.617	9.658	30.594	20.316	63.564	Continuing	Continuing

**Description:**

The Test Equipment Modernization (TEMOD) program improves the materiel readiness of Army weapon systems, minimizes general-purpose Test, Measurement, and Diagnostic Equipment (TMDE) proliferation and obsolescence and also reduces the Army's operations and support costs. These objectives are accomplished through the cost-effective acquisition of state-of-the-art test equipment that is employed for verifying accuracy, operability and safety of Army weapon systems and for supporting those systems at all maintenance levels. The TEMOD program procures general-purpose TMDE that supports all Army commodities and is essential to the continued support of weapon system platforms such as the Abrams Tank, Bradley Fighting Vehicle, Apache Helicopter, Patriot, and Single-Channel Ground and Airborne Radio System (SINCGARS), as well as other weapon systems scheduled for fielding to the current and future forces.

Army Acquisition Objective (AAO): Telecommunications System Test Set - 484; Oscilloscope (High End) - 1553; Oscilloscope (Low End) - 1294; Radio Frequency (RF) Power Meter Test Set - 939

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	Quantity	265	250	146	251	397	438	149	208	66
	Total Obligation Authority	5.038	4.732	2.664	1.140	3.804	4.156	4.543	4.183	4.185
ANG	Quantity	230	219	128	-	128	381	132	181	58
	Total Obligation Authority	4.373	4.134	2.394	-	2.394	3.726	4.053	3.731	3.731
AR	Quantity	121	117	68	-	68	204	71	99	32
	Total Obligation Authority	2.300	2.217	1.284	-	1.284	1.998	2.173	2.000	2.000
<b>Total:</b>	<b>Quantity</b>	<b>616</b>	<b>586</b>	<b>342</b>	<b>251</b>	<b>593</b>	<b>1,023</b>	<b>352</b>	<b>488</b>	<b>156</b>
<b>Secondary Distribution</b>	<b>Total Obligation Authority</b>	<b>11.711</b>	<b>11.083</b>	<b>6.342</b>	<b>1.140</b>	<b>7.482</b>	<b>9.880</b>	<b>10.769</b>	<b>9.914</b>	<b>9.916</b>

**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** PB 2017 Army **Date:** February 2016

**Appropriation / Budget Activity / Budget Sub Activity:** 2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 80: Test Measure and Dig Equipment (TMD) **P-1 Line Item Number / Title:** N11000 / Test Equipment Modernization (TEMOD)

**ID Code** (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** N/A

**Line Item MDAP/MAIS Code:** N/A **Item MDAP/MAIS Code(s):** N/A

Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	N11000 / Test Equipment Modernization (TEMOD)	P-5a	A	16,594 / 340.659	616 / 11.711	586 / 11.083	342 / 6.342	251 / 1.140	593 / 7.482
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>			<b>16,594 / 340.659</b>	<b>616 / 11.711</b>	<b>586 / 11.083</b>	<b>342 / 6.342</b>	<b>251 / 1.140</b>	<b>593 / 7.482</b>

\*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

**Justification:**

FY 2017 Base procurement dollars in the amount of \$6.342 million support acquisition of additional quantities of the Telecommunications System Test Set, the RF Power Meter, the High End Oscilloscope and the Low End Oscilloscope. The Telecommunications System Test Set analyzes signal quality between communication systems to ensure data exchange accurately. The High End Oscilloscope will be used to test, adjust, repair and align communications and electronic systems. The Low End Oscilloscope will be portable and used to test, adjust, repair, and align communications and electronic systems. The RF Power Meter Test Set is a micro-processor based solid-state RF microwatt meter. It has the ability to take measurements such as oscillator power, gain and insertion loss, RF attenuation, antenna, low-power transmitter, signal generator, standing wave ratio and return loss measurements with directional couplers and slotted lines on radios, satellite communication systems and RADAR systems (Sentinel and Patriot). Lack of these capabilities will impact unit readiness levels and incur unnecessary risks for Army personnel and equipment. By using a streamlined acquisition process, the TEMOD program realizes discounts of up to 55 percent from the manufacturers' suggested retail prices.

The FY17 OCO includes \$1.140 million to support the Combatant Command (COCOM) requirement for unit equipment sets to deter potential adversaries and support the European Reassurance Initiatives. The procurements include various makes and models of general-purpose electronic test equipment.

The FY 2017 funding request was reduced by \$2.538 million to account for the availability of prior year execution balances.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.



**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 80		<b>P-1 Line Item Number / Title:</b> N11000 / Test Equipment Modernization (TEMOD)
		<b>Item Number / Title [DODIC]:</b> N11000 / Test Equipment Modernization (TEMOD)

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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Resource Summary		Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)		16,594	616	586	342	251	593
Gross/Weapon System Cost (\$ in Millions)		340.659	11.711	11.083	6.342	1.140	7.482
Less PY Advance Procurement (\$ in Millions)		-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)		340.659	11.711	11.083	6.342	1.140	7.482
Plus CY Advance Procurement (\$ in Millions)		-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>		<b>340.659</b>	<b>11.711</b>	<b>11.083</b>	<b>6.342</b>	<b>1.140</b>	<b>7.482</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares (\$ in Millions)	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	20.529	19.011	18.913	18.544	4.542	12.617	

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
<b>Hardware Cost</b>																		
Recurring Cost																		
Telecommunications System Test Set <sup>(†)</sup>	-	-	1.400	35.000	40	1.400	35.000	70	2.450	35.000	23	0.805	35.000	10	0.350	35.000	33	1.155
Oscilloscope High End OS-305 <sup>(†)</sup>	-	-	-	11.000	119	1.309	11.000	230	2.530	11.000	95	1.045	11.000	10	0.110	11.000	105	1.155
RF Power Meter Test Set <sup>(†)</sup>	-	-	-	9.000	350	3.150	9.000	181	1.629	9.000	134	1.206	9.000	11	0.099	9.000	145	1.305
Oscilloscope Low End OS-307 <sup>(†)</sup>	-	-	-	3.500	360	1.260	3.500	105	0.368	3.500	90	0.315	3.500	10	0.035	3.500	100	0.350
Support Equipment	16.762	17,798	298.333	-	-	0.603	-	-	0.618	-	-	-	2.600	210	0.546	2.600	210	0.546
Maintenance Fixtures	-	-	3.788	-	-	0.200	-	-	0.050	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	<i>303.518</i>	-	-	<i>7.922</i>	-	-	<i>7.645</i>	-	-	<i>3.371</i>	-	-	<i>1.140</i>	-	-	<i>4.511</i>
<i>Subtotal: Hardware Cost</i>	-	-	<i>303.518</i>	-	-	<i>7.922</i>	-	-	<i>7.645</i>	-	-	<i>3.371</i>	-	-	<i>1.140</i>	-	-	<i>4.511</i>
<b>Package Fielding Cost</b>																		
Recurring Cost																		
New Equipment Training/Fielding Support	-	-	2.246	-	-	0.100	-	-	0.100	-	-	0.100	-	-	-	-	-	0.100
<i>Subtotal: Recurring Cost</i>	-	-	<i>2.246</i>	-	-	<i>0.100</i>	-	-	<i>0.100</i>	-	-	<i>0.100</i>	-	-	-	-	-	<i>0.100</i>
<i>Subtotal: Package Fielding Cost</i>	-	-	<i>2.246</i>	-	-	<i>0.100</i>	-	-	<i>0.100</i>	-	-	<i>0.100</i>	-	-	-	-	-	<i>0.100</i>

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>												<b>Date:</b> February 2016					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 80						<b>P-1 Line Item Number / Title:</b> N11000 / Test Equipment Modernization (TEMOD)						<b>Item Number / Title [DODIC]:</b> N11000 / Test Equipment Modernization (TEMOD)					
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A												<b>MDAP/MAIS Code:</b>					

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Logistics Cost																		
Recurring Cost																		
Logistics Services/ Support	-	-	-	-	-	0.563	-	-	0.575	-	-	0.587	-	-	-	-	-	0.587
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	0.563	-	-	0.575	-	-	0.587	-	-	-	-	-	0.587
<i>Subtotal: Logistics Cost</i>	-	-	-	-	-	0.563	-	-	0.575	-	-	0.587	-	-	-	-	-	0.587
Support - Data Cost																		
Technical Publications	-	-	3.721	-	-	0.425	-	-	0.100	-	-	0.050	-	-	-	-	-	0.050
<i>Subtotal: Support - Data Cost</i>	-	-	3.721	-	-	0.425	-	-	0.100	-	-	0.050	-	-	-	-	-	0.050
Support - Engineering Change Proposals Cost																		
Engineering Change Proposals	-	-	-	-	-	0.315	-	-	0.315	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Engineering Change Proposals Cost</i>	-	-	-	-	-	0.315	-	-	0.315	-	-	-	-	-	-	-	-	-
Support - Initial Spares and Repair Parts Cost																		
Initial Spares and Repair Parts	-	-	0.686	-	-	0.033	-	-	0.073	-	-	0.090	-	-	-	-	-	0.090
<i>Subtotal: Support - Initial Spares and Repair Parts Cost</i>	-	-	0.686	-	-	0.033	-	-	0.073	-	-	0.090	-	-	-	-	-	0.090
Support - Production Engineering Cost																		
Production Engineering	-	-	3.099	-	-	1.120	-	-	1.120	-	-	0.977	-	-	-	-	-	0.977
<i>Subtotal: Support - Production Engineering Cost</i>	-	-	3.099	-	-	1.120	-	-	1.120	-	-	0.977	-	-	-	-	-	0.977
Support - Program Management Cost																		
Government Management	-	-	19.615	-	-	1.133	-	-	1.155	-	-	1.067	-	-	-	-	-	1.067
<i>Subtotal: Support - Program Management Cost</i>	-	-	19.615	-	-	1.133	-	-	1.155	-	-	1.067	-	-	-	-	-	1.067
Support - Quality Assurance Cost																		
Quality Assurance	-	-	0.200	-	-	0.100	-	-	-	-	-	0.100	-	-	-	-	-	0.100
<i>Subtotal: Support - Quality Assurance Cost</i>	-	-	0.200	-	-	0.100	-	-	-	-	-	0.100	-	-	-	-	-	0.100
Support - System Technical Support (STS) Cost																		
System Technical Support (STS)	-	-	7.572	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 80	<b>P-1 Line Item Number / Title:</b> N11000 / Test Equipment Modernization (TEMOD)	<b>Item Number / Title [DODIC]:</b> N11000 / Test Equipment Modernization (TEMOD)
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A		<b>MDAP/MAIS Code:</b>

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
<i>Subtotal: Support - System Technical Support (STS) Cost</i>	-	-	7.572	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Gross/Weapon System Cost</b>	20.529	16,594	340.659	19.011	616	11.711	18.913	586	11.083	18.544	342	6.342	4.542	251	1.140	12.617	593	7.482

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	265	250	146	251	397
	Total Obligation Authority	5.038	4.732	2.664	1.140	3.804
ANG	Quantity	230	219	128	-	128
	Total Obligation Authority	4.373	4.134	2.394	-	2.394
AR	Quantity	121	117	68	-	68
	Total Obligation Authority	2.300	2.217	1.284	-	1.284
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	<b>616</b>	<b>586</b>	<b>342</b>	<b>251</b>	<b>593</b>
	<b>Total Obligation Authority</b>	<b>11.711</b>	<b>11.083</b>	<b>6.342</b>	<b>1.140</b>	<b>7.482</b>

(t) indicates the presence of a P-5a

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<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2017 Army							<b>Date:</b> February 2016				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 80			<b>P-1 Line Item Number / Title:</b> N11000 / Test Equipment Modernization (TEMOD)				<b>Item Number / Title [DODIC]:</b> N11000 / Test Equipment Modernization (TEMOD)				

Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
Telecommunications System Test Set		2015	TBS-1 / TBD	C / FFP	ACC-New Jersey	Jul 2016	Oct 2016	40	35.000	Y		Jun 2016
Telecommunications System Test Set		2016	TBS-1 / TBD	C / FFP	ACC-New Jersey	Jan 2017	Apr 2017	70	35.000	Y		
Telecommunications System Test Set		2017	TBS-1 / TBD	C / FFP	ACC-New Jersey	Jun 2017	Sep 2017	33	35.000	Y		
Oscilloscope High End OS-305		2015	TBS-2 / TBD	C / FFP	ACC-Redstone	Jul 2016	Oct 2016	119	11.000	Y		Jun 2016
Oscilloscope High End OS-305		2016	TBS-2 / TBD	C / FFP	ACC-Redstone	Jan 2017	Apr 2017	230	11.000	Y		
Oscilloscope High End OS-305		2017	TBS-2 / TBD	C / FFP	ACC-Redstone	Jun 2017	Sep 2017	105	11.000	Y		
RF Power Meter Test Set		2015	TBS-3 / TBD	C / FFP	ACC-Redstone	Apr 2016	Jul 2016	350	9.000	Y		Mar 2016
RF Power Meter Test Set		2016	TBS-3 / TBD	C / FFP	ACC- Redstone	Aug 2016	Nov 2016	181	9.000	Y		
RF Power Meter Test Set		2017	TBS-3 / TBD	C / FFP	ACC-Redstone	Feb 2017	May 2017	145	9.000	Y		
Oscilloscope Low End OS-307		2015	TBS-4 / TBD	C / FFP	ACC-Redstone	Jul 2016	Oct 2016	360	3.500	Y		Jun 2016
Oscilloscope Low End OS-307		2016	TBS-4 / TBD	C / FFP	ACC-Redstone	Jan 2017	Apr 2017	105	3.500	Y		
Oscilloscope Low End OS-307		2017	TBS-4 / TBD	C / FFP	ACC-Redstone	Jun 2017	Sep 2017	100	3.500	Y		

**Remarks:**  
The Telecommunications System Test Set, the High End Oscilloscope, the RF Power Meter Test Set and the Low End Oscilloscope are commercial off-the-shelf (COTS) items.

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**Exhibit P-40, Budget Line Item Justification:** PB 2017 Army **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 90: Other Support Equipment	<b>P-1 Line Item Number / Title:</b> M62550 / M25 STABILIZED BINOCULAR
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	647	-	-	378	-	378	447	348	-	-	-	1,820
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	13.288	-	-	3.149	-	3.149	3.956	3.717	-	-	-	24.110
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	13.288	-	-	3.149	-	3.149	3.956	3.717	-	-	-	24.110
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>13.288</b>	<b>-</b>	<b>-</b>	<b>3.149</b>	<b>-</b>	<b>3.149</b>	<b>3.956</b>	<b>3.717</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>24.110</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost ( <i>\$ in Thousands</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Thousands</i> )	20.538	-	-	8.331	-	8.331	8.850	10.681	-	-	-	13.247

**Description:**

The Stabilized Binocular provides the Soldier, both mounted and dismounted, with enhanced target acquisition capability. The M25 is a high powered (14X magnification), hand held binocular which uses a gyro stabilizer to compensate for resolution degrading effects of using a hand held high powered optic and/or certain moving vehicular scenarios. The M25A1 is a smaller, lighter weight stabilized binocular which will allow the warfighter to more effectively perform mission than with the heavier version of the M25. The authorized Army Acquisition Objective (AAO) is 11,654.

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army									
Quantity	-	-	378	-	378	447	348	-	-
Total Obligation Authority	-	-	3.149	-	3.149	3.956	3.717	-	-
<b>Total:</b>									
<b>Secondary Distribution</b>									
Quantity	-	-	378	-	378	447	348	-	-
Total Obligation Authority	-	-	3.149	-	3.149	3.956	3.717	-	-

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**Exhibit P-40, Budget Line Item Justification:** PB 2017 Army **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 90: Other Support Equipment	<b>P-1 Line Item Number / Title:</b> M62550 / M25 STABILIZED BINOCULAR
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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<b>Line Item MDAP/MAIS Code:</b> N/A	<b>Item MDAP/MAIS Code(s):</b> N/A
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Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	M62550 / M25 STABILIZED BINOCULAR	P-5a, P-21	A	647 / 13.288	- / -	- / -	378 / 3.149	- / -	378 / 3.149
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>			<b>647 / 13.288</b>	<b>- / -</b>	<b>- / -</b>	<b>378 / 3.149</b>	<b>- / -</b>	<b>378 / 3.149</b>

\*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

**Justification:**  
 FY 2017 Base procurement dollars in the amount of \$3.149 million supports the Active Army by procuring 378 M25A1 Stabilized Binoculars. The M25A1 Stabilized Binocular is a new start in FY17.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 90	<b>P-1 Line Item Number / Title:</b> M62550 / M25 STABILIZED BINOCULAR	<b>Item Number / Title [DODIC]:</b> M62550 / M25 STABILIZED BINOCULAR

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>
Procurement Quantity (Units in Each)	647	-	-	378	-	378
Gross/Weapon System Cost (\$ in Millions)	13.288	-	-	3.149	-	3.149
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	13.288	-	-	3.149	-	3.149
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	<b>13.288</b>	-	-	<b>3.149</b>	-	<b>3.149</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	20.538	-	-	8.331	-	8.331

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

<b>Cost Elements</b>	<b>Prior Years</b>			<b>FY 2015</b>			<b>FY 2016</b>			<b>FY 2017 Base</b>			<b>FY 2017 OCO</b>			<b>FY 2017 Total</b>		
	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>
Flyaway Cost																		
Recurring Cost																		
1. M25/A1 Stabilized Binocular <sup>(†)</sup>	15.060	732	11.024	-	-	-	-	-	-	5.024	378	1.899	-	-	-	5.024	378	1.899
2. Production Engineering	-	-	1.819	-	-	-	-	-	-	-	-	0.500	-	-	-	-	-	0.500
3. Program Management Support	-	-	0.086	-	-	-	-	-	-	-	-	0.290	-	-	-	-	-	0.290
4. Integrated Logistics Support (ILS)	-	-	0.160	-	-	-	-	-	-	-	-	0.260	-	-	-	-	-	0.260
5 Total Package Fielding (TPF)	-	-	0.200	-	-	-	-	-	-	-	-	0.100	-	-	-	-	-	0.100
6. New Equipment Training (NET)	-	-	-	-	-	-	-	-	-	-	-	0.100	-	-	-	-	-	0.100
<i>Subtotal: Recurring Cost</i>	-	-	<i>13.289</i>	-	-	-	-	-	-	-	-	<i>3.149</i>	-	-	-	-	-	<i>3.149</i>
<i>Subtotal: Flyaway Cost</i>	-	-	<i>13.289</i>	-	-	-	-	-	-	-	-	<i>3.149</i>	-	-	-	-	-	<i>3.149</i>
<b>Gross/Weapon System Cost</b>	<b>20.538</b>	<b>647</b>	<b>13.288</b>	-	-	-	-	-	-	<b>8.331</b>	<b>378</b>	<b>3.149</b>	-	-	-	<b>8.331</b>	<b>378</b>	<b>3.149</b>

<b>Secondary Distribution</b>		<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>
Army	Quantity	-	-	378	-	378
	Total Obligation Authority	-	-	3.149	-	3.149

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis:</b> PB 2017 Army		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 90	<b>P-1 Line Item Number / Title:</b> M62550 / M25 STABILIZED BINOCULAR	<b>Item Number / Title [DODIC]:</b> M62550 / M25 STABILIZED BINOCULAR

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
<b>Total:</b>	<b>Quantity</b>	-	-	378	-	378
<b>Secondary Distribution</b>	<b>Total Obligation Authority</b>	-	-	3.149	-	3.149

(t) indicates the presence of a P-5a



**UNCLASSIFIED**

<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2017 Army								<b>Date:</b> February 2016				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 90			<b>P-1 Line Item Number / Title:</b> M62550 / M25 STABILIZED BINOCULAR					<b>Item Number / Title [DODIC]:</b> M62550 / M25 STABILIZED BINOCULAR				
<b>Cost Elements</b>	<b>O C O</b>	<b>FY</b>	<b>Contractor and Location</b>	<b>Method/Type or Funding Vehicle</b>	<b>Location of PCO</b>	<b>Award Date</b>	<b>Date of First Delivery</b>	<b>Qty (Each)</b>	<b>Unit Cost (\$ K)</b>	<b>Specs Avail Now?</b>	<b>Date Revision Available</b>	<b>RFP Issue Date</b>
1. M25/A1 Stabilized Binocular <sup>(†)</sup>		2014	Frazer-Volpe Corp. / Warminster PA	C / IDIQ	ACC-Picatinny, Picatinny, NJ	Aug 2014	May 2015	732	4.041	Y		
1. M25/A1 Stabilized Binocular <sup>(†)</sup>		2017	Frazer-Volpe Corp. / Warminster PA	C / IDIQ	ACC-Picatinny, Picatinny, NJ	Nov 2016	Aug 2017	378	5.024	Y		

<sup>(†)</sup> indicates the presence of a P-21

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<b>Exhibit P-21, Production Schedule:</b> PB 2017 Army																							<b>Date:</b> February 2016																	
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 90										<b>P-1 Line Item Number / Title:</b> M62550 / M25 STABILIZED BINOCULAR													<b>Item Number / Title [DODIC]:</b> M62550 / M25 STABILIZED BINOCULAR																	
<b>Cost Elements</b> <i>(Units in Each)</i>							<b>Fiscal Year 2014</b>														<b>Fiscal Year 2015</b>														<b>B A L A N C E</b>					
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2013	BAL DUE AS OF 1 OCT	<b>Calendar Year 2014</b>														<b>Calendar Year 2015</b>																			
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P										
1. M25/A1 Stabilized Binocular																																								
	1	2014	ARMY	732	-	732															A	-	-	-	-	-	-	-	-	-	-	-	-	-	31	30	33	71	71	496
	1	2017	ARMY	378	-	378																													378					
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P										

**UNCLASSIFIED**

<b>Exhibit P-21, Production Schedule:</b> PB 2017 Army	<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 90	<b>P-1 Line Item Number / Title:</b> M62550 / M25 STABILIZED BINOCULAR
	<b>Item Number / Title [DODIC]:</b> M62550 / M25 STABILIZED BINOCULAR

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2016													Fiscal Year 2017													B A L A N C E	
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2015	BAL DUE AS OF 1 OCT	Calendar Year 2016													Calendar Year 2017													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			
1. M25/A1 Stabilized Binocular																																	
1	2014	ARMY		732	236	496	71	71	71	71	71	71	71	70																-			
1	2017	ARMY		378	-	378													A	-	-	-	-	-	-	-	-	-	70	70	238		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

**UNCLASSIFIED**

<b>Exhibit P-21, Production Schedule:</b> PB 2017 Army															<b>Date:</b> February 2016									
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 90										<b>P-1 Line Item Number / Title:</b> M62550 / M25 STABILIZED BINOCULAR										<b>Item Number / Title [DODIC]:</b> M62550 / M25 STABILIZED BINOCULAR				

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2018												Fiscal Year 2019												B A L A N C E	
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2017	BAL DUE AS OF 1 OCT	Calendar Year 2018												Calendar Year 2019												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P
1. M25/A1 Stabilized Binocular																															
	1	2014	ARMY	732	732	-																								-	
	1	2017	ARMY	378	140	238	70	70	70	28																				-	
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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<b>Exhibit P-21, Production Schedule:</b> PB 2017 Army							<b>Date:</b> February 2016					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 90				<b>P-1 Line Item Number / Title:</b> M62550 / M25 STABILIZED BINOCULAR				<b>Item Number / Title [DODIC]:</b> M62550 / M25 STABILIZED BINOCULAR				
MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2017	1-8-5 For 2017	MAX For 2017	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	Frazer-Volpe Corp. - Warminster PA	600	600	3,600	5	16	14	30	-	1	10	11

"A" in the Delivery Schedule indicates the Contract Award Date.

**Note:** Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

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**Exhibit P-40, Budget Line Item Justification:** PB 2017 Army **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 90: Other Support Equipment	<b>P-1 Line Item Number / Title:</b> M80101 / Rapid Equipping Soldier Support Equipment
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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<b>Line Item MDAP/MAIS Code:</b> N/A	<b>Item MDAP/MAIS Code(s):</b> N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	2,878.963	22.380	26.437	18.003	8.500	26.503	18.459	18.867	19.246	19.631	Continuing	Continuing
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	2,878.963	22.380	26.437	18.003	8.500	26.503	18.459	18.867	19.246	19.631	Continuing	Continuing
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>2,878.963</b>	<b>22.380</b>	<b>26.437</b>	<b>18.003</b>	<b>8.500</b>	<b>26.503</b>	<b>18.459</b>	<b>18.867</b>	<b>19.246</b>	<b>19.631</b>	<b>Continuing</b>	<b>Continuing</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost ( <i>\$ in Thousands</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Thousands</i> )	-	-	-	-	-	-	-	-	-	-	-	-

**Description:**

This P-Form reflects two (2) separate organizations. The Rapid Equipping Force (REF) and the Asymmetric Warfare Group (AWG).

All funding figures reflect only REF. AWG request is not reflected in the funding figures.

The Rapid Equipping Force (REF) supports Combatant Command (COCOM)/Army Service Component Command (ASCC) based on emerging rapid equipping requirements. The REF is an enduring organization (Base funded) per Headquarters, Department of the Army, memorandum, SUBJECT: Implementation Plan for Stabilization of the Rapid Equipping Force (REF), signed by the Under Secretary of the Army, dated 30 January 2014.

The REF is the Army's quick reaction capability with the ability to acquire, integrate and sustain Commercial-Off-The-Shelf (COTS), Government Off-The-Shelf (GOTS), Non-Developmental Item (NDI) (non-standard equipment) solutions to meet urgent combat requirements for forces employed globally and not limited to Overseas Contingency Operations. It inserts selected future force technologies, capabilities, and surrogate materiel solutions into deployed, deploying, select prepared to deploy, and transformational forces for operational evaluation, assessment, and evolutionary development. The REF assesses the provided capabilities to improve future solutions to inform future Army capability requirements and to potentially transition the capability to an Army acquisition program.

The REF bridges the gap between the traditional acquisition process and immediate equipping needs. The REF pursues tangible solutions that can be equipped rapidly with a goal of 180 days. The REF focuses on finding immediate and effective game-changing capabilities to increase Soldier effectiveness, protection, and lethality in any operational environment. The REF process provides the mechanism to respond rapidly to an adaptive enemy who changes in days and months, not years. The REF coordinates in theater work with the ASCC of the COCOMs to understand their urgent needs, for which the REF acquisition capability may identify, procure, deliver, and sustain solutions to the deployed units. This fiscal flexibility is significant in that it permits the REF to allocate funds against emerging threats and requirements in the year of fiscal execution.

The REF works directly with Operational Commanders at all levels, but focuses on Brigade level and below to find solutions to identified capability gaps. These solutions may result in procurement of new or existing military/commercial materiel equipment, or accelerated development of a future force materiel solution for insertion into the current force now.

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**Exhibit P-40, Budget Line Item Justification:** PB 2017 Army **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 90: Other Support Equipment	<b>P-1 Line Item Number / Title:</b> M80101 / Rapid Equipping Soldier Support Equipment
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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<b>Line Item MDAP/MAIS Code:</b> N/A	<b>Item MDAP/MAIS Code(s):</b> N/A
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The Army Acquisition Executive designated Program Executive Office (PEO) Soldier as the Milestone Decision Authority (MDA) to institutionalize the acquisition authorities in support of the REF and to provide proper acquisition oversight while enhancing visibility of these efforts. The MDA will ensure flexibility and speed focused on the needs of Soldiers serviced by the dedicated REF Program Management Office (PMO). This establishes a formal acquisition -reporting chain that leverages – existing reporting venues, to ensure appropriate ASA (ALT) visibility, oversight, and direction.

The Asymmetric Warfare Group (AWG) provides critical operational advisory support globally and rapid solution development to Army and Joint Force Commanders to enhance Soldier survivability and combat effectiveness, continuously assesses the Operating Environment (OE), to defeat current and emerging threats. As such, AWG is uniquely positioned to quickly provide feedback and observations of asymmetric threats back to TRADOC Centers and Schools allowing for the timely adaptation of training, Programs of Instruction and informing capability requirements of future forces.

With its theater access, AWG continues to serve in its advisory capacity to assist regionally aligned forces (RAF), support ASCC security cooperation missions, as well as inform Army innovation programs. In times of crisis, the AWG will continue to be a critical combat enabler to Army and Joint contingency force deployments responding to a diverse range of theater threats and requirements.

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	22.380	26.437	18.003	8.500	26.503	18.459	18.867	19.246	19.631
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	-	-	-	-	-	-	-	-	-
	<b>Total Obligation Authority</b>	<b>22.380</b>	<b>26.437</b>	<b>18.003</b>	<b>8.500</b>	<b>26.503</b>	<b>18.459</b>	<b>18.867</b>	<b>19.246</b>	<b>19.631</b>

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**Exhibit P-40, Budget Line Item Justification:** PB 2017 Army **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 90: Other Support Equipment	<b>P-1 Line Item Number / Title:</b> M80101 / Rapid Equipping Soldier Support Equipment
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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<b>Line Item MDAP/MAIS Code:</b> N/A	<b>Item MDAP/MAIS Code(s):</b> N/A
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Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	M80101 / Rapid Equipping Soldier Support Equipment			- / 2,878.963	- / 22.380	- / 26.437	- / 18.003	- / 8.500	- / 26.503
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>			<b>- / 2,878.963</b>	<b>- / 22.380</b>	<b>- / 26.437</b>	<b>- / 18.003</b>	<b>- / 8.500</b>	<b>- / 26.503</b>

\*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

**Justification:**

FY17 procurement dollars in the amount of \$18.003 million (Base) and \$8.500 million (OCO) meets urgently needed state-of-the-art technology for immediate warfighter needs for deployed and pre-deploying forces across all ASCCs of the COCOMs.

The FY17 OCO funding is required to support emerging requirements to meet capability gaps in Operation Enduring Freedom (OEF), Operation Inherent Resolve (OIR), and Horn-of-Africa (HOA).

Funds are required to replace Force Protection assets such as tactical Aerostats for Forward Operating Base (FOB), Intelligence Surveillance and Reconnaissance (ISR) capabilities; Containerized Weapon Systems (CWS); and Tunnel Detection Systems. Funds are also anticipated for Counter Unmanned Aerial Systems; Hybrid power systems to support Force Protection systems; power for remote ISR Installations; and integrated communications for dismounted command and control and situational awareness in remote locations.

The REF key tasks are:

- Be responsive to tactical unit commanders in a global operating environment.
- Bridge specific Operational Needs Statement (ONS)/Joint Urgent Operational Needs Statement (JUONS)/Joint Emergent Operational Needs Statement (JEONS) gaps to meet urgent needs.
- Provide materiel solutions to counter emerging global asymmetric threats with reduced Soldiers in the operational environment.
- Ensure training, transportation, and sustainment are provided with every capability.
- Cultivate and rapidly insert emerging technologies into Soldiers' hands.
- Conduct operational assessments to provide useful operator feedback to the Army.
- Transition effective projects through the appropriate Army process for long-term Army capability requirements.
- Be aggressive and push the acquisition envelope, but operate within the law.
- Integrate with existing Army organizations and systems to enable them to recognize and solve problems for tactical units.

The REF capabilities cross all Warfighter Function Areas:

- 1 – Mission and Command
- 2 – Movement and Maneuver
- 3 – Intelligence
- 4 – Fires
- 5 – Sustainment
- 6 – Protection



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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2017 Army		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 90: Other Support Equipment		<b>P-1 Line Item Number / Title:</b> M80101 / Rapid Equipping Soldier Support Equipment
<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
<b>Line Item MDAP/MAIS Code:</b> N/A	<b>Item MDAP/MAIS Code(s):</b> N/A	
<p>AWG is uniquely postured to support unified land operations to mitigate future risk to Army forces resulting from non-traditional and hybrid threats. AWG supports solution development and equipping efforts with operational advising/global first hand observation, but does not conduct material acquisition without an appropriate acquisition partner; investment funding is required to legally execute the breadth of AWG's solution development mission. The use of investment fund is kept to a minimum to accomplish proof of concept and threat replication IOT influence the Army's capacity to adapt to the evolving threat while inform subsequent TRADOC DOTMLPF-P integration. AWG will focus efforts to investigate, evaluate, and quantify various Commercial-Off-The-Shelf/Government-Off-The-Shelf platforms and systems for purposes of research and development, testing, capability and limitation experimenting, and procurement for solutions to emerging capability gaps. These efforts will focus on near term, leveraging existing technology, and addressing identified capability gaps for emerging research shortfalls, PIPs, leap ahead technologies, and fixes to existing shortfalls (reliability, sustainability, and durability).</p> <p>The AWG OPA Base request for FY17 is \$700K. The AWG request is not reflected in funding figures on this P-Form.</p>		

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<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>						<b>Date:</b> February 2016		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 90			<b>P-1 Line Item Number / Title:</b> M80101 / Rapid Equipping Soldier Support Equipment			<b>Item Number / Title [DODIC]:</b> M80101 / Rapid Equipping Soldier Support Equipment		
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :						<b>MDAP/MAIS Code:</b>		
<b>Resource Summary</b>			<b>Prior Years</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>
Procurement Quantity (Units in Each)			-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)			2,878.963	22.380	26.437	18.003	8.500	26.503
Less PY Advance Procurement (\$ in Millions)			-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)			2,878.963	22.380	26.437	18.003	8.500	26.503
Plus CY Advance Procurement (\$ in Millions)			-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>			<b>2,878.963</b>	<b>22.380</b>	<b>26.437</b>	<b>18.003</b>	<b>8.500</b>	<b>26.503</b>
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>								
Initial Spares (\$ in Millions)			-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)			-	-	-	-	-	-

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
Dismounted IED Defeat	-	-	447.939	-	-	1.056	-	-	1.175	-	-	-	-	-	-	-	-	-
Mission Command	-	-	-	-	-	-	-	-	-	-	-	2.742	-	-	1.295	-	-	4.037
Movement and Maneuver	-	-	-	-	-	-	-	-	-	-	-	6.230	-	-	2.941	-	-	9.171
Intelligence	-	-	-	-	-	-	-	-	-	-	-	2.027	-	-	0.957	-	-	2.984
Fires	-	-	-	-	-	-	-	-	-	-	-	0.268	-	-	0.127	-	-	0.395
Sustainment	-	-	-	-	-	-	-	-	-	-	-	2.653	-	-	1.252	-	-	3.905
Protection	-	-	-	-	-	-	-	-	-	-	-	4.083	-	-	1.928	-	-	6.011
Small COP/PB Sustainment	-	-	-	-	-	1.900	-	-	0.588	-	-	-	-	-	-	-	-	-
Small COP/PB Force Protection	-	-	521.372	-	-	2.998	-	-	3.819	-	-	-	-	-	-	-	-	-
Dismounted Operations Support	-	-	377.134	-	-	7.094	-	-	9.841	-	-	-	-	-	-	-	-	-
ISR Shortfalls In Inhospitable OE's	-	-	394.250	-	-	2.745	-	-	1.322	-	-	-	-	-	-	-	-	-
Dismounted Blue Force Tracking Mission	-	-	-	-	-	0.760	-	-	0.293	-	-	-	-	-	-	-	-	-
Other (Current Requirements)	-	-	1,138.268	-	-	5.827	-	-	9.399	-	-	-	-	-	-	-	-	-

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 90	<b>P-1 Line Item Number / Title:</b> M80101 / Rapid Equipping Soldier Support Equipment	<b>Item Number / Title [DODIC]:</b> M80101 / Rapid Equipping Soldier Support Equipment
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :		<b>MDAP/MAIS Code:</b>

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
<i>Subtotal: Recurring Cost</i>	-	-	2,878.963	-	-	22.380	-	-	26.437	-	-	18.003	-	-	8.500	-	-	26.503
<i>Subtotal: Flyaway Cost</i>	-	-	2,878.963	-	-	22.380	-	-	26.437	-	-	18.003	-	-	8.500	-	-	26.503
<b>Gross/Weapon System Cost</b>	-	-	2,878.963	-	-	22.380	-	-	26.437	-	-	18.003	-	-	8.500	-	-	26.503

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	22.380	26.437	18.003	8.500	26.503
<b>Total: Secondary Distribution</b>	Quantity	-	-	-	-	-
	Total Obligation Authority	22.380	26.437	18.003	8.500	26.503

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**Exhibit P-40, Budget Line Item Justification:** PB 2017 Army **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 90: Other Support Equipment	<b>P-1 Line Item Number / Title:</b> MA0780 / Physical Security Systems (OPA3)
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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<b>Line Item MDAP/MAIS Code:</b> N/A	<b>Item MDAP/MAIS Code(s):</b> N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	3	10	11	16	-	16	11	20	27	21	Continuing	Continuing
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	1,558.536	31.641	52.040	44.082	-	44.082	49.248	52.828	56.794	57.744	Continuing	Continuing
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	1,558.536	31.641	52.040	44.082	-	44.082	49.248	52.828	56.794	57.744	Continuing	Continuing
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>1,558.536</b>	<b>31.641</b>	<b>52.040</b>	<b>44.082</b>	<b>-</b>	<b>44.082</b>	<b>49.248</b>	<b>52.828</b>	<b>56.794</b>	<b>57.744</b>	<b>Continuing</b>	<b>Continuing</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost ( <i>\$ in Thousands</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Thousands</i> )	519,512.000	3,164.100	4,730.909	2,755.125	-	2,755.125	4,477.091	2,641.400	2,103.481	2,749.714	Continuing	Continuing

**Description:**

Physical Security Systems (MA0780) protect vulnerable critical assets and infrastructure from determined, highly motivated and skilled intruders. Physical Security Systems include the Standard Intrusion Detection Systems (SIDS) (MA0781), the Commercial Intrusion Detection System (CIDS) (MA0782) and Other Physical Security Measures Equipment (MA0783). SIDS includes the Integrated Commercial Intrusion Detection System (ICIDS) and Military Construction Army (MCA) Procurement Tails for the Intrusion Detection Systems at new or modified facilities. Other Physical Security Measures Equipment includes the Automated Installation Entry (AIE) program and other efforts consistent with Office of Provost Marshal General (OPMG) security measures.

The Physical Security program's goal is to provide enhanced security to Units, Installations and Facilities. The Physical Security/Force Protection programs minimize risks and vulnerabilities by providing Commanders with the appropriate levels of protection through the use of available technology to safeguard personnel and Army assets. By increasing protection to personnel, facilities and equipment, the program supports unit readiness and deployment by reducing the vulnerability of Units and Installations from intruder and terrorist threats.

The ICIDS program consists of commercially available interior and exterior sensors, response, entry control, electronic surveillance and command and control devices. ICIDS protects critical national assets, special compartmented information facilities, conventional munitions storage areas, non-nuclear missiles and rockets in a ready to fire configuration, sensitive munitions and other mission essential assets. ICIDS provides the capability for Commanders to detect, assess and respond to unauthorized entry or attempted intrusion into their facilities. The system provides security to Units, Installations and Facilities while minimizing the number of security guards required. Additionally, the item includes MCAs Procurement tails for ICIDS at new or modified facilities. ICIDS supports a balanced investment strategy for the Army approved force structure and Army Force Generation (ARFORGEN) requirements.

CIDSs provides security measures for conventional arms, ammunition and explosive storage facilities, sensitive compartment information facilities, areas designed as mission essential and vulnerable and other high risk targets. Risks and vulnerabilities are minimized by providing Commanders with the appropriate levels of protection through the use of available technology to safeguard personnel and Army assets. Equipment also protects personnel, facilities and equipment from terrorist or criminal threats. The program supports unit readiness and deployment by reducing Unit and Installation vulnerability and supports the upgrades of the IDS for arms ammunition and explosives arms vaults and ammunition supply point bunkers for National Guard Facilities that are non-compliant with current Army Directives. Additionally, the item includes MCAs Procurement tails for the IDSs at new or modified facilities. CIDS supports a balanced investment strategy for the Army's approved force structure and Army Force Generation (ARFORGEN) requirements. Equipment further protects personnel, facilities and equipment from terrorist or criminal threats. The program supports Unit readiness and deployment by reducing Unit and Installation vulnerability.

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**Exhibit P-40, Budget Line Item Justification:** PB 2017 Army **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 90: Other Support Equipment	<b>P-1 Line Item Number / Title:</b> MA0780 / Physical Security Systems (OPA3)
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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<b>Line Item MDAP/MAIS Code:</b> N/A	<b>Item MDAP/MAIS Code(s):</b> N/A
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Other Physical Security Measures Equipment includes the Automated Installation Entry (AIE) system which complies with DTM 09-012 for Access Control Standards that includes identity proofing and vetting to determine fitness of an individual requesting and/or requiring access to Installations and issuance of local access credentials. AIE satisfies the OPMG's Automated Access Control Standards. Installation of AIE will also meet recommendation 3.9 of the DOD Independent Review related to Ft Hood, TX.

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	Quantity	10	11	11	-	11	6	14	20	17
	Total Obligation Authority	31.641	52.040	39.042	-	39.042	43.838	44.120	45.564	46.207
ANG	Quantity	-	-	5	-	5	4	6	7	4
	Total Obligation Authority	-	-	5.040	-	5.040	4.910	8.708	11.230	11.537
AR	Quantity	-	-	-	-	-	1	-	-	-
	Total Obligation Authority	-	-	-	-	-	0.500	-	-	-
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	<b>10</b>	<b>11</b>	<b>16</b>	<b>-</b>	<b>16</b>	<b>11</b>	<b>20</b>	<b>27</b>	<b>21</b>
	<b>Total Obligation Authority</b>	<b>31.641</b>	<b>52.040</b>	<b>44.082</b>	<b>-</b>	<b>44.082</b>	<b>49.248</b>	<b>52.828</b>	<b>56.794</b>	<b>57.744</b>

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**Exhibit P-40, Budget Line Item Justification:** PB 2017 Army **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 90: Other Support Equipment	<b>P-1 Line Item Number / Title:</b> MA0780 / Physical Security Systems (OPA3)
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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<b>Line Item MDAP/MAIS Code:</b> N/A	<b>Item MDAP/MAIS Code(s):</b> N/A
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Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	MA0781 / Standardized Intrusion Detection Systems	P-5a, P-21	A	3 / 16.708	- / 4.406	2 / 10.766	2 / 10.218	- / -	2 / 10.218
P-5	MA0782 / Commercial Intrusion Detection Systems (IDS)			- / 240.043	7 / 8.294	3 / 5.128	6 / 5.490	- / -	6 / 5.490
P-5	MA0783 / Other Physical Security Measures Equip	P-5a, P-21		- / 1,301.785	3 / 18.941	6 / 36.146	8 / 28.374	- / -	8 / 28.374
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>			<b>3 / 1,558.536</b>	<b>10 / 31.641</b>	<b>11 / 52.040</b>	<b>16 / 44.082</b>	<b>- / -</b>	<b>16 / 44.082</b>

\*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

**Justification:**  
 FY17 Base procurement funding in the amount of \$44.082 million provides funding for SIDS (MA0781) in the amount of \$10.218 million, CIDS (MA0782) in the amount of \$5.490 million and Other Physical Security Measures Equipment in the amount of \$28.374 million.

FY17 Base procurement funding the amount of \$10.218 million provides installation of ICIDS (MA0781) at two (2) sites: Vincenza/Livorno, IT and Shafter, HI; Prime Contractor Program Management; program support (direct government support and Systems Engineering and Technical Assistance) and ICIDS MCA Procurement tails. Funding supports a balanced investment strategy for the Army approved force structure and ARFORGEN requirements. Funding is for Active Components.

FY17 Base procurement funding in the amount of \$5.490 million for CIDS (MA0782) supports procuring six (6) sites of modernized integrated physical security equipment for intrusion detection and assessment, access control, electronic surveillance and force protection equipment at Army Reserve and National Guard Facilities and some Active Army locations. Funding provides security measures for conventional arms, ammunition and explosive storage facilities, sensitive compartment information facilities and other areas contain asset for which policy requires Intrusion Detection Systems. Risks and vulnerabilities are minimized by providing Commanders with the appropriate levels of protection through the use of available technology to safeguard personnel and Army assets. Funding supports a balanced investment strategy for the Army's approved force structure and ARFORGEN requirements.

FY17 Base procurement funding in the amount of \$28.374 million procures AIE (MA0783) systems at eight (8) sites: Pine Bluff, AR; Presidio of Monterey, CA; Ft. Leavenworth, KS; Ft. Indiantown Gap, PA; Detroit Arsenal, MI; Iowa AAP, IA; Red River AD, TX; Ft. McCoy, WI; Ft. Lee, VA; Ft. Eustis, VA; Ft. Rucker, AL and Access Control Point Equipment Program (ACPEP). The AIE systems will be installed to protect Army force projection platforms and high priority Installations. The system complies with DTM 09-112 for Access Control Standards that include identity validation and vetting to determine fitness of an individual requesting and/or requiring access to installations. The AIE system satisfies the OPMG's Automated Access Control Standards. Installation of AIE will also meet recommendation 3.9 of the DOD Independent Review related to Ft. Hood, TX. ACPEP provides standardized access control point configurations including barriers, canopies, ballistically protected guard booths/houses and surveillance cameras.

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<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 90		<b>P-1 Line Item Number / Title:</b> MA0780 / Physical Security Systems (OPA3)
		<b>Item Number / Title [DODIC]:</b> MA0781 / Standardized Intrusion Detection Systems

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	3	-	2	2	-	2
Gross/Weapon System Cost (\$ in Millions)	16.708	4.406	10.766	10.218	-	10.218
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	16.708	4.406	10.766	10.218	-	10.218
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	<b>16.708</b>	<b>4.406</b>	<b>10.766</b>	<b>10.218</b>	<b>-</b>	<b>10.218</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	5,569.333	-	5,383.000	5,109.000	-	5,109.000

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
Hardware <sup>(t)</sup>	-	-	12.773	3,754.000	1	3.754	4,555.000	2	9.110	3,576.000	2	7.152	-	-	-	3,576.000	2	7.152
Government Program Management Support	-	-	2.532	-	-	0.462	-	-	0.508	-	-	0.900	-	-	-	-	-	0.900
SETA Contract Support	-	-	0.633	-	-	0.190	-	-	0.257	-	-	1.199	-	-	-	-	-	1.199
Prime Contractor PM	-	-	0.770	-	-	-	-	-	0.891	-	-	0.967	-	-	-	-	-	0.967
<i>Subtotal: Recurring Cost</i>	<i>-</i>	<i>-</i>	<i>16.708</i>	<i>-</i>	<i>-</i>	<i>4.406</i>	<i>-</i>	<i>-</i>	<i>10.766</i>	<i>-</i>	<i>-</i>	<i>10.218</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>10.218</i>
<i>Subtotal: Flyaway Cost</i>	<i>-</i>	<i>-</i>	<i>16.708</i>	<i>-</i>	<i>-</i>	<i>4.406</i>	<i>-</i>	<i>-</i>	<i>10.766</i>	<i>-</i>	<i>-</i>	<i>10.218</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>10.218</i>
<b>Gross/Weapon System Cost</b>	<b>5,569.333</b>	<b>3</b>	<b>16.708</b>	<b>-</b>	<b>-</b>	<b>4.406</b>	<b>5,383.000</b>	<b>2</b>	<b>10.766</b>	<b>5,109.000</b>	<b>2</b>	<b>10.218</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>5,109.000</b>	<b>2</b>	<b>10.218</b>

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	-	2	2	-	2
Total Obligation Authority	4.406	10.766	10.218	-	10.218
<b>Total: Secondary Distribution</b>	<b>-</b>	<b>2</b>	<b>2</b>	<b>-</b>	<b>2</b>
<b>Total Obligation Authority</b>	<b>4.406</b>	<b>10.766</b>	<b>10.218</b>	<b>-</b>	<b>10.218</b>

(t) indicates the presence of a P-5a

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<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2017 Army							<b>Date:</b> February 2016				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 90			<b>P-1 Line Item Number / Title:</b> MA0780 / Physical Security Systems (OPA3)				<b>Item Number / Title [DODIC]:</b> MA0781 / Standardized Intrusion Detection Systems				

Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$ K)	Specs Avail Now?	Date Revision Available	RFP Issue Date
Hardware <sup>(†)</sup>		2015	Secure Mission Solutons / Fairfax, VA	C / IDIQ	NATICK, MA	Mar 2014	Feb 2016	1	3,754.000	Y		
Hardware <sup>(†)</sup>		2016	TBD / TBD	C / IDIQ	NATICK, MA	Mar 2016	Dec 2017	2	4,555.000	Y		
Hardware <sup>(†)</sup>		2017	TBD / TBD	C / IDIQ	NATICK, MA	Mar 2017	Sep 2018	2	3,576.000	Y		

<sup>(†)</sup> indicates the presence of a P-21

**Remarks:**

Contractor information for MCA OPA tails is TBD. Some MCA OPA tail projects may utilize ICIDS contract and others may be executed by individual site's contracting vehicles. Unit costs is the average of the sites for that year and varies based on size and type of assets.



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<b>Exhibit P-21, Production Schedule:</b> PB 2017 Army		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 90		<b>P-1 Line Item Number / Title:</b> MA0780 / Physical Security Systems (OPA3)
		<b>Item Number / Title [DODIC]:</b> MA0781 / Standardized Intrusion Detection Systems

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2014												Fiscal Year 2015												B A L A N C E	
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2013	BAL DUE AS OF 1 OCT	Calendar Year 2014												Calendar Year 2015												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P
Hardware																															
	1	2015	ARMY (LVIII)	1	-	1																									
	2	2016	ARMY (LIX)	2	-	2																									
	2	2017	ARMY (LX)	2	-	2																									
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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<b>Exhibit P-21, Production Schedule:</b> PB 2017 Army															<b>Date:</b> February 2016														
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 90										<b>P-1 Line Item Number / Title:</b> MA0780 / Physical Security Systems (OPA3)										<b>Item Number / Title [DODIC]:</b> MA0781 / Standardized Intrusion Detection Systems									

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2016													Fiscal Year 2017													B A L A N C E	
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2015	BAL DUE AS OF 1 OCT	Calendar Year 2016													Calendar Year 2017													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			
Hardware																																	
	1	2015	ARMY (LVIII)	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
	2	2016	ARMY (LIX)	2	-	2																											
	2	2017	ARMY (LX)	2	-	2																											
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

**UNCLASSIFIED**

<b>Exhibit P-21, Production Schedule:</b> PB 2017 Army															<b>Date:</b> February 2016														
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 90										<b>P-1 Line Item Number / Title:</b> MA0780 / Physical Security Systems (OPA3)										<b>Item Number / Title [DODIC]:</b> MA0781 / Standardized Intrusion Detection Systems									

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2018													Fiscal Year 2019													B A L A N C E	
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2017	BAL DUE AS OF 1 OCT	Calendar Year 2018													Calendar Year 2019													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			
Hardware																																	
	1	2015	ARMY (LVIII)	1	1	-																							-				
	2	2016	ARMY (LIX)	2	-	2	-	-	1	-	-	-	-	-	1														-				
	2	2017	ARMY (LX)	2	-	2	-	-	-	-	-	-	-	-	-	-	-	-	2											-			
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

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<b>Exhibit P-21, Production Schedule:</b> PB 2017 Army		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 90		<b>P-1 Line Item Number / Title:</b> MA0780 / Physical Security Systems (OPA3)
		<b>Item Number / Title [DODIC]:</b> MA0781 / Standardized Intrusion Detection Systems

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2017	1-8-5 For 2017	MAX For 2017	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	Secure Mission Solutions - Fairfax, VA	1	1	10	-	4	18	22	-	-	-	-
2	TBD - TBD	1	1	10	-	4	6	10	-	-	-	-

"A" in the Delivery Schedule indicates the Contract Award Date.

**Note:** Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

**Service/Agency Suffixes:**

- (LVIII) 2015
- (LIX) 2016
- (LX) 2017

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 90	<b>P-1 Line Item Number / Title:</b> MA0780 / Physical Security Systems (OPA3)	<b>Item Number / Title [DODIC]:</b> MA0782 / Commercial Intrusion Detection Systems (IDS)

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>
Procurement Quantity ( <i>Units in Each</i> )	-	7	3	6	-	6
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	240.043	8.294	5.128	5.490	-	5.490
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	240.043	8.294	5.128	5.490	-	5.490
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>240.043</b>	<b>8.294</b>	<b>5.128</b>	<b>5.490</b>	<b>-</b>	<b>5.490</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Thousands</i> )	-	1,184.857	1,709.333	915.000	-	915.000

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

<b>Cost Elements</b>	<b>Prior Years</b>			<b>FY 2015</b>			<b>FY 2016</b>			<b>FY 2017 Base</b>			<b>FY 2017 OCO</b>			<b>FY 2017 Total</b>		
	<b>Unit Cost</b> (\$ K)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ K)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ K)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ K)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ K)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$ K)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)
Flyaway Cost																		
Recurring Cost																		
Hardware	14,120.200	17	240.043	-	-	8.294	1,709.300	3	5.128	915.000	6	5.490	-	-	-	915.000	6	5.490
<i>Subtotal: Recurring Cost</i>	-	-	240.043	-	-	8.294	-	-	5.128	-	-	5.490	-	-	-	-	-	5.490
<i>Subtotal: Flyaway Cost</i>	-	-	240.043	-	-	8.294	-	-	5.128	-	-	5.490	-	-	-	-	-	5.490
<b>Gross/Weapon System Cost</b>	-	-	240.043	1,184.857	7	8.294	1,709.333	3	5.128	915.000	6	5.490	-	-	-	915.000	6	5.490

<b>Secondary Distribution</b>		<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>
Army	Quantity	7	3	1	-	1
	Total Obligation Authority	8.294	5.128	0.450	-	0.450
ANG	Quantity	-	-	5	-	5
	Total Obligation Authority	-	-	5.040	-	5.040
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	<b>7</b>	<b>3</b>	<b>6</b>	<b>-</b>	<b>6</b>
	<b>Total Obligation Authority</b>	<b>8.294</b>	<b>5.128</b>	<b>5.490</b>	<b>-</b>	<b>5.490</b>

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<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 90		<b>P-1 Line Item Number / Title:</b> MA0780 / Physical Security Systems (OPA3)
		<b>Item Number / Title [DODIC]:</b> MA0783 / Other Physical Security Measures Equip

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	-	3	6	8	-	8
Gross/Weapon System Cost (\$ in Millions)	1,301.785	18.941	36.146	28.374	-	28.374
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	1,301.785	18.941	36.146	28.374	-	28.374
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	<b>1,301.785</b>	<b>18.941</b>	<b>36.146</b>	<b>28.374</b>	<b>-</b>	<b>28.374</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	6,313.667	6,024.333	3,546.750	-	3,546.750

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
AIE Hardware <sup>(t)</sup>	-	-	1,301.785	3,115.250	4	12.461	5,174.000	6	31.044	2,770.375	8	22.163	-	-	-	2,770.375	8	22.163
Government Program Management Support	-	-	-	-	-	2.328	-	-	2.808	-	-	2.829	-	-	-	-	-	2.829
SETA Contract Support	-	-	-	-	-	1.149	-	-	1.264	-	-	2.349	-	-	-	-	-	2.349
ACPEP	-	-	-	-	-	3.003	-	-	1.030	-	-	1.033	-	-	-	-	-	1.033
<i>Subtotal: Recurring Cost</i>	-	-	<i>1,301.785</i>	-	-	<i>18.941</i>	-	-	<i>36.146</i>	-	-	<i>28.374</i>	-	-	-	-	-	<i>28.374</i>
<i>Subtotal: Flyaway Cost</i>	-	-	<i>1,301.785</i>	-	-	<i>18.941</i>	-	-	<i>36.146</i>	-	-	<i>28.374</i>	-	-	-	-	-	<i>28.374</i>
<b>Gross/Weapon System Cost</b>	-	-	<b>1,301.785</b>	<b>6,313.667</b>	<b>3</b>	<b>18.941</b>	<b>6,024.333</b>	<b>6</b>	<b>36.146</b>	<b>3,546.750</b>	<b>8</b>	<b>28.374</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>3,546.750</b>	<b>8</b>	<b>28.374</b>

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	3	6	8	-	8
	Total Obligation Authority	18.941	36.146	28.374	-	28.374
<b>Total:</b>	Quantity	<b>3</b>	<b>6</b>	<b>8</b>	<b>-</b>	<b>8</b>
<b>Secondary Distribution</b>	Total Obligation Authority	<b>18.941</b>	<b>36.146</b>	<b>28.374</b>	<b>-</b>	<b>28.374</b>

(t) indicates the presence of a P-5a

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<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2017 Army							<b>Date:</b> February 2016				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 90			<b>P-1 Line Item Number / Title:</b> MA0780 / Physical Security Systems (OPA3)				<b>Item Number / Title [DODIC]:</b> MA0783 / Other Physical Security Measures Equip				

Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
AIE Hardware <sup>(†)</sup>		2015	TBD / TBD	C / IDIQ	Natick, MA	Mar 2015	Nov 2015	4	3,115.250	Y		
AIE Hardware		2016	Leidos Inc. / Reston, VA	C / IDIQ	Natick, MA	Jul 2016	Mar 2017	6	5,174.000	Y		
AIE Hardware <sup>(†)</sup>		2017	Leidos Inc. / Reston, VA	C / IDIQ	Natick, MA	Jul 2017	Mar 2018	8	2,770.375	Y		

<sup>(†)</sup> indicates the presence of a P-21

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<b>Exhibit P-21, Production Schedule:</b> PB 2017 Army																						<b>Date:</b> February 2016											
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 90											<b>P-1 Line Item Number / Title:</b> MA0780 / Physical Security Systems (OPA3)											<b>Item Number / Title [DODIC]:</b> MA0783 / Other Physical Security Measures Equip											
<b>Cost Elements</b> <i>(Units in Each)</i>						<b>Fiscal Year 2015</b>													<b>Fiscal Year 2016</b>													<b>B A L A N C E</b>	
<b>O C C O</b>	<b>M F R #</b>	<b>FY</b>	<b>SERVICE</b>	<b>PROC QTY</b>	<b>ACCEP T P R I O R T O 1 O C T 2 0 1 4</b>	<b>BAL DUE AS OF 1 OCT</b>	<b>Calendar Year 2015</b>													<b>Calendar Year 2016</b>													
							<b>O C T</b>	<b>N O V</b>	<b>D E C</b>	<b>J A N</b>	<b>F E B</b>	<b>M A R</b>	<b>A P R</b>	<b>M A Y</b>	<b>J U N</b>	<b>J U L</b>	<b>A U G</b>	<b>S E P</b>	<b>O C T</b>	<b>N O V</b>	<b>D E C</b>	<b>J A N</b>	<b>F E B</b>	<b>M A R</b>	<b>A P R</b>	<b>M A Y</b>	<b>J U N</b>	<b>J U L</b>	<b>A U G</b>	<b>S E P</b>			
AIE Hardware																																	
1	2015	ARMY (LXI)		4	-	4				A	-	-	-	-	-	-	-	-	1	2	1							-					
2	2017	ARMY (LXII)		8	-	8																	8										



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<b>Exhibit P-21, Production Schedule:</b> PB 2017 Army															<b>Date:</b> February 2016														
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 90										<b>P-1 Line Item Number / Title:</b> MA0780 / Physical Security Systems (OPA3)										<b>Item Number / Title [DODIC]:</b> MA0783 / Other Physical Security Measures Equip									

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2017															Fiscal Year 2018															B A L A N C E	
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2016	BAL DUE AS OF 1 OCT	Calendar Year 2017															Calendar Year 2018															
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P							
AIE Hardware																																					
	1	2015	ARMY (LXI)	4	4	-																															
	2	2017	ARMY (LXII)	8	-	8																															
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P							

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<b>Exhibit P-21, Production Schedule:</b> PB 2017 Army		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 90		<b>P-1 Line Item Number / Title:</b> MA0780 / Physical Security Systems (OPA3)
		<b>Item Number / Title [DODIC]:</b> MA0783 / Other Physical Security Measures Equip

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2017	1-8-5 For 2017	MAX For 2017	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	TBD - TBD	1	1	20	-	6	8	14	-	-	-	-
2	Leidos Inc. - Reston, VA	1	1	20	-	8	-	8	-	-	-	-

"A" in the Delivery Schedule indicates the Contract Award Date.

**Note:** Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

**Service/Agency Suffixes:**

(LXI) 2015

(LXII) 2017

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**Exhibit P-40, Budget Line Item Justification:** PB 2017 Army **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 90: Other Support Equipment	<b>P-1 Line Item Number / Title:</b> MB7000 / Base Level Common Equipment
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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<b>Line Item MDAP/MAIS Code:</b> N/A	<b>Item MDAP/MAIS Code(s):</b> N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	544.970	1.008	1.568	2.168	-	2.168	1.376	1.716	4.517	4.607	-	561.930
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	544.970	1.008	1.568	2.168	-	2.168	1.376	1.716	4.517	4.607	-	561.930
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>544.970</b>	<b>1.008</b>	<b>1.568</b>	<b>2.168</b>	-	<b>2.168</b>	<b>1.376</b>	<b>1.716</b>	<b>4.517</b>	<b>4.607</b>	-	<b>561.930</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost ( <i>\$ in Thousands</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Thousands</i> )	-	-	-	-	-	-	-	-	-	-	-	-

**Description:**

Funds are required to purchase two replacement ROUGH TERRAIN FORKLIFTS for use at the Arrival/Departure Airfield Control Group (A/DACG). The two current pieces assigned to the A/DACG are DEADLINED and are ready to be turned in for disposal. The A/DACG is currently borrowing two of these vehicles from the Rail section on a temporary basis to continue their mission. The average annual number of short tons shipped using these forklifts is 1,215.05 for 64 aircraft.

Funds a 50,000 pound Military Cargo Loader. The loader will handle five, 463L pallets in the 88" bias or 4ea pallets in the 108" bias. The loader will facilitate loading of all aircraft cargo holds with the full loader capacity of 50,000lb to 19 feet (main-deck height of B-747), which is the highest cargo deck height in the industry. It will also handle airdrop platforms and rolling stock. Additional features include powered rear rotation and side shift of pallets, cargo pallet locks and a telescoping vertical aluminum boarding ladder for personnel access to elevated loads. The Military Cargo Loader is air transportable aboard C-130, C-5, C-17, A400M and IL-76 air frames.

This program procures Base-level commercially available equipment from a list authorized by the Table of Distribution and Allowances (TDA) for Army activities but is not Army centrally managed or purchased. Equipment unit cost must meet the currently approved Expense-Investment threshold of \$250,000.00. The equipment supports recurring and generic activities typically performed by garrisons, such as material and cargo handling, engineering and public works, port and terminal operations support. Procures new investment items or replacements for existing equipment that is over-aged, obsolete, or beyond economical repair.

FY17 funding will procure a Scanning Electron Microscope (SEM) as part of a life-cycle replacement in support of forensic evidence analysis utilized for numerous case types to include homicides, sexual assault cases, and other various crimes against the Army and its personnel. The instrument's ability to locate and identify the elemental composition of microscopic material (on the order of particles 100x smaller than a human hair) makes the SEM/EDS vital to the success of analyzing forensic evidence.

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	1.008	1.568	2.168	-	2.168	1.376	1.716	4.517	4.607
<b>Total:</b>									
Quantity	-	-	-	-	-	-	-	-	-

**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** PB 2017 Army **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 90: Other Support Equipment	<b>P-1 Line Item Number / Title:</b> MB7000 / Base Level Common Equipment
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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<b>Line Item MDAP/MAIS Code:</b> N/A	<b>Item MDAP/MAIS Code(s):</b> N/A
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Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Secondary Distribution	Total Obligation Authority	1.008	1.568	2.168	-	2.168	1.376	1.716	4.517	4.607

**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** PB 2017 Army **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 90: Other Support Equipment	<b>P-1 Line Item Number / Title:</b> MB7000 / Base Level Common Equipment
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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<b>Line Item MDAP/MAIS Code:</b> N/A	<b>Item MDAP/MAIS Code(s):</b> N/A
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Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	MB7000 / Base Level Common Equipment			- / 544.970	- / 1.008	- / 1.568	- / 2.168	- / -	- / 2.168
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>			<b>- / 544.970</b>	<b>- / 1.008</b>	<b>- / 1.568</b>	<b>- / 2.168</b>	<b>- / -</b>	<b>- / 2.168</b>

\*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

**Justification:**

FY 17 Procurement funding in the amount of \$2.168 million procures the following:

Material Handling Equipment (MHE) (\$.860million) is a critical requirement and without operational equipment ADACG personnel cannot support the workload requirements at Robert Gray Army Airfield. The rough terrain forklifts currently assigned have exceeded their Mission Essential Level (MEL). Transportation Division's A/DACG uses these ROUGH TERRAIN Forklifts for loading aircraft for deployment/redeployment operations and cannot be substituted by any other type due to the height restrictions of the supported aircraft. These pieces enable loading of cargo aircraft and are mission critical. If not funded, the A/DACG will continue to borrow the two pieces from the Rail as able, but the mission capability of both sections is reduced.

The Logistics Readiness Center (LRC) Riley deployment operations are at potential mission failure due to aircraft departure delays caused by out-dated (over 30 year old) aircraft K-Loaders (\$.402million). Delay induced by K-loader break-down on airfields can cause further delay on subsequent missions for the aircraft, by disruption of in-flight scheduled refueling, and induce issues with crew rest schedules. The LRC Riley K-Loader fleet consists of three 40K loaders, two 25K loaders and two 56K loaders, which are no longer reliable, safe to operate and are no longer repairable due to lack of commercial repair parts available for these aged machines. The most recent example of the impact of their unreliability occurred on 11 Nov 2014. While employed at Forbes Field, Topeka, Kansas, aircraft delay was experienced due to the erratic operation of load handling controls on one of the operational K-loaders. The K-loader's load shifted and lurched forward, narrowly missing the aircraft's structure and avoiding damage to the aircraft by inches. The platforms of these K-loaders are no longer stable and movement is not precise, largely due to the wear in critical major components with over 30 years of use, which increases risk of aircraft damage and injuring personnel involved in the transfer of cargo to and from the aircraft. Attempts to obtain inspections and technical advice on correcting issues on these aged commercial K-loaders resulted in resistance by commercial firms to guarantee any repair actions or overhaul on machines as old as these, even at an extremely high estimated cost. Overhaul or refurbishment is not economically feasible and will not likely result in acceptable reliability for use on active airfield cargo operations. Three of the seven K-Loaders are condition code H (unserviceable) and awaiting disposal. Three of the remaining four K-Loaders are inoperative and undergoing classification inspections. Only a single K-loader is currently operational with limitations.

FY17 Base procurement funding in the amount of \$.705 million procures new equipment critical to military operations and readiness to provide garrison support to Major and Combatant Commands. Equipment is critical to maintaining installation roads and training areas needed by tactical units to maintain proficiency and combat readiness. Equipment supports maintaining road networks within the training areas; drop zones for airborne operations, landing zones for airmobile operations and ranges; and excavations supporting new range facilities, hard stands and emplacements. The equipment maintains road and parking drainage systems, and is also used for Force Protection operations to emplace concrete blocks and containers. Equipment replaces over-aged equipment with high utilization/increased deadline rates and uneconomical maintenance and repair costs. Equipment supports garrison requirements to correct environmental deficiencies and violations by excavating and transporting clean earth to environmental clean-up sites. Material handling, cargo handling and port operations equipment improves capabilities to mobilize, demobilize and out-load warfighting units.

FY17 funding of \$.201 million replaces the aging CID microscope. If the current microscope is not replaced, the aging instrument could fail or result in evidence pertaining to homicides and sexual assault cases not being analyzed in a timely manner due to outdated software and incompatibility with Army Networks.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 90	<b>P-1 Line Item Number / Title:</b> MB7000 / Base Level Common Equipment	<b>Item Number / Title [DODIC]:</b> MB7000 / Base Level Common Equipment

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	544.970	1.008	1.568	2.168	-	2.168
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	544.970	1.008	1.568	2.168	-	2.168
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	<b>544.970</b>	<b>1.008</b>	<b>1.568</b>	<b>2.168</b>	<b>-</b>	<b>2.168</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

<b>Cost Elements</b>	<b>Prior Years</b>			<b>FY 2015</b>			<b>FY 2016</b>			<b>FY 2017 Base</b>			<b>FY 2017 OCO</b>			<b>FY 2017 Total</b>		
	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>
Flyaway Cost																		
Recurring Cost																		
Ammunition Cranes	9,750.000	2	19.500	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Rough Terrain Forklifts	-	-	-	-	-	-	-	-	-	430.000	2	0.860	-	-	-	430.000	2	0.860
Loader Transport	-	-	-	-	-	-	-	-	-	402.000	1	0.402	-	-	-	402.000	1	0.402
BCE Equipment	-	-	525.470	-	-	1.008	-	-	1.568	-	-	-	-	-	-	-	-	-
Crane Truck Mounted	-	-	-	-	-	-	-	-	-	352.500	2	0.705	-	-	-	352.500	2	0.705
CID Microscope	-	-	-	-	-	-	-	-	-	201.000	1	0.201	-	-	-	201.000	1	0.201
Subtotal: Recurring Cost	-	-	544.970	-	-	1.008	-	-	1.568	-	-	2.168	-	-	-	-	-	2.168
Subtotal: Flyaway Cost	-	-	544.970	-	-	1.008	-	-	1.568	-	-	2.168	-	-	-	-	-	2.168
<b>Gross/Weapon System Cost</b>	-	-	<b>544.970</b>	-	-	<b>1.008</b>	-	-	<b>1.568</b>	-	-	<b>2.168</b>	-	-	-	-	-	<b>2.168</b>

<b>Secondary Distribution</b>		<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	1.008	1.568	2.168	-	2.168
<b>Total:</b>	<b>Quantity</b>	-	-	-	-	-
<b>Secondary Distribution</b>	<b>Total Obligation Authority</b>	<b>1.008</b>	<b>1.568</b>	<b>2.168</b>	<b>-</b>	<b>2.168</b>

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**Exhibit P-40, Budget Line Item Justification:** PB 2017 Army **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 90: Other Support Equipment	<b>P-1 Line Item Number / Title:</b> MA4500 / Modification Of In-Svc Equipment (OPA-3)
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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<b>Line Item MDAP/MAIS Code:</b> N/A	<b>Item MDAP/MAIS Code(s):</b> N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	4,221	3,004	2,423	1,842	-	1,842	1,992	1,863	2,332	2,197	-	19,874
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	836.388	97.580	64.219	67.367	-	67.367	47.241	39.586	70.587	71.577	-	1,294.545
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	836.388	97.580	64.219	67.367	-	67.367	47.241	39.586	70.587	71.577	-	1,294.545
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>836.388</b>	<b>97.580</b>	<b>64.219</b>	<b>67.367</b>	<b>-</b>	<b>67.367</b>	<b>47.241</b>	<b>39.586</b>	<b>70.587</b>	<b>71.577</b>	<b>-</b>	<b>1,294.545</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost ( <i>\$ in Thousands</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Thousands</i> )	198.149	32.483	26.504	36.573	-	36.573	23.715	21.249	30.269	32.579	-	65.138

**Description:**

This budget line funds Modifications of In-Service Equipment programs. It is used to develop material solutions and also to procure hardware, materials, and the hardware installation cost required to complete the modification. Modifications are performed to correct safety deficiencies; increase mission capabilities and interoperability; extend the useful life; improve supportability; upgrade existing technology; increase efficiency; improve readiness; modernization of legacy communications equipment and links; address obsolescence issues; and to meet new and/or changing statutory and regulatory requirements. By modifying existing equipment, the Army maintains a ready, supportable inventory of equipment that meets current requirements and regulations at a cost considerably below that of buying new equipment.

Army Watercraft Systems are categorized under Landing Craft, Towing and Terminal Operations, Ship-to-Shore Enablers and Watercraft Operations Support. Landing Craft consist of 8 Logistic Support Vessels (LSV), 34 Landing Craft Utility 2000 (LCU-2000), and 30 Landing Craft Mechanized 8 (LCM-8) MOD 1. Towing and Terminal Operations consist of 6 Large Tug 800 (LT-800), 16 Small Tug 900 (ST-900), and 4 Barge Derrick Crane 115-ton (BD-115). Ship-to-Shore Enablers consist of 3 Modular Causeway Systems (MCS) [each MCS includes 2 Roll-On/Roll-Off Discharge Facilities (RRDF), 5 Modular Warping Tugs (MWT), 1 Causeway Ferry (CF), 1 Floating Causeway (FC)]. Landing Craft discharge combat equipment or troops to austere beaches, undeveloped coastlines and operate in a non-permissive environment. Towing and Terminal Operations and Ship-to-Shore Enablers support ocean and port/harbor towing/salvage operations. Both are critical in denied/degraded ports, Joint Logistics Over-the-Shore (JLOTS) operations, and operations throughout the littorals. Watercraft Operations Support includes 6 LCM-8 MOD 2.

First fielded in 1988, the Logistics Support Vessel (LSV) is globally self-deployable, and provides worldwide and intra-theater movement and line haul of large quantities of combat vehicles, equipment, and sustainment cargo, to include containerized, break-bulk, and Roll-on Roll-off (RO/RO) cargo, to improved and/or degraded ports, bare and austere beaches, and inland water terminals. With 10,500 square feet of cargo space and a payload capacity of 2,000 tons, the LSV can carry 24 combat loaded M1A1 Main Battle Tanks or the equivalent. The vessel supports JLOTS, seaport opening and coastal/inland waterway distribution, anti-access theater opening, and can deliver combat-configured elements or sustainment cargo during all phases of the campaign.

First fielded in 1990, the Landing Craft Utility 2000 (LCU-2000) provides intra-theater movement of combat vehicles, equipment, and sustainment cargo, to include containerized, break-bulk, and RO/RO cargo to improved and/or degraded ports, bare and austere beaches, and inland water terminals. The vessel is ideally suited for the discharge and back load of sea lift, the shallow draft, bow ramp, and associated systems providing capability for beaching and beach extraction. The vessel supports JLOTS, seaport opening and coastal/inland waterway distribution, anti-access theater opening, and can deliver combat-configured elements or sustainment during all phases of the campaign.

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2017 Army		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 90: Other Support Equipment		<b>P-1 Line Item Number / Title:</b> MA4500 / Modification Of In-Svc Equipment (OPA-3)
<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
<b>Line Item MDAP/MAIS Code:</b> N/A	<b>Item MDAP/MAIS Code(s):</b> N/A	
<p>First fielded in 1967, the Landing Craft Mechanized 8 (LCM-8) transports combat equipped personnel and equipment, and sustainment cargo, from ship to shore and/or within coastal areas including inland waterways. The vessel is also capable of providing medical evacuations, command and control (C2) afloat and light harbor salvage support. The size of the vessel facilitates operation within restricted areas, access to shallow areas to include bare beaches, and extensively throughout inland waterways.</p> <p>First fielded in 1994, the Large Tug 800 (LT-800) performs transoceanic and coastal towing operations, docking and undocking of large ships, salvage and recovery operations for disabled or damaged watercraft at sea and along the coastal main supply routes, clearance of degraded, damaged, and denied access waterways and port facilities, and provides both ship to ship and ship to shore firefighting capability to include in support of ammunition upload/download operations.</p> <p>First fielded in 1998, the Small Tug 900 (ST-900) provides movement of cargo barges and lighterage of various types within a harbor, port, or Logistics Over the Shore (LOTS) or JLOTS operations. It also assists larger tugs with utility work such as docking/undocking of ships of all sizes, movement of floating cranes, and line-handling duties.</p> <p>First fielded in 1999, the Barge Derrick, 115-ton (BD-115) provides heavy lift to load and discharge cargo that exceeds the lift capacity of ship's gear in theater-wide missions/operations. The BD-115 is capable of lifting the M1A1 main battle tank from the centerline of a non-self-sustaining ship, and is world-wide deployable via the LT-800. The BD-115 also provides heavy clearance and salvage capabilities within degraded, damaged, and denied access waterways and port facilities.</p> <p>First fielded in 1996, the Modular Causeway System (MCS) provides floating platforms for the loading, discharge, and transport of combat vehicles, equipment, and sustainment cargo to and from improved or austere ports, inland water terminals, and during bare beach operations. A modular and highly transportable system, the MCS consists of both powered and non-powered systems to include the Roll-on Roll-off Discharge Facility (RRDF), Causeway Ferry (CF), Floating Causeway (FC), and Warping Tug (WT), and serves as a key enabler for both LOTS and JLOTS operations.</p> <p>The Army Watercraft Service Life Extension Program (SLEP) in prior fiscal years has been funded by MA4500, Modification of In-Service Equipment. As of FY 2014, the SLEP requirement moved to M11101 Army Watercraft Extended Service Program (ESP).</p> <p>Modification kits provide proven capabilities to reduce logistical, resource and operational energy burdens in forward deployed Force Provider base camps resulting in a significant impact on Soldier safety by reducing dangerous and risky resupply missions that result in casualties. In addition to saving lives, this is a fiscally responsible investment as these capabilities have a short return on investment in sustained operations. For example: Energy Efficiency modifications to shelters reduce solar loading by 85% and cooling and heating demands in turn reducing the fuel demand by 35% to power environmental control-ROI is within 180 days; the Power distribution Micro-grid component provides auto on/off capabilities for generators based upon load demand, reducing fuel consumed by over 30%-ROI is with 150 days; and the solid waste disposal piece will provide a safe and efficient capability to dispose of waste generated in the base camp.</p> <p>The Food Sanitation Center (FSC) will correct safety and operational shortfalls identified by the user and combat developer by retrofitting older FSCs with improvements from the current version. The modification kit includes automatic thermostatic water temperature control and a transfer pump. These modifications will improve operator safety, and overall sanitation effectiveness while reducing water consumption and environmental impact.</p> <p>The Explosive Ordnance Disposal (EOD) Modification of In-Service Equipment is a new start in FY 2017 and will be used to modify tool kits approved for EOD use. The EOD Response Tool Kit has not been modified or upgraded for more than 25 years. The kits contain special tools and equipment that EOD units use to render safe explosive ordnance. The modification will include adding the capability to provide decontamination for teams, as well as individuals, during suspected or confirmed exposure to chemical elements, adding the capability to locate and render safe Improvised Explosive Devices (IEDs), and modifying the kit packaging into smaller, mission unique kits to provide EOD technicians the ability to perform dismounted operations. The tool kits will be fielded throughout the active Army and National Guard units. The Army Acquisition Objective (AAO) for the EOD Response Tool Kit modification is 640.</p> <p>The AN/PSS-14 (HSTAMIDS) upgrade will correct safety and reliability/maintainability shortfalls of the system identified by the combat developer and depot operations responsible for the reset and overhaul of this system. The modifications will include new electronic boards, hand controller hardware, and updated software to address the safety performance of the system. These upgrades will require training/fielding of the system to address changes in the system operation from current software/hardware configuration.</p>		



**UNCLASSIFIED**

<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2017 Army		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 90: Other Support Equipment		<b>P-1 Line Item Number / Title:</b> MA4500 / Modification Of In-Svc Equipment (OPA-3)
<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
<b>Line Item MDAP/MAIS Code:</b> N/A	<b>Item MDAP/MAIS Code(s):</b> N/A	
<p>The Husky Mounted Detection System (HMDS) V1 Stand-alone Ground Penetrating Radar (GPR) Trainer upgrade will revise the current configuration to match the look and feel of the latest Gen 2E tactical system. The upgrade will also add the capability to detect Radio-frequency Identification (RFID) tags used in training to simulate the location of buried targets, critical for collective training. The HMDS GPR panel (antenna) skins upgrade will increase resistance to cuts and abrasions resulting from ground contact, and improve the ability of the skin to shed water during heavy rain that can degrade detection performance.</p> <p>The M41 Protection Assessment Test System (PATS) is a military version of a commercial device - TSI's "Model 8020M Portacount respirator Fit Tester" with the addition of an accessory kit, supplies, and a Nuclear, Biological, and Chemical (NBC) survivable carrying case to comprise a system, and designed to check the readiness of protective masks. The M41 PATS is one man portable, approximately 200 cubic inches in size, weighs 4 pounds, and is based on a miniature Condensation Nucleus Counter that continuously samples and counts individual particles that occur naturally in the surrounding air. The M41 PATS measures the concentration of these particles inside and outside the mask and calculates a Fit Factor (FF). The PATS is designed to verify that a protective mask, while worn by a soldier, is capable of providing a minimum Army requirement FF of 1667. The PATS verifies that: (1) the fit of the mask to the soldiers' face is acceptable, and (2) there are no critical leaks in the mask system. In addition to these features, the PATS can also be used to help screen for unserviceable masks, assist in determining if Preventive Maintenance Checks and Services (PMCS) have been conducted properly on critical components, and assist in training personnel on the proper wearing of the mask. A modernized PATS is needed as the legacy system is no longer manufacturable due to technological obsolescence of critical calibration components. The modernized M41 PATS will have redesigned circuit boards, modern technologies, and updated components so they are producible and manufacturable and can be maintained into FY2035.</p> <p>Comments: In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.</p>		

**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** PB 2017 Army **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 90: Other Support Equipment	<b>P-1 Line Item Number / Title:</b> MA4500 / Modification Of In-Svc Equipment (OPA-3)
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A
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Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	MA4500 / Various (Equipment Upgrade/Technical Insertion/ Modernization/Tactical Bridging)			4,221 / 836.388	3,004 / 97.580	2,423 / 64.219	1,842 / 67.367	- / -	1,842 / 67.367
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>			<b>4,221 / 836.388</b>	<b>3,004 / 97.580</b>	<b>2,423 / 64.219</b>	<b>1,842 / 67.367</b>	<b>- / -</b>	<b>1,842 / 67.367</b>

Exhibits Schedule				FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	MA4500 / Various (Equipment Upgrade/Technical Insertion/ Modernization/Tactical Bridging)			1,992 / 47.241	1,863 / 39.586	2,332 / 70.587	2,197 / 71.577	- / -	19,874 / 1,294.545
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>			<b>1,992 / 47.241</b>	<b>1,863 / 39.586</b>	<b>2,332 / 70.587</b>	<b>2,197 / 71.577</b>	<b>- / -</b>	<b>19,874 / 1,294.545</b>

\*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

**Justification:**  
 FY 2017 Base procurement dollars in the amount of \$67.367 million supports the following efforts:

FY 2017 Base Material Handling Equipment funding in the amount of \$0.180 million provides upgrades for systems for the ATLAS, RTCH and other MHE systems covering labor and travel expenses.

FY 2017 Base Construction Equipment funding in the amount of \$4.785 million provides for Armor Kits to support Construction Equipment vehicles in accordance with Armor Strategy; Airborne Scraper and Water Distributor - modification to meet testing and armor requirements. Modifications of current Construction Equipment systems to meet Airborne Transportation requirements. Blade Leveling System for Earthmoving Equipment to include Graders, Dozers and Scrapers which will increase the accuracy and efficiency of engineer capability. Mods make equipment more user friendly, improve product effectiveness and sustainability, reducing down time for maintenance. This funding is also used for the Item Unique Identification (IUID) Program.

FY 2017 Base procurement dollars in the amount of \$8.501 million procures modifications to Countermine Clearing Equipment for AN/PSS-14 (HSTAMIDS), which will extend the service life of this system, currently used in theater.

FY17 Base procurement funding in the amount of \$2.952 million will procure 12 HMDS V1 GPR Stand-alone Trainer upgrade kits.

FY17 Base procurement dollars in the amount of \$16.454, support production of key modification kits identified as a result of feedback from continued operations over the last 12 years. These requirements are identified in the Capability Production Document (CPD) for Force Provider (Expeditionary)(FPE)). Capabilities include: Resource and Operational Energy efficiency upgrades, micro-grid kits, solid waste disposal, and waste water reuse capability. These modifications significantly decrease sustainment requirements; improve Soldier safety; and provide significant capability that will allow the base camps to be more effective, adaptable, and more capable in sustaining Soldiers in remote areas. Funding includes production and installation of 32 Microgrid Kits; 32 LED Lighting Kits; 2 Solid Waste Disposal Kits; and 56 Environmental Control Upgrade Kits. Modifications support energy stewardship initiatives in the Army Strategic Plan and integrate threshold operational requirements identified in the Force Provider CPD.

FY 2017 Base procurement dollars in the amount of \$13.282 million supports Program Management/Matrix Support, and upgrades/modifications to Army Watercraft Systems which are completed as required to resolve any safety and/or sustainability issues, Force Protection - lethal and non-lethal Escalation of Force (EoF) issues, and technical insertions. These modifications will gain critically required operational improvements or maintain compliance with new and/or changing federal statutory and regulatory mandates in the areas of safety of life at sea (SOLAS) and environmental compliance. Program Management/ Matrix Support includes Program Management and System Engineering oversight required to manage the program and provide contractor oversight. Salaries, Benefits, Travel, Personnel Training and other government costs are included for retaining a professional acquisition workforce.

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2017 Army		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 90: Other Support Equipment		<b>P-1 Line Item Number / Title:</b> MA4500 / Modification Of In-Svc Equipment (OPA-3)
<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
<b>Line Item MDAP/MAIS Code:</b> N/A	<b>Item MDAP/MAIS Code(s):</b> N/A	
<p>FY 2017 \$.183 million, Petroleum and Water Systems (PAWS) will perform updates and provide replacements for obsolete instruments on the Petroleum Quality Analysis System Enhanced (PQAS-E) systems. This will ensure all systems in the field are the same configuration and have the most up to date instrumentation.</p> <p>FY2 2017 \$.022 million will procure cold weather kits in support of cold weather operations on the HIPPO Water Distribution Systems (HIPPO). These kits will increase operational effectiveness of the HIPPO system while being used in cold weather conditions.</p> <p>FY 2017 Base procurement dollars in the amount of \$8.724 million supports the following Bridging upgrades: The Dry Support Bridge (DSB) upgrade enabling the DSB to bridge a gap of 46 meters, increasing its gap crossing capability by 15%.</p> <p>FY 2017 Base procurement dollars in the amount of \$5.116 million procures modifications to 256 Explosive Ordnance Disposal (EOD) Response Tool Kits. This modernized equipment will increase operational capabilities of EOD units, as well as enhance the safety of EOD soldiers.</p> <p>FY 2017 Base procurement dollars in the amount of \$2.286 million supports production of 367 modification kits for Food Sanitation Centers that include automatic thermostatic water temperature control and a transfer pump. These modifications will improve operator safety, and overall sanitation effectiveness while reducing water consumption and environmental impact.</p> <p>FY2017 Base procurement dollars in the amount of \$4.773 million supports the modernization of the M41 Protection Assessment Test System (PATS), providing rapid instant chemical and biological protection mask fit assessment capability. FY17 funding buys 13 test units for engineering, completion of engineering changes and production verification testing on modified systems, and the procurement of 330 fieldable M41 Modernized PATS systems.</p> <p>In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.</p>		

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**Exhibit P-3a, Individual Modification: PB 2017 Army** **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 90	<b>P-1 Line Item Number / Title:</b> MA4500 / Modification Of In-Svc Equipment (OPA-3)	<b>Modification Number / Title:</b> MA4500 / Various
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	4,221	3,004	2,423	1,842	-	1,842	1,992	1,863	2,332	2,197	-	19,874
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	836.388	97.580	64.219	67.367	-	67.367	47.241	39.586	70.587	71.577	-	1,294.545
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	836.388	97.580	64.219	67.367	-	67.367	47.241	39.586	70.587	71.577	-	1,294.545
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>836.388</b>	<b>97.580</b>	<b>64.219</b>	<b>67.367</b>	<b>-</b>	<b>67.367</b>	<b>47.241</b>	<b>39.586</b>	<b>70.587</b>	<b>71.577</b>	<b>-</b>	<b>1,294.545</b>
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Thousands</i> )	198.149	32.483	26.504	36.573	-	36.573	23.715	21.249	30.269	32.579	-	65.138

**Description:**

This budget line funds Modifications of In-Service Equipment programs. It is used to develop material solutions and also to procure hardware, materials, and the hardware installation cost required to complete the modification. Modifications are performed to correct safety deficiencies; increase mission capabilities and interoperability; extend the useful life; improve supportability; upgrade existing technology; increase efficiency; improve readiness; modernization of legacy communications equipment and links; address obsolescence issues; and to meet new and/or changing statutory and regulatory requirements. By modifying existing equipment, the Army maintains a ready, supportable inventory of equipment that meets current requirements and regulations at a cost considerably below that of buying new equipment.

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<b>Exhibit P-3a, Individual Modification: PB 2017 Army</b>										<b>Date:</b> February 2016																											
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 90					<b>P-1 Line Item Number / Title:</b> MA4500 / Modification Of In-Svc Equipment (OPA-3)					<b>Modification Number / Title:</b> MA4500 / Various																											
<b>Models of Systems Affected:</b> Army Watercraft Systems (AWS),CE/,MHE,Bridging, FSS, PAWS, Countermine, Explosive Ordnance Disposal					<b>Modification Type:</b> Equipment Upgrade/Technical Insertion/Modernization/Tactical Bridging					<b>Related RDT&amp;E PEs:</b>																											
<table border="1"> <thead> <tr> <th rowspan="2">Financial Plan</th> <th>Prior Years</th> <th>FY 2015</th> <th>FY 2016</th> <th>FY 2017 Base</th> <th>FY 2017 OCO</th> <th>FY 2017 Total</th> <th>FY 2018</th> <th>FY 2019</th> <th>FY 2020</th> <th>FY 2021</th> <th>To Complete</th> <th>Total</th> </tr> <tr> <th>Qty (Each) / Total Cost (\$ M)</th> <th>Qty (Each) / Total Cost (\$ M)</th> <th>Qty (Each) / Total Cost (\$ M)</th> <th>Qty (Each) / Total Cost (\$ M)</th> <th>Qty (Each) / Total Cost (\$ M)</th> <th>Qty (Each) / Total Cost (\$ M)</th> <th>Qty (Each) / Total Cost (\$ M)</th> <th>Qty (Each) / Total Cost (\$ M)</th> <th>Qty (Each) / Total Cost (\$ M)</th> <th>Qty (Each) / Total Cost (\$ M)</th> <th>Qty (Each) / Total Cost (\$ M)</th> <th>Qty (Each) / Total Cost (\$ M)</th> </tr> </thead> </table>													Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total																									
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)																									
<b>Procurement</b>																																					
<b>Modification Item 1 of 11: Army Watercraft Systems</b>																																					
A Kits																																					
Recurring																																					
Safety/Environmental MWO's/PQDR's/ECP's	- / -	- / 8.599	- / 1.713	- / 3.964	- / -	- / 3.964	- / 0.549	- / 0.911	- / 4.710	- / 4.765	- / -	- / 25.211																									
Program Management	0 / 1.059	- / 1.086	- / 1.112	- / 1.183	- / -	- / 1.183	- / 1.207	- / 1.231	- / 1.256	- / 1.281	- / -	- / 19.415																									
Matrix Support	0 / 2.620	- / 3.207	- / 3.286	- / 3.898	- / -	- / 3.898	- / 3.976	- / 4.056	- / 4.137	- / 4.220	- / -	- / 29.400																									
C4ISR	- / -	- / 22.030	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 22.030																									
Training Equipment	0 / 608.689	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 608.689																									
<b>Subtotal: Recurring</b>	<b>- / 612.368</b>	<b>- / 34.922</b>	<b>- / 6.111</b>	<b>- / 9.045</b>	<b>- / -</b>	<b>- / 9.045</b>	<b>- / 5.732</b>	<b>- / 6.198</b>	<b>- / 10.103</b>	<b>- / 10.266</b>	<b>- / -</b>	<b>- / 694.745</b>																									
<b>Subtotal: Army Watercraft Systems</b>	<b>0 / 612.368</b>	<b>- / 34.922</b>	<b>- / 6.111</b>	<b>- / 9.045</b>	<b>- / -</b>	<b>- / 9.045</b>	<b>- / 5.732</b>	<b>- / 6.198</b>	<b>- / 10.103</b>	<b>- / 10.266</b>	<b>- / -</b>	<b>- / 694.745</b>																									
<b>Modification Item 2 of 11: Force Provider</b>																																					
A Kits																																					
Recurring																																					
Kit Quantity	79 / 138.456	157 / 27.428	288 / 22.049	122 / 14.179	- / -	122 / 14.179	63 / 7.623	76 / 11.131	118 / 22.478	101 / 20.296	- / -	1,004 / 263.640																									
Engineering Change Orders	0 / 0.900	- / 0.275	- / 0.400	- / 0.425	- / -	- / 0.425	- / 0.250	- / 0.300	- / 0.325	- / 0.340	- / -	- / 3.215																									
Data	- / -	- / -	- / 0.120	- / 0.120	- / -	- / 0.120	- / 0.060	- / 0.080	- / 0.055	- / 0.060	- / -	- / 0.495																									
Training Equipment	0 / 0.500	- / 0.100	- / 0.100	- / 0.100	- / -	- / 0.100	- / 0.200	- / 0.100	- / 0.100	- / 0.100	- / -	- / 1.300																									
Support Equipment	- / -	- / -	- / 0.516	- / 0.460	- / -	- / 0.460	- / 0.125	- / 0.250	- / 0.250	- / 0.200	- / -	- / 1.801																									
Pm Support	0 / 0.950	- / 0.360	- / 0.510	- / 0.520	- / -	- / 0.520	- / 0.500	- / 0.500	- / 0.500	- / 0.525	- / -	- / 4.365																									
<b>Subtotal: Recurring</b>	<b>- / 140.806</b>	<b>- / 28.163</b>	<b>- / 23.695</b>	<b>- / 15.804</b>	<b>- / -</b>	<b>- / 15.804</b>	<b>- / 8.758</b>	<b>- / 12.361</b>	<b>- / 23.708</b>	<b>- / 21.521</b>	<b>- / -</b>	<b>- / 274.816</b>																									
<b>Subtotal: Force Provider</b>	<b>79 / 140.806</b>	<b>157 / 28.163</b>	<b>288 / 23.695</b>	<b>122 / 15.804</b>	<b>- / -</b>	<b>122 / 15.804</b>	<b>63 / 8.758</b>	<b>76 / 12.361</b>	<b>118 / 23.708</b>	<b>101 / 21.521</b>	<b>- / -</b>	<b>1,004 / 274.816</b>																									
<b>Modification Item 3 of 11: Food Sanitation Center</b>																																					
A Kits																																					
Recurring																																					
Kit Quantity	1,696 / 9.238	238 / 1.404	1,263 / 6.694	367 / 1.903	- / -	367 / 1.903	361 / 1.891	32 / 0.203	32 / 0.208	32 / 0.214	- / -	4,021 / 21.755																									
PM Support	0 / 0.931	- / 0.164	- / 0.329	- / 0.220	- / -	- / 0.220	- / 0.231	- / 0.025	- / 0.025	- / 0.025	- / -	- / 1.950																									
<b>Subtotal: Recurring</b>	<b>- / 10.169</b>	<b>- / 1.568</b>	<b>- / 7.023</b>	<b>- / 2.123</b>	<b>- / -</b>	<b>- / 2.123</b>	<b>- / 2.122</b>	<b>- / 0.228</b>	<b>- / 0.233</b>	<b>- / 0.239</b>	<b>- / -</b>	<b>- / 23.705</b>																									
<b>Subtotal: Food Sanitation Center</b>	<b>1,696 / 10.169</b>	<b>238 / 1.568</b>	<b>1,263 / 7.023</b>	<b>367 / 2.123</b>	<b>- / -</b>	<b>367 / 2.123</b>	<b>361 / 2.122</b>	<b>32 / 0.228</b>	<b>32 / 0.233</b>	<b>32 / 0.239</b>	<b>- / -</b>	<b>4,021 / 23.705</b>																									
<b>Modification Item 4 of 11: Explosive Ordnance Disposal (EOD) Equipment R01121</b>																																					

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Exhibit P-3a, Individual Modification: PB 2017 Army										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 03 / 90				P-1 Line Item Number / Title: MA4500 / Modification Of In-Svc Equipment (OPA-3)						Modification Number / Title: MA4500 / Various			
Models of Systems Affected: Army Watercraft Systems (AWS),CE/,MHE,Bridging, FSS, PAWS, Countermine, Explosive Ordnance Disposal				Modification Type: Equipment Upgrade/Technical Insertion/Modernization/Tactical Bridging				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
<b>A Kits</b>													
Recurring													
EOD Response Tool Kit	- / -	- / -	- / -	256 / 5.048	- / -	256 / 5.048	84 / 1.938	81 / 1.607	78 / 2.750	80 / 2.698	- / -	579 / 14.041	
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	- / 5.048	- / -	- / 5.048	- / 1.938	- / 1.607	- / 2.750	- / 2.698	- / -	- / 14.041	
Non-Recurring													
EOD Response Tool Kit	- / -	- / -	- / -	- / 0.068	- / -	- / 0.068	- / 0.131	- / 0.124	- / 0.166	- / 0.366	- / -	- / 0.855	
<i>Subtotal: Non-Recurring</i>	- / -	- / -	- / -	- / 0.068	- / -	- / 0.068	- / 0.131	- / 0.124	- / 0.166	- / 0.366	- / -	- / 0.855	
<i>Subtotal: Explosive Ordnance Disposal (EOD) Equipment R01121</i>	- / -	- / -	- / -	256 / 5.116	- / -	256 / 5.116	84 / 2.069	81 / 1.731	78 / 2.916	80 / 3.064	- / -	579 / 14.896	
<b>Modification Item 5 of 11: MHE Technical Insertion</b>													
A Kits													
Recurring													
Other	0 / 0.359	- / 0.198	- / 0.182	- / 0.180	- / -	- / 0.180	- / 0.143	- / 0.143	- / 0.246	- / 0.253	- / -	- / 1.704	
<i>Subtotal: Recurring</i>	- / 0.359	- / 0.198	- / 0.182	- / 0.180	- / -	- / 0.180	- / 0.143	- / 0.143	- / 0.246	- / 0.253	- / -	- / 1.704	
<i>Subtotal: MHE Technical Insertion</i>	0 / 0.359	- / 0.198	- / 0.182	- / 0.180	- / -	- / 0.180	- / 0.143	- / 0.143	- / 0.246	- / 0.253	- / -	- / 1.704	
<b>Modification Item 6 of 11: Construction Equipment Tech Insertion</b>													
A Kits													
Recurring													
Kit Quantity	1,600 / 25.709	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1,600 / 25.709	
Other	- / -	- / 4.311	- / 3.207	- / 4.785	- / -	- / 4.785	- / 5.172	- / 3.233	- / 6.366	- / 3.889	- / -	- / 30.963	
<i>Subtotal: Recurring</i>	- / 25.709	- / 4.311	- / 3.207	- / 4.785	- / -	- / 4.785	- / 5.172	- / 3.233	- / 6.366	- / 3.889	- / -	- / 56.672	
<i>Subtotal: Construction Equipment Tech Insertion</i>	1,600 / 25.709	- / 4.311	- / 3.207	- / 4.785	- / -	- / 4.785	- / 5.172	- / 3.233	- / 6.366	- / 3.889	- / -	1,600 / 56.672	
<b>Modification Item 7 of 11: Bridging</b>													
A Kits													
Recurring													
DSB 46 Meter Bridge	17 / 10.868	10 / 6.390	10 / 6.750	13 / 8.474	- / -	13 / 8.474	12 / 5.434	4 / 1.939	5 / 3.603	15 / 9.477	- / -	86 / 52.935	
REBS (Underride Bar/RO-RO/Arctic Kits)	2 / 0.959	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.959	
M9 ACE	1 / 0.523	18 / 0.645	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	19 / 1.168	
<i>Subtotal: Recurring</i>	- / 12.350	- / 7.035	- / 6.750	- / 8.474	- / -	- / 8.474	- / 5.434	- / 1.939	- / 3.603	- / 9.477	- / -	- / 55.062	
<i>Subtotal: Bridging</i>	20 / 12.350	28 / 7.035	10 / 6.750	13 / 8.474	- / -	13 / 8.474	12 / 5.434	4 / 1.939	5 / 3.603	15 / 9.477	- / -	107 / 55.062	

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Exhibit P-3a, Individual Modification: PB 2017 Army										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 03 / 90				P-1 Line Item Number / Title: MA4500 / Modification Of In-Svc Equipment (OPA-3)						Modification Number / Title: MA4500 / Various			
Models of Systems Affected: Army Watercraft Systems (AWS),CE/,MHE,Bridging, FSS, PAWS, Countermine, Explosive Ordnance Disposal				Modification Type: Equipment Upgrade/Technical Insertion/Modernization/Tactical Bridging				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
<b>Modification Item 8 of 11: Petroleum/Water Systems</b>													
A Kits													
Recurring													
Support Equipment	0 / 2.586	- / 0.224	- / 0.204	- / 0.205	- / -	- / 0.205	- / 0.151	- / 0.134	- / 0.231	- / 0.236	- / -	- / 3.971	
<b>Subtotal: Recurring</b>	<b>- / 2.586</b>	<b>- / 0.224</b>	<b>- / 0.204</b>	<b>- / 0.205</b>	<b>- / -</b>	<b>- / 0.205</b>	<b>- / 0.151</b>	<b>- / 0.134</b>	<b>- / 0.231</b>	<b>- / 0.236</b>	<b>- / -</b>	<b>- / 3.971</b>	
<b>Subtotal: Petroleum/Water Systems</b>	<b>0 / 2.586</b>	<b>- / 0.224</b>	<b>- / 0.204</b>	<b>- / 0.205</b>	<b>- / -</b>	<b>- / 0.205</b>	<b>- / 0.151</b>	<b>- / 0.134</b>	<b>- / 0.231</b>	<b>- / 0.236</b>	<b>- / -</b>	<b>- / 3.971</b>	
<b>Modification Item 9 of 11: Spark Rollers</b>													
A Kits													
Recurring													
Spark Rollers	- / -	1 / 0.082	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.082	
<b>Subtotal: Recurring</b>	<b>- / -</b>	<b>- / 0.082</b>	<b>- / -</b>	<b>- / -</b>	<b>- / -</b>	<b>- / -</b>	<b>- / -</b>	<b>- / -</b>	<b>- / -</b>	<b>- / -</b>	<b>- / -</b>	<b>- / 0.082</b>	
<b>Subtotal: Spark Rollers</b>	<b>- / -</b>	<b>1 / 0.082</b>	<b>- / -</b>	<b>- / -</b>	<b>- / -</b>	<b>- / -</b>	<b>- / -</b>	<b>- / -</b>	<b>- / -</b>	<b>- / -</b>	<b>- / -</b>	<b>1 / 0.082</b>	
<b>Modification Item 10 of 11: AN/PSS-14 (HSTAMIDS) and HMDS</b>													
A Kits													
Recurring													
AN/PSS-14	826 / 4.767	2,580 / 13.305	862 / 11.177	754 / 8.076	- / -	754 / 8.076	1,162 / 8.008	1,234 / 7.024	1,266 / 11.756	1,237 / 11.591	- / -	9,921 / 75.704	
HMDS	- / -	- / -	- / -	- / 2.804	- / -	- / 2.804	- / 3.938	- / -	- / -	- / -	- / -	- / 6.742	
<b>Subtotal: Recurring</b>	<b>- / 4.767</b>	<b>- / 13.305</b>	<b>- / 11.177</b>	<b>- / 10.880</b>	<b>- / -</b>	<b>- / 10.880</b>	<b>- / 11.946</b>	<b>- / 7.024</b>	<b>- / 11.756</b>	<b>- / 11.591</b>	<b>- / -</b>	<b>- / 82.446</b>	
Non-Recuring													
AN/PSS-14	0 / 0.165	- / 0.700	- / 0.589	- / 0.425	- / -	- / 0.425	- / 0.421	- / 0.370	- / 0.619	- / 0.610	- / -	- / 3.899	
HMDS	- / -	- / -	- / -	- / 0.148	- / -	- / 0.148	- / 0.207	- / -	- / -	- / -	- / -	- / 0.355	
<b>Subtotal: Non-Recuring</b>	<b>- / 0.165</b>	<b>- / 0.700</b>	<b>- / 0.589</b>	<b>- / 0.573</b>	<b>- / -</b>	<b>- / 0.573</b>	<b>- / 0.628</b>	<b>- / 0.370</b>	<b>- / 0.619</b>	<b>- / 0.610</b>	<b>- / -</b>	<b>- / 4.254</b>	
<b>Subtotal: AN/PSS-14 (HSTAMIDS) and HMDS</b>	<b>826 / 4.932</b>	<b>2,580 / 14.005</b>	<b>862 / 11.766</b>	<b>754 / 11.453</b>	<b>- / -</b>	<b>754 / 11.453</b>	<b>1,162 / 12.574</b>	<b>1,234 / 7.394</b>	<b>1,266 / 12.375</b>	<b>1,237 / 12.201</b>	<b>- / -</b>	<b>9,921 / 86.700</b>	
<b>Modification Item 11 of 11: CBRN Soldier Protection</b>													
A Kits													
Recurring													
Kit Quantity	- / -	- / -	- / -	330 / 3.000	- / -	330 / 3.000	310 / 2.765	436 / 3.889	833 / 7.370	732 / 6.536	- / -	2,641 / 23.560	
Tech Data	- / -	- / -	- / -	- / 0.250	- / -	- / 0.250	- / 0.130	- / 0.152	- / 0.097	- / 0.260	- / -	- / 0.889	
Program Management	- / -	- / -	- / -	- / 0.450	- / -	- / 0.450	- / 0.250	- / 0.406	- / 0.460	- / 0.424	- / -	- / 1.990	
First Article Testing	- / -	- / -	- / -	- / 0.358	- / -	- / 0.358	- / -	- / -	- / -	- / -	- / -	- / 0.358	

**UNCLASSIFIED**

<b>Exhibit P-3a, Individual Modification: PB 2017 Army</b>											<b>Date:</b> February 2016		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 90				<b>P-1 Line Item Number / Title:</b> MA4500 / Modification Of In-Svc Equipment (OPA-3)						<b>Modification Number / Title:</b> MA4500 / Various			
<b>Models of Systems Affected:</b> Army Watercraft Systems (AWS),CE/,MHE,Bridging, FSS, PAWS, Countermine, Explosive Ordnance Disposal				<b>Modification Type:</b> Equipment Upgrade/Technical Insertion/Modernization/Tactical Bridging				<b>Related RDT&amp;E PEs:</b>					
<b>Financial Plan</b>	<b>Prior Years</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>To Complete</b>	<b>Total</b>	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	- / 4.058	- / -	- / 4.058	- / 3.145	- / 4.447	- / 7.927	- / 7.220	- / -	- / 26.797	
<i>Subtotal: CBRN Soldier Protection</i>	- / -	- / -	- / -	330 / 4.058	- / -	330 / 4.058	310 / 3.145	436 / 4.447	833 / 7.927	732 / 7.220	- / -	2,641 / 26.797	
<i>Subtotal: Procurement, All Modification Items</i>	4,221 / 809.279	3,004 / 90.508	2,423 / 58.938	1,842 / 61.243	- / -	1,842 / 61.243	1,992 / 45.300	1,863 / 37.808	2,332 / 67.708	2,197 / 68.366	- / -	19,874 / 1,239.150	
<b>Installation</b>													
<b>Modification Item 1 of 11:</b> Army Watercraft Systems	0 / 0.746	- / 6.403	- / 3.194	- / 4.237	- / -	- / 4.237	- / 0.549	- / 0.912	- / 2.079	- / 2.111	- / -	- / 20.231	
<b>Modification Item 2 of 11:</b> Force Provider	101 / 0.930	157 / 0.300	288 / 0.650	122 / 0.650	- / -	122 / 0.650	63 / 0.630	76 / 0.400	118 / 0.400	101 / 0.420	- / -	1,026 / 4.380	
<b>Modification Item 3 of 11:</b> Food Sanitation Center	1,696 / 0.932	238 / 0.119	1,263 / 1.187	367 / 0.347	- / -	367 / 0.347	361 / 0.359	32 / 0.020	32 / 0.020	32 / 0.020	- / -	4,021 / 3.004	
<b>Modification Item 4 of 11:</b> Explosive Ordnance Disposal (EOD) Equipment R01121	0 / 0.000	- / -	- / -	256 / -	- / -	256 / -	84 / -	81 / -	78 / -	80 / -	61 / -	640 / -	
<b>Modification Item 5 of 11:</b> MHE Technical Insertion	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
<b>Modification Item 6 of 11:</b> Construction Equipment Tech Insertion	489 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	489 / -	
<b>Modification Item 7 of 11:</b> Bridging	24 / 24.501	17 / 0.250	10 / 0.250	10 / 0.250	- / -	10 / 0.250	13 / 0.250	12 / 0.250	4 / 0.250	5 / 0.250	15 / -	110 / 26.251	
<b>Modification Item 8 of 11:</b> Petroleum/Water Systems	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
<b>Modification Item 9 of 11:</b> Spark Rollers	0 / 0.000	2 / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / -	
<b>Modification Item 10 of 11:</b> AN/PSS-14 (HSTAMIDS) and HMDS	826 / 0.000	2,580 / -	862 / -	754 / -	- / -	754 / -	1,162 / -	1,234 / -	1,266 / -	1,237 / -	- / -	9,921 / -	
<b>Modification Item 11 of 11:</b> CBRN Soldier Protection	0 / 0.000	- / -	- / -	330 / 0.640	- / -	330 / 0.640	310 / 0.153	436 / 0.196	833 / 0.130	732 / 0.410	- / -	2,641 / 1.529	
<i>Subtotal: Installation</i>	3,136 / 27.109	2,994 / 7.072	2,423 / 5.281	1,839 / 6.124	- / -	1,839 / 6.124	1,993 / 1.941	1,871 / 1.778	2,331 / 2.879	2,187 / 3.211	76 / -	18,850 / 55.395	
<b>Total</b>													
<b>Total Cost (Procurement + Support + Installation)</b>	<b>836.388</b>	<b>97.580</b>	<b>64.219</b>	<b>67.367</b>	<b>-</b>	<b>67.367</b>	<b>47.241</b>	<b>39.586</b>	<b>70.587</b>	<b>71.577</b>	<b>-</b>	<b>1,294.545</b>	



**UNCLASSIFIED**

<b>Exhibit P-3a, Individual Modification: PB 2017 Army</b>		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 90	<b>P-1 Line Item Number / Title:</b> MA4500 / Modification Of In-Svc Equipment (OPA-3)	<b>Modification Number / Title:</b> MA4500 / Various

**Modification Item 1 of 11:** Army Watercraft Systems

**Manufacturer Information**

Manufacturer Name: Various	Manufacturer Location: Various
Administrative Leadtime (in Months): 5	Production Leadtime (in Months): 6

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates							
Delivery Dates							

**Installation Information**

**Method of Implementation:** Full and open competition

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	0 / 0.746	- / 0.000	- / 0.000	- / 0.000	- / -	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.746
FY 2015	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	0 / 0.000	- / 6.403	- / 3.194	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 9.597
FY 2017	0 / 0.000	- / -	- / -	- / 4.237	- / -	- / 4.237	- / -	- / -	- / -	- / -	- / -	- / 4.237
FY 2018	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / 0.549	- / -	- / -	- / -	- / -	- / 0.549
FY 2019	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.912	- / -	- / -	- / -	- / 0.912
FY 2020	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.079	- / -	- / -	- / 2.079
FY 2021	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 12.111	- / -	- / 12.111
To Complete	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	0 / 0.746	- / 6.403	- / 3.194	- / 4.237	- / -	- / 4.237	- / 0.549	- / 0.912	- / 2.079	- / 12.111	- / -	- / 20.231

**Installation Schedule**

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	4	3	1	3	2	1	-	-	3	4	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	34
Out	1	2	1	4	3	2	1	-	-	3	4	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	34

**UNCLASSIFIED**

<b>Exhibit P-3a, Individual Modification: PB 2017 Army</b>		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 90	<b>P-1 Line Item Number / Title:</b> MA4500 / Modification Of In-Svc Equipment (OPA-3)	<b>Modification Number / Title:</b> MA4500 / Various

**Modification Item 2 of 11:** Force Provider

**Manufacturer Information**

Manufacturer Name: Letterkenny Army Depot	Manufacturer Location: Chambersburg, PA
Administrative Leadtime (in Months): 2	Production Leadtime (in Months): 9

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Dec 2014	Dec 2015	Dec 2016	Dec 2017	Dec 2018	Dec 2019	Dec 2020
Delivery Dates	Aug 2015	Aug 2016	Aug 2017	Aug 2018	Aug 2019	Aug 2020	Aug 2021

**Installation Information**

**Method of Implementation:** MIPR

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	22 / 0.630	- / 0.000	- / 0.000	- / 0.000	- / -	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	22 / 0.630
FY 2015	79 / 0.300	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	79 / 0.300
FY 2016	0 / 0.000	157 / 0.300	288 / 0.650	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	445 / 0.950
FY 2017	0 / 0.000	- / -	- / -	122 / 0.650	- / -	122 / 0.650	- / -	- / -	- / -	- / -	- / -	122 / 0.650
FY 2018	0 / 0.000	- / -	- / -	- / -	- / -	- / -	63 / 0.630	- / -	- / -	- / -	- / -	63 / 0.630
FY 2019	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	76 / 0.400	- / -	- / -	- / -	76 / 0.400
FY 2020	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	118 / 0.400	- / -	- / -	118 / 0.400
FY 2021	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	101 / 0.420	- / -	101 / 0.420
To Complete	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	101 / 0.930	157 / 0.300	288 / 0.650	122 / 0.650	- / -	122 / 0.650	63 / 0.630	76 / 0.400	118 / 0.400	101 / 0.420	- / -	1,026 / 4.380

**Installation Schedule**

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	103	157	-	-	-	288	-	-	-	122	-	-	-	63	-	-	-	76	-	-	-	118	-	-	-	101	-	-	-	-	-
Out	34	32	37	-	25	66	66	-	72	72	72	72	30	30	31	31	15	15	15	18	20	20	18	18	30	30	30	28	25	76	1,028

**UNCLASSIFIED**

<b>Exhibit P-3a, Individual Modification: PB 2017 Army</b>		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 90	<b>P-1 Line Item Number / Title:</b> MA4500 / Modification Of In-Svc Equipment (OPA-3)	<b>Modification Number / Title:</b> MA4500 / Various

**Modification Item 3 of 11:** Food Sanitation Center

**Manufacturer Information**

Manufacturer Name: Sotera Defense	Manufacturer Location: Easton, MD
Administrative Leadtime (in Months): 1	Production Leadtime (in Months): 7

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Jan 2015	Jan 2016	Jan 2017	Jan 2018	Jan 2019	Jan 2020	Jan 2021
Delivery Dates	Oct 2015	Oct 2016	Oct 2017	Oct 2018	Oct 2019	Oct 2020	Oct 2021

**Installation Information**

**Method of Implementation:** C/FP

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	1,238 / 0.700	- / 0.000	- / 0.000	- / 0.000	- / -	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	1,238 / 0.700
FY 2015	458 / 0.232	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	458 / 0.232
FY 2016	0 / 0.000	238 / 0.119	1,263 / 1.187	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1,501 / 1.306
FY 2017	0 / 0.000	- / -	- / -	367 / 0.347	- / -	367 / 0.347	- / -	- / -	- / -	- / -	- / -	367 / 0.347
FY 2018	0 / 0.000	- / -	- / -	- / -	- / -	- / -	361 / 0.359	- / -	- / -	- / -	- / -	361 / 0.359
FY 2019	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	32 / 0.020	- / -	- / -	- / -	32 / 0.020
FY 2020	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	32 / 0.020	- / -	- / -	32 / 0.020
FY 2021	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	32 / 0.020	- / -	32 / 0.020
To Complete	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	1,696 / 0.932	238 / 0.119	1,263 / 1.187	367 / 0.347	- / -	367 / 0.347	361 / 0.359	32 / 0.020	32 / 0.020	32 / 0.020	- / -	4,021 / 3.004

**Installation Schedule**

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot				
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4						
In	1,696	-	238	-	-	-	1,263	-	-	-	367	-	-	-	361	-	-	-	32	-	-	-	32	-	-	-	32	-	-	-	-	-	-	-	4,021
Out	1,238	116	114	114	114	61	59	59	59	315	316	316	316	92	92	92	91	91	90	90	90	32	-	-	-	32	-	-	-	-	-	-	-	32	4,021

**UNCLASSIFIED**

<b>Exhibit P-3a, Individual Modification: PB 2017 Army</b>		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 90	<b>P-1 Line Item Number / Title:</b> MA4500 / Modification Of In-Svc Equipment (OPA-3)	<b>Modification Number / Title:</b> MA4500 / Various

**Modification Item 4 of 11:** Explosive Ordnance Disposal (EOD) Equipment R01121

**Manufacturer Information**

Manufacturer Name: TBS	Manufacturer Location: TBS
Administrative Leadtime (in Months): 8	Production Leadtime (in Months): 7

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates			May 2017	May 2018	May 2019	May 2020	May 2021
Delivery Dates			Feb 2018	Feb 2019	Feb 2020	Feb 2021	Feb 2022

**Installation Information**

**Method of Implementation:** TBD

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	0 / 0.000	- / 0.000	- / 0.000	- / 0.000	- / -	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000
FY 2015	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	0 / 0.000	- / -	- / -	256 / -	- / -	256 / -	- / -	- / -	- / -	- / -	- / -	256 / -
FY 2018	0 / 0.000	- / -	- / -	- / -	- / -	- / -	84 / -	- / -	- / -	- / -	- / -	84 / -
FY 2019	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	81 / -	- / -	- / -	- / -	81 / -
FY 2020	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	78 / -	- / -	- / -	78 / -
FY 2021	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	80 / -	- / -	80 / -
To Complete	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	61 / -	61 / -
Total	0 / 0.000	- / -	- / -	256 / -	- / -	256 / -	84 / -	81 / -	78 / -	80 / -	61 / -	640 / -

**Installation Schedule**

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	64	64	64	64	21	21	21	21	20	20	20	21	19	19	19	21	20	20	40	579
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	64	64	64	64	21	21	21	21	20	20	20	21	19	19	120	579

**UNCLASSIFIED**

<b>Exhibit P-3a, Individual Modification: PB 2017 Army</b>		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 90	<b>P-1 Line Item Number / Title:</b> MA4500 / Modification Of In-Svc Equipment (OPA-3)	<b>Modification Number / Title:</b> MA4500 / Various

**Modification Item 5 of 11:** MHE Technical Insertion

**Manufacturer Information**

Manufacturer Name: VARIOUS	Manufacturer Location: VARIOUS
Administrative Leadtime (in Months): 4	Production Leadtime (in Months): 6

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates		Dec 2016	Dec 2017	Dec 2018	Dec 2019	Dec 2020	Dec 2021
Delivery Dates		Jun 2017	Jun 2018	Jun 2019	Jun 2020	Jun 2021	Jun 2022

**Installation Information**

**Method of Implementation:** VARIOUS

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	0 / 0.000	- / 0.000	- / 0.000	- / 0.000	- / -	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000
FY 2015	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -

**Installation Schedule**

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Out	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1

**UNCLASSIFIED**

<b>Exhibit P-3a, Individual Modification: PB 2017 Army</b>		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 90	<b>P-1 Line Item Number / Title:</b> MA4500 / Modification Of In-Svc Equipment (OPA-3)	<b>Modification Number / Title:</b> MA4500 / Various

**Modification Item 6 of 11:** Construction Equipment Tech Insertion

**Manufacturer Information**

Manufacturer Name: VARIOUS	Manufacturer Location: VARIOUS
Administrative Leadtime (in Months): 4	Production Leadtime (in Months): 3

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	Dec 2015	Dec 2016	Dec 2017	Dec 2018	Dec 2019	Dec 2020	Dec 2021
Delivery Dates	Jun 2016	Jun 2017	Jun 2018	Jun 2019	Jun 2020	Jun 2021	Jun 2022

**Installation Information**

**Method of Implementation:** VARIOUS

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	162 / 0.000	- / 0.000	- / 0.000	- / 0.000	- / -	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	162 / 0.000
FY 2015	172 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	172 / -
FY 2016	155 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	155 / -
FY 2017	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	489 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	489 / -

**Installation Schedule**

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	1,600	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,600
Out	1,600	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,600

**UNCLASSIFIED**

<b>Exhibit P-3a, Individual Modification: PB 2017 Army</b>		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 90	<b>P-1 Line Item Number / Title:</b> MA4500 / Modification Of In-Svc Equipment (OPA-3)	<b>Modification Number / Title:</b> MA4500 / Various

**Modification Item 7 of 11:** Bridging

**Manufacturer Information**

Manufacturer Name: Various	Manufacturer Location: Various
Administrative Leadtime (in Months): 8	Production Leadtime (in Months): 7

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	May 2015	May 2016	May 2017	May 2018	May 2019	May 2020	May 2021
Delivery Dates	Mar 2016	Mar 2017	Mar 2018	Mar 2019	Apr 2020	Mar 2021	Mar 2022

**Installation Information**

**Method of Implementation:** Various

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	0 / 23.059	- / 0.000	- / 0.000	- / 0.000	- / -	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 23.059
FY 2015	4 / 0.592	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 0.592
FY 2016	20 / 0.850	17 / 0.250	10 / 0.250	10 / 0.250	- / -	10 / 0.250	- / -	- / -	- / -	- / -	- / -	57 / 1.600
FY 2017	0 / 0.000	- / -	- / -	- / -	- / -	- / -	13 / 0.250	- / -	- / -	- / -	- / -	13 / 0.250
FY 2018	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	12 / 0.250	- / -	- / -	- / -	12 / 0.250
FY 2019	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 0.250	- / -	- / -	4 / 0.250
FY 2020	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 0.250	- / -	5 / 0.250
FY 2021	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / -	15 / -
To Complete	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
<b>Total</b>	<b>24 / 24.501</b>	<b>17 / 0.250</b>	<b>10 / 0.250</b>	<b>10 / 0.250</b>	<b>- / -</b>	<b>10 / 0.250</b>	<b>13 / 0.250</b>	<b>12 / 0.250</b>	<b>4 / 0.250</b>	<b>5 / 0.250</b>	<b>15 / -</b>	<b>110 / 26.251</b>

**Installation Schedule**

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot								
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4										
In	30	-	-	28	-	-	-	-	10	-	-	-	-	13	-	-	-	-	12	-	-	-	-	4	-	-	-	-	5	-	-	-	15	-	-	-	-	-	117
Out	30	-	-	-	-	-	28	-	-	-	-	10	-	-	-	-	13	-	-	-	-	-	-	12	-	-	-	-	4	-	-	-	5	-	-	-	-	15	117

**UNCLASSIFIED**

**Exhibit P-3a, Individual Modification: PB 2017 Army** **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 90	<b>P-1 Line Item Number / Title:</b> MA4500 / Modification Of In-Svc Equipment (OPA-3)	<b>Modification Number / Title:</b> MA4500 / Various
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**Modification Item 8 of 11:** Petroleum/Water Systems

**Manufacturer Information**

Manufacturer Name: VARIOUS	Manufacturer Location: VARIOUS
Administrative Leadtime (in Months):	Production Leadtime (in Months):

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates							
Delivery Dates							

**Installation Information**

**Method of Implementation:** VARIOUS

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	0 / 0.000	- / 0.000	- / 0.000	- / 0.000	- / -	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000
FY 2015	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -

**Installation Schedule**

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	151	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	151
Out	151	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	151



**UNCLASSIFIED**

<b>Exhibit P-3a, Individual Modification: PB 2017 Army</b>		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 90	<b>P-1 Line Item Number / Title:</b> MA4500 / Modification Of In-Svc Equipment (OPA-3)	<b>Modification Number / Title:</b> MA4500 / Various

**Modification Item 9 of 11:** Spark Rollers

**Manufacturer Information**

Manufacturer Name: Letterkenny Army Depot (LEAD)	Manufacturer Location: PA
Administrative Leadtime (in Months): 6	Production Leadtime (in Months): 3

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates			Apr 2013	Dec 2015			
Delivery Dates			Jul 2013	Mar 2016			

**Installation Information**

**Method of Implementation:** Depot Recapitalization

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	0 / 0.000	- / 0.000	- / 0.000	- / 0.000	- / -	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000
FY 2015	0 / 0.000	1 / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / -
FY 2016	0 / 0.000	1 / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / -
FY 2017	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	0 / 0.000	2 / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / -

**Installation Schedule**

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	-	-	-	-	1	8	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	27
Out	-	-	-	-	-	1	8	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	27

**UNCLASSIFIED**

<b>Exhibit P-3a, Individual Modification: PB 2017 Army</b>		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 90	<b>P-1 Line Item Number / Title:</b> MA4500 / Modification Of In-Svc Equipment (OPA-3)	<b>Modification Number / Title:</b> MA4500 / Various

**Modification Item 10 of 11:** AN/PSS-14 (HSTAMIDS) and HMDS

**Manufacturer Information**

Manufacturer Name: L-3 Security & Detection Systems CyTerra Division	Manufacturer Location: Orlando, Florida
Administrative Leadtime (in Months): 8	Production Leadtime (in Months): 6

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	May 2015	Jan 2016	Jan 2017	Jan 2018	Jan 2019	Jan 2020	Jan 2021
Delivery Dates	Feb 2016	Jul 2016	Jul 2017	Jul 2018	Jul 2019	Jul 2020	Jul 2021

**Installation Information**

**Method of Implementation:** TBD

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	826 / 0.000	- / 0.000	- / 0.000	- / 0.000	- / -	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	826 / 0.000
FY 2015	0 / 0.000	2,580 / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2,580 / -
FY 2016	0 / 0.000	- / -	862 / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	862 / -
FY 2017	0 / 0.000	- / -	- / -	754 / -	- / -	754 / -	- / -	- / -	- / -	- / -	- / -	754 / -
FY 2018	0 / 0.000	- / -	- / -	- / -	- / -	- / -	1,162 / -	- / -	- / -	- / -	- / -	1,162 / -
FY 2019	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	1,234 / -	- / -	- / -	- / -	1,234 / -
FY 2020	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1,266 / -	- / -	- / -	1,266 / -
FY 2021	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1,237 / -	- / -	1,237 / -
To Complete	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	826 / 0.000	2,580 / -	862 / -	754 / -	- / -	754 / -	1,162 / -	1,234 / -	1,266 / -	1,237 / -	- / -	9,921 / -

**Installation Schedule**

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot									
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4											
In	826	-	-	1,346	-	-	-	2,096	-	-	-	-	754	-	-	-	-	1,162	-	-	-	-	1,234	-	-	-	-	1,266	-	-	-	-	1,237	-	-	-	-	-	-	9,921
Out	-	-	276	275	275	337	337	336	336	524	524	524	524	189	189	188	188	291	291	290	290	309	309	308	308	317	317	316	316	316	316	316	316	1,237	1,237	1,237	1,237	1,237	9,921	

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<b>Exhibit P-3a, Individual Modification: PB 2017 Army</b>		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 90	<b>P-1 Line Item Number / Title:</b> MA4500 / Modification Of In-Svc Equipment (OPA-3)	<b>Modification Number / Title:</b> MA4500 / Various

**Modification Item 11 of 11:** CBRN Soldier Protection

**Manufacturer Information**

Manufacturer Name: TSI, Inc.	Manufacturer Location: Shoreview, MN
Administrative Leadtime (in Months): 14	Production Leadtime (in Months): 2

Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates			Feb 2017	Nov 2017	Nov 2018	Nov 2019	Nov 2020
Delivery Dates			Apr 2017	Dec 2017	Dec 2018	Dec 2019	Dec 2020

**Installation Information**

**Method of Implementation:** Contract

Installation Cost	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	0 / 0.000	- / 0.000	- / 0.000	- / 0.000	- / -	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000
FY 2015	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	0 / 0.000	- / -	- / -	330 / 0.640	- / -	330 / 0.640	310 / 0.153	436 / 0.196	833 / 0.130	732 / 0.410	- / -	2,641 / 1.529
FY 2018	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	0 / 0.000	- / -	- / -	330 / 0.640	- / -	330 / 0.640	310 / 0.153	436 / 0.196	833 / 0.130	732 / 0.410	- / -	2,641 / 1.529

**Installation Schedule**

	PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot				
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4						
In	1	-	-	-	-	-	-	-	-	-	330	-	-	476	-	-	-	796	-	-	-	852	-	-	-	756	-	-	-	-	-	-	-	-	3,211
Out	1	-	-	-	-	-	-	-	-	-	-	165	165	119	119	119	119	199	199	199	199	213	213	213	213	189	189	189	189	-	3,211				

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**Exhibit P-40, Budget Line Item Justification:** PB 2017 Army **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 90: Other Support Equipment	<b>P-1 Line Item Number / Title:</b> MA0450 / Production Base Support (OTH)
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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<b>Line Item MDAP/MAIS Code:</b> N/A	<b>Item MDAP/MAIS Code(s):</b> N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	238.693	1.697	1.525	1.528	-	1.528	2.271	2.330	2.373	2.441	Continuing	Continuing
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	238.693	1.697	1.525	1.528	-	1.528	2.271	2.330	2.373	2.441	Continuing	Continuing
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>238.693</b>	<b>1.697</b>	<b>1.525</b>	<b>1.528</b>	<b>-</b>	<b>1.528</b>	<b>2.271</b>	<b>2.330</b>	<b>2.373</b>	<b>2.441</b>	<b>Continuing</b>	<b>Continuing</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost ( <i>\$ in Thousands</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Thousands</i> )	-	-	-	-	-	-	-	-	-	-	-	-

**Description:**

This program provides funding to the Army Test and Evaluation Command (ATEC) to establish, modernize, expand or replace test facilities used in production testing of General Support Equipment (including trucks, trailers, generators, soldier support equipment, etc.). It sustains Army production test capabilities through upgrade and replacement of instrumentation and equipment that is technologically and/or economically obsolete. Modernization of test instrumentation and equipment provides increased automation and efficiencies, improved data quality and quantity and cost avoidances to Army Program Managers. Programmed funding will be used to upgrade or replace production test instrumentation and equipment at Aberdeen Test Center (ATC), Aberdeen Proving Ground, MD; and Yuma Test Center (YTC), Yuma Proving Ground, AZ (including YTCs Cold Regions Test Center (CRTC), Fort Greely, AK).

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	1.697	1.525	1.528	-	1.528	2.271	2.330	2.373	2.441
<b>Total:</b>									
<b>Secondary Distribution</b>									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	<b>1.697</b>	<b>1.525</b>	<b>1.528</b>	<b>-</b>	<b>1.528</b>	<b>2.271</b>	<b>2.330</b>	<b>2.373</b>	<b>2.441</b>

**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** PB 2017 Army **Date:** February 2016

**Appropriation / Budget Activity / Budget Sub Activity:**  
 2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 90: Other Support Equipment

**P-1 Line Item Number / Title:**  
 MA0450 / Production Base Support (OTH)

**ID Code** (A=Service Ready, B=Not Service Ready): **Program Elements for Code B Items:** N/A **Other Related Program Elements:** N/A

**Line Item MDAP/MAIS Code:** N/A **Item MDAP/MAIS Code(s):** N/A

Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-40a	MA9000 / PROVISION OF INDUSTRIAL FACILITIES			- / 238.693	- / 1.697	- / 1.525	- / 1.528	- / -	- / 1.528
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>			<b>- / 238.693</b>	<b>- / 1.697</b>	<b>- / 1.525</b>	<b>- / 1.528</b>	<b>- / -</b>	<b>- / 1.528</b>

\*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

**Justification:**  
 FY 2017 Base procurement dollars in the amount of \$1.528 million support the following: At ATC, procures modern industrial shop equipment (welding and cutting machines) used in fabrication of support items required for Production Qualification Testing (such as rotors, stands, sleighs, camera mounts and instrumentation brackets); replaces old instrumentation used to test combat vehicle fire suppression systems and procures instrumentation and equipment (such as abrators, laundering, self-contained color and flammability, wear, weathering, plus other textile testers and controlled temperature and humidity test equipment) to perform non-ballistic testing on soldier clothing and equipment. At YTC, procures replacement transducers used to collect performance data during automotive tests (including sensors, load cells, thermocouple amplifiers, pressure transducers, embedded wireless sensors, strain gages, current transducers and thermocouples); replaces obsolete air delivery aircraft and airdrop load instrumentation in the areas of aircraft telemetry, aircraft on-board video, payload telemetry, and payload data recorders and purchases on-board data acquisition and recording equipment for collecting vehicle performance data in harsh desert environments.

The majority of the instrumentation being upgraded or replaced is obsolete and has met or exceeded its economic life. This instrumentation is required to ensure complete and accurate test data is collected and safety and environmental hazards are minimized. Benefits of this project include increased test efficiencies and decreased costs and risks to Army Program Managers.

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**Exhibit P-40a, Budget Item Justification For Aggregated Items:** PB 2017 Army **Date:** February 2016

**Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 03 / 90 **P-1 Line Item Number / Title:** MA0450 / Production Base Support (OTH) **Aggregated Items Title:** Various

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
			Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
<b>PROVISION OF INDUSTRIAL FACILITIES</b>																				
MA9000 / PROVISION OF INDUSTRIAL FACILITIES			-	-	238.693	-	-	1.697	-	-	1.525	-	-	1.528	-	-	-	-	-	1.528
<i>Secondary Distribution</i>																				
Army			-	-	-	-	-	1.697	-	-	1.525	-	-	1.528	-	-	-	-	-	1.528
<b>Subtotal: PROVISION OF INDUSTRIAL FACILITIES</b>			-	-	<b>238.693</b>	-	-	<b>1.697</b>	-	-	<b>1.525</b>	-	-	<b>1.528</b>	-	-	-	-	-	<b>1.528</b>
<b>Total</b>			-	-	<b>238.693</b>	-	-	<b>1.697</b>	-	-	<b>1.525</b>	-	-	<b>1.528</b>	-	-	-	-	-	<b>1.528</b>

Note: Subtotals or Totals in this Exhibit P-40a may not be exact or sum exactly, due to rounding.

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**Exhibit P-40, Budget Line Item Justification:** PB 2017 Army **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 90: Other Support Equipment	<b>P-1 Line Item Number / Title:</b> MA6700 / Special Equipment For User Testing
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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<b>Line Item MDAP/MAIS Code:</b> N/A	<b>Item MDAP/MAIS Code(s):</b> N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	5	2	7	-	7	11	12	12	19	Continuing	Continuing
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	614.667	25.394	6.268	8.289	-	8.289	47.325	61.457	57.181	57.474	Continuing	Continuing
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	614.667	25.394	6.268	8.289	-	8.289	47.325	61.457	57.181	57.474	Continuing	Continuing
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>614.667</b>	<b>25.394</b>	<b>6.268</b>	<b>8.289</b>	<b>-</b>	<b>8.289</b>	<b>47.325</b>	<b>61.457</b>	<b>57.181</b>	<b>57.474</b>	<b>Continuing</b>	<b>Continuing</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost ( <i>\$ in Thousands</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Thousands</i> )	-	5,078.800	3,134.000	1,184.143	-	1,184.143	4,302.273	5,121.417	4,765.083	3,024.947	Continuing	Continuing

**Description:**

Special Equipment for User Testing is comprised of multiple programs for the Army Threat Simulator Program and Major Operational Testing Instrumentation. The Army Threat Simulator Program procures actual foreign hardware and Non-Developmental Items (NDI) (e.g., chassis, subsystems, commercial equipment, or actual threat weapons), which are integrated into a threat simulator design for user testing and training. Program also provides funding for Major Operational Testing Instrumentation, major field instrumentation for Operational Testing (OT), Force Development Testing and Experimentation (FDTE), and Army Warfighting Experiments (AWE). Initiatives are tied to tactical systems that support each of the five joint functional concepts outlined in the Army Modernization Plan (Force Application; Protection; Focused Logistics; Battlespace Awareness; Command and Control). Budget Item procures a variety of Special Equipment for User Testing, such as Integrated Threat Force, Threat Signal Injection Jammer (TSIJ), Threat Operations, and Advanced Jammer Suite.

Special Equipment for User Testing programs provides support at: Army Test and Evaluation Command (ATEC) and Operational Test Command (OTC) facilities include Transformation Technology Directorate (TTD) at Fort Hood, TX; Fire Support Test Directorate (FSTD) at Fort Sill, OK; Airborne Special Operations Test Directorate (ABSOTD) at Fort Bragg, NC; Air Defense Artillery Test Directorate (ADATD) and Electronic Proving Ground (EPG) at Fort Huachuca, AZ.

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army									
Quantity	5	2	7	-	7	11	12	12	19
Total Obligation Authority	25.394	6.268	8.289	-	8.289	47.325	61.457	57.181	57.474
<b>Total:</b>	<b>5</b>	<b>2</b>	<b>7</b>	<b>-</b>	<b>7</b>	<b>11</b>	<b>12</b>	<b>12</b>	<b>19</b>
<b>Secondary Distribution</b>	<b>25.394</b>	<b>6.268</b>	<b>8.289</b>	<b>-</b>	<b>8.289</b>	<b>47.325</b>	<b>61.457</b>	<b>57.181</b>	<b>57.474</b>

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**Exhibit P-40, Budget Line Item Justification:** PB 2017 Army **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 90: Other Support Equipment	<b>P-1 Line Item Number / Title:</b> MA6700 / Special Equipment For User Testing
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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<b>Line Item MDAP/MAIS Code:</b> N/A	<b>Item MDAP/MAIS Code(s):</b> N/A
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Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	MA6700 / Special Equipment For User Testing	P-5a, P-21		- / 614.667	5 / 25.394	2 / 6.268	7 / 8.289	- / -	7 / 8.289
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>			<b>- / 614.667</b>	<b>5 / 25.394</b>	<b>2 / 6.268</b>	<b>7 / 8.289</b>	<b>- / -</b>	<b>7 / 8.289</b>

\*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

**Justification:**  
 FY 2017 Base procurement dollars in the amount of \$8.289 million procures multiple threat systems required to support developmental and operational testing and training of network centric threat scenarios. These threat scenarios are critical to integrating digital battlefield data collection and analysis tools that support the establishment of robust command and control capabilities. These tools will collect, store and analyze data from this new dimension of digital command and control battlefield warfare capabilities.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.



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<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 90	<b>P-1 Line Item Number / Title:</b> MA6700 / Special Equipment For User Testing	<b>Item Number / Title [DODIC]:</b> MA6700 / Special Equipment For User Testing

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	-	5	2	7	-	7
Gross/Weapon System Cost (\$ in Millions)	614.667	25.394	6.268	8.289	-	8.289
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	614.667	25.394	6.268	8.289	-	8.289
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	<b>614.667</b>	<b>25.394</b>	<b>6.268</b>	<b>8.289</b>	<b>-</b>	<b>8.289</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	5,078.800	3,134.000	1,184.143	-	1,184.143

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
Integrated Threat Force <sup>(†)</sup>	3,507.000	3	10.521	5,136.000	1	5.136	2,168.000	1	2.168	1,310.000	1	1.310	-	-	-	1,310.000	1	1.310
Threat Sig Injection Jammer <sup>(†)</sup>	2,281.831	249	568.176	6,730.500	2	13.461	-	-	-	-	-	-	-	-	-	-	-	-
Threat Operations <sup>(†)</sup>	3,597.000	10	35.970	3,597.000	1	3.597	4,100.000	1	4.100	1,108.000	1	1.108	-	-	-	1,108.000	1	1.108
Giraffe 75 Acquisition Radar <sup>(†)</sup>	-	-	-	3,200.000	1	3.200	-	-	-	-	-	-	-	-	-	-	-	-
Advanced Jammer Suite <sup>(†)</sup>	-	-	-	-	-	-	-	-	-	1,174.200	5	5.871	-	-	-	1,174.200	5	5.871
<i>Subtotal: Recurring Cost</i>	-	-	614.667	-	-	25.394	-	-	6.268	-	-	8.289	-	-	-	-	-	8.289
<i>Subtotal: Flyaway Cost</i>	-	-	614.667	-	-	25.394	-	-	6.268	-	-	8.289	-	-	-	-	-	8.289
<b>Gross/Weapon System Cost</b>	-	-	<b>614.667</b>	<b>5,078.800</b>	<b>5</b>	<b>25.394</b>	<b>3,134.000</b>	<b>2</b>	<b>6.268</b>	<b>1,184.143</b>	<b>7</b>	<b>8.289</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1,184.143</b>	<b>7</b>	<b>8.289</b>

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	Quantity	5	2	7	-	7
	Total Obligation Authority	25.394	6.268	8.289	-	8.289
<b>Total:</b>	<b>Quantity</b>	<b>5</b>	<b>2</b>	<b>7</b>	<b>-</b>	<b>7</b>

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis:</b> PB 2017 Army		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 90	<b>P-1 Line Item Number / Title:</b> MA6700 / Special Equipment For User Testing	<b>Item Number / Title [DODIC]:</b> MA6700 / Special Equipment For User Testing

**ID Code** (A=Service Ready, B=Not Service Ready) : \_\_\_\_\_ **MDAP/MAIS Code:** \_\_\_\_\_

<b>Secondary Distribution</b>		<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>
<b>Secondary Distribution</b>	<b>Total Obligation Authority</b>	25.394	6.268	8.289	-	8.289

(t) indicates the presence of a P-5a

**UNCLASSIFIED**

**Exhibit P-5a, Procurement History and Planning: PB 2017 Army** **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 90	<b>P-1 Line Item Number / Title:</b> MA6700 / Special Equipment For User Testing	<b>Item Number / Title [DODIC]:</b> MA6700 / Special Equipment For User Testing
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Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
Integrated Threat Force <sup>(†)</sup>		2014	General Dynamics C4 Sys (ITF) / Scottsdale, AZ	C / CPFF	PEO STRI, Orlando, FL	Dec 2013	Dec 2014	1	3,507.000	Y		
Integrated Threat Force <sup>(†)</sup>		2015	General Dynamics C4 Sys (ITF) / Scottsdale, AZ	C / CPFF	PEO STRI, Orlando, FL	Dec 2014	Dec 2015	1	5,136.000	Y		
Integrated Threat Force <sup>(†)</sup>		2016	General Dynamics C4 Sys (ITF) / Scottsdale, AZ	C / CPFF	PEO STRI, Orlando, FL	Dec 2015	Dec 2016	1	2,168.000	Y		
Integrated Threat Force <sup>(†)</sup>		2017	General Dynamics C4 Sys (ITF) / Scottsdale, AZ	C / CPFF	PEO STRI, Orlando, FL	Dec 2016	Dec 2017	1	1,310.000	Y		
Threat Sig Injection Jammer <sup>(†)</sup>		2014	Scientific Research Corp. / Atlanta, GA	C / CPFF	PEO STRI, Orlando, FL	Dec 2013	Dec 2014	17	331.118	Y		
Threat Sig Injection Jammer <sup>(†)</sup>		2015	Scientific Research Corp. / Atlanta, GA	C / CPFF	PEO STRI, Orlando, FL	Dec 2014	Dec 2015	2	6,730.500	Y		
Threat Operations <sup>(†)</sup>		2014	Scientific Research Corp. / Atlanta, GA	C / CPFF	PEO STRI, Orlando, FL	Dec 2013	Dec 2014	1	718.000	Y		
Threat Operations <sup>(†)</sup>		2015	Test & Evaluation Ser&Tech LLC / Herndon, VA	C / CPFF	PEO STRI, Orlando, FL	Dec 2014	Dec 2015	1	3,597.000	Y		
Threat Operations <sup>(†)</sup>		2016	Test & Evaluation Ser&Tech LLC / Herndon, VA	C / CPFF	PEO STRI, Orlando, FL	Nov 2015	Nov 2016	1	4,100.000	Y		
Threat Operations <sup>(†)</sup>		2017	Test & Evaluation Ser&Tech LLC / Herndon, VA	C / CPFF	PEO STRI, Orlando, FL	Dec 2016	Dec 2017	1	1,108.000	Y		
Giraffe 75 Acquisition Radar <sup>(†)</sup>		2015	GENERAL DYNAMICS C4 SYSTEMS, I / Scottsdale, AZ	C / FFP	PEO STRI, Orlando, FL	Apr 2015	Apr 2016	1	3,200.000	N		
Advanced Jammer Suite <sup>(†)</sup>		2017	TBD / TBD	C / FFP	PEO STRI, Orlando, FL	Dec 2016	Dec 2017	5	1,174.200	N		

<sup>(†)</sup> indicates the presence of a P-21

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<b>Exhibit P-21, Production Schedule:</b> PB 2017 Army				<b>Date:</b> February 2016							
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 90				<b>P-1 Line Item Number / Title:</b> MA6700 / Special Equipment For User Testing				<b>Item Number / Title [DODIC]:</b> MA6700 / Special Equipment For User Testing			

Cost Elements <i>(Units in Each)</i>				Fiscal Year 2014														Fiscal Year 2015														B A L A N C E			
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2013	BAL DUE AS OF 1 OCT	Calendar Year 2014														Calendar Year 2015														
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					
<b>Integrated Threat Force</b>																																			
Prior Years Deliveries: 2																																			
1		2014	ARMY	1	-	1				A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
1		2015	ARMY	1	-	1																										1			
1		2016	ARMY	1	-	1																										1			
1		2017	ARMY	1	-	1																										1			
<b>Threat Sig Injection Jammer</b>																																			
Prior Years Deliveries: 232																																			
2		2014	ARMY	17	-	17				A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
2		2015	ARMY	2	-	2																											2		
<b>Threat Operations</b>																																			
Prior Years Deliveries: 9																																			
3		2014	ARMY	1	-	1				A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
4		2015	ARMY	1	-	1																											1		
4		2016	ARMY	1	-	1																											1		
4		2017	ARMY	1	-	1																											1		
<b>Giraffe 75 Acquisition Radar</b>																																			
5		2015	ARMY	1	-	1																											1		
<b>Advanced Jammer Suite</b>																																			
6		2017	ARMY	5	-	5																											5		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					

**UNCLASSIFIED**

Exhibit P-21, Production Schedule: PB 2017 Army																							Date: February 2016								
Appropriation / Budget Activity / Budget Sub Activity:										P-1 Line Item Number / Title:										Item Number / Title [DODIC]:											
2035A / 03 / 90										MA6700 / Special Equipment For User Testing										MA6700 / Special Equipment For User Testing											
Cost Elements <i>(Units in Each)</i>						Fiscal Year 2016												Fiscal Year 2017												B A L A N C E	
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCE PT PRI OR TO 1 OCT 2015	BAL DUE AS OF 1 OCT	Calendar Year 2016												Calendar Year 2017												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P
Integrated Threat Force																															
Prior Years Deliveries: 2																															
1		2014	ARMY	1	1	-																									
1		2015	ARMY	1	-	1	-	-		1																					
1		2016	ARMY	1	-	1				A	-	-	-	-	-	-	-	-	-	-	-	-	1								
1		2017	ARMY	1	-	1															A	-	-	-	-	-	-	-	-		
Threat Sig Injection Jammer																															
Prior Years Deliveries: 232																															
2		2014	ARMY	17	17	-																									
2		2015	ARMY	2	-	2	-	-	2																						
Threat Operations																															
Prior Years Deliveries: 9																															
3		2014	ARMY	1	1	-																									
4		2015	ARMY	1	-	1	-	-	1																						
4		2016	ARMY	1	-	1			A	-	-	-	-	-	-	-	-	-	-	-	1										
4		2017	ARMY	1	-	1															A	-	-	-	-	-	-	-	-		
Giraffe 75 Acquisition Radar																															
5		2015	ARMY	1	-	1	-	-	-	-	-	-	-	-	1																
Advanced Jammer Suite																															
6		2017	ARMY	5	-	5															A	-	-	-	-	-	-	-	-		
<div style="display: flex; justify-content: space-between; font-size: small;"> <span>O C T</span> <span>N O V</span> <span>D E C</span> <span>J A N</span> <span>F E B</span> <span>M A R</span> <span>A P R</span> <span>M A Y</span> <span>J U N</span> <span>J U L</span> <span>A U G</span> <span>S E P</span> <span>O C T</span> <span>N O V</span> <span>D E C</span> <span>J A N</span> <span>F E B</span> <span>M A R</span> <span>A P R</span> <span>M A Y</span> <span>J U N</span> <span>J U L</span> <span>A U G</span> <span>S E P</span> </div>																															

**UNCLASSIFIED**

<b>Exhibit P-21, Production Schedule:</b> PB 2017 Army		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 90		<b>P-1 Line Item Number / Title:</b> MA6700 / Special Equipment For User Testing
		<b>Item Number / Title [DODIC]:</b> MA6700 / Special Equipment For User Testing

Cost Elements <i>(Units in Each)</i>					Fiscal Year 2018													Fiscal Year 2019													BALANCE	
O C O #	M F R FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2017	BAL DUE AS OF 1 OCT	Calendar Year 2018													Calendar Year 2019													
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			
Integrated Threat Force																																
Prior Years Deliveries: 2																																
1	2014	ARMY	1	1	-																								-			
1	2015	ARMY	1	1	-																								-			
1	2016	ARMY	1	1	-																								-			
1	2017	ARMY	1	-	1	-	-		1																				-			
Threat Sig Injection Jammer																																
Prior Years Deliveries: 232																																
2	2014	ARMY	17	17	-																								-			
2	2015	ARMY	2	2	-																								-			
Threat Operations																																
Prior Years Deliveries: 9																																
3	2014	ARMY	1	1	-																								-			
4	2015	ARMY	1	1	-																								-			
4	2016	ARMY	1	1	-																								-			
4	2017	ARMY	1	-	1	-	-		1																				-			
Giraffe 75 Acquisition Radar																																
5	2015	ARMY	1	1	-																								-			
Advanced Jammer Suite																																
6	2017	ARMY	5	-	5	-	-		5																				-			
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

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<b>Exhibit P-21, Production Schedule:</b> PB 2017 Army		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 03 / 90		<b>P-1 Line Item Number / Title:</b> MA6700 / Special Equipment For User Testing
		<b>Item Number / Title [DODIC]:</b> MA6700 / Special Equipment For User Testing

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2017	1-8-5 For 2017	MAX For 2017	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	General Dynamics C4 Sys (ITF) - Scottsdale, AZ	1	2	3	-	2	12	14	-	2	12	14
2	Scientific Research Corp. - Atlanta, GA	1	20	45	-	2	12	14	-	2	12	14
3	Scientific Research Corp. - Atlanta, GA	1	20	45	-	2	12	14	-	2	12	14
4	Test & Evaluation Ser&Tech LLC - Herndon, VA	1	1	1	-	3	3	6	-	-	-	-
5	GENERAL DYNAMICS C4 SYSTEMS, I - Scottsdale, AZ	1	1	1	-	7	12	19	-	-	-	-
6	TBD - TBD	1	1	5	-	3	12	15	-	-	-	-

"A" in the Delivery Schedule indicates the Contract Award Date.

**Note:** Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

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**Exhibit P-40, Budget Line Item Justification:** PB 2017 Army **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 90: Other Support Equipment	<b>P-1 Line Item Number / Title:</b> G01001 / AMC Critical Items OPA3
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	253.595	7.785	-	-	-	-	-	-	-	-	-	261.380
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	253.595	7.785	-	-	-	-	-	-	-	-	-	261.380
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>253.595</b>	<b>7.785</b>	-	-	-	-	-	-	-	-	-	<b>261.380</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost ( <i>\$ in Thousands</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Thousands</i> )	-	-	-	-	-	-	-	-	-	-	-	-

**Description:**

The Army Materiel Command (AMC) identifies Table of Organizational Equipment (TOE) items with identifiable Line Item Numbers (LINS) that have valid unit requirements and support Army force generation requirements. These LINS include: The Shop Equipment, Small Arms Set (LIN: W51499) provides the necessary components for small arms field maintenance. Includes torque multiplier, impact wrench set, storage cabinet, hydraulic hand jack, a variety of hand and power tools, cabinets worktables, stools, etc. The Spare Part Storage Cabinet Set (LIN: T36305) toolset provides the components to accomplish direct and general support for maintenance functions on combat vehicle fire control systems. The Tool Kit, Engineer Rigging & Wire Rope Repair Tool kit (LIN: W50266) contains components required for engineer rigging activities as well as repair components needed in wire rope repairs. The ISO Shelter (LIN: S01359) is a rigid-wall shelter two-sided expansion. Power requirements are 60 amps/100 amps. The ISO provides a mobile, environmentally-controlled working/living space used by the Chemical, Biological, Radiological, Nuclear and High Yield Explosive (CBRNE) Consequence Management Reaction Force (CCMRF) and provides medical facilities; i.e. operating rooms, Dentist Office, Pharmacy. ISO shelter is also used for Command Centers, Classroom, and operator's system control station. The ISO, Non-expandable Shelter (LIN: S00860) is a rigid-wall non-expandable shelter. Power requirements are 60 amps/100 amps. The ISO provides a mobile, environmentally-controlled working/living space and supports Military Intelligence Combat Electronic Warfare Intelligence (CEWI) units. The Individual Swimmer Support Set (LIN: D49154) is comprised of multiple components that support Special Operations infiltration/exfiltration missions. The 40K Water Storage and Distribution System (LIN: W55968) consists of 1 each 350 Gallons Per Minute (GPM) Pumps; 1 each 400 GPM Hypo-chlorination Units; 3 each 20K Water Storage Tanks; 2 EA Chests Tank Storage and 2 EA Equipment Shelters. This system supports Divisions, Brigades, and Hospital Units. The Tank and Pump Unit (TPU) (LIN: V12141) is used by units to provide fuel to their vehicles and equipment. This system includes two 525 gallon (Lo-Profile) tanks, two hose reels, one electric motor driven (EMD), and 50 GPM pumping assembly. It is mounted on a 5 ton truck or Family of Medium Tactical Vehicles. The Lo-Profile 525 gallon tank has recessed top loading, lateral and longitudinal baffling and a dry break bottom loading capability. It meets all environmental and human safety concerns. The Tank Unit Liquid Dispensing (TULD) (LIN: V19950) consists of two 525 gallon tanks (Lo-Profile) and two 600 gallon tanks (Hi-Profile), tie down kit, storage boxes and ancillary equipment. It is mounted on a M106A1 trailer (not included). The TULD is used by units to provide fuel to their vehicles and equipment. The Demolition Set (LIN: F91490) provides the capability to create and remove obstructions, obstacles, and terrain features that will affect friendly and enemy movement. The set contains expendable and non-expendable, non-explosive materials necessary to support electrical and non-electrical initiated standard military explosives as well as Modernized Demolition Initiator (MDI) items. Also includes items that will allow users to assemble and transport initiation systems and charges during field operations, items that will evaluate minimum safe distance requirements, and equipment to computerize charge calculation and placement.

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	1.400	-	-	-	-	-	-	-	-



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**Exhibit P-40, Budget Line Item Justification:** PB 2017 Army **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 90: Other Support Equipment	<b>P-1 Line Item Number / Title:</b> G01001 / AMC Critical Items OPA3
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
<b>Line Item MDAP/MAIS Code:</b> N/A		

	<b>Secondary Distribution</b>	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
ANG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	4.542	-	-	-	-	-	-	-	-
AR	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	1.843	-	-	-	-	-	-	-	-
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	-	-	-	-	-	-	-	-	-
	<b>Total Obligation Authority</b>	<b>7.785</b>	-	-	-	-	-	-	-	-

**Justification:**  
No FY17 funding request.

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**Exhibit P-40, Budget Line Item Justification:** PB 2017 Army **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 90: Other Support Equipment	<b>P-1 Line Item Number / Title:</b> MA8975 / TRACTOR YARD
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	119.044	-	7.191	6.888	-	6.888	6.000	5.000	5.000	-	Continuing	Continuing
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	119.044	-	7.191	6.888	-	6.888	6.000	5.000	5.000	-	Continuing	Continuing
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>119.044</b>	<b>-</b>	<b>7.191</b>	<b>6.888</b>	<b>-</b>	<b>6.888</b>	<b>6.000</b>	<b>5.000</b>	<b>5.000</b>	<b>-</b>	<b>Continuing</b>	<b>Continuing</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost ( <i>\$ in Thousands</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Thousands</i> )	-	-	-	-	-	-	-	-	-	-	-	-

**Description:**

This program is reported in accordance with Title 10, United States Code, Section 119(a)(1) in the Special Access Program Annual Report to Congress

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	7.191	7.000	-	7.000	6.000	5.000	5.000	-
<b>Total:</b> Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	7.191	7.000	-	7.000	6.000	5.000	5.000	-

**Justification:**

This program is reported in accordance with Title 10, United States Code, Section 119(a)(1) in the Special Access Program Annual Report to Congress.

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Army • President's Budget Submission FY 2017 • Procurement

**Line Item Table of Contents (by Appropriation then Line Number)**

*Appropriation 2035A: Other Procurement, Army*

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<b>Line #</b>	<b>BA</b>	<b>BSA</b>	<b>Line Item Number</b>	<b>Line Item Title</b>	<b>Page</b>
179	04	20	BS9100	INITIAL SPARES - C&E.....	1

**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** PB 2017 Army **Date:** February 2016

**Appropriation / Budget Activity / Budget Sub Activity:** 2035A: Other Procurement, Army / BA 04: Spare and Repair Parts / BSA 20: OPA2 **P-1 Line Item Number / Title:** BS9100 / INITIAL SPARES - C&E

**ID Code** (A=Service Ready, B=Not Service Ready): **Program Elements for Code B Items:** N/A **Other Related Program Elements:** N/A

**Line Item MDAP/MAIS Code:** N/A **Item MDAP/MAIS Code(s):** N/A

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	11	12	12	-	12	90	90	-	-	Continuing	Continuing
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	395.860	34.232	48.511	27.243	-	27.243	37.769	38.661	34.747	36.440	Continuing	Continuing
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	395.860	34.232	48.511	27.243	-	27.243	37.769	38.661	34.747	36.440	Continuing	Continuing
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>395.860</b>	<b>34.232</b>	<b>48.511</b>	<b>27.243</b>	-	<b>27.243</b>	<b>37.769</b>	<b>38.661</b>	<b>34.747</b>	<b>36.440</b>	<b>Continuing</b>	<b>Continuing</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost ( <i>\$ in Thousands</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Thousands</i> )	-	3,112.000	4,042.583	2,270.250	-	2,270.250	419.656	429.567	-	-	Continuing	Continuing

**Description:**

Program provides for procurement of spares to support initial fielding of new or modified end items.

Secondary Distribution		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Army	Quantity	11	12	12	-	12	90	90	-	-
	Total Obligation Authority	34.232	48.511	27.243	-	27.243	37.769	38.661	34.747	36.440
<b>Total:</b> Secondary Distribution	Quantity	<b>11</b>	<b>12</b>	<b>12</b>	-	<b>12</b>	<b>90</b>	<b>90</b>	-	-
	Total Obligation Authority	<b>34.232</b>	<b>48.511</b>	<b>27.243</b>	-	<b>27.243</b>	<b>37.769</b>	<b>38.661</b>	<b>34.747</b>	<b>36.440</b>

**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** PB 2017 Army **Date:** February 2016

**Appropriation / Budget Activity / Budget Sub Activity:** 2035A: Other Procurement, Army / BA 04: Spare and Repair Parts / BSA 20: OPA2 **P-1 Line Item Number / Title:** BS9100 / INITIAL SPARES - C&E

**ID Code** (A=Service Ready, B=Not Service Ready): **Program Elements for Code B Items:** N/A **Other Related Program Elements:** N/A

**Line Item MDAP/MAIS Code:** N/A **Item MDAP/MAIS Code(s):** N/A

Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	BS9710 / MCS SPARES			- / 28.730	11 / 0.637	12 / 0.626	12 / 0.593	- / -	12 / 0.593
P-5	BS9716 / NON PEO-SPARES		A	- / 53.737	- / 1.721	- / 2.530	- / 2.545	- / -	- / 2.545
P-5	BS9721 / DEFENSE SATCOM SYS SPARES (SPACE)			- / 133.332	- / 5.774	- / 5.823	- / 4.297	- / -	- / 4.297
P-5	BS9741 / WIN-T INCREMENT 2 Spares			- / 180.061	- / 26.100	- / 39.532	- / 19.808	- / -	- / 19.808
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>			<b>- / 395.860</b>	<b>11 / 34.232</b>	<b>12 / 48.511</b>	<b>12 / 27.243</b>	<b>- / -</b>	<b>12 / 27.243</b>

\*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

**Justification:**  
 FY 2017 Base procurement funding in the amount of \$27.243 million procures Depot Level Repairable (DLR) secondary items from the Supply Management, Army activity of the Army Working Capital Fund. To provide initial support, funds are normally required in the same year that end items are fielded.

**UNCLASSIFIED**

**Exhibit P-5, Cost Analysis: PB 2017 Army** **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 04 / 20	<b>P-1 Line Item Number / Title:</b> BS9100 / INITIAL SPARES - C&E	<b>Item Number / Title [DODIC]:</b> BS9710 / MCS SPARES
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**ID Code** (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity <i>(Units in Each)</i>	-	11	12	12	-	12
Gross/Weapon System Cost <i>(\$ in Millions)</i>	28.730	0.637	0.626	0.593	-	0.593
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	28.730	0.637	0.626	0.593	-	0.593
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
<b>Total Obligation Authority <i>(\$ in Millions)</i></b>	<b>28.730</b>	<b>0.637</b>	<b>0.626</b>	<b>0.593</b>	<b>-</b>	<b>0.593</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Thousands)</i>	-	57.909	52.167	49.417	-	49.417

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
Work Stations	3.784	4,556	17.238	3.573	11	0.039	3.573	12	0.043	3.573	12	0.043	-	-	-	3.573	12	0.043
Other Hardware	-	-	11.490	-	-	0.598	-	-	0.584	-	-	0.551	-	-	-	-	-	0.551
<i>Subtotal: Recurring Cost</i>	-	-	28.730	-	-	0.637	-	-	0.627	-	-	0.594	-	-	-	-	-	0.594
<i>Subtotal: Hardware Cost</i>	-	-	28.730	-	-	0.637	-	-	0.627	-	-	0.594	-	-	-	-	-	0.594
<b>Gross/Weapon System Cost</b>	-	-	28.730	57.909	11	0.637	52.167	12	0.626	49.417	12	0.593	-	-	-	49.417	12	0.593

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	11	12	12	-	12
Total Obligation Authority	0.637	0.626	0.593	-	0.593
<b>Total: Secondary Distribution</b>	<b>11</b>	<b>12</b>	<b>12</b>	<b>-</b>	<b>12</b>
Total Obligation Authority	0.637	0.626	0.593	-	0.593

**UNCLASSIFIED**

**Exhibit P-5, Cost Analysis: PB 2017 Army** **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 04 / 20	<b>P-1 Line Item Number / Title:</b> BS9100 / INITIAL SPARES - C&E	<b>Item Number / Title [DODIC]:</b> BS9716 / NON PEO-SPARES
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**ID Code** (A=Service Ready, B=Not Service Ready) : A **MDAP/MAIS Code:**

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	53.737	1.721	2.530	2.545	-	2.545
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	53.737	1.721	2.530	2.545	-	2.545
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
<b>Total Obligation Authority <i>(\$ in Millions)</i></b>	<b>53.737</b>	<b>1.721</b>	<b>2.530</b>	<b>2.545</b>	<b>-</b>	<b>2.545</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Thousands)</i>	-	-	-	-	-	-

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Support - Initial Spares and Repair Parts Cost																		
Initial Spares and Repair Parts	-	-	53.737	-	-	1.721	-	-	2.530	-	-	2.545	-	-	-	-	-	2.545
<i>Subtotal: Support - Initial Spares and Repair Parts Cost</i>	-	-	<b>53.737</b>	-	-	<b>1.721</b>	-	-	<b>2.530</b>	-	-	<b>2.545</b>	-	-	-	-	-	<b>2.545</b>
<b>Gross/Weapon System Cost</b>	-	-	<b>53.737</b>	-	-	<b>1.721</b>	-	-	<b>2.530</b>	-	-	<b>2.545</b>	-	-	-	-	-	<b>2.545</b>

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army	-	-	-	-	-
Total Obligation Authority	1.721	2.530	2.545	-	2.545
<b>Total: Secondary Distribution</b>	<b>1.721</b>	<b>2.530</b>	<b>2.545</b>	<b>-</b>	<b>2.545</b>

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 04 / 20	<b>P-1 Line Item Number / Title:</b> BS9100 / INITIAL SPARES - C&E	<b>Item Number / Title [DODIC]:</b> BS9721 / DEFENSE SATCOM SYS SPARES (SPACE)

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	133.332	5.774	5.823	4.297	-	4.297
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	133.332	5.774	5.823	4.297	-	4.297
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	<b>133.332</b>	<b>5.774</b>	<b>5.823</b>	<b>4.297</b>	<b>-</b>	<b>4.297</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

<b>Cost Elements</b>	<b>Prior Years</b>			<b>FY 2015</b>			<b>FY 2016</b>			<b>FY 2017 Base</b>			<b>FY 2017 OCO</b>			<b>FY 2017 Total</b>		
	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>
Flyaway Cost																		
Recurring Cost																		
Global Satellite Configuration Control	-	-	43.791	-	-	1.682	-	-	-	-	-	-	-	-	-	-	-	-
Wideband Remote Monitoring Sensor	-	-	39.272	-	-	1.683	-	-	-	-	-	0.536	-	-	-	-	-	0.536
Modernization of Enterprise Terminals	-	-	50.269	-	-	2.409	-	-	2.887	-	-	3.170	-	-	-	-	-	3.170
Wideband Operational Mgmt System	-	-	-	-	-	-	-	-	2.936	-	-	0.591	-	-	-	-	-	0.591
<b>Subtotal: Recurring Cost</b>	-	-	<b>133.332</b>	-	-	<b>5.774</b>	-	-	<b>5.823</b>	-	-	<b>4.297</b>	-	-	-	-	-	<b>4.297</b>
<b>Subtotal: Flyaway Cost</b>	-	-	<b>133.332</b>	-	-	<b>5.774</b>	-	-	<b>5.823</b>	-	-	<b>4.297</b>	-	-	-	-	-	<b>4.297</b>
<b>Gross/Weapon System Cost</b>	-	-	<b>133.332</b>	-	-	<b>5.774</b>	-	-	<b>5.823</b>	-	-	<b>4.297</b>	-	-	-	-	-	<b>4.297</b>

<b>Secondary Distribution</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>
Army					
Quantity	-	-	-	-	-
Total Obligation Authority	5.774	5.823	4.297	-	4.297
<b>Total: Secondary Distribution</b>					
Quantity	-	-	-	-	-
Total Obligation Authority	5.774	5.823	4.297	-	4.297



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<b>Exhibit P-5, Cost Analysis: PB 2017 Army</b>		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 2035A / 04 / 20	<b>P-1 Line Item Number / Title:</b> BS9100 / INITIAL SPARES - C&E	<b>Item Number / Title [DODIC]:</b> BS9741 / WIN-T INCREMENT 2 Spares

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	180.061	26.100	39.532	19.808	-	19.808
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	180.061	26.100	39.532	19.808	-	19.808
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
<b>Total Obligation Authority</b> <i>(\$ in Millions)</i>	<b>180.061</b>	<b>26.100</b>	<b>39.532</b>	<b>19.808</b>	-	<b>19.808</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Thousands)</i>	-	-	-	-	-	-

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
Initial Spares Packages	180,061.000	1	180.061	-	-	26.100	-	-	39.532	-	-	19.808	-	-	-	-	-	19.808
<i>Subtotal: Recurring Cost</i>	-	-	180.061	-	-	26.100	-	-	39.532	-	-	19.808	-	-	-	-	-	19.808
<i>Subtotal: Flyaway Cost</i>	-	-	180.061	-	-	26.100	-	-	39.532	-	-	19.808	-	-	-	-	-	19.808
<b>Gross/Weapon System Cost</b>	-	-	180.061	-	-	26.100	-	-	39.532	-	-	19.808	-	-	-	-	-	19.808

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Army					
Quantity	-	-	-	-	-
Total Obligation Authority	26.100	39.532	19.808	-	19.808
<b>Total: Secondary Distribution</b>					
Quantity	-	-	-	-	-
Total Obligation Authority	26.100	39.532	19.808	-	19.808