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**Department of Defense
Fiscal Year (FY) 2017 Request for Additional Appropriations**

March 2017



Army

Justification Book of
Aircraft Procurement, Army

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AIRCRAFT PROCUREMENT, ARMY

Appropriation Language

For construction, procurement, and modification of aircraft and equipment, including armor and armament, specialized ground handling equipment, and training devices, spare parts, and accessories therefore; specialized equipment; expansion of public and private plants, Government-owned equipment and installation thereof in such plants, erection of structures, and acquisition of land, for the foregoing purposes, and such lands and interests therein, may be acquired, and construction prosecuted thereon prior to approval of title; reserve plant and Government and contractor-owned equipment layaway; and other expenses necessary for the foregoing purposes including rents and transportation of things, \$3,927,958,000 Base and \$1,648,743,000 OCO to remain available for obligations until September 30, 2019.

COST STATEMENT

The following Justification Books were prepared at a cost of \$69,900: Aircraft (ACFT), Missile (MSLS), Weapons & Tracked Combat Vehicles (WTCV), Ammunition (AMMO), 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 3, Budget Activity 4, Budget Activity 5A, Budget Activity 5B, Budget Activity 6, and Budget Activity 7.

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Department of the Army

March Budget Amendment to the FY 2017 President's Budget Request for BASE + Overseas Contingency Operations (OCO)

Exhibit P-1 March Budget Amendment to the FY 2017 President's Budget Request for BASE + Overseas Contingency Operations (OCO)

Total Obligational Authority

15 Mar 2017

(Dollars in Thousands)

Appropriation	FY 2017 PB Request Base	FY 2017 Mar Amended Request Base	FY 2017 Revised PB Request Base
Aircraft Procurement, Army	3,614,787	1,625,743	5,240,530
Total Department of the Army	3,614,787	1,625,743	5,240,530

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 Exhibit P-1 March Budget Amendment to the FY 2017 President's Budget Request for BASE + Overseas Contingency Operations (OCO)
 Total Obligational Authority
 (Dollars in Thousands) 15 Mar 2017

Appropriation	FY 2017 PB Request OCO	FY 2017 Nov Amended Request OCO	FY 2017 Mar Amended Request OCO	FY 2017 Total OCO Request
Aircraft Procurement, Army	313,171		23,000	336,171
Total Department of the Army	313,171		23,000	336,171

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Department of the Army

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Exhibit P-1 March Budget Amendment to the FY 2017 President's Budget Request for BASE + Overseas Contingency Operations (OCO)
Total Obligational Authority
(Dollars in Thousands)

15 Mar 2017

Appropriation	FY 2017 Less Enacted Div. B, P.L. 114-254 OCO	FY 2017 Remaining PB Request OCO
Aircraft Procurement, Army		336,171
Total Department of the Army		336,171

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Department of the Army

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Exhibit P-1 March Budget Amendment to the FY 2017 President's Budget Request for BASE + Overseas Contingency Operations (OCO)

Total Obligational Authority

15 Mar 2017

(Dollars in Thousands)

Appropriation	FY 2017 PB Request wNov Amend Less Enacted PL 114-254 Base+OCO	FY 2017 Mar Amended Request Base+OCO	FY 2017 PB Remaining Base+OCO
Aircraft Procurement, Army	3,927,958	1,648,743	5,576,701
Total Department of the Army	3,927,958	1,648,743	5,576,701

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March Budget Amendment to the FY 2017 President's Budget Request for BASE + Overseas Contingency Operations (OCO)

Exhibit P-1 March Budget Amendment to the FY 2017 President's Budget Request for BASE + Overseas Contingency Operations (OCO)

Total Obligational Authority

15 Mar 2017

(Dollars in Thousands)

Appropriation: Aircraft Procurement, Army

Budget Activity	FY 2017 PB Request Base	FY 2017 Mar Amended Request Base	FY 2017 Revised PB Request Base
01. Aircraft	2,641,551	1,213,960	3,855,511
02. Modification of Aircraft	714,453	408,171	1,122,624
04. Support Equipment and Facilities	258,783	3,612	262,395
Total Aircraft Procurement, Army	3,614,787	1,625,743	5,240,530

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 Total Obligational Authority
 (Dollars in Thousands)

15 Mar 2017

Appropriation: Aircraft Procurement, Army

Budget Activity	FY 2017 PB Request OCO	FY 2017 Nov Amended Request OCO	FY 2017 Mar Amended Request OCO	FY 2017 Total OCO Request
-----	-----	-----	-----	-----
01. Aircraft	78,040		23,000	101,040
02. Modification of Aircraft	70,295			70,295
04. Support Equipment and Facilities	164,836			164,836
Total Aircraft Procurement, Army	313,171		23,000	336,171

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Total Obligational Authority

15 Mar 2017

(Dollars in Thousands)

Appropriation: Aircraft Procurement, Army

Budget Activity	FY 2017 Less Enacted Div.B,P.L. 114-254 OCO	FY 2017 Remaining PB Request OCO
01. Aircraft		101,040
02. Modification of Aircraft		70,295
04. Support Equipment and Facilities		164,836
Total Aircraft Procurement, Army		336,171

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Department of the Army

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 Total Obligational Authority
 (Dollars in Thousands)

15 Mar 2017

Appropriation: Aircraft Procurement, Army

Budget Activity	FY 2017 PB Request wNov Amend Less Enacted PL 114-254 Base+OCO	FY 2017 Mar Amended Request Base+OCO	FY 2017 PB Remaining Base+OCO
01. Aircraft	2,719,591	1,236,960	3,956,551
02. Modification of Aircraft	784,748	408,171	1,192,919
04. Support Equipment and Facilities	423,619	3,612	427,231
Total Aircraft Procurement, Army	3,927,958	1,648,743	5,576,701

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 Total Obligational Authority
 (Dollars in Thousands) 15 Mar 2017

Appropriation: 2031A Aircraft Procurement, Army

Line No	Item Nomenclature	Ident Code	FY 2017 PB Request Base		FY 2017 Mar Amended Request Base		FY 2017 Revised PB Request Base		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	
Budget Activity 01: Aircraft									
Fixed Wing									
1	Saturn Arch (MIP)	A							U
2	Utility F/W Aircraft		3	57,529			3	57,529	U
3	MQ-1 UAV	A		55,388	13	130,000	13	185,388	U
Rotary									
4	AH-64 Apache Block IIIA Reman Less: Advance Procurement (PY)	A	48	(1,013,014) (-209,930)			48	(1,013,014) (-209,930)	U
				803,084				803,084	
5	AH-64 Apache Block IIIA Reman Advance Procurement (CY) C (FY 2017 for FY 2018) (M)			185,160 (185,160)				185,160 (185,160)	U
6	AH-64 Apache Block IIIB New Build	A			20	707,800	20	707,800	U
7	UH-60 Blackhawk M Model (MYP) Less: Advance Procurement (PY)		36	(882,225) (-127,079)	17	(376,160)	53	(1,258,385) (-127,079)	U
				755,146		376,160		1,131,306	
8	UH-60 Blackhawk M Model (MYP) Advance Procurement (CY) C (FY 2017 for FY 2018) (M) C (FY 2017 for FY 2019) (M) C (FY 2017 for FY 2020) (M) C (FY 2017 for FY 2021) (M)			174,107 (171,847) (1,823) (286) (151)				174,107 (171,847) (1,823) (286) (151)	U
9	UH-60 Black Hawk A and L Models	A	38	46,173			38	46,173	U

P-1AMF: Budget Amendment to the FY 2017 President's Budget Request (Published Version), as of March 15, 2017 at 13:03:16

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 Total Obligational Authority
 (Dollars in Thousands) 15 Mar 2017

Appropriation: 2031A Aircraft Procurement, Army

Line No	Item Nomenclature	Ident Code	FY 2017 PB Request OCO Quantity	Cost	FY 2017 Nov Amended Request OCO Quantity	Cost	FY 2017 Mar Amended Request OCO Quantity	Cost	FY 2017 Total OCO Request Quantity	Cost	S e c
Budget Activity 01: Aircraft											
Fixed Wing											
1	Saturn Arch (MIP)	A					2	23,000	2	23,000	U
2	Utility F/W Aircraft										U
3	MQ-1 UAV	A									U
Rotary											
4	AH-64 Apache Block IIIA Reman Less: Advance Procurement (PY)	A	4	(78,040)					4	(78,040)	U
				78,040						78,040	U
5	AH-64 Apache Block IIIA Reman Advance Procurement (CY) C (FY 2017 for FY 2018) (M)										U
6	AH-64 Apache Block IIIB New Build	A									U
7	UH-60 Blackhawk M Model (MYP) Less: Advance Procurement (PY)										U
8	UH-60 Blackhawk M Model (MYP) Advance Procurement (CY) C (FY 2017 for FY 2018) (M) C (FY 2017 for FY 2019) (M) C (FY 2017 for FY 2020) (M) C (FY 2017 for FY 2021) (M)										U
9	UH-60 Black Hawk A and L Models	A									U

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 (Dollars in Thousands) 15 Mar 2017

Appropriation: 2031A Aircraft Procurement, Army

Line No	Item Nomenclature	Ident Code	FY 2017 Less Enacted Div.B,P.L. 114-254 OCO		FY 2017 Remaining PB Request OCO		S e c
			Quantity	Cost	Quantity	Cost	
Budget Activity 01: Aircraft							
Fixed Wing							
1	Saturn Arch (MIP)	A			2	23,000	U
2	Utility F/W Aircraft						U
3	MQ-1 UAV	A					U
Rotary							
4	AH-64 Apache Block IIIA Reman Less: Advance Procurement (PY)	A			4	(78,040)	U
						78,040	U
5	AH-64 Apache Block IIIA Reman Advance Procurement (CY) C (FY 2017 for FY 2018) (M)						U
6	AH-64 Apache Block IIIB New Build	A					U
7	UH-60 Blackhawk M Model (MYP) Less: Advance Procurement (PY)						U
8	UH-60 Blackhawk M Model (MYP) Advance Procurement (CY) C (FY 2017 for FY 2018) (M) C (FY 2017 for FY 2019) (M) C (FY 2017 for FY 2020) (M) C (FY 2017 for FY 2021) (M)						U
9	UH-60 Black Hawk A and L Models	A					U

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Appropriation: 2031A Aircraft Procurement, Army

Line No	Item Nomenclature	Ident Code	FY 2017 PB Request wNov Amend Less Enacted PL 114-254 Base+OCO		FY 2017 Mar Amended Request Base+OCO		FY 2017 PB Remaining Base+OCO		S e c	
			Quantity	Cost	Quantity	Cost	Quantity	Cost		
Budget Activity 01: Aircraft										
Fixed Wing										
1	Saturn Arch (MIP)	A			2	23,000	2	23,000	U	
2	Utility F/W Aircraft		3	57,529			3	57,529	U	
3	MQ-1 UAV	A		55,388	13	130,000	13	185,388	U	
Rotary										
4	AH-64 Apache Block IIIA Reman Less: Advance Procurement (PY)	A	52	(1,091,054) (-209,930)			52	(1,091,054) (-209,930)	U	
				881,124				881,124		
5	AH-64 Apache Block IIIA Reman Advance Procurement (CY) C (FY 2017 for FY 2018) (M)			185,160 (185,160)				185,160 (185,160)	U	
6	AH-64 Apache Block IIIB New Build	A			20	707,800	20	707,800	U	
7	UH-60 Blackhawk M Model (MYP) Less: Advance Procurement (PY)		36	(882,225) (-127,079)	17	(376,160)	53	(1,258,385) (-127,079)	U	
				755,146		376,160		1,131,306		
8	UH-60 Blackhawk M Model (MYP) Advance Procurement (CY) C (FY 2017 for FY 2018) (M) C (FY 2017 for FY 2019) (M) C (FY 2017 for FY 2020) (M) C (FY 2017 for FY 2021) (M)			174,107 (171,847) (1,823) (286) (151)				174,107 (171,847) (1,823) (286) (151)	U	
9	UH-60 Black Hawk A and L Models	A	38	46,173			38	46,173	U	

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 (Dollars in Thousands) 15 Mar 2017

Appropriation: 2031A Aircraft Procurement, Army

Line No	Item Nomenclature	Ident Code	FY 2017 PB Request Base		FY 2017 Mar Amended Request Base		FY 2017 Revised PB Request Base		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	
10	CH-47 Helicopter	A	22	(655,601)			22	(655,601)	U
	Less: Advance Procurement (PY)			(-99,344)				(-99,344)	U
				556,257				556,257	
11	CH-47 Helicopter			8,707				8,707	U
	Advance Procurement (CY)			(8,707)				(8,707)	
	C (FY 2017 for FY 2018) (M)								
Total Aircraft				2,641,551		1,213,960		3,855,511	
Budget Activity 02: Modification of Aircraft									
Modification of Aircraft									
12	MQ-1 Payload (MIP)	A		43,735		48,000		91,735	U
13	Multi Sensor ABN Recon (MIP)			94,527				94,527	U
14	AH-64 Mods	A		137,883		50,000		187,883	U
15	CH-47 Cargo Helicopter Mods (MYP)			102,943		61,000		163,943	U
16	GRCS SEMA Mods (MIP)	A		4,055				4,055	U
17	ARL SEMA Mods (MIP)	A		6,793				6,793	U
18	EMARSS SEMA Mods (MIP)	A		13,197				13,197	U
19	Utility/Cargo Airplane Mods			17,526				17,526	U
20	Utility Helicopter Mods			10,807				10,807	U
21	Network and Mission Plan	A		74,752				74,752	U
22	Comms, Nav Surveillance	A		69,960				69,960	U

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 Total Obligational Authority
 (Dollars in Thousands) 15 Mar 2017

Appropriation: 2031A Aircraft Procurement, Army

Line No	Item Nomenclature	Ident Code	FY 2017 PB Request OCO Quantity	Cost	FY 2017 Nov Amended Request OCO Quantity	Cost	FY 2017 Mar Amended Request OCO Quantity	Cost	FY 2017 Total OCO Request Quantity	Cost	S e c
10	CH-47 Helicopter	A									U
	Less: Advance Procurement (PY)										U
11	CH-47 Helicopter										U
	Advance Procurement (CY)										
	C (FY 2017 for FY 2018) (M)										
Total Aircraft				78,040			23,000		101,040		
Budget Activity 02: Modification of Aircraft											
Modification of Aircraft											
12	MQ-1 Payload (MIP)	A									U
13	Multi Sensor ABN Recon (MIP)			21,400					21,400		U
14	AH-64 Mods	A									U
15	CH-47 Cargo Helicopter Mods (MYP)										U
16	GRCS SEMA Mods (MIP)	A									U
17	ARL SEMA Mods (MIP)	A									U
18	EMARSS SEMA Mods (MIP)	A	2	42,700					2	42,700	U
19	Utility/Cargo Airplane Mods										U
20	Utility Helicopter Mods										U
21	Network and Mission Plan	A									U
22	Comms, Nav Surveillance	A									U

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 Total Obligational Authority
 (Dollars in Thousands) 15 Mar 2017

Appropriation: 2031A Aircraft Procurement, Army

Line No	Item Nomenclature	Ident Code	FY 2017 Less Enacted Div.B,P.L. 114-254 OCO		FY 2017 Remaining PB Request OCO		S e c
			Quantity	Cost	Quantity	Cost	
10	CH-47 Helicopter	A					U
	Less: Advance Procurement (PY)						U
11	CH-47 Helicopter						
	Advance Procurement (CY)						U
	C (FY 2017 for FY 2018) (M)						
Total Aircraft						101,040	
Budget Activity 02: Modification of Aircraft							
Modification of Aircraft							
12	MQ-1 Payload (MIP)	A					U
13	Multi Sensor ABN Recon (MIP)				21,400		U
14	AH-64 Mods	A					U
15	CH-47 Cargo Helicopter Mods (MYP)						U
16	GRCS SEMA Mods (MIP)	A					U
17	ARL SEMA Mods (MIP)	A					U
18	EMARSS SEMA Mods (MIP)	A			2	42,700	U
19	Utility/Cargo Airplane Mods						U
20	Utility Helicopter Mods						U
21	Network and Mission Plan	A					U
22	Comms, Nav Surveillance	A					U

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 (Dollars in Thousands) 15 Mar 2017

Appropriation: 2031A Aircraft Procurement, Army

Line No	Item Nomenclature	Ident Code	FY 2017 PB Request wNov Amend Less Enacted PL 114-254 Base+OCO		FY 2017 Mar Amended Request Base+OCO		FY 2017 PB Remaining Base+OCO		S e c	
			Quantity	Cost	Quantity	Cost	Quantity	Cost		
10	CH-47 Helicopter	A	22	(655,601)			22	(655,601)	U	
	Less: Advance Procurement (PY)			(-99,344)				(-99,344)	U	
				556,257				556,257		
11	CH-47 Helicopter									
	Advance Procurement (CY)			8,707				8,707	U	
	C (FY 2017 for FY 2018) (M)			(8,707)				(8,707)		
	Total Aircraft			2,719,591		1,236,960		3,956,551		
Budget Activity 02: Modification of Aircraft										
Modification of Aircraft										
12	MQ-1 Payload (MIP)	A		43,735		48,000		91,735	U	
13	Multi Sensor ABN Recon (MIP)			115,927				115,927	U	
14	AH-64 Mods	A		137,883		50,000		187,883	U	
15	CH-47 Cargo Helicopter Mods (MYP)			102,943		61,000		163,943	U	
16	GRCS SEMA Mods (MIP)	A		4,055				4,055	U	
17	ARL SEMA Mods (MIP)	A		6,793				6,793	U	
18	EMARSS SEMA Mods (MIP)	A	2	55,897			2	55,897	U	
19	Utility/Cargo Airplane Mods			17,526				17,526	U	
20	Utility Helicopter Mods			10,807				10,807	U	
21	Network and Mission Plan	A		74,752				74,752	U	
22	Comms, Nav Surveillance	A		69,960				69,960	U	

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Appropriation: 2031A Aircraft Procurement, Army

Line No	Item Nomenclature	Ident Code	FY 2017 PB Request Base Quantity Cost	FY 2017 Mar Amended Request Base Quantity Cost	FY 2017 Revised PB Request Base Quantity Cost	S e c
23	GATM Rollup	A	45,302		45,302	U
24	RQ-7 UAV MODS	A	71,169	247,651	318,820	U
25	UAS MODS	A	21,804	1,520	23,324	U
Total Modification of Aircraft			714,453	408,171	1,122,624	
Budget Activity 04: Support Equipment and Facilities						
Ground Support Avionics						
26	Aircraft Survivability Equipment		67,377		67,377	U
27	Survivability CM		9,565		9,565	U
28	CMWS	A	41,626		41,626	U
29	Common Infrared Countermeasures (CIRCM)	A				U
Other Support						
30	Avionics Support Equipment		7,007		7,007	U
31	Common Ground Equipment		48,234		48,234	U
32	Aircrew Integrated Systems		30,297		30,297	U
33	Air Traffic Control		50,405	3,000	53,405	U
34	Industrial Facilities		1,217	612	1,829	U
35	Launcher, 2.75 Rocket		3,055		3,055	U
Total Support Equipment and Facilities			258,783	3,612	262,395	
Total Aircraft Procurement, Army			3,614,787	1,625,743	5,240,530	

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Appropriation: 2031A Aircraft Procurement, Army

Line No	Item Nomenclature	Ident Code	FY 2017 PB Request OCO		FY 2017 Nov Amended Request OCO		FY 2017 Mar Amended Request OCO		FY 2017 Total OCO Request		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
23	GATM Rollup	A									U
24	RQ-7 UAV MODS	A		1,775						1,775	U
25	UAS MODS	A		4,420						4,420	U
Total Modification of Aircraft				70,295						70,295	
Budget Activity 04: Support Equipment and Facilities											
Ground Support Avionics											
26	Aircraft Survivability Equipment										U
27	Survivability CM										U
28	CMWS	A		56,115						56,115	U
29	Common Infrared Countermeasures (CIRCM)	A		108,721						108,721	U
Other Support											
30	Avionics Support Equipment										U
31	Common Ground Equipment										U
32	Aircrew Integrated Systems										U
33	Air Traffic Control										U
34	Industrial Facilities										U
35	Launcher, 2.75 Rocket										U
Total Support Equipment and Facilities				164,836						164,836	
Total Aircraft Procurement, Army				313,171				23,000		336,171	

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 Total Obligational Authority
 (Dollars in Thousands)

15 Mar 2017

Appropriation: 2031A Aircraft Procurement, Army

Line No	Item Nomenclature	Ident Code	FY 2017 Less Enacted Div.B,P.L. 114-254 OCO		FY 2017 Remaining PB Request OCO		S e c
			Quantity	Cost	Quantity	Cost	
23	GATM Rollup	A					U
24	RQ-7 UAV MODS	A			1,775		U
25	UAS MODS	A			4,420		U
Total Modification of Aircraft						70,295	
<u>Budget Activity 04: Support Equipment and Facilities</u>							
Ground Support Avionics							
26	Aircraft Survivability Equipment						U
27	Survivability CM						U
28	CMWS	A			56,115		U
29	Common Infrared Countermeasures (CIRCM)	A			108,721		U
Other Support							
30	Avionics Support Equipment						U
31	Common Ground Equipment						U
32	Aircrew Integrated Systems						U
33	Air Traffic Control						U
34	Industrial Facilities						U
35	Launcher, 2.75 Rocket						U
Total Support Equipment and Facilities						164,836	
Total Aircraft Procurement, Army						336,171	

P-1AMF: Budget Amendment to the FY 2017 President's Budget Request (Published Version), as of March 15, 2017 at 13:03:16

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Department of the Army
 March Budget Amendment to the FY 2017 President's Budget Request for BASE + Overseas Contingency Operations (OCO)
 Exhibit P-1 March Budget Amendment to the FY 2017 President's Budget Request for BASE + Overseas Contingency Operations (OCO)
 Total Obligational Authority
 (Dollars in Thousands)

15 Mar 2017

Appropriation: 2031A Aircraft Procurement, Army

Line No	Item Nomenclature	Ident Code	FY 2017 PB Request wNov Amend Less Enacted PL 114-254 Base+OCO Quantity	Cost	FY 2017 Mar Amended Request Base+OCO Quantity	Cost	FY 2017 PB Remaining Base+OCO Quantity	Cost	S e c
23	GATM Rollup	A		45,302			45,302		U
24	RQ-7 UAV MODS	A		72,944		247,651	320,595		U
25	UAS MODS	A		26,224		1,520	27,744		U
Total Modification of Aircraft				784,748		408,171	1,192,919		
Budget Activity 04: Support Equipment and Facilities									
Ground Support Avionics									
26	Aircraft Survivability Equipment			67,377			67,377		U
27	Survivability CM			9,565			9,565		U
28	CMWS	A		97,741			97,741		U
29	Common Infrared Countermeasures (CIRCM)	A		108,721			108,721		U
Other Support									
30	Avionics Support Equipment			7,007			7,007		U
31	Common Ground Equipment			48,234			48,234		U
32	Aircrew Integrated Systems			30,297			30,297		U
33	Air Traffic Control			50,405		3,000	53,405		U
34	Industrial Facilities			1,217		612	1,829		U
35	Launcher, 2.75 Rocket			3,055			3,055		U
Total Support Equipment and Facilities				423,619		3,612	427,231		
Total Aircraft Procurement, Army				3,927,958		1,648,743	5,576,701		

P-1AMF: Budget Amendment to the FY 2017 President's Budget Request (Published Version), as of March 15, 2017 at 13:03:16

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Army • Request for Additional Appropriations FY 2017 • Procurement

Table of Contents

Line Item Table of Contents (by Appropriation then Line Number)..... ii

Line Item Table of Contents (Alphabetically by Line Item Title)..... iv

Exhibit P-40s..... 1

UNCLASSIFIED

Army • Request for Additional Appropriations FY 2017 • Procurement

Line Item Table of Contents (by Appropriation then Line Number)

Appropriation 2031A: Aircraft Procurement, Army

Line #	BA	BSA	Line Item Number	Line Item Title	Page
1	01	10	A11301	SATURN ARCH (MIP).....	1
3	01	10	A00005	MQ-1 UAV.....	2
8	01	20	AA0005	UH-60 Blackhawk M Model (MYP).....	4
9	01	20	A05133	AH-64 Apache Block IIIB New Build.....	6

Appropriation 2031A: Aircraft Procurement, Army

Line #	BA	BSA	Line Item Number	Line Item Title	Page
13	02	10	A01001	MQ-1 Payload (MIP).....	7
16	02	10	AA6605	AH-64 MODS.....	9
17	02	10	AA0252	CH-47 Cargo Helicopter Mods (MYP).....	11
26	02	10	A00018	RQ-7 UAV MODS.....	14
27	02	10	A01002	UAS MODS.....	16

UNCLASSIFIED

UNCLASSIFIED

Army • Request for Additional Appropriations FY 2017 • Procurement

Appropriation 2031A: Aircraft Procurement, Army

Line #	BA	BSA	Line Item Number	Line Item Title	Page
35	04	30	AA0050	Air Traffic Control.....	18
36	04	30	AZ3300	Industrial Facilities.....	20

UNCLASSIFIED

Army • Request for Additional Appropriations FY 2017 • Procurement

Line Item Table of Contents (Alphabetically by Line Item Title)

Line Item Title	Line Item Number	Line #	BA	BSA	Page
AH-64 Apache Block IIIB New Build	A05133	9	01	20.....	6
AH-64 MODS	AA6605	16	02	10.....	9
Air Traffic Control	AA0050	35	04	30.....	18
CH-47 Cargo Helicopter Mods (MYP)	AA0252	17	02	10.....	11
Industrial Facilities	AZ3300	36	04	30.....	20
MQ-1 Payload (MIP)	A01001	13	02	10.....	7
MQ-1 UAV	A00005	3	01	10.....	2
RQ-7 UAV MODS	A00018	26	02	10.....	14
SATURN ARCH (MIP)	A11301	1	01	10.....	1
UAS MODS	A01002	27	02	10.....	16
UH-60 Blackhawk M Model (MYP)	AA0005	8	01	20.....	4

UNCLASSIFIED

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: Request for Additional Appropriations 2017 Army										Date: March 2017		
Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 10: Fixed Wing							P-1 Line Item Number / Title: A11301 / SATURN ARCH (MIP)					
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												
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>	-	-	-	-	23.000	23.000	-	-	-	-	-	23.000
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	-	-	-	-	23.000	23.000	-	-	-	-	-	23.000
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	-	-	-	-	23.000	23.000	-	-	-	-	-	23.000
<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>	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost <i>(\$ in Thousands)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Thousands)</i>	-	-	-	-	-	-	-	-	-	-	-	-
<p>Description:</p> <p>The Saturn Arch and Desert Owl aircraft are Airborne Intelligence, Surveillance and Reconnaissance (AISR) aircraft that support a suite of imaging sensors designed to provide persistent surveillance to accomplish day and night image collection and exploitation of Improvised Explosive Devices (IEDs) in designated Named Areas of Interest (NAIs).</p> <p>The Saturn Arch and Desert Owl systems are under the operational control of the Task Force Observe, Detect, Identify, and Neutralize (TF ODIN), Afghanistan.</p> <p>Justification:</p> <p>No FY16 Funds requested.</p> <p>Amendment Justification: This increase requests an additional \$23.000M above the PB 2017 Request to procure one aircraft. This accelerates fielding a Saturn Arch Quick Reaction Aircraft to support JUONS CC-0541.</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-40, Budget Line Item Justification: Request for Additional Appropriations 2017 Army	Date: March 2017
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Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 10: Fixed Wing	P-1 Line Item Number / Title: A00005 / MQ-1 UAV
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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: 0305204A, 0305219A
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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>)	122	19	17	13	-	13	-	-	-	-	-	171
Gross/Weapon System Cost (<i>\$ in Millions</i>)	2,323.704	238.081	286.973	185.388	-	185.388	10.806	-	-	-	-	3,044.952
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	2,323.704	238.081	286.973	185.388	-	185.388	10.806	-	-	-	-	3,044.952
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	2,323.704	238.081	286.973	185.388	-	185.388	10.806	-	-	-	-	3,044.952
<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>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	19,046.754	12,530.579	16,880.765	14,260.615	-	14,260.615	-	-	-	-	-	17,806.737

Description:

The MQ-1C Gray Eagle provides reconnaissance, surveillance, intelligence, security, attack, and command and control missions providing dedicated mission configured Unmanned Aircraft System (UAS) support to assigned and other Army/Joint Force units based upon commander's priorities. The MQ-1C Gray Eagle is a dedicated, multi-mission UAS fielded to the 10 Army Combat Aviation Brigades (CAB), 3 Army Intelligence and Security Command (INSCOM) units, 1 Army Special Operations Forces (ARSOF) unit, and 1 company at the National Training Center (NTC). The Army Acquisition Objective (AAO) is 167 aircraft.

An MQ-1C Gray Eagle Company consists of either 9 or 12 Aircraft, Universal Ground Control Station (UGCS) equipment, Universal Ground Data Terminals, Satellite Ground Data Terminals (SGDT), Automatic Take-Off & Landing System (ATLS), standard equipment package, and payloads to include; Electro-Optical/Infrared Laser Range Finder/Laser Designator (EO/IR/LD HD), Synthetic Aperture Radar/Ground Moving Target Indicator (SAR/GMTI), communication relay, and up to 4 HELLFIRE missiles.

Beginning in FY 2015, the remaining 36 aircraft to be procured (17 aircraft in FY 2015 and 19 aircraft in FY 2017) will be delivered in the Improved Gray Eagle extended range configuration to support Echelons Above Division and meet Army Global Force Management Allocation Plan (GFMAP) requirements. This configuration change is in compliance with the \$49 million Congressional add in FY 2015 and the \$17 million Congressional add in FY 2016.

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	19	17	-	-	-	-	-	-	-
	Total Obligation Authority	238.081	286.973	55.388	-	55.388	10.806	-	-	-
Total: Secondary Distribution	Quantity	19	17	-	-	-	-	-	-	-
	Total Obligation Authority	238.081	286.973	55.388	-	55.388	10.806	-	-	-

Justification:

The FY 2017 MQ-1C Gray Eagle funding of \$55.388 million provides fielding and New Equipment Training (NET) for two units, Interim Contractor Logistics Support (ICLS), software modifications/updates, and engineering support.

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Exhibit P-40, Budget Line Item Justification: Request for Additional Appropriations 2017 Army		Date: March 2017
Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 10: Fixed Wing		P-1 Line Item Number / Title: A00005 / MQ-1 UAV
ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: 0305204A, 0305219A
Line Item MDAP/MAIS Code: N/A		
<p>Amendment Justification: This increase requests an additional \$130.000M to procure 13 UAVs above the PB 2017 Request. These unmanned vehicles will fill shortages in existing unit authorizations.</p> <p>In accordance with 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-40, Budget Line Item Justification: Request for Additional Appropriations 2017 Army	Date: March 2017
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Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 20: Rotary	P-1 Line Item Number / Title: AA0005 / UH-60 Blackhawk M Model (MYP)
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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

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>)	679	87	107	53	-	53	60	69	38	65	Continuing	Continuing
Gross/Weapon System Cost (<i>\$ in Millions</i>)	11,784.291	1,471.122	1,697.130	1,258.385	-	1,258.385	1,156.613	1,280.570	955.037	1,243.770	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	1,040.640	119.545	122.385	127.079	-	127.079	171.847	139.872	87.137	150.273	Continuing	Continuing
Net Procurement (P-1) (<i>\$ in Millions</i>)	10,743.651	1,351.577	1,574.745	1,131.306	-	1,131.306	984.766	1,140.698	867.900	1,093.497	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	1,149.415	117.138	127.079	174.107	-	174.107	144.953	85.683	144.386	141.725	Continuing	Continuing
Total Obligation Authority (<i>\$ in Millions</i>)	11,893.066	1,468.715	1,701.824	1,305.413	-	1,305.413	1,129.719	1,226.381	1,012.286	1,235.222	Continuing	Continuing
(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>)	17,355.362	16,909.448	15,861.028	23,743.113	-	23,743.113	19,276.883	18,558.986	25,132.553	19,134.923	Continuing	Continuing

Description:

The UH-60M Black Hawk Helicopter serves as the Army's utility helicopter for the current and future force and is in line with the Army's Modernization Strategy, the National Military Strategy, and the National Defense Strategy. The UH-60M Black Hawk is a digital networked platform with greater range and lift to support maneuver Commanders through air assault, general support command and control, and aeromedical evacuation. Full rate production for this new build helicopter began in 2007. The UH-60M Black Hawk, with the integrated Medical Evacuation (MEDEVAC) Mission Equipment Package (MEP) kit, provides day/night and adverse weather emergency evacuation of casualties. The integration of the MEDEVAC MEP into the UH-60M changes the nomenclature to HH-60M.

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	82	25	-	25	32	55	-	24
	Total Obligation Authority	835.705	1,303.574	661.403	-	661.403	695.905	954.809	-	372.334
ANG	Quantity	31	25	11	-	11	28	14	38	41
	Total Obligation Authority	524.800	398.250	267.850	-	267.850	433.814	271.572	1,012.286	862.888
AR	Quantity	6	-	-	-	-	-	-	-	-
	Total Obligation Authority	108.210	-	-	-	-	-	-	-	-
Total: Secondary Distribution	Quantity	87	107	36	-	36	60	69	38	65
	Total Obligation Authority	1,468.715	1,701.824	929.253	-	929.253	1,129.719	1,226.381	1,012.286	1,235.222

Justification:

FY 2017 Base procurement dollars in the amount of \$929.253 million supports procurement of 36 aircraft.

Note: The multi-year 8 contract versus 5 single year contracts yields a 10.9% cost avoidance (\$557.418 million) for FY 2012 through FY 2016. The multi-year 9 contract versus 5 single year contracts for FY 2017 through FY 2021 is projected to yield over 10% cost avoidance.

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Exhibit P-40, Budget Line Item Justification: Request for Additional Appropriations 2017 Army		Date: March 2017
Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 20: Rotary		P-1 Line Item Number / Title: AA0005 / UH-60 Blackhawk M Model (MYP)
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		
<p>Amendment Justification: This increase requests an additional \$376.160M to procure 17 aircraft and 50 A-PNT Kits above the PB 2017 Request. These aircraft will fill shortages in existing unit authorizations</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> <p>In FY15 two additional aircraft were procured as a result of the Black Hawk Exchange and Sales Team (BEST) program which avoids demilitarization and divestment cost and applies proceeds from the divestiture of non-excess obsolete H-60 aircraft towards the procurement of replacement H-60M aircraft in accordance with 40 U.S.C. 503 and AR725-1 as approved by the Army Acquisition Executive (AAE).</p> <p>"The FY2017 funding request was reduced \$12,000 million to account for the availability of prior year execution balances".</p>		

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Exhibit P-40, Budget Line Item Justification: Request for Additional Appropriations 2017 Army	Date: March 2017
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Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 20: Rotary	P-1 Line Item Number / Title: A05133 / AH-64 Apache Block IIIB New Build
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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

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 (Units in Each)	17	-	-	20	-	20	-	-	-	-	Continuing	Continuing
Gross/Weapon System Cost (\$ in Millions)	538.785	-	-	707.800	-	707.800	-	-	-	-	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	71.585	-	-	-	-	-	-	-	-	-	Continuing	Continuing
Net Procurement (P-1) (\$ in Millions)	467.200	-	-	707.800	-	707.800	-	-	-	-	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	467.200	-	-	707.800	-	707.800	-	-	-	-	Continuing	Continuing
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	31,693.235	-	-	35,390.000	-	35,390.000	-	-	-	-	Continuing	Continuing

Description:

The AH-64E Apache New Build aircraft is the same configuration as the AH-64E Remanufacture aircraft and procured using the same contracts. While the AH-64E Remanufacture program inducts aging AH-64D aircraft into a remanufacture production line, the AH-64E New Build program assembles all new components resulting in completely new aircraft at the end of the production process. These aircraft are procured at a significantly higher cost because they include all new components. A new build MTADS/PNVS system will be procured and provided with each aircraft. Other associated Government Furnished Equipment (GFE) such as the Fire Control Radar (FCR), Modernized Radar Frequency Interferometer (M-RFI), Radar Electronics Unit (REU), and Manned/Unmanned Teaming Extended Capability (MUMT-X) will be procured and provided in accordance with the basis of issue plan.

Justification:

The current AH-64E New Build Acquisition Program Baseline (APB) procurement objective is 56 aircraft which includes an increase to the training base capacity and establishes a new heavy combat aviation brigade in the active component. The Army has moved the New Build Aircraft and associated Advanced Procurement outside the FYDP.

Additionally, the New Build program includes Congressionally appropriated Overseas Contingency Operations (OCO) funding to procure New Build aircraft to fill aircraft shortages due to combat attrition and training loss. OCO funding does not provide advance procurement for long lead items for these aircraft.

All COMPO 1 Active.

Amendment Justification: This increase requests an additional \$707.8M to procure 20 aircraft above the PB 2017 Request. These aircraft will fill shortages in existing units. Funding of \$47.2M would provide Advance Procurement necessary to support the procurement of 7 New Build AH-64E Apaches in FY18 which would deliver to the active Army beginning in FY20. Funding of \$660.6M would procure 20 New Build AH- 64E Apaches in FY17 which would deliver to the active Army beginning in FY20.

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: Request for Additional Appropriations 2017 Army **Date:** March 2017

Appropriation / Budget Activity / Budget Sub Activity:
2031A: Aircraft Procurement, Army / BA 02: Modification of Aircraft / BSA 10: Modification of Aircraft

P-1 Line Item Number / Title:
A01001 / MQ-1 Payload (MIP)

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

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>)	-	25.313	148.353	91.735	-	91.735	19.962	3.397	3.460	3.406	-	295.626
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	25.313	148.353	91.735	-	91.735	19.962	3.397	3.460	3.406	-	295.626
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	25.313	148.353	91.735	-	91.735	19.962	3.397	3.460	3.406	-	295.626
<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>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	-	-	-	2,572.647	-	2,572.647	-	-	-	-	-	1,728.807

Description:

Funds in this program were realigned beginning in FY2015 from the shared MQ-1 Payload-UAS funding line (SSN A00020) for more efficient, effective program management. The funds were realigned into a new shared parent SSN, MQ-1 Payloads (MIP) (SSN A01001), which includes the MQ-1 sensor payloads: Synthetic Aperture Radar/Moving Target Indicator (SAR/MTI) (SSN A01003), Signal Intelligence (SIGINT) (SSN A01004), and Common Sensor Payload Full Motion Video (CSP FMV) (SSN A01005).

MQ-1 Payload (MIP) (A01001) budget line is shared between multiple Payload programs and two Program Managers (PM Terrestrial Sensors & PM Sensors - Aerial Intelligence). These Payload programs support the Army's transformation by procuring Reconnaissance, Surveillance and Target Acquisition (RSTA) and Intelligence, Surveillance and Reconnaissance (ISR) payload systems for Brigade Combat Teams, Divisions, and Corps Unmanned Aircraft Systems (UAS). This is in accordance with Headquarters Department of the Army (HQDA) and Training and Doctrine Command (TRADOC) UAS priorities. Common Sensor Payload (CSP), Small Tactical Radar - Lightweight (STARLite), and Tactical Signals Intelligence (SIGINT) Payload (TSP) are principal payloads for the Gray Eagle UAS. The Army Acquisition Objective (AAO) for STARLite and CSP is equivalent to aircraft/platform quantities, one system per Gray Eagle UAS - AAO is commensurate with aircraft quantity (one STARLite and one CSP payload per aircraft). The AAO for TSP is 112 systems.

Common Sensor Payload (CSP) Electro Optical / Infra Red / Laser Designator (EO/IR/LD) provides Full Motion Video (FMV) in both the Electro Optical and Mid Wave IR spectrums with day/night capability to collect and display continuous imagery with the ability to designate targets of interest for attack by laser guided precision weapons in Standard Definition (SD) as well as High Definition (HD) for a select subset of Gray Eagle platforms. CSP is the EO/IR/LD sensor for Gray Eagle UAS which supports intelligence gathering, force applications, battlespace awareness, force protection, and net-centric operations across the battlefield to provide wide area, near real time RSTA capabilities. Additional initiatives will continue to focus on the transition of technologies directly supporting emerging requirements and the Army's Current and Future Force. CSP is a Key Performance Parameter (KPP) for the Gray Eagle UAS to include the Combat Aviation Brigade (CAB), US Army Special Operations Aviation Command (ARSOAC) and Aerial Exploitation Battalion (AEB) companies.

Small Tactical Radar - Lightweight (STARLite) SAR/MTI is a lightweight, high performance, all weather, multi-functional radar system for the Gray Eagle Unmanned Aircraft System (UAS). The STARLite system provides wide area, near real time RSTA capabilities. It operates throughout the UAS flight mission profile in adverse weather and through battlefield obscurants. The SAR mode generates quality images for the battlefield commander for detection, classification and location of stationary commercial wheeled vehicle-size targets. The MTI mode detects moving ground targets, to include man-sized detection, and provides location information and performs cross-cue with the Electro-Optic/Infrared (EO/IR) sensors.

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: Request for Additional Appropriations 2017 Army								Date: March 2017		
Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 02: Modification of Aircraft / BSA 10: Modification of Aircraft						P-1 Line Item Number / Title: A01001 / MQ-1 Payload (MIP)				
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										
<p>The Tactical Signals Intelligence (SIGINT) Payload (TSP) is a SIGINT sensor, currently under development for the Gray Eagle that detects radio frequency (RF) emitters. The TSP system provides a SIGINT capability to the tactical commander. The TSP system is a modular, scalable payload using an architecture that is software reconfigurable to allow for growth and flexibility as technology, and as the adversaries use of technology changes. This flexible architecture allows for third party software applications to be integrated into the TSP system. The TSP system processing, control and data dissemination is integrated into the Distributed Common Ground System - Army (DCGS-A) via the Operational Ground Station. It supports Manned/Unmanned (MUM) teaming with Brigade Combat Team ground SIGINT Terminal Guidance (STG) teams and manned airborne assets. The TSP system improves situational awareness and shortens the targeting cycle by detecting and identifying emitters associated with high value targets (HVTs). The TSP system is capable of processing conventional signals, standard military signals, and modern signals of interest. This includes detection, recognition, identification, direction finding, and high confidence geo-location.</p>										
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	6	33	17	-	17	7	-	-	-
	Total Obligation Authority	25.313	148.353	43.735	-	43.735	19.962	3.397	3.460	3.406
Total:	Quantity	6	33	17	-	17	7	-	-	-
Secondary Distribution	Total Obligation Authority	25.313	148.353	43.735	-	43.735	19.962	3.397	3.460	3.406
<p>Justification: CSP: FY 2017 base procurement dollars in the amount of \$4.729 million supports integration and initial fielding of eighteen (18) CSP High Definition (HD) payloads in accordance with the updated Gray Eagle requirement to add an additional AEB company and fielding seventy-eight (78) Standard Definition (SD) to HD payload upgrades to six (6) existing CAB companies. Funding also supports Interim Contractor Support (ICS) requirements.</p> <p>STARLite: FY 2017 base procurement dollars in the amount of \$1.324 Million supports integration and fielding of eighteen (18) additional payloads and the continued interim contractor support.</p> <p>TSP: FY 2017 base procurement dollars in the amount of \$37.682 Million supports procurement of seventeen (17) TSP payloads along with initial spares and contractor logistics support.</p> <p>All Quantities are for the Active component.</p> <p>Amendment Justification: This increase requests an additional \$48.000M to procure 26 CSP and STARLite Payloads for 13 Extended Range MQ-1C Gray Eagle Platforms above the PB 2017 Request. These payloads will fill shortages in existing unit authorizations.</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 the homeland defense missions, domestic emergency responses, and providing military support to civil authorities.</p>										

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Exhibit P-40, Budget Line Item Justification: Request for Additional Appropriations 2017 Army										Date: March 2017		
Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 02: Modification of Aircraft / BSA 10: Modification of Aircraft							P-1 Line Item Number / Title: AA6605 / AH-64 MODS					
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												
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>)	177.897	181.869	116.153	187.883	-	187.883	238.141	144.892	133.029	91.698	-	1,271.562
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	177.897	181.869	116.153	187.883	-	187.883	238.141	144.892	133.029	91.698	-	1,271.562
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	177.897	181.869	116.153	187.883	-	187.883	238.141	144.892	133.029	91.698	-	1,271.562
<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>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Description:												
<p>The AH-64 MODS (AA6606) program provides for modernization of the fielded AH-64D/AH-64E Apache fleet. AH-64D/AH-64E is a tandem cockpit, twin engine, single main rotor attack helicopter. The Apache aircraft incorporates the Longbow weapon system and provides the U.S. Army with significant target acquisition and firepower effectiveness, survivability, lethality, and fighting capabilities even during adverse weather conditions. The Apache is equipped with the Fire Control Radar/Radar Frequency Interferometer (FCR/RFI) mission kit and Fire and Forget Longbow HELLFIRE missiles. The Modernized Target Acquisition Designator Sight (MTADS) assembly is an Electro-Optical system that consists of a Day television (DTV), sensor, a Forward Looking Infrared (FLIR) sensor for day and night visibility as well as limited adverse weather operations, a Laser Spot Tracker (LST), and Laser Rangefinder/Designator (LRFD). The Modernized Pilot Night Vision Sensor (M-PNVS) is a FLIR system which allows Nap-of-Earth flight operations at night by the pilot independent of the co-pilot/gunner's FLIR. The Apache is armed with the HELLFIRE Antitank Missile, 2.75 inch rockets and a 30mm gun capable of defeating armor.</p> <p>The AH-64 Mods Program allows for near-term operationally driven improvements to the Apache fleet, focusing on deployment lessons learned, reliability improvements, and solving obsolescence issues. Improvements will occur to the Airframe, Armament, Communications, Manned / Unmanned Teaming, Navigation, Sensors, Survivability, Support Elements, and Training Systems. Examples of modifications include Selected Component Recapitalization, Airframe and Sensor Obsolescence upgrades, procurement of Modernized Day Sensor Assembly Phase II components, initial procurement of Modernized Radio-Frequency Interferometer (M-RFI), Software upgrades, Condition Based Maintenance (CBM), Trainer upgrades, and Computer/Processing and Data Display and Control upgrades. The AH-64D/AH-64E inventory crossover point (approx.400 AH-64D / 400 AH-64E) will occur in 2021. These modernization efforts are required to ensure the Longbow Apache remains a ready and relevant Soldier asset.</p>												
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	181.869	116.153	137.883	-	137.883	238.141	144.892	133.029	91.698		
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-	-	
	Total Obligation Authority	181.869	116.153	137.883	-	137.883	238.141	144.892	133.029	91.698		
Justification:												

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: Request for Additional Appropriations 2017 Army		Date: March 2017
Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 02: Modification of Aircraft / BSA 10: Modification of Aircraft		P-1 Line Item Number / Title: AA6605 / AH-64 MODS
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		
<p>FY17 Base funding supports modification and service life extension efforts for the Airframe, Armament, Mission Command, Sensors, Survivability, Support Elements, Training Systems, and Manned/Unmanned Teaming.</p> <p>All COMPO 1 Active</p> <p>"The FY 2017 funding request was reduced for \$61.217 million to account for the availability of prior year execution balances"</p> <p>Amendment Justification: This increase requests an additional \$50.000M to procure 500 Hellfire missile launchers for the AH-64 Apache above the PB 2017 Request. These Hellfire missile launchers will fill shortages in existing unit authorizations</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-40, Budget Line Item Justification: Request for Additional Appropriations 2017 Army	Date: March 2017
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Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 02: Modification of Aircraft / BSA 10: Modification of Aircraft	P-1 Line Item Number / Title: AA0252 / CH-47 Cargo Helicopter Mods (MYP)
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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: 0607137A
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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>)	2,897.847	32.092	90.330	163.943	-	163.943	188.968	122.257	89.884	25.394	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	2,897.847	32.092	90.330	163.943	-	163.943	188.968	122.257	89.884	25.394	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	2,897.847	32.092	90.330	163.943	-	163.943	188.968	122.257	89.884	25.394	Continuing	Continuing

(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 CH-47 Chinook is a twin-turbine, tandem-rotor, heavy lift transport helicopter with a useful load of up to 25,000 pounds. As the Army's only heavy lift helicopter, the mission of the CH-47 is to transport troops (including air assault), supplies, weapons and other cargo in general support operations. The CH-47 is vital to the Overseas Contingency Operations and Homeland Security needs of our nation. Secondary missions include medical evacuation, aircraft recovery, parachute drops, disaster relief and search and rescue. These aircraft are fielded to heavy helicopter companies and Special Operations Aviation. The major modifications to the H-47F/G include the Cargo On/Off Loading System (COOLS) with Ballistic Protection System (BPS), Advance Chinook Rotor Blades (ACRB), Systems Optimization and Payload restoration, Improved Troop Seats (ITS), Cargo Platform Health Environment (CPHE), Adjustable Pitch Change Link, Engine Improvement, Aircraft Component Parts-Marking, Safety Mods \$5M or Less, Improved Vibration Control System (IVCS), Training Aids, Devices, Simulators and Simulations (TADSS) and Special Tools and Test Equipment (STTE).

The Cargo On/Off Loading System (COOLS) with an under floor Ballistic Protection System (BPS) is a new floor integrated into the aircraft with panels that flip from a flat surface to rollers. This enables units to perform cargo and passenger missions without stopping to re-configure the aircraft to meet diverse mission requirements. The on-ground or in-flight re-configuration takes one Soldier no more than fifteen minutes to complete. The legacy system, Helicopter Internal Cargo Handling System (HICHS), is a cumbersome bolt-on system that is maintenance intensive and requires more than 8 man hours to install.

Advance Chinook Rotor Blade (ACRB) adds approximately 1800 pounds of payload performance to the H-47. The increase in Mission Equipment Packages (MEP) required for combat operations requires increasing cargo payload capability to reduce aircrew mission risk and decrease sortie requirements. The program goal is to restore payload capability, reduce Operations and Sustainment (O&S) costs, improve erosion protection and increase readiness by improving reliability. These blades are designed for user installation.

Systems Optimization and Payload Restoration is an airframe modification that is intended to increase payload and optimize electrical and fuel systems to decrease overall O&S cost and reduce subsystem weights. The use of newer advanced materials and machining processes will integrate lighter, more reliable materials that will increase reliability and lower aircraft weight. The aircraft electrical system will recover available power capacity while improving power distribution and reliability. Aircraft safety will be enhanced through electrical systems redundancy. Fuel system improvements will reduce parts and increase reliability.

The Improved Troop Seats (ITS) will replace the current H-47 passenger seats, initially designed in the 1960's for the initial fielding of the CH-47A, and do not offer significant crash protection. This effort will qualify and field H-47 improved passenger seats to increase passenger safety during hard or crash landings. The seats are being designed to not only withstand greater impact forces experienced during hard or crash landings, but also provide an improved restraint harness that will keep the occupants in the seats. The seats are being designed as individual seats that can be installed in any of the 32 seat positions

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: Request for Additional Appropriations 2017 Army		Date: March 2017
Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 02: Modification of Aircraft / BSA 10: Modification of Aircraft		P-1 Line Item Number / Title: AA0252 / CH-47 Cargo Helicopter Mods (MYP)
ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: 0607137A
Line Item MDAP/MAIS Code: N/A		
<p>available, providing greater flexibility for configuring the aircraft to support different mission requirements. This effort implements guidance received in the FY09 Department of Defense, Resource Management Decision (RMD) 700.</p> <p>Cargo Platform Health Environment (CPHE) is the Cargo PMO CH-47F Health and Usage Monitoring System (HUMS). The system provides the technology and aircraft specific tools to support Condition Based Maintenance (CBM) capability for the CH-47F fleet. CPHE will assist the user to troubleshoot and diagnose the aircraft's current condition, reducing aircrew's maintenance burden and the O&S costs through reductions in required maintenance flights, improved troubleshooting guidance, and improved aircraft reference data. CPHE provides improvements in the following areas: 1) Permanently installs sensors for Rotor Track and Balance; 2) Provides improved drive-train vibration monitoring and troubleshooting; 3) Records additional aircraft parametric data that provides additional information to assist the maintainer in trouble-shooting a signal or component failure on the aircraft; 4) Provides aircraft structural health monitoring which captures aircraft flight hours and accurate aircraft gross weight (within 500 LBS); 5) Provides the capability to automatically download the Engine Control Unit (ECU) reports which eliminates the need to connect a separate computer to get ECU information; 6) CPHE provides a reporting system of A/C data to quantify current A/C health and trends. In the near future, CPHE will allow for automatic population of computerized forms and records.</p> <p>Adjustable Pitch Change Link is a newly designed and qualified pitch change link with a weather protective boot assembly. The new, user installed link and boot will reduce field labor hours and provide ease of adjustment.</p> <p>Engine improvements for the T55-GA-714A focus on optimizing operational capability and reliability while decreasing O&S costs. The Electronic Control Unit (ECU) upgrade improves engine communication with the aircraft monitoring systems to increase the aircrew situational awareness and reduce workload. In addition, software enhancements provide the user with advanced troubleshooting capability and enhanced safety. Software upgrades will occur at designated intervals to allow efficient and expedient fielding of any improvements/enhancements. The engine program for Reliability Improvements thru Failure Investigation and Reporting (RIMFIRE) includes the investigation and reporting of engine failure data at the depot which provides key information that helps drive reliability, maintainability and O&S improvements. This information is key to improving the engine and reducing the cost and maintenance burden to the Soldiers. Each engine that is returned to the depot for overhaul goes through a series of visual inspections. The data from these inspections is then analyzed and used to help determine the root cause for the engine failure or the engine return. This effort covers the inspections, data collection, data retention, and data analysis for all T55 engines returned to Corpus Christi Army Depot (CCAD). The Chinook Cabin Information Panel provides the crew in the cabin of the aircraft the ability to see vital cockpit and engine information that is not currently available to anyone except the pilots. The panel will provide the Flight Engineer and crew members the ability to assist the pilots in monitoring aircraft systems as well as the diagnostics of emergency situations. Installation schedules vary.</p> <p>Aircraft Component Parts-Marking develops Unique Item Identification (UID) component markings and updates technical data packages for applicable CH-47 components. Also marks components not marked during production using mobile facilities.</p> <p>CH-47 Safety Mods \$5M or Less include Improved night vision goggle lighting for the cargo area; Integrated Lower Control Actuator (ILCA) Bench Test Set to reduce the large manpower and workload burden of the current system and reduce erroneous ILCA depot returns; Improved Engine Air Particle Separator (EAPS) to reduce mission weight; The integrated ILCA Bench Test Set (IIBTS) is the replacement bench test set, upgraded to digital technology to reduce operation and maintenance cost and complexity. The IIBTS will maintain the same testing capabilities as the original test sets and provide automated test functions in lieu of the existing manual test procedures which will enhance integrated lower control actuator troubleshooting and maintenance. The goals for redesign are: Combining the Electronic Unit (EU) and Electro-Hydraulic Test Fixture Assembly (EHTFA) into one box vs. current two boxes; Reduce procurement cost; Reduce costs of maintainability/sustainability; and Reduce complexity of operation. Installation schedules vary.</p> <p>The Improved Vibration Control System (IVCS) will provide an active vibration suppression system to minimize CH-47 aircraft vibrations and replaces the Self Tuned Vibration Absorbers (STVAs). The IVCS reduces aircraft weight by approximately 100 lbs., provides vibration dampening equal to/or better than the STVA, and reduces O&S costs and Soldier burden.</p> <p>Training Aids, Devices, Simulators, and Simulations (TADSS) funding ensures when changes are made to the materiel systems the CH-47F training enablers can remain current and stay relevant to the operating environment aligned with the CH-47F modernization strategy. Planned modifications or upgrades to the CH-47F necessitates the modification and upgrade of system Training Aids, Devices, Simulators, and Simulations (TADSS).</p> <p>Special Tools & Test Equipment provides for unique tooling and equipment for CH-47F. Procurement of these special tools and test equipment is through requisitions in the supply system.</p>		

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Exhibit P-40, Budget Line Item Justification: Request for Additional Appropriations 2017 Army	Date: March 2017
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Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 02: Modification of Aircraft / BSA 10: Modification of Aircraft	P-1 Line Item Number / Title: AA0252 / CH-47 Cargo Helicopter Mods (MYP)
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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: 0607137A
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Line Item MDAP/MAIS Code: 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	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	32.092	90.330	102.943	-	102.943	188.968	122.257	89.884	25.394
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	32.092	90.330	102.943	-	102.943	188.968	122.257	89.884	25.394

Justification:
FY17 Base procurement in the amount of \$102.943 million supports major modifications to include the Cargo On/Off Loading System (COOLS) with Ballistic Protection System (BPS), Advance Chinook Rotor Blades (ACRB), Systems Optimization and Payload restoration, Improved Troop Seats (ITS), Cargo Platform Health Environment (CPHE), Adjustable Pitch Change Link, Engine Improvement, Aircraft Component Parts-Marking, Safety Mods \$5M or Less, Improved Vibration Control System (IVCS), Training Aids, Devices, Simulators and Simulations (TADSS) and Special Tools and Test Equipment (STTE).

Amendment Justification: This increase requests an additional \$61.000M to procure 16 CPHE, 70 IVC and 6 prototype and testing of light weight cools ballistic protection system above the PB 2017 Request. This will address CH47F safety, obsolescence, weight reduction, maintenance requirements across the fleet.

In accordance with Section 1815 of the 2009 National Defense Authorization Act (P.L 110-181), this item is necessary for use by the Active and Reserve Components of Armed Forces for homeland defense missions, domestic emergency responses and providing military support to civil authorities.

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: Request for Additional Appropriations 2017 Army	Date: March 2017
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Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 02: Modification of Aircraft / BSA 10: Modification of Aircraft	P-1 Line Item Number / Title: A00018 / RQ-7 UAV MODS
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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: 0305204A, 0305233A
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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>)	1,510.822	125.380	89.694	318.820	1.775	320.595	89.160	74.463	5.404	-	-	2,215.518
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	1,510.822	125.380	89.694	318.820	1.775	320.595	89.160	74.463	5.404	-	-	2,215.518
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	1,510.822	125.380	89.694	318.820	1.775	320.595	89.160	74.463	5.404	-	-	2,215.518
(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 TUAS provides Army Brigade Combat Teams, Aviation Brigades, and Special Operation Groups situational awareness, improved wide-area target acquisition, Laser Designation, and high value target (HVT) tracking to conduct both shaping and decisive operations with greatly increased lethality. The TUAS meets the need for a day/night, multi sensor collection system with improved connectivity to joint forces that provides real time battle information that cannot be observed from standoff airborne sensor systems, ground collection systems, and scouts. The key performance parameters are blocked into RQ-7B (production) thresholds and subsequent upgrade objectives. The RQ-7B system is a Reconnaissance Surveillance Target Acquisition (RSTA), Command, Control, Communications, and Intelligence (C3I) system that supports Brigade, Battalion, and lower level elements. The RQ-7B Shadow has logged over 975,000 flight hours in support of Overseas Contingency Operations (OCO).

The TUAS RQ-7B completed production of 104 Army systems in 2011 (FY 2009 Funding) and entered a modifications phase. These modifications are divided into three primary sections: RQ-7B v2, System Modifications, and Payload Modifications. The RQ-7B v2 or Shadow v2 effort incorporates Type 1 Encryption, STANAG 4586 Compliant Software, a Universal Ground Control Station (UGCS), a Universal Ground Data Terminal (UGDT), a STANAG 4586 compliant Portable Ground Control Station, and standardizes modifications introduced during the wars in Iraq and Afghanistan. System Modifications and Payload Modifications consolidate development activities not included in the Shadow v2 Block Modification.

In 2009, the Product Office placed the last of the authorized 104 systems on contract, ending the Production phase of the acquisition. In 2010, the Army G8 established a RQ-7B UAV MODS Aircraft Procurement Exhibit approving several modifications for development and production. These modifications will be incrementally integrated, tested, and fielded in accordance with the technology readiness and funding profile. The major modifications are grouped as follows: (1) v2 Modifications (includes TCDL and Encryption), (2) Payload Modifications, and (3) System Modifications. Threshold requirements include a Heavy Fuel Engine, increased reliability, redundant avionics, electronic shielding, and Synthetic Aperture Radar (SAR)/Ground Moving Target Indicator (GMTI). The RQ-7B v2 will be compliant with STANAG 4586 and the Joint Interoperability Profiles. To achieve this, the system incorporates the UGCS and UGDT along with an upgraded Air Data Terminal, Airborne Computer, and onboard software.

The RQ-7B v2 Shadow upgrade program complies with the congressionally mandated Tactical Control Data Link (TCDL) and North Atlantic Treaty Organization (NATO) Standardization Agreement 4586 in order to meet requirements in the Operational Requirements Document, provide a secure data link, an enhanced propulsion system, payload improvements, avionics improvements, and ground equipment improvements.

OSRVT: The One System Remote Video Terminal (OSRVT) systems modifications were funded on this Program Element (PE) prior to FY2017. Starting in FY2017 the OSRVT modification line is A00121.

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Exhibit P-40, Budget Line Item Justification: Request for Additional Appropriations 2017 Army								Date: March 2017		
Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 02: Modification of Aircraft / BSA 10: Modification of Aircraft						P-1 Line Item Number / Title: A00018 / RQ-7 UAV MODS				
ID Code (A=Service Ready, B=Not Service Ready):			Program Elements for Code B Items: N/A			Other Related Program Elements: 0305204A, 0305233A				
Line Item MDAP/MAIS Code: 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	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	91.255	89.694	61.169	1.775	62.944	79.160	70.463	3.404	-
ANG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	34.125	-	10.000	-	10.000	10.000	4.000	2.000	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	125.380	89.694	71.169	1.775	72.944	89.160	74.463	5.404	-

Justification:
FY 2017 Base funding of \$71.169 million provides for production of 8 Launchers, 8 Mobile Maintenance Facility (MMF) spares kits, 6 Universal Mission Simulators (UMS), and fielding of Shadow hardware procured in prior years. FY2017 funds 80 mission Computers, 120 Block III Engines, 50 Weatherization Kits, and 18 Electro Optical / Infrared /Laser Designator (EO/IR/LD) Universal Interface Assemblies, 18 EO/IR/LD Payloads and 11 EO/IR/LD Boresight Tools. Also, procures Engineering, Logistics, Fielding and New Equipment Training (NET). FY 2017 Base funding was cut \$8.640 million due to under execution.

FY 2017 OCO funding of \$1.775 million provides for production of 1 Air Vehicle with LD/HD payload to replace battle loss in Operation Freedom's Sentinel (OFS).

Amendment Justification: This increase requests an additional \$247.651M to procure 6 Systems from the PB 2017 Request. These unmanned systems will fill shortages in existing unit authorizations. Procures: 6 Complete Shadow V2 BLK III systems, 10 Shadow Light conversion kits, 8 launchers, 30 Shadow V2 BLK III conversion kits, and small form factor IFF Transponders.

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In accordance with 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: Request for Additional Appropriations 2017 Army	Date: March 2017
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Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 02: Modification of Aircraft / BSA 10: Modification of Aircraft	P-1 Line Item Number / Title: A01002 / UAS MODS
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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

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>	-	-	-	23.324	4.420	27.744	21.434	21.840	18.556	-	-	89.574
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	-	-	-	23.324	4.420	27.744	21.434	21.840	18.556	-	-	89.574
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	-	-	-	23.324	4.420	27.744	21.434	21.840	18.556	-	-	89.574
<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>	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost <i>(\$ in Thousands)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Thousands)</i>	-	-	-	641.294	-	641.294	-	-	-	-	-	523.825

Description:

The One System Remote Video Terminal (OSRVT) systems require an update to an Increment II OSRVT. The OSRVT Increment II Upgrade Program of Record (POR) began in FY 2012. The OSRVT Increment II consists of a Remote Operations Video Enhanced Receiver (ROVER), Miltope tablet, Antennas, UHF Modem, Type I encryption, and an extended range Mobile Directional Antennas System (MDAS). Software supports decoding Telemetry Data from multiple Unmanned Aircraft Systems (UASs), provides Electro-Optical (EO)/Infrared (IR) payload control, and supports off-target calculations.

The OSRVT MODS APE A000121000, begins in FY 2017. Prior to FY2017, OSRVT Procurement funds were provided via the SHADOW MODS APE A00018000.

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	-	-	21.804	4.420	26.224	21.434	21.840	18.556	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	21.804	4.420	26.224	21.434	21.840	18.556	-

Justification:

FY 2017 Base funding of \$21.804 million provides for production of 28 OSRVT systems, as part of an Army Procurement Objective (APO) increase to support the Army Airborne Command and Control System (A2C2S), and the production of 750 BD-Retrofit Kits. The FY 2017 Base funding also supports Installation, Recurring Engineering, Systems Engineering, Logistics, Fielding, New Equipment Training (NET), and Program Management (PM). FY2017 Overseas Contingency Operations (OCO) funding of \$4.420 million provides for the production of 27 OSRVT systems in support of the European Resistance Initiative (ERI).

Amendment Justification: This increase requests an additional \$1.520M to procure nine (9) One System Remote Video Terminals (OSRVT) above the PB 2017 Request. These OSRVTs will fill unit authorizations under the NOAA force structure increase to 476K.

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Exhibit P-40, Budget Line Item Justification: Request for Additional Appropriations 2017 Army		Date: March 2017
Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 02: Modification of Aircraft / BSA 10: Modification of Aircraft		P-1 Line Item Number / Title: A01002 / UAS MODS
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		
In accordance with 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: Request for Additional Appropriations 2017 Army	Date: March 2017
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Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 04: Support Equipment and Facilities / BSA 30: Other Support	P-1 Line Item Number / Title: AA0050 / Air Traffic Control
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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: 0604633A
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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>)	1,248.780	127.232	94.545	53.405	-	53.405	111.890	91.119	53.269	54.922	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	1,248.780	127.232	94.545	53.405	-	53.405	111.890	91.119	53.269	54.922	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	1,248.780	127.232	94.545	53.405	-	53.405	111.890	91.119	53.269	54.922	Continuing	Continuing
(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>)	-	-	-	1,421.964	-	1,421.964	-	-	-	-	Continuing	Continuing

Description:

Funds described herein support the acquisition of modernized tactical and fixed base Air Traffic Control (ATC) systems that will enable safety of aircraft operations. ATC systems are required to achieve or maintain compliance with civil, military, domestic and international air traffic control mandates and combat identification requirements. Efforts funded include the Tactical Airspace Integration System (TAIS), Air Traffic Navigation Integration and Coordination System (ATNAVICS), the Mobile Tower System (MOTS), the Tactical Terminal Control System (TTCS), the ATC Common Simulator (ACS), and Fixed Base systems, such as the DoD Advanced Automation System (DAAS), the Digital Airport Surveillance Radar (DASR), and other navigational control aids to include the Army Airfield Automation System (AAAS), National Air Space (NAS) voice switch and the Doppler VHF Omnidirectional Range (DVOR) system.

TAIS, the Army's system of record for Airspace Control (AC) and enroute Air Traffic Services (ATS) within the Army Mission Command Information System (MCIS) system of systems, performs ATS and AC at brigade and theater commands. TAIS Airspace Workstation (AWS) provides for AC planning and execution at the Brigade Combat Team and above. It is the Army's link to the Theater Battle Management Core System for Joint Airspace Management. TAIS and TAIS AWS provide an automated AC and ATS capability for current requirements and Mission Command interfaces. ATNAVICS provides all-weather instrument flight capabilities to include terminal, and radar precision approach and landing services to all Army, Joint, and Allied aircraft. The TTCS is a mobile ATC communications system that provides initial ATS at remote landing sites and drop zones. It enables secure ground-to-air and ground-to-ground communications between Army aircraft, other services and Allied aircraft, and ground stations. TTCS also provides aircraft separation and ground control capabilities, a meteorological measuring system for basic weather information, and precision location capability. MOTS provides ATC and aircraft separation for both air and ground operations at tactical or remote landing sites. It replaces the 1970's era 7A mobile tower system. MOTS capabilities include weather information, secure and anti-jam communications across all required frequency bands and ranges, and precision location. ATNAVICS, TAIS, TTCS, and MOTS serve as effective air traffic control tools for aviation safety during night, inclement weather, and combat operations. The ACS facilitates training and continued operator proficiency by incorporating the functionality of ATNAVICS, MOTS, and TAIS into a single simulator system. The ACS provides the ability to simulate start to finish ATC scenarios or any specific phase of ATC operations. Simulated ATC scenarios can include tower, radar and air traffic services operations with precise simulation of take-off/landing under both Visual Flight Rules (VFR) and Instrument Flight Rules (IFR), radar simulation for surveillance and precision approach, flight-following, airspace control and airspace deconfliction. Fixed Base ATC requirements (DAAS, DASR, AAAS, DVOR, NAS Voice Switch) will be met through a vast array of new technology solutions and pre-planned product improvement (P3I) of these systems, resulting in highly reliable and safe ATC systems in accordance with the Joint DoD/Federal Aviation Administration (FAA) program to modernize the NAS and the FAA Next Gen 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	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	98.314	72.277	38.341	-	38.341	65.080	58.325	34.933	33.690

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Exhibit P-40, Budget Line Item Justification: Request for Additional Appropriations 2017 Army	Date: March 2017
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Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 04: Support Equipment and Facilities / BSA 30: Other Support	P-1 Line Item Number / Title: AA0050 / Air Traffic Control
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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: 0604633A
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Line Item MDAP/MAIS Code: 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
ANG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	27.836	22.268	12.064	-	12.064	46.810	32.794	18.336	21.232
AR	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	1.082	-	-	-	-	-	-	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	127.232	94.545	50.405	-	50.405	111.890	91.119	53.269	54.922

Justification:
FY 2017 Base procurement dollars in the amount of \$50.405 million provides for the acquisition of MOTS engineering services and supports tactical and fixed base ATC systems including pre-planned product improvements (P3I). Funds for tactical ATC systems provide for upgrades and modifications to TAIS, ATNAVICS, TTCS, and MOTS. ATNAVICS upgrades will address interoperability and networking capabilities with the integration of the Tactical Operations Center Intercommunications System (TOCNET) and Mode S capability. ATNAVICS will also improve radio communications with the installation of PRC-117G radios, and will upgrade Advanced Signal Data Processors. TAIS funding provides for the implementation of interfaces to the Expanded Airtrack Sensor Integrator, ATC Network and conduct of systems engineering activities/analysis for software product modifications required to address workarounds identified by end users. TTCS funding provides for the production and retrofit of a Universal Rack that accommodates vehicle uparmor requirements, modernized communications suite, the integration of Blue Force Tracker capabilities, and the integration of TOCNET. These modifications to tactical ATC systems ensure Army ATC and Army airspace command and control systems are capable of supporting the path ahead to the Future Force. ACS funding provides for the acquisition and installation of simulator hardware and software, as well as non-recurring engineering services required to integrate the ACS, and initial training. Fixed Base funded efforts include P3I for DAAS and DASR, upgrade to the NAS voice switch, DVOR system, AAAS hardware and software upgrades to accommodate changes to the Digital Automatic Terminal Information Service and the USAF Weather System Joint Environmental Toolkit. Fixed Base equipment quantities and configurations are tailored to meet specific site requirements, resulting in varying unit costs. Funding ensures compliance and interoperability between the Army, Joint, and FAA systems operating in the National Airspace System (NAS).

The FY 2017 funding request was reduced by \$28.0 million to account for the availability of prior year execution balances.

Amendment Justification: This increase requests an additional \$3.0M for upgrade of one (1) radar for the PB 2017 Request. This increase will be combined with funding from the USAF to provide an ASR-8 Common Terminal Digitizer and radar automation upgrade to facilitate artillery training in Ft Sill restricted airspace and USAF pilot training outside of restricted airspace.

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: Request for Additional Appropriations 2017 Army	Date: March 2017
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Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 04: Support Equipment and Facilities / BSA 30: Other Support	P-1 Line Item Number / Title: AZ3300 / Industrial Facilities
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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

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>)	185.224	1.203	1.207	1.829	-	1.829	1.397	1.430	1.456	1.498	-	195.244
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	185.224	1.203	1.207	1.829	-	1.829	1.397	1.430	1.456	1.498	-	195.244
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	185.224	1.203	1.207	1.829	-	1.829	1.397	1.430	1.456	1.498	-	195.244
<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>)	-	-	-	-	-	-	-	-	-	-	-	-
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 Aircraft and Aircraft components. 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 the Redstone Test Center (RTC), Huntsville, AL and Yuma Test Center (YTC), Yuma Proving Ground, 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	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	1.203	1.207	1.217	-	1.217	1.397	1.430	1.456	1.498
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	1.203	1.207	1.217	-	1.217	1.397	1.430	1.456	1.498

Justification:

FY 2017 Base procurement dollars in the amount of \$1.217 million support the following: At RTC, procures new data acquisition equipment used to collect aircraft structural integrity data during extreme flight maneuvers to help predict catastrophic structure failures and provide life cycle fatigue estimates of aircraft components. At YTC, procures replacement aircraft instrumentation for the time-stamping, on-board recording and telemetering of data from standard data buses and sensors; and on-board recorders and telemetry equipment that can meet the environment and data speeds needed for production base aviation programs. Funding also provide upgrades for Kineto Tracking Mounts (optical tracking equipment) used for trajectory estimates for aircraft fired munitions in the evaluation, integration and fault isolation of aircraft weapons systems; allows remote control of mounts for safety during tests with live munitions.

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-40, Budget Line Item Justification: Request for Additional Appropriations 2017 Army		Date: March 2017
Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 04: Support Equipment and Facilities / BSA 30: Other Support		P-1 Line Item Number / Title: AZ3300 / Industrial Facilities
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		
All COMPO 1 Active		
Amendment Justification: This increase requests an additional \$0.612M above the PB 2017 Request. This funding will support aviation test instrumentation and infrastructure.		
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.		