DEPARTMENT OF THE ARMY

Procurement Programs

Committee Staff Procurement Backup Book
Fiscal Year (FY) 2006/2007 Budget Estimates

OTHER PROCUREMENT, ARMY
Communications and Electronics
Budget Activity 2

APPROPRIATION

February 2005
Performance metrics used in the preparation of this Justification Book may be found in the FY06 Army Performance Budget Justification Book, dated 18 February 2005."
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<th>ACTIVITY</th>
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**SUB-ACTIVITY TOTAL**

- | FY 2004 | FY 2005 | FY 2006 |
- | 435,894 | 397,874 | 210,500 |

**COMM - INTELLIGENCE COMM**

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**SUB-ACTIVITY TOTAL**

- | FY 2004 | FY 2005 | FY 2006 |
- | 1,188   | 1,253   | 1,320   |

**COMM - INFORMATION SECURITY**

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**ELECT EQUIP - TACTICAL C2 SYSTEMS**

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<td>B10300</td>
<td>Weaponization of UAVs</td>
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<td>122</td>
<td>BF5400</td>
<td>PRODUCTION BASE SUPPORT (C-E)</td>
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**Exhibit P-40, Budget Item Justification Sheet**

**Appropriation/Budget Activity/Serial No:**
Other Procurement, Army /2/Communications and Electronics Equipment

**P-1 Item Nomenclature**
WIN - TACTICAL Program (B79100)

**Program Elements for Code B Items:**

<table>
<thead>
<tr>
<th>Code:</th>
<th>Other Related Program Elements:</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Appropriation/Budget Activity/Serial No:</th>
<th>Date: February 2005</th>
</tr>
</thead>
</table>

**Proc Qty**

| Description: | Warfighter Information Network-Tactical (WIN-T) is the Army's communications system for reliable, secure, and seamless video, data, imagery, and voice services that enables decisive combat actions. It will be focused on moving information in a manner that supports commanders, staffs, functional units, and capabilities-based formations - all mobile, agile, lethal, sustainable, and deployable. It will be optimized for offensive and joint operations so that the theater combatant commander will have the capability to perform multiple missions simultaneously with campaign quality. WIN-T will establish an environment in which commanders at all echelons will have the ability to operate with virtual staffs and analytical centers that are located at remote locations throughout the battlespace. As a key system supporting the Army's Current and Future Force, WIN-T meets the pressing need for efficient battlefield bandwidth utilization, optimal data throughput, on-the-move critical information exchange, and rapid infrastructure modernization. WIN-T operates as the principal means to frame the tactical infosphere that encompasses both the Unit of Employment (UE) and Unit of Action (UA) areas of influence. The tactical infosphere will operate while mobile, via its robust networking, and be able to pass relevant information for system of systems combined arms capabilities in all terrain and under all environmental conditions. Future Combat Systems (FCS), Joint Tactical Radio System (JTRS), satellite terminals and other Department of Defense (DoD) Command, Control, Communications & Computers, Intelligence (C4I) programs are relying on WIN-T for seamless integration into the DoD Global Information Grid (GIG). WIN-T will be optimized for offensive and joint operations, while providing the Theater Combatant the capability to plan, prepare, and execute multiple missions and tasks simultaneously with campaign quality utilizing a mobile throughput feature. It will be a framework conforming to established standards and protocols for the network while interfacing with and/or replacing equipment in current forces. The WIN-T outmodes Mobile Subscriber Equipment (MSE) and Tri-Services Tactical Communications (TRI-TAC) capabilities. WIN-T is scheduled for a Milestone C in the second quarter FY 2006. |

**Justification:**

FY2006 Procures Low Rate Initial Production (LRIP) quantities of WIN-T systems/equipment for Production Verification Test (PVT) and subsequently Initial Operational Test (IOT).

FY2007 Procures additional Low Rate Initial Production (LRIP) quantities of WIN-T systems/equipment for Initial Operational Test (IOT). LRIP assets will be fielded after testing.
| OPA2 Cost Elements                      | FY 04 |   |   | FY 05 |   |   | FY 06 |   |   | FY 07 |   |   |
|----------------------------------------|-------|--|--|-------|--|--|-------|--|--|-------|--|--|-------|--|--|
| WIN-T Communications System            | $000  | x1000 | $  | $000  | x1000 | $  | $000  | x1000 | $  | 58770  | $  | 78235  | $  |
| Engineering Change Order's             | 2397  |     |    | 5030  |     |    | 11419 |     |    | 10797 |     | 807  |     |
| Contractor System Engineering/Prog Mgmt| 33631 |     |    | 11419 |     |    | 807   |     |    | 1889  |     | 1812 |     |
| Program Management Administration      | 9313  |     |    | 10797 |     |    | 807   |     |    | 1889  |     | 1812 |     |
| Tooling, Test                          | 16433 |     |    |        |     |    |        |     |    |        |     |    |     |
| Training, Data                         | 1889  |     |    | 1812  |     |    | 1812  |     |    |        |     |    |     |
| Fielding                               |        |     |    |        |     |    |        |     |    |        |     |    |     |
| Support/Maintenance                    |        |     |    |        |     |    |        |     |    |        |     |    |     |
| **Total**                              | **122433** | | | **108100** | | | | | | | | | |
### WIN-TACTICAL Program (B79100)

#### WIN-T Communications System

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<th>Contract Method and Type</th>
<th>Location of PCO</th>
<th>Award Date</th>
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<th>Unit Cost $</th>
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### FY 03 / 04 Budget Production Schedule

#### WIN-Tactical Program

**Date:** February 2005

**Fiscal Year 03**

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**Fiscal Year 04**

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<td>May</td>
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**Remarks:**
- Production schedule is listed as both zero (0) and TBD due to the recent modification of the Acquisition Strategy and the Combining of Contract Teams. The PForms will be revised after the MS-C Decision to reflect the Production architecture.
**FY 05 / 06 BUDGET PRODUCTION SCHEDULE**

| MONTH | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | LATE |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| MFR   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| NAME/LOCATION |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| GENERAL DYNAMICS, TAUTON, MA | 1.00 | 1.00 | 1.00 | 0 | | | | | | | | | | | | | | | | | | | | | | | | |
| MFR NUMBER | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PRODUCTION RATES | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| REACHED | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| INITIAL | 0 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| REORDER | 0 | 4 | 21 | 25 | | | | | | | | | | | | | | | | | | | | | | | | |

Production schedule is listed as both zero (0) and TBD due to the recent modification of the Acquisition Strategy and the Combining of Contract Teams. The PForms will be revised after the MS-C Decision to reflect the Production architecture.
**FY 07 / 08 BUDGET PRODUCTION SCHEDULE**

**COST ELEMENTS**

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<th>MFR</th>
<th>ADMIN/LEAD TIME</th>
<th>MFR TOTAL</th>
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**Total**

**Production Schedule**

Production schedule is listed as both zero (0) and TBD due to the recent modification of the Acquisition Strategy and the Combining of Contract Teams. The PForms will be revised after the MS-C Decision to reflect the Production architecture.
### Exhibit P-40, Budget Item Justification Sheet

**Appropriation/Budget Activity/Serial No:**
Other Procurement, Army /2/Communications and Electronics Equipment

**P-1 Item Nomenclature:**
JCSE EQUIPMENT (USREDCOM) (BB5777)

**Program Elements for Code B Items:**

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**Description:**
This program provides funding for the Joint Communications Support Element (JCSE). JCSE is a unique, completely mobile, multi-service communications unit. It is designed to meet the simultaneous communication requirements for two deployed Joint Task Force (JTF) Headquarters and two deployed Joint Special Operation Task Forces (JSOTF) Headquarters as defined by the communication architecture contained in the Chairman, Joint Chiefs of Staff (JCS) Manual 6231. JCSE equipment requirements are approved and validated by the JCS, the Combatant Commanders, Services and other Defense Agencies.

**Justification:**
FY06/07 procures equipment that contains the latest mature technology available to meet the current and future communication requirements of the warfighting Combatant Commanders. Equipment to be procured includes major upgrades to mobile satellite systems, commercial off the shelf (COTS) equipment necessary for migration to Global Information Grid (GIG) enterprise services, IP based COMSEC and network equipment (including data terminal equipment and upgrades).
### OPA2 Cost Analysis

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</table>
### Description:
Secure Enroute Communications Package – Improved (SECOMP-I) is a communications system designed for use by Corps/Joint Tactical Force (JTF)/Army Force Commanders and staff while deploying to a theater of operations onboard aircraft, maritime vessels, or while dismounted for initial ground operations. SECOMP-I enables real time situation awareness and robust, collaborative, Enroute Mission Planning and Rehearsal (EMPR) capabilities down to the company level. This program enables the commander to receive and disseminate critical real-time data, thus avoiding “information blackout” while forces are enroute to an objective area, and to modify plans and orders as required.

Funding for SECOMP-I for FY04 and prior is reflected in Mod of In-Svc Equipment Tactical Satellites (TACSAT) SSN BB8417. In response to an urgent requirement, eleven SECOMP-I(-) systems were deployed to Afghanistan during Operation Enduring Freedom (OEF). Revised Operational Requirements Document (ORD) was approved by the Army Requirements Oversight Council (AROC) on 19 Mar 03 and direction was given by the Vice Chief of Staff, Army (VCSA) to proceed directly to Block II, hereafter referred to as the SECOMP-I system. The SECOMP-I system capabilities include voice and limited data via user-provided UHF/VHF Tactical Satellite/Line of Sight (TACSAT/LOS) radios, 5 to 15 workstations - each consisting of a laptop computer and an intercom, an on-board Ethernet LAN for intra-platform network communications and a Communications Manager Interface (CMI) to manage the data and communications links. Additional capabilities include wideband Satellite communication (SATCOM) (using International Marine/Maritime Satellite (INMARSAT) as an interim solution), servers to enable robust, collaborative, Enroute Mission Planning and Rehearsal (EMPR) functionality, and a Flying LAN (FLAN) for sideband inter-platform network communications, to constitute the SECOMP-I system. Further, the wideband SATCOM will evolve into military Ka Band in the future. This program is designated as a DoD Space Program.

### Justification:
FY06/07 funds procurement of 13 SECOMP-I systems (1 Airborne C2 configuration, 7 Company configurations; 5 Brigade/Battalion configuration), and one Ground Terminal, their associated hardware and warranties, as well as retrofit kits, production cut-in kits and installations for C-17 aircraft.

### Program Elements for Code B Items:

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<th>Description</th>
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### Justification:
FY06/07 funds procurement of 13 SECOMP-I systems (1 Airborne C2 configuration, 7 Company configurations; 5 Brigade/Battalion configuration), and one Ground Terminal, their associated hardware and warranties, as well as retrofit kits, production cut-in kits and installations for C-17 aircraft.
## OPA2 Cost Elements

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**REMARKS:** FY 2006/2007 funds procurement of 13 SECOMP-I systems and their associated hardware and warranties, as well as retrofit kits, production cut-in kits, and installations for C-17 aircraft.

Unit cost fluctuations are due to the three different configuration variances (Airborne C2, Brigade/Battalion, and Company).
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### Fiscal Year 07

- **Calendar Year 07**
  - Fiscal Year 07
  - Fiscal Year 08

### Fiscal Year 08

- **Calendar Year 08**

### Cost Elements

  - **C O E A E A P A U U E C O E A E A P A U U E**
  - **T V C N B R R Y N L G P T V C N B R R Y N L G P**

### Production Rates

- **M F R**
- **NAME/LOCATION**
- **MIN.**
- **1-8.5**
- **MAX.**
- **D+**
- **INITIAL**
- **REORDER**

### Administrative Lead Time

- **Prior 1 Oct**
- **After 1 Oct**
- **MFR**
- **TOTAL**

### Remarks

- **INITIAL**
- **REORDER**

---

Item No. 23  Page 5 of 5

Exhibit P-21
Production Schedule
Description:
The Defense Satellite Communications System (DSCS) provides super high frequency (SHF) wideband and anti-jam (AJ) satellite communications supporting critical national strategic and tactical command, control, communications and intelligence (C3I) requirements. It must be survivable during trans- and post-nuclear attack to support communications essential to national survival. The DSCS supports the Army warfighter as well as the unique and vital Department of Defense (DOD) and non-DOD users, as approved by the Joint Staff and/or Secretary of Defense (SECDEF). The DSCS is used in conjunction with the Terrestrial Transmissions of the Defense Information System Network (DISN) and other communications systems to provide end-to-end communications. DSCS provides the long-haul connectivity the Warfighter needs for both tactical reachback and strategic communications. These programs provide the critical bandwidth required for the Global Information Grid by developing and fielding communications systems capable of overcoming existing and projected bandwidth constraints. The DSCS provides long-haul service between the Continental United States (CONUS) and overseas locations. This program is designated as a DoD Space program.

Justification:
FY06/07 procures the installation of AN/GSC-52 Modernization Kits (MOD Kits) for DSCS Modification of in-service (MIS). DSCS-SHF Wideband Terminal completes the fielding of the Ka-Band terminals. DSCS Operations Control System (DOCS) procures hardware for the Integrated Monitoring and Power Control Subsystem (IMPCS), Replacement Radio Frequency Interconnecting System (RFIS) and Objective DSCS Operations Center (ODOC) Workstation programs. Also procures software and annualized engineering, system integration, post production software support and fielding. Digital Equipment procures the minimum sustainment of racks and components and their integration into DSCS. Interconnect Facility (ICF) will continue to accomplish Defense Information Systems Agency (DISA) and Joint Chief of Staff (JCS) directed satellite ground terminal relocations supporting alignment of US forces worldwide. National Command Authority (NCA) procures the upgrade of Direct Communications Link (DCL) between the President of the United States and leaders from Russia/Ukraine/Belarus/Kazakhstan.
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### Description:
The AN/TSC-85 and AN/TSC-93 Tactical Satellite (TACSAT) Service Life Extension Program (SLEP) and Upgrade Program is required to meet the current communications requirements of the Warfighter within the Ground Mobile Forces (GMF) segment of the Defense Satellite Communications Systems (DSCS) and is required to insure TACSAT Operational Readiness until FY2012. The Upgraded Terminals will provide the deployed Warfighters the ability to take advantage of the satellite connectivity and to provide the means for the GMF ground segment to pass effective data rates and establish effective user communication networks. These Upgraded TACSAT Terminals will support the increased communications requirements of the Combatant Commanders.

### Justification:
FY06 procures equipment components for the AN/TSC-85 and AN/TSC-93 Upgrade Program.

### Program Elements for Code B Items:

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### Exhibit P-40M, Budget Item Justification Sheet

**Appropriation/Budget Activity/Serial No:**
Other Procurement, Army /2/Communications and Electronics Equipment

**P-1 Item Nomenclature:**
GMF Enhancement (B08701)

**Program Elements for Code B Items:**

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MODIFICATION TITLE: AN/TSC-85/93 Modernization [MOD 1] 0-00-00-0000

MODELS OF SYSTEM AFFECTED: AN/TSC-85/93

DESCRIPTION/JUSTIFICATION:
The AN/TSC-85 and AN/TSC-93 Tactical Satellite (TACSAT) Service Life Extension Program (SLEP) and Upgrade Program is required to meet the current communications requirements of the Warfighter within the Ground Mobile Forces (GMF) segment of the Defense Satellite Communications Systems (DSCS) and is required to insure TACSAT Operational Readiness until FY12. The Upgraded Terminals will provide the deployed Warfighters the ability to take advantage of the satellite connectivity and to provide the means for the GMF ground segment to pass effective data rates and establish effective user communication networks. These Upgraded TACSAT Terminals will support the increased communications requirements of the Combatant Commanders. FY2006 procures equipment components for the AN/TSC-85 and 93 Upgrade Program.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:
In FY2004 the following major milestones were accomplished: (1) Upgrade of all "B" Model Terminals to "C" Models; (2) Build of "D" Model Prototype Terminals; (3) Completion of Design Testing, DISA Satellite Certification Testing and JTC Interoperability Testing; (4) Award of all production contracts for Kit components; (5) Verification and Validation of "D" Model MWO; (6) First Article approval of "D" Model Terminal; (7) Safety Certification; (8) Initiation of J-12 (DD Form 1494) Frequency Allocation process; (9) Munson Road Testing; (10) Start of install of "D" Model Kit into Signal Center Terminals. In FY2005 the scheduled major milestones are: (1) Continuation of purchase and build of Kit components; (2) Upgrade of seven Signal Center Terminals to "D" Models and commencement of "D" Model School Training Program; (3) Upgrade, fielding and New Equipment Training (NET) to the SATCOM Engineering Labs, Army Reserves PP3 Unit, ARNG PP3 Unit, 93rd Signal Brigade (Fort Gordon), 252nd Signal Company (Fort Gordon), 3rd Signal Brigade (Fort Hood) and 29th Signal BN (Fort Lewis).

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METHOD OF IMPLEMENTATION: MWO
ADMINISTRATIVE LEADTIME: 4 Months
PRODUCTION LEADTIME: 8 Months

Contract Dates: FY 2006 Feb 06
FY 2007 Feb 07
FY 2008 Feb 08

Delivery Date: FY 2006 Oct 06
FY 2007 Oct 07
FY 2008 Oct 08
# FINANCIAL PLAN: ($ in Millions)

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**Description:**
The National Command Authority (NCA), Special Communications Link program and the required modernization effort exists through a bi-lateral agreement for a 10-year user equipment modernization. This essential Priority 0 effort supports unique internal requirements that provide critical communications to support continuing peaceful relations between the U.S. President and Russia/Ukraine/Belarus/Kazakhstan leaders. The program includes the Direct Communications Link (DCL), Continuous Communications Link (CCL) and the Government-to-Government Communications Link (GGCL). Communications are for diplomatic peacekeeping, arms control and treaty verification purposes.

**Justification:**
FY06/07 procures the upgrades for the Direct Communications Link (DCL) between the President of the United States and leaders from Russia/Ukraine/Belarus/Kazakhstan to assure communications for arms control & disarmament and treaty verification.

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### Exhibit P-40, Budget Item Justification Sheet

**Appropriation/Budget Activity/Serial No:**
Other Procurement, Army /2/Communications and Electronics Equipment

**Date:**
February 2005

**P-1 Item Nomenclature:**
DSCS - JAM RESISTANT SECURE COMM (JRSC) (SPACE) (BA8300)

#### Program Elements for Code B Items:

| Description | FY06/07 procures the required system engineering and logistics support. Presently there is no other capability available to support Nuclear Command, Control and Communications (C3) missions. |

#### Justification:

### Description:
The Jam Resistant Secure Communications (JRSC) provides communications connectivity that will survive jamming and high altitude nuclear events which cause High-Altitude Electromagnetic Pulse (HEMP) and other perturbed atmospheric conditions. The other identified anti-jam systems have already been acquired. The AN/GSC-49 Service Life Extension Program (SLEP) will extend selected Nuclear Command, Control and Communications (C3) missions on legacy Defense Satellite Communications (DSCS) JRSC resources to meet the communication requirements in support of National Defense. These terminals support the President, Combatant Commanders, Global Command and Control Systems (GCCS) requirements, various DoD agencies and Defense Information Systems Network (DISN) traffic.

### Justification:

**FY06/07 procures the required system engineering and logistics support. Presently there is no other capability available to support Nuclear Command, Control and Communications (C3) missions.**


<p>| Proc Qty | 404.1 | 6.5 | 4.3 | 9.3 | 1.9 | 2.0 | 2.0 | 2.0 | 2.1 | 2.1 | 436.3 |
| Gross Cost | 404.1 | 6.5 | 4.3 | 9.3 | 1.9 | 2.0 | 2.0 | 2.0 | 2.1 | 2.1 | 436.3 |
| Less PY Adv Proc | 404.1 | 6.5 | 4.3 | 9.3 | 1.9 | 2.0 | 2.0 | 2.0 | 2.1 | 2.1 | 436.3 |
| Plus CY Adv Proc | 404.1 | 6.5 | 4.3 | 9.3 | 1.9 | 2.0 | 2.0 | 2.0 | 2.1 | 2.1 | 436.3 |
| Net Proc (P-1) | 404.1 | 6.5 | 4.3 | 9.3 | 1.9 | 2.0 | 2.0 | 2.0 | 2.1 | 2.1 | 436.3 |
| Initial Spares | | | | | | | | | | |
| Total Proc Cost | 404.1 | 6.5 | 4.3 | 9.3 | 1.9 | 2.0 | 2.0 | 2.0 | 2.1 | 2.1 | 436.3 |
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### Exhibit P-5a, Budget Procurement History and Planning

**Appropriation/Budget Activity/Serial No:**
Other Procurement, Army / 2 / Communications and Electronics Equipment

**Weapon System Type:**
DSCS - JAM RESISTANT SECURE COMM (JRSC) (SPACE) (BA8300)

**P-1 Line Item Nomenclature:**
JRSC/SLEP

**WBS Cost Elements:**
- Contract and Location
- Contractor Method and Type
- Location of PCO
- Award Date
- Date of First Deliverable
- QTY
- Unit Cost
- Specs Available
- Date Requested
- RFP Issue Date

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**REMARKS:**
WR = Work Request
Exhibit P-40, Budget Item Justification Sheet

Appropriation/Budget Activity/Serial No: Other Procurement, Army /2/Communications and Electronics Equipment

P-1 Item Nomenclature:
DSCS - MOD OF IN-SVC EQUIP (SPACE) (BB8416)

Description:
These modifications modernize the aging AN/GSC-52 Medium Terminal (MT) in support of the Horizontal Technology Integration Program for the Defense Satellite Communications System (DSCS) Super High Frequency (SHF) strategic earth terminals. The result extends the life of the terminals, increases readiness, reduces training and logistics support, conserves energy and improves maintainability. This modernization effort eliminates system obsolescence, modernizes existing equipment and provides component commonality with other existing strategic terminals. Additionally, the procurement of the ground segment in support of Wideband Gapfiller Satellite System (WGS) was initiated in Prior years. These systems will augment/extend the long-haul transmission capabilities of the Defense Information Systems Network (DISN) and are vital to DoD and Non-DoD users worldwide. The AN/TSC-85 and TSC-93 Tactical Satellite (TACSAT) Service Life Extension Program (SLEP) and Upgrade Program is required to meet the current communications requirements of the warfighter within the Ground Mobile Forces (GMF) segment of DSCS. Starting in FY2004 funding for the AN/TSC-85 and TSC-93 modifications are now reflected in the GMF Enhancements justification material (SSN B08701).

Justification:
FY06/07 procures the continuation of the installation of the AN/GSC-52 Modernization Kits which provides the long-haul connectivity the Warfighter needs for strategic communications and reachback capability.

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| Description: These modifications modernize the aging AN/GSC-52 Medium Terminal (MT) in support of the Horizontal Technology Integration Program for the Defense Satellite Communications System (DSCS) Super High Frequency (SHF) strategic earth terminals. The result extends the life of the terminals, increases readiness, reduces training and logistics support, conserves energy and improves maintainability. This modernization effort eliminates system obsolescence, modernizes existing equipment and provides component commonality with other existing strategic terminals. Additionally, the procurement of the ground segment in support of Wideband Gapfiller Satellite System (WGS) was initiated in Prior years. These systems will augment/extend the long-haul transmission capabilities of the Defense Information Systems Network (DISN) and are vital to DoD and Non-DoD users worldwide. The AN/TSC-85 and TSC-93 Tactical Satellite (TACSAT) Service Life Extension Program (SLEP) and Upgrade Program is required to meet the current communications requirements of the warfighter within the Ground Mobile Forces (GMF) segment of DSCS. Starting in FY2004 funding for the AN/TSC-85 and TSC-93 modifications are now reflected in the GMF Enhancements justification material (SSN B08701). |

| Justification: FY06/07 procures the continuation of the installation of the AN/GSC-52 Modernization Kits which provides the long-haul connectivity the Warfighter needs for strategic communications and reachback capability. |

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<td>P-1 Item Nomenclature: DSCS - MOD OF IN-SVC EQUIP (SPACE) (BB8416)</td>
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<td>Description: These modifications modernize the aging AN/GSC-52 Medium Terminal (MT) in support of the Horizontal Technology Integration Program for the Defense Satellite Communications System (DSCS) Super High Frequency (SHF) strategic earth terminals. The result extends the life of the terminals, increases readiness, reduces training and logistics support, conserves energy and improves maintainability. This modernization effort eliminates system obsolescence, modernizes existing equipment and provides component commonality with other existing strategic terminals. Additionally, the procurement of the ground segment in support of Wideband Gapfiller Satellite System (WGS) was initiated in Prior years. These systems will augment/extend the long-haul transmission capabilities of the Defense Information Systems Network (DISN) and are vital to DoD and Non-DoD users worldwide. The AN/TSC-85 and TSC-93 Tactical Satellite (TACSAT) Service Life Extension Program (SLEP) and Upgrade Program is required to meet the current communications requirements of the warfighter within the Ground Mobile Forces (GMF) segment of DSCS. Starting in FY2004 funding for the AN/TSC-85 and TSC-93 modifications are now reflected in the GMF Enhancements justification material (SSN B08701).</td>
<td>Justification: FY06/07 procures the continuation of the installation of the AN/GSC-52 Modernization Kits which provides the long-haul connectivity the Warfighter needs for strategic communications and reachback capability.</td>
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| Item No. 24 Page 11 of 33 | Exhibit P-40 Budget Item Justification Sheet |
|--------------------------------------------|--------------|-----------|---------|---------|---------|---------|---------|---------|---------|----|-------|
| Ka-Band Satellite Earth Terminals (SET)    |              |           |         |         |         |         |         |         |         |    |       |
| 0-00-00-0000                               |              | 34.9      | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |    | 34.9  |
| AN/GSC-52 Modernization                    |              |           |         |         |         |         |         |         |         |    |       |
| 1-89-07-0030                               |              | 179.2     | 16.2    | 10.5    | 11.3    | 2.0     | 2.0     | 1.0     | 1.0     |    | 223.2 |
| AN/TSC-85/93 Modernization                 |              |           |         |         |         |         |         |         |         |    |       |
| 0-00-00-0000                               |              | 16.7      | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |    | 16.7  |
| Terminal Modernization                     |              |           |         |         |         |         |         |         |         |    |       |
| 1-89-07-0005                               |              | 291.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |    | 291.0 |
| Totals                                     |              | 521.8     | 16.2    | 10.5    | 11.3    | 2.0     | 2.0     | 1.0     | 1.0     |    | 565.8 |

DSCS - MOD IN-SVC EQUIP (SPACE)
AN/GSC-52 Modernization contract was awarded in FY98 to develop the modernization kit which includes common hardware and software. It eliminates some component obsolescence by replacing existing RF equipment and antenna subsystem components. It provides commonality with existing terminals (AN/GSC-39 & AN/FSC-78) and the modernization also developed a common Control Alarm and Monitor (CMA) subsystem. No RDTE proceeded this program.

### Installation Schedule:

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### Method of Implementation:

- **MWO**
- **ADMINISTRATIVE LEADTIME:** 3 Months
- **PRODUCTION LEADTIME:** 30 Months

### Contract Dates:

- FY 2006
- FY 2007
- FY 2008

### Delivery Date:

- FY 2006
- FY 2007
- FY 2008

---

**AN/GSC-52 Modernization**

MODIFICATION TITLE: AN/GSC-52 Modernization [MOD 2] 1-89-07-0030

MODELS OF SYSTEM AFFECTED: AN/GSC-52

DESCRIPTION/JUSTIFICATION:

AN/GSC-52 Modernization contract was awarded in FY98 to develop the modernization kit which includes common hardware and software. It eliminates some component obsolescence by replacing existing RF equipment and antenna subsystem components. It provides commonality with existing terminals (AN/GSC-39 & AN/FSC-78) and the modernization also developed a common Control Alarm and Monitor (CMA) subsystem. No RDTE proceeded this program.
## INDIVIDUAL MODIFICATION

**MODIFICATION TITLE (Cont):** AN/GSC-52 Modernization [MOD 2] 1-89-07-0030

**Date:** February 2005

### FINANCIAL PLAN: ($ in Millions)

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BB8500 (BB8416)
DSCS - MOD OF IN-SVC EQUIP (SPACE)
Item No. 24 Page 14 of 33
Exhibit P-3a
Individual Modification
### Exhibit P-40, Budget Item Justification Sheet

**Date:** February 2005

**Exhibit P-40, Budget Item Justification Sheet**

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**Description:**
The Digital Communications Satellite Subsystem (DCSS) is the diverse array of baseband equipment found at nearly every DoD fixed earth terminal site operating with the Defense Satellite Communications System (DSCS) X-band satellites. With the ongoing deployments of six DoD Teleports, the DCSS also supports the baseband needs of satellite systems operating in the Ka, Ku, C, EHF and UHF bands. When the Wideband Gapfiller System (WGS) satellites are launched, the DCSS role will further expand. The DSACS and future WGS are integral parts of the Global Information Grid (GIG). The Army DSCS and WGS programs are responsible for procuring the ground segment portion of all strategic satellite communications systems. The DCSS is a key element of the Standardized Tactical Entry Point (STEP) and DoD Teleport sites that provide the deployed Warfighters with global connectivity with each other and with every echelon of command, including strategic commanders, combatant commanders, the Pentagon and reach-back to their sustaining bases. DCSS equipment accepts voice frequency and digital data from terrestrial networks, telephone switches and microwave systems, including those providing access to the Defense Information System Network (DISN) services. The DCSS aggregates and converts such data into signals suitable for transmission via earth terminals to geosynchronous satellites for worldwide distribution. The multiplexing, modulation, coding, transmission security and anti-jamming equipment which comprises the DCSS is mounted in standard modular rack configurations that can be installed in various combinations to serve the specific communications mission of each earth terminal complex. The DCSS racks are housed in buildings or in transportable vans at sites worldwide. The DCSS includes both manual and automated patching facilities to ensure flexible and efficient utilization of both ground equipment and satellite resources. Since its inception in 1977, the DCSS has continually evolved to counter obsolescence, accommodate increased traffic demand and implement new services required by the Warfighters. DCSS equipment now being phased in supports the objectives of Joint Vision 2020, the Global Information Grid (GIG) and the ongoing Global War on Terrorism. The DCSS will be a vital part of the Transformational Communications Program-SATCOM (TCP-SATCOM).

**Justification:**
FY06/07 procures the minimum sustainment of baseband racks and their integration into the DSCS. These racks support the Joint Chief of Staff (JCS) validated Combatant Commanders/Service long haul communication requirements and the Global War on Terrorism initiatives. FY06/07 continues to fund Multiplexer Integration and DCSS Automation System (MIDAS) which provides backward compatibility with the existing tactical infrastructure while providing technology insertion. FY06/07 also continues the procurement of the Enhanced Bandwidth Efficient Modem (EBEM) which provides greater utilization of limited satellite resources.
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**REMARKS:**
- TYAD = TOBYHANNA ARMY DEPOT
- EEBM = ENHANCED BANDWIDTH EFFICIENT MODEM
- MIDAS = MULTIPLEXER INTEGRATION & DCSS AUTOMATION SYSTEM
- MIDAS sites are each configured differently.
- ECO = ENGINEERING CHANGE ORDER
### Exhibit P-5a, Budget Procurement History and Planning

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**Remarks:**
- WR = WORK REQUEST
- TYAD = TOBYHANNA ARMY DEPOT
- EBEM = ENHANCED BANDWIDTH EFFICIENT MODEM
- MIDAS = MULTIPLEXER INTEGRATION & DCSS AUTOMATION SYSTEM
- MIDAS sites are each configured differently.
- ECO = ENGINEERING CHANGE ORDER
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**REMARKS**

NO PROCUREMENT LEAD TIME FOR DCSS EQUIPMENT WORK EFFORT FOR SITE UPGRADES AND RACK FABRICATIONS ACCOMPLISHED BY TOBYHANNA ARMY DEPOT.
## FY 06 / 07 BUDGET PRODUCTION SCHEDULE

**P-1 Item Nomenclature:**
DSCS - DIGITAL EQUIPMENT (SPACE) (BB8501)

**Date:**
February 2005

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#### DCSS Equipment Racks and Fabrication

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**Remarks:**
No procurement lead time for DCSS equipment - work effort for site upgrades and rack fabrications accomplished by Tobyhanna Army Depot.
## FY 08 / 09 BUDGET PRODUCTION SCHEDULE

### Fiscal Year 08

| Calendar Year | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
|---------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| **DCSS Equipment Racks and Fabrication** |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 1 FY 04 | A | 196 | 196 | 0 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 1 FY 05 | A | 77  | 77  | 0 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 1 FY 06 | A | 25  | 25  | 0 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 1 FY 07 | A | 38  | 33  | 5 | 1   | 2   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| **DCSS Safety-Equip Racks & Fabrication** |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 1 FY 04 | A | 93  | 93  | 0 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| **Gapfiller Baseband System** |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 2 FY 04 | A | 1   | 1   | 0 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| **EBEM** |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 3 FY 04 | A | 204 | 204 | 0 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 3 FY 06 | A | 100 | 100 | 0 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 3 FY 07 | A | 100 | 100 | 0 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | 40 | 40 | 20 |
| **MIDAS** |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 4 FY 04 | A | 12  | 12  | 0 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 4 FY 05 | A | 3   | 3   | 0 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 4 FY 06 | A | 3   | 3   | 0 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 4 FY 07 | A | 3   | 3   | 0 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | 2 | 1 |
| **Total** | 855 | 747 | 108 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |

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### Remarks
- NO PROCUREMENT LEAD TIME FOR DCSS EQUIPMENT - WORK EFFORT FOR SITE UPGRADES AND RACK FABRICATIONS ACCOMPLISHED BY TOBYHANNA ARMY DEPOT.
# Exhibit P-40, Budget Item Justification Sheet

## Appropriation/Budget Activity/Serial No:
- Other Procurement, Army /2/Communications and Electronics Equipment

## P-1 Item Nomenclature
- DSCS - INTERCONNECT FACILITY (SPACE) (BB8504)

### Program Elements for Code B Items:

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### Justification:

**Description:**
This program executes the Army's responsibility to install and relocate strategic Defense Satellite Communications System (DSCS) satellite communications earth terminals procured by Product Manager, DSCS Terminals and digital communications equipment procured and packaged by Assistant Project Manager, Digital Communications Satellite Subsystem. For the Army, this program also designs, procures and installs the interconnection facility to interface this equipment with existing Technical Control and Special User Facilities.

**Justification:**
FY06/07 procures equipment in support of the Defense Information Systems Agency (DISA) and Joint Chiefs of Staff (JCS) directed satellite ground terminal relocations supporting the realignment of US forces worldwide. Installation of equipment provides the necessary reachback capabilities and secure satellite communications infrastructures for the deployed units supporting Operation Enduring and Iraqi Freedom. Changes in overseas Manning, troop dispositions, and reachback requirements necessitate a flexibility in the deployment of the strategic ground resources.
### OPA2 Cost Elements

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### Description:
The Defense Satellite Communications System (DSCS) Operations Control System (DOCS) provides for the management of DSCS and Wideband Gapfiller earth terminal and satellite resources, which are required for rapid and efficient reaction to operational needs in support of the warfighter. State-of-the-art strategic satellite payload network control and planning systems for use with DSCS, Wideband Gapfiller, and commercial satellite systems are procured and installed at Wideband Satellite Operation Centers worldwide. Payload control functions control and configure the satellites. Network control functions manage communications between operators and processors, generate and drive display formats, and maintain and provide rapid access to the network databases. The Army’s effort to digitize forces has created a tremendous increase in demand for bandwidth. The DOCS systems ensure efficient use of satellite power and resources, overcoming existing and projected bandwidth constraints, and allowing U.S. forces to achieve information superiority on the battlefield. DOCS also provides reliable satellite communications networks to support unique user mission requirements vital to national security under stressed and unstressed conditions. The Objective DOCS (ODOCS) will modernize existing DOCS subsystems. It will replace the existing (largely manual) control system, provide enhanced control, and increase overall system availability for additional user requirements and missions, without increased operations and maintenance costs.

### Justification:
FY06/07 procures hardware quantities and installation for the Integrated Monitoring and Power Control Subsystem (IMPCS) and Gapfiller Satellite Configuration Control Element (GSCCE) programs. IMPCS provides a U.S. and NATO positive control standard for SATCOM control and monitoring for use over military and commercial satellites. IMPCS provides automatic power control of satellite communication links for tactical and strategic users. It supports the Army’s increased bandwidth demands by allowing operation of links with reduced power margins without sacrificing link quality. The result is more carriers/throughput at reduced power levels. GSCCE provides real time monitoring and control of the communications payload for the Wideband Gapfiller satellites. FY06/07 also procures software, engineering changes, system integration, and fielding support of current and prior year procurements.
### Exhibit P-5, Weapon OPA2 Cost Analysis

#### Appropriation/Budget Activity/Serial No.
- Other Procurement, Army / 2 / Communications and Electronics Equipment

#### P-1 Line Item Nomenclature:
- DSCS - OPERATIONS CONTROL SYS (DOCS) (SPACE) (BB8509)

#### Weapon System Type:

#### Date:
- February 2005

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BB8500 (BB8509)

DSCS - OPERATIONS CONTROL SYS (DOCS) (SPACE)
## Exhibit P-5a, Budget Procurement History and Planning

**Appropriation/Budget Activity/Serial No:** Other Procurement, Army / 2 / Communications and Electronics Equipment  
**Weapon System Type:** DSCS - OPERATIONS CONTROL SYS (DOCS) (SPACE) (BB8509)  
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**REMARKS:**  
- IMPCS - Integrated Monitoring and Power Control System  
- GSCCE - Gapfiller Satellite Configuration Control Element  
- ODOC - Objective DSCS Operations Center  
- RRFIS - Replacement Radio Frequency Interconnecting System
### FY 04 / 05 BUDGET PRODUCTION SCHEDULE

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**Remarks**

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| BB8500 (BB8509) | DSCS - OPERATIONS CONTROL SYS (DOCS) (SPACE) | Item No. 24 | Page 29 of 33 | Exhibit P-21 | Production Schedule |
## Exhibit P-40, Budget Item Justification Sheet

### Appropriation/Budget Activity/Serial No:
Other Procurement, Army /2/Communications and Electronics Equipment

### P-1 Item Nomenclature
DSCS - SHF Wideband Terminal (BB8511)

### Program Elements for Code B Items:

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### Description:
Wideband Gapfiller Satellite (WGS) program is required to meet the current and emerging communications requirements of the warfighter and to augment the DSCS III/Service Life Extension Program (SLEP) Ground Communications System. The Ka-Band terminals will provide the deployed Warfighters the ability to take advantage of the increased satellite connectivity and provide the means for the WGS Control Segment to control Gapfiller payloads and user communications networks. The new Ka-Band terminals will support the increased communications requirements of the Combatant Commanders. This system will augment the long-haul transmission capabilities of the Defense Information Systems Network (DISN) and are vital to DoD and Non-DoD users worldwide.

### Justification:
FY06/07 procures the completion of fieldings of the Ka Band terminals to ensure the Warfighter can meet the emerging requirements database validated by the Joint Chiefs of Staff and take advantage of the Gapfiller enhancements.
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**REMARKS:**

BB8500 (BB8511)

DSCS - SHF Wideband Terminal
# FY 04 / 05 BUDGET PRODUCTION SCHEDULE

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- REORDER

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**Exhibit P-40, Budget Item Justification Sheet**

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**Description:**
A contract was awarded to L3 Communications - West in April 2003 by PM WIN-T to satisfy critical operational requirements for tactical Super High Frequency (SHF) capability as articulated in validated Operational Needs Statements (ONS). The requirements will be satisfied via the multi-band SHF terminal, providing C, X, and Ku-Band satellite communications capability, and operating over commercial and military SHF satellites. The SHF terminal will satisfy tactical, highly mobile, command and control, intelligence, fire support, air defense and logistics wideband communications requirements in support of Army and multi-service users. The SHF terminal will be integrated on the Expanded Capability Vehicle (ECV) and is being upgraded to include Ka-Band capability in FY05. Full Rate Production (FRP) for the Phoenix SHF Tri-Band Terminal Program was approved 30 Jul 2004. Plan to procure Phoenix SHF Quad-Band Terminals beginning July 2005. Procurement Goal APO is 50 Phoenix SHF Terminals; procurement of 47 Phoenix SHF Terminals is planned through FY07. This program is designated as a DoD Space Program.

**Justification:**
FY06/07 procures 20 tactical SHF Quad-Band Terminals and fields prior year procurements. HQDA has validated the operational need and directed procurement of a SHF terminal to meet urgent, near term reachback requirements. The SHF terminal will provide a highly mobile, strategically transportable, wideband communications capability which will significantly enhance the warfighter's intra- and inter-theater communications.
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## Exhibit P-5a, Budget Procurement History and Planning

### Appropriation/Budget Activity/Serial No:
Other Procurement, Army / 2 / Communications and Electronics Equipment

### Weapon System Type:

### P-1 Line Item Nomenclature:

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- SHF TERM
- Exhibit P-5a

Item No. 25 Page 3 of 6
**FY 04 / 05 BUDGET PRODUCTION SCHEDULE**

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Five (5) terminals delivered May 04 and one (1) terminal delivered Sep 04, upon completion of First Article Test (FAT).
### FY 06 / 07 BUDGET PRODUCTION SCHEDULE

**Date:** February 2005

#### Fiscal Year 06

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**COST ELEMENTS**

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**SHF Terminals**

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**Total**

47 20 27

**MFR**

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<td>MAX.</td>
<td>D+</td>
<td>Prior 1 Oct</td>
<td>After 1 Oct</td>
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BA9350
SHF TERM

Item No. 25  Page 5 of 6  Exhibit P-21

Production Schedule
## FY 08 / 09 BUDGET PRODUCTION SCHEDULE

**Date:** February 2005

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### Calendar Year 08

| MFR | NAME/LOCATION | MIN. | 1-8.5 | MAX. | D+ | INITIAL | REORDER | INITIAL | REORDER | INITIAL | REORDER | INITIAL | REORDER | INITIAL | REORDER | INITIAL | REORDER |
|-----|----------------|------|-------|------|----|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
|     | L3 Communications - West, Salt Lake City, UT | 1.00 | 4.00  | 8.00 | 0  | INITIAL | REORDER | INITIAL | REORDER | INITIAL | REORDER | INITIAL | REORDER | INITIAL | REORDER | INITIAL | REORDER |

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### Production Schedule

**COST ELEMENTS**

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<tbody>
<tr>
<td>Exhibit P-21</td>
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<tr>
<td>Production Schedule</td>
</tr>
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</table>

**Total:** 47 37 10 4 4 2

**Remarks:**

- Army Reserve - 0
- National Guard - 0

Five (5) terminals delivered May 04 and one (1) terminal delivered Sep 04, upon completion of First Article Test (FAT).
**Exhibit P-40, Budget Item Justification Sheet**

**Appropriation/Budget Activity/Serial No:**
Other Procurement, Army 2/Communications and Electronics Equipment

**P-1 Item Nomenclature:**
SAT TERM, EMUT (SPACE) (K77200)

**Program Elements for Code B Items:**

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<th>Other Related Program Elements:</th>
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| Date: | February 2005 |

**Program Elements for Code B Items: Fiscal Years 2003 - 2011**

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**Description:**
The Enhanced Manpack UHF Terminal (i.e., EMUT and also known as SPITFIRE) program replaces the existing inventory of single channel Satellite Communication (SATCOM) radios to add embedded Communications Security (COMSEC), and Demand Assigned Multiple Access (DAMA) capability to support all DoD, Special Operations Forces (SOF) and other Agencies. The SPITFIRE is a small, lightweight manpack radio that provides the reach-back capability between the forward deployed force and the Continental United States sustaining base required to support power projection. The Joint Staff (JS) has mandated that all UHF satellite manpack terminals be secure and have DAMA capability. The Army has designated the SPITFIRE terminal as the standard UHF Satellite Terminal for the current force. The SPITFIRE possesses the UHF DAMA capability which allows more efficient use of limited satellite resources. Additionally, the SPITFIRE Terminal has been selected to provide Narrowband Range Extension of both voice and data to Mobile Tactical Vehicles. The unique Narrowband Range Extension capability, through the SATCOM-On-The-Move (SOTM) functionality, allows extension of both voice and data to occur in moving vehicular platforms (versus stationary). This system supports the Stryker Brigade Combat Team (SBCT). This program is considered a DoD Space Program.

**Justification:**
FY06 procurement supports SATCOM on the Move (SOTM) fieldings for SBCT6, 4ID, III Corps, and 1st Cav based on equipment and troop rotation. FY06/07 procures urgently needed DAMA sustainment training for enhanced network multiplexing in support of Battle Command.
# Exhibit P-5, Weapon
## OPA2 Cost Analysis

**Appropriation/Budget Activity/Serial No.**
- Other Procurement, Army / 2 /
- Communications and Electronics Equipment

**P-1 Line Item Nomenclature:**
- SAT TERM, EMUT (SPACE) (K77200)

**Weapon System Type:**
- Date: February 2005

### OPA2 Cost Elements

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<td>Qty</td>
<td>UnitCost</td>
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<tr>
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<td>$000</td>
<td>Each $000</td>
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**K77200**
**SAT TERM, EMUT (SPACE)**

Item No. 26  Page 2 of 3

Exhibit P-5

Weapon System Cost Analysis
**Exhibit P-5a, Budget Procurement History and Planning**

**Appropriation/Budget Activity/Serial No:** Other Procurement, Army / 2 / Communications and Electronics Equipment

**Weapon System Type:** SAT TERM, EMUT (SPACE) (K77200)

**P-1 Line Item Nomenclature:** Other Procurement, Army / 2 / Communications and Electronics Equipment

**Other Hardware (SOTM)**

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<th>Location of PCO</th>
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<th>Specs Avail Now?</th>
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<td>July 05</td>
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**REMARKS:** The Spitfire AN/PSC-5 production contract deliveries were completed in Jun 02. Spitfire radio upgrades were acquired from Raytheon in FY02 and FY03 which will be installed in FY04/05/06 via a field Modification Work Order. The SOTM upgrade equipment consists of off-the-shelf hardware procured from several vendors and integrated by BAE Systems (Chesapeake, VA).
**Description:**
The Navstar Global Positioning System (GPS) is a passive, space-based, radio positioning and navigation system providing precise, three-dimensional position, navigation, velocity and timing information to warfighters. The Navstar GPS program is designated as a DoD Space Program and the United States Air Force (USAF) is the executive service. The USAF develops GPS User Equipment (PE 35164F) at the GPS Joint Program Office (JPO) with Army participation. The Army's Navstar GPS program provides for management, procurement, fielding, and support of GPS User Equipment developed by and largely procured through the Joint Program Office. GPS User Equipment consists of a family of receivers supporting both handheld and host platform environments. GPS receivers provide critical information to commanders, staff and Soldiers enabling increased lethality, dominant maneuver, precision strike, situational awareness and information dominance/superiority functions that will enhance the technologies to support the future Army. GPS User Equipment includes Army aviation users, ground users and host vehicles. Current/Future GPS User Equipment will be in both handheld (Defense Advanced GPS Receiver [DAGR]) and platform embedded (GPS Receiver Applications Module [GRAM]) forms. The DAGR has been designated a Horizontal Technology Integration (HTI) program and provides essential capabilities to numerous weapon systems and platforms. This program has been designated as a DoD Space Program.

**Justification:**
FY06/07 procures and fields the Defense Advanced GPS Receiver (DAGR).

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**K47800**
NAVSTAR GLOBAL POSITIONING SYSTEM (SPACE)
# Exhibit P-5, Weapon
## OPA2 Cost Analysis

**Appropriation/Budget Activity/Serial No.:**
- Other Procurement, Army / 2 /
- Communications and Electronics Equipment

**P-1 Line Item Nomenclature:**
- NAVSTAR GLOBAL POSITIONING SYSTEM (SPACE) (K47800)

**Weapon System Type:** NAVSTAR GLOBAL POSITIONING SYSTEM (SPACE) (K47800)

**Date:** February 2005

## OPA2 Cost Elements

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**Other Procurement, Army / 2 / Communications and Electronics Equipment**

**NAVSTAR GLOBAL POSITIONING SYSTEM (SPACE) (K47800)**

**Weapon System Cost Analysis**
## Exhibit P-5a, Budget Procurement History and Planning

**Appropriation/Budget Activity/Serial No:** Other Procurement, Army / 2 / Communications and Electronics Equipment

**Weapon System Type:** NAVSTAR GLOBAL POSITIONING SYSTEM (SPACE) (K47800)

**P-1 Line Item Nomenclature:** Other Procurement, Army / 2 / Communications and Electronics Equipment

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**Defense Advanced GPS Receiver & Accessor**

**PLGR Receiver**

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### FY 06 / 07 BUDGET PRODUCTION SCHEDULE

**P-1 Item Nomenclature:** NAVSTAR GLOBAL POSITIONING SYSTEM (SPACE) (K47800)

**Date:** February 2005

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**Defense Advanced GPS Receiver & Accessor**

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### Remarks

- Initial
- Reorder
- Production Schedule
**Exhibit P-40, Budget Item Justification Sheet**

**Appropriation/Budget Activity/Serial No:**
Other Procurement, Army /2/Communications and Electronics Equipment

**P-1 Item Nomenclature**
SMART-T (SPACE) (BC4002)

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**Description:**
Secure Mobile Anti-Jam Reliable Tactical Terminal (SMART-T) is a multi-channel satellite terminal required to support a Force Projection Army. The SMART-T provides a range extension capability for the Army's current and future tactical communications networks. The SMART-T provides a robust, protected satellite interface to permit uninterrupted communications as our advancing forces move beyond the line-of-sight of terrestrial systems. The SMART-T improves the battlefield Command, Control, and Communications capability. SMART-T provides connectivity between the current force MSE Node Centers (NC), Large Extension Nodes (LEN), Small Extension Nodes (SEN), and Remote Radio Access Units (RAU) as well as the WIN-T for the network future force, to support Army Units of Action and Units of Engagement as well as Special Contingency Operations. The prime mover is a High Mobility Multi-Purpose Wheeled Vehicle (HMMWV) configured with all the electronics and the self-erectable antenna. The SMART-T operates at the Extremely High Frequency (EHF) band and receives in Super High Frequency (SHF) band. The terminal operates at both Medium Data Rate (MDR) and Low Data Rate (LDR). The terminal is designed for unattended operation. SMART-T provides the security, mobility, and anti-jam capability required to defeat the threat to assured communications and satisfy the critical need for robust, secure, beyond line of sight communications. SMART-T provides low probability of interception and low probability of detection (LPI/LPD) to avoid being targeted for destruction, jamming or eavesdropping. The SMART-T provides fully interoperable communications with the MILSTAR terminals of other services. SMART-T terminals are being upgraded to use Advanced EHF (AEHF) satellites. The AEHF upgrade to SMART-T provides a four-fold increase in communication capacity over the current SMART-T. The upgraded AEHF SMART-T supports communications on the AEHF Waveform, and retains full backward compatibility with LDR and MDR Waveforms, UHF Follow-On (UFO) and Fleet SATCOM EHF Package (FEP) satellites. This program is designated as a DoD Space Program.

**Justification:**
FY06 procures fielding support, logistics and training for prior year procurements. FY07 procures SMART-T Advanced Extremely High Frequency (AEHF) upgrade kits and fielding support, logistics and training for prior years. FY07 is the initial AEHF upgrade kit buy to upgrade fielded SMART-Ts to AEHF.
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## Exhibit P-5a, Budget Procurement History and Planning

**Appropriation/Budget Activity/Serial No:**
Other Procurement, Army / 2 / Communications and Electronics Equipment

**Weapon System Type:**
SMART-T (SPACE) (BC4002)

**P-1 Line Item Nomenclature:**
SMART-T (SPACE) (BC4002)

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- **Contract Method and Type**
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  - SS/OPT
  - SS/FP
- **Location of PCO**
  - CECOM
- **Award Date**
  - Feb 04
  - Feb 05
  - Jan 07
- **Date of First Delivery**
  - May 05
  - May 06

### NOTES:
1. The Feb 04 (FY04) terminal buy also includes one terminal to replace a terminal destroyed in SWA. The total FY04 buy is 48 terminals with this replacement terminal.
2. The AAO SMART-T terminal buy was completed following the Feb 05 award. The Jan 07 (FY07) buy reflects the initial procurement of the AEHF terminal upgrade kits.
3. The unit of measure for SMART-T is the terminal. As a result, the FY07 AEHF upgrade kit quantity and unit price are not displayed on the P-Form.
FY 04 / 05 BUDGET PRODUCTION SCHEDULE

### P-1 Item Nomenclature:
SMART-T (SPACE) (BC4002)

### Date:
February 2005

### FY 04 / 05 BUDGET PRODUCTION SCHEDULE

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Total: 185

#### Remarks

141 terminals were procured for the Army and Air Force during the FY96-FY99 timeframe; these terminals have been delivered. First delivery on FY03 terminal reorder is 17 months per contract.

FY04 terminal buy includes one terminal to replace terminal destroyed in SWA. Total FY04 buy is 48 terminals with this replacement terminal.
### FY 06 / 07 BUDGET PRODUCTION SCHEDULE

**P-1 Item Nomenclature:** SMART-T (SPACE) (BC4002)  
**Date:** February 2005

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**Total:** 185 92 93

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**REMARKS**

141 terminals were procured for the Army and Air Force during the FY96-FY99 timeframe; these terminals have been delivered. First delivery on FY03 terminal reorder is 17 months per contract. FY04 terminal buy includes one terminal to replace terminal destroyed in SWA. Total FY04 buy is 48 terminals with this replacement terminal.
### Program Elements for Code B Items:

| Description | FY06 procures training support to Units with fielded terminals and continues Warranty Review Board efforts. |

### Justification:

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<th>Code</th>
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### Budget Item Justification Sheet

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**Description:**

The SCAMP Terminal provides a manportable, four simultaneous channel, full duplex data/half duplex voice communications and data transfer system at 2400 bps each. These satellite terminals are employed by units that require range extension for command and control communications. SCAMP provides priority tactical ground users with the capability to transmit and receive intelligence, command, and control traffic from a base station. It transmits in the Extremely High Frequency (EHF) band and receives in the Super High Frequency (SHF) band. It provides Low Data Rate (LDR) secure voice at 2400 bps and secure data at 75-2400 bps, as well as interface with Common Hardware/Software devices such as the Lightweight Computer Units and the Hand-Held Terminal Unit. The SCAMP is fully interoperable within the Army C4I Technical Architecture. The terminal has embedded COMSEC and TRANSEC with set-up and tear-down in less than 10 minutes. In addition to operation on Milstar satellites, the SCAMP will operate on all satellites which utilize the MIL-STD-1582C/D LDR waveform. It operates in environmental conditions that include smoke, aerosol, rain, fog, snow, haze and dust, and operates in the transmit, receive or stand-by mode throughout an entire mission (typically 30 days). SCAMP is the first EHF manportable terminal and provides direct support to the tactical warfighter mobile forces with greater anti-jam protection, lower probability of intercept, and lower probability of detection. Army SCAMP terminals are designated for Commanders at Division and Above levels. SCAMP provides manportable EHF/LDR communications using the on-orbit satellites, and future launches. This program is designated as a DoD Space Program.

**Justification:**

FY06 procures training support to Units with fielded terminals and continues Warranty Review Board efforts.
### Description:
Global Broadcast Service (GBS) is a Joint Program that responds to the need for a high-speed, one-way broadcast of high volume multi-media information to users world-wide. GBS is the primary means of rebroadcasting theater Unmanned Arial Video (UAV) products to deployed users supporting Operation Iraqi Freedom (OIF) and Operation Enduring Freedom (OEF). GBS provides deployed users access to national level repositories of intelligence products and other critical mission planning tools. The Army designated GBS as stay behind equipment in OIF and OEF. The result of designating GBS as theater stay behind equipment is affecting unit rotation preparation due to the lack of available equipment to support predeployment.

The Air Force (AF) was designated as the service executive and leads the Joint Program Office (JPO). In FY03, the Office of Secretary of Defense directed the change of the GBS system architecture from Asynchronous Transfer Mode (ATM) to Internet Protocol (IP). This directive requires the upgrade of all ATM hardware and ends all existing support of the ATM hardware and software 30 Sep 05. The JPO will continue to support both an ATM and IP broadcast under simulcast operations until 30 Sep 05. The Services are attempting to extend the ATM broadcast operation until 30 Sep 06. This extension would allow the Army to field deploying OIF/OEF units with the IP GBS hardware. The ATM equipment is not compatible with the IP broadcast nor is it Operational Requirements Document (ORD) compliant. The IP hardware will provide increased performance, reliability, and maintainability for GBS users. The IP broadcast will provide users ready access to information products via more efficient use of available bandwidth. The Army supports the GBS JPO for the development of and procurement of the Transportable Ground Receive Suite (TGRS) and the Theater Injection Point (TIP). The IP GBS TGRS consists of a Receive Broadcast Manager (RBM) and a small satellite antenna, the Next Generation Receive Terminal (NGRT). The antenna receives and sends a downlink signal to the RBM for processing and distribution to the Local Area Network (LAN) end user. GBS is designated as a Space System and the combination of the NGRT and the IP RBM provides an ORD compliant TGRS. The TIP consists of a Theater Satellite Broadcast Manager (TSBM) that builds the product broadcast and a Tactical Theater Injector (TTI) that transmits the data stream to the satellite. The TIP provides an in-theater injection capability to the GBS architecture distributing vital Joint Task Force Commanders' in-theater information to TGRS. The ATM TSBM is not compatible with the IP broadcast and will be upgraded to IP. The Army will continue to use the two existing TTIs with the IP TSBMs.

### Justification:
FY06/07 procures 59 and 62 TGRS, respectively. The TGRS procurement will procure equal numbers of IP RBMs and NGRTs for each FY. FY06/07 procurements will provide direct support to units deploying to OEF/OIF. This procurement continues toward meeting the Army’s Authorized Acquisition Objective (AAO) of 551 ORD compliant TGRS and three TIPs.
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## Exhibit P-5a, Budget Procurement History and Planning

**Appropriation/Budget Activity/Serial No:** Other Procurement, Army / 2 / Communications and Electronics Equipment

**Weapon System Type:** GLOBAL BRDCST SVC - GBS

**P-1 Line Item Nomenclature:** BC4120

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**REMARKS:** FY05 NGRT & FY06/7 TGRS price increase includes a second laptop for unclassified products.
## FY 04 / 05 BUDGET PRODUCTION SCHEDULE

**P-1 Item Nomenclature:**
GLOBAL BRDCST SVC - GBS (BC4120)

**Date:**
February 2005

### Fiscal Year 04

| Item No. 30 Page 4 of 6 | Exhibit P-21 Production Schedule |

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**Production line shared with other Services.**
## Fiscal Year 06

### Calendar Year 06

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|----|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|

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| O  | N       | D   | E   | A   | M   | Y   | J   | U   | G   | S   | P   | O   | N   | D   | E   | A   | M   | Y   | J   | U   | G   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|----|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|

| 1  | FY 04   | A   | 23  | 23  | 0   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|    | FY 05   | A   | 42  | 42  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |

| 2  | FY 04   | A   | 16  | 32  | 32  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|    | FY 05   | A   | 16  | 32  | 32  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |

### Production Rates

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<th>MFR Number</th>
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<th>TOTAL</th>
<th>REMARKS</th>
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**Remarks:**

- Production line shared with other Services.
### FY 08 / 09 BUDGET PRODUCTION SCHEDULE

**COST ELEMENTS**

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<th>BAL DUE AS OF 1 OCT</th>
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</table>

**Transportable Ground Receive Suite**

<table>
<thead>
<tr>
<th>MFR</th>
<th>NAME/LOCATION</th>
<th>MIN.</th>
<th>1-8.5</th>
<th>MAX.</th>
<th>D+</th>
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<tbody>
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<td>8.00</td>
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**Next Generation Receive Terminal (NGRT)**

<table>
<thead>
<tr>
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<th>MAX.</th>
<th>D+</th>
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<tr>
<td>2</td>
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<td>1.00</td>
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<table>
<thead>
<tr>
<th>MFR</th>
<th>NAME/LOCATION</th>
<th>MIN.</th>
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<th>MAX.</th>
<th>D+</th>
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<tbody>
<tr>
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**Total**

<table>
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<tr>
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<th>MIN.</th>
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<th>MAX.</th>
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<tr>
<td></td>
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**Production Rates**

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<tr>
<td></td>
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<td>MAX.</td>
<td>D+</td>
<td>Prior 1 Oct</td>
<td>After 1 Oct</td>
</tr>
<tr>
<td>1</td>
<td>Raytheon (TGRS), Reston, VA</td>
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<td>16.00</td>
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<td>Raytheon (NGRT), Reston, VA</td>
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<td>32.00</td>
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**Remarks**

- Production schedule includes shared content for other services.
### Description:

FY04 & Prior years funding includes $47.1 million, which was dedicated to the SECOMP-I program. Mod of In-Svc Equipment (TACSAT) funds the upgrades to Army tactical satellite communications equipment. This program is designated as a DoD Space Program. This Mod of In-Svc funding also procures AS-4429 Lightweight High Gain X-Band Antennas (LHGXAs) with associated fielding and training support. It is a 16 foot diameter dish, offset fed, trailer mounted, high gain antenna. It will operate with the current generation of AN/TSC-85B/93D TACSAT terminals and the next generation PHOENIX terminals. The design also allows conversion to commercial C and Ku band in the future, if desired, for operation with tri-band terminals. Additionally, this Mod of In-Svc funding procures and fields Advanced EHF Mission Planning Element (AMPE) equipment. AMPE replaces the current Communications Planning System (AN/PSQ-17). The AMPE will be an integrated tool on which Milstar, Backward Compatibility Milstar and AEHF planning will be performed.

### Justification:

FY06/FY07 procures Lightweight High Gain X-Band Antenna (LHGXA), delivery, fielding and training and procurement and fielding of AMPEs which supports daily planning of Milstar, Milstar Backward Compatibility and AEHF Satellite Tactical Networks.
## MOD OF IN-SVC EQUIP (TAC SAT) (BB8417)

### Program Elements for Code B Items:

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Date: February 2005
**MODIFICATION TITLE:** MOD OF IN SVC [MOD 1] 0-00-00-0000

**MODELS OF SYSTEM AFFECTED:** Not Applicable

**DESCRIPTION/JUSTIFICATION:**

FY04 & Prior years funding includes $47.1 million, which was dedicated to the SECOMP-I program. This program provides a tactical satellite communications capability to meet critical Ground Mobile Forces (GMF) Command, Control, Communications, Computers and Intelligence (C4I) needs not satisfied by conventional terrestrial communications systems. The GMF are those components of the Army, Navy, Air Force, Marine Corps, Special Operations Forces and Joint Communications Support Elements engaged in land, tactical air combat, and amphibious operations ranging from single-service crisis missions to mutually supportive joint-service combat scenarios. Mod of In-Svc Equipment (TACSAT) funds the upgrades to Army tactical satellite communications equipment. This program is designated as a DoD Space Program.

**DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:**

**Installation Schedule:**

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<th>FY 2012</th>
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**METHOD OF IMPLEMENTATION:**

- **ADMINISTRATIVE LEADTIME:** 0 Months
- **PRODUCTION LEADTIME:** 0 Months

**Contract Dates:**

- FY 2006
- FY 2007
- FY 2008

**Delivery Date:**

- FY 2006
- FY 2007
- FY 2008
## Financial Plan: ($ in Millions)

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<td>337.7</td>
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</table>
FY06/07 funding procures AS-4429 Lightweight High Gain X-Band Antennas (LHGXAs) with associated fielding and training support. It is a 16 foot diameter dish, offset fed, trailer mounted, high gain antenna. It will operate with the current generation of AN/TSC-85B/93D TACSAT terminals and the next generation PHOENIX terminals. The design also allows conversion to commercial C and Ku band in the future, if desired, for operation with tri-band terminals. The FY06/07 procurements is depicted in the table below.

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<tr>
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<th>FY 2012</th>
<th>FY 2013</th>
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<tr>
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<tr>
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METHOD OF IMPLEMENTATION: HARRIS CORP.
ADMINISTRATIVE LEADTIME: 1 Months
PRODUCTION LEADTIME: 10 Months

Contract Dates: FY 2006 01 NOV 05 FY 2007 01 DEC 06 FY 2008
Delivery Date: FY 2006 30 SEP 06 FY 2007 30 SEP 07 FY 2008
**FINANCIAL PLAN: ($ in Millions)**

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AMPE [MOD 3] 0-00-00-0000

AMPE software application is being developed by the Air Force. AMPE replaces the current Communications Planning System (AN/PSQ-17). The AMPE will be an integrated tool on which Milstar, Backward Compatibility Milstar and AEHF planning will be performed. The Air Force is developing the AMPE software in increments. Increment 4 will support the legacy Milstar and Backwards Compatibility modes, and increment 5.2 supports the high data rate (XDR) mode. With the cutover to the AMPE planning system, the Air Force will discontinue support of the AN/PSQ-17 MCPT-I database. Each Service is responsible for procuring the selected computer platform(s) and fielding the system to their comm planners. The AMPE is essential to the operation of the SCAMP and AEHF SMART-T. This program will procure the designated hardware, field, and provide training as required to communications planners.
## INDIVIDUAL MODIFICATION

**MODIFICATION TITLE (Cont):** AMPE [MOD 3] 0-00-00-0000

**Date:** February 2005

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**MOD OF IN-SVC EQUIP (TAC SAT)**

Item No. 31 Page 8 of 8

**Exhibit P-3a**

**Individual Modification**
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### Description:

Global Command & Control System-Army (GCCS-A) provides critical automated Command & Control (C2) tools for Combatant Commanders (COCOMs) & Army Component Commanders (ACCs) to enhance warfighter capabilities throughout the spectrum of conflict during joint & combined operations in support of National Command Authority (NCA). GCCS-A provides the interface between Global Command & Control Systems-Joint (GCCS-J) & the Army Battlefield Command Systems (ABCS). GCCS-A provides readiness reporting, mobilization & deployment capability information for active, guard & reserve forces as well as providing the Joint Common Operational Picture (COP) & intra-theater planning & movement. For Strategic Commanders, GCCS-A Information Technology (IT) provides readiness, planning, mobilization & deployment capability. For Theater Commanders, GCCS-A provides Joint COP & associated friendly & enemy status information, movement, force employment planning & execution tools, & overall interoperability with Joint, Coalition, & Tactical ABCS. It will support major Army commands (MACOMs), Army Combatant Commanders (COCOMs), Army Commands & Components, & Army elements within the Pentagon. GCCS-A will support all headquarters staff sections that support all phases of conflict, & Stability & Support Operations (SASO). In addition, PM GCCS-A is the Executive Agent with responsibility to procure & field GCCS-J hardware & COTS software to selected GCCS-J sites.

GCCS-A is the Army service component of the GCCS-J Family of Systems (FoS) being implemented in accordance with the GCCS concept of Common Operating Environment (COE) & a member of ABCS. GCCS-A is implemented in accordance with GCCS-J architecture & ABCS Capstone Requirements Document (CRD) & rides on the COE. GCCS-A integrates system software & hardware using a site's existing communications architecture. GCCS-A provides commercial-off-the-shelf (COTS) hardware & COTS developed software to user sites. The hardware includes various types of servers & user workstations. The hardware & software provides directory, database, web, communications and portal capabilities to enhance & facilitate Command & Control functions of the developed software described above. Supporting functions include user administration & security.

### Justification:

FY06/07 procures mission critical hardware & COTS software support for previously fielded software at all Army managed & Operation Iraqi Freedom (OIF) sites. Support & fielding are mandatory in order for the Army to meet the GCCS-J milestones & support the ABCS "Good Enough" requirements redirection.
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BA8250
ARMY GLOBAL CMD & CONTROL SYS (AGCCS)
## Exhibit P-5a, Budget Procurement History and Planning

**Appropriation/Budget Activity/Serial No:**
Other Procurement, Army / 2 / Communications and Electronics Equipment

**Weapon System Type:**
ARMY GLOBAL CMD & CONTROL SYS (AGCCS) 85

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**REMARKS:** The above equipment is Commercial-Off-The-Shelf (COTS).
### Description:
The Army Data Distribution System (ADDS) is a Command, Control, Communication and Intelligence (C3I) program consisting of the Enhanced Position Location Reporting System (EPLRS) and the Near Term Digital Radio (NTDR). EPLRS, the predominant ADDS product line, is a critical mobile wireless data communications backbone for the Army's Tactical Internet. EPLRS provides embedded situational awareness / position navigation. EPLRS mobile networks are used by Army Battle Command System(s) (ABCS) and Force XXI Battle Command Brigade and Below (FBCB2) host computers for situational awareness and command and control. It has been designed specifically to meet the data communication requirements of the Army Battlefield Command System (ABCS) and sensor systems. EPLRS includes the EPLRS Network Manager (ENM). NTDR is the primary data communications network between Brigade and Battalion Tactical Operation Centers (TOCs). The Army Acquisition Objective (AAO) for EPLRS is 33,396. The Army Procurement Objective (APO) is 11,108. The remainder of the AAO is to be filled by the appropriate Joint Tactical Radio System (JTRS) cluster. EPLRS has a JTRS waiver for up to 12,896.

### Justification:

EPLRS: FY06 procures the EPLRS Network Manager (ENM). FY06 fields ENM and retrofit kits to upgrade earlier EPLRS radios to 288Kbps. FY06 continues the fielding of prior year EPLRS hardware procurements to the Stryker Brigade Combat Teams (SCB Ts), 3rd Armored Cavalry Regiment (ACR) and III Corps Troops. FY06 funding will also provide New Equipment Training (NET), integration, life cycle software engineering and program management support. FY06-07 includes sustainment support for NTDR Tactical Operations Center (TOC) radios to the SBCTs and III Corps Troops.
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* EPLRS User Unit Radio Set Hardware (1) consists of: EPLRS User Unit Receiver Transmitter, User Readout Device, Install Kit, Pwr Adapter.
* ENM unit costs are driven by unique platform design and accessory equipment. The total ENM cost including Government Furnished Equipment is $300 thousand.
* In prior years other hardware costs are included in the EPLRS hardware row.

---

**Notes:**
- (1) EPUU Radio Set consists of: EPLRS User Unit Receiver Transmitter, User Readout Device, Install Kit, Pwr Adapter.
- (2) ENM unit costs are driven by unique platform design and accessory equipment. The total ENM cost including Government Furnished Equipment is $300 thousand.
- (3) In prior years other hardware costs are included in the EPLRS hardware row.
**Exhibit P-5a, Budget Procurement History and Planning**

**Appropriation/Budget Activity/Serial No:**
Other Procurement, Army / 2 / Communications and Electronics Equipment

**Weapon System Type:**

**P-L Line Item Nomenclature:**
ARMY DATA DISTRIBUTION SYSTEM (DATA RADIO) (BU1400)

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**REMARKS:**

The current acquisition plan does not call for procuring additional EPLRS in FY05 and beyond. However, Army Transformation and wartime contingencies can be filled in compliance with DA guidance.

(1) EPUU RS (Radio Set) consists of the EPLRS User Unit Receiver Transmitter (RT) User readout Device Installaton Kits and Power Adapter.
(2) ENM unit costs are driven by unique platform designs and accessory equipment. This information is presented to explain variations of this report.
(3) In prior years other hardware costs are included in the EPLRS hardware row.
### FY 04 / 05 BUDGET PRODUCTION SCHEDULE

**P-1 Item Nomenclature:**
Army Data Distribution System (Data Radio) (BU1400)

**Date:**
February 2005

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- **EPUU RT**

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## FY 06 / 07 BUDGET PRODUCTION SCHEDULE

**P-1 Item Nomenclature:**
ARMY DATA DISTRIBUTION SYSTEM (DATA RADIO) (BU1400)

**Date:**
February 2005

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### Remarks

- NA- Navy
- ANG- Air Force National Guard
- OTH- Other PM Funded Radios
- NG- Army National Guard
- A- Army
- MC- Marine Corps
- AF- Air Force

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**Total:**

- Fiscal Year 06: 5028
- Fiscal Year 07: 4283
- Total: 745

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**BU1400**
ARMY DATA DISTRIBUTION SYSTEM (DATA RADIO)
### Exhibit P-40, Budget Item Justification Sheet

**Appropriation/Budget Activity/Serial No:**
Other Procurement, Army / Communications and Electronics Equipment

**P-1 Item Nomenclature:**
Joint Tactical Radio System (B90000)

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<tr>
<td>Wpn Sys Proc U/C</td>
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**Description:**
The Joint Tactical Radio System (JTRS) Cluster 1 program will procure and field a family of affordable, scaleable, high capacity, interoperable radio sets based on a common JTRS Software Communications Architecture (SCA). The JTRS is a key enabler of the Army's Transformation and will provide critical communications capabilities across the spectrum of operations in a Joint environment. JTRS Cluster 1 is a Joint program encompassing the incorporation of the JTRS Joint Program Office (JPO) developed waveforms (porting), US Army Ground Vehicular and Rotary Wing Aircraft, US Air Force Tactical Air Control Party (TACP), and US Marine Corps applications. This Standard Study Number (SSN) supports Procurement efforts for the JTRS Cluster 1 program while the Services provide funding for their unique requirements. JTRS Cluster 1 is a core and complementary system for the Army's Future Combat System and will provide Tactical Operations Center (TOC) communications for the Army's Stryker Brigade Combat Teams.

The Joint Tactical Radio System (JTRS) Cluster 5 program satisfies the requirements for Handheld, Manpack and Small Form Fit (SFF) applications including support for Future Combat System/Future Force (FCS/FF) technical performance and integration. Cluster 5 provides the Warfighter with a software re-programmable, networkable multi-mode system that also provides simultaneous voice, data and video communications. The Cluster 5 program is structured in two spirals. Spiral 1 provides an early delivery of two channel manpack radios to meet immediate user requirements in accordance with JTRS Operational Requirements Document (ORD) V2.3 with specific waveforms. Spiral 2 provides more enhanced capabilities for Cluster 5 variants for delivery of handheld, manpack and small form fit factors in accordance with ORD V3.2.

**Justification:**
FY06/07 are not funded
**Exhibit P-40, Budget Item Justification Sheet**

**Appropriation/Budget Activity/Serial No:**
Other Procurement, Army /2/Communications and Electronics Equipment

**P-1 Item Nomenclature:**
JTRS Cluster 1 (B90100)

**Program Elements for Code B Items:**

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**Justification:**
FY06/07 are not funded. Full Rate Production (FRP), originally scheduled for FY07 has been delayed until FY10. Low Rate Initial Production (LRIP) radios are being procured in FY08/09.

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**Date:**
February 2005

**Proc Qty**

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## OPA2 Cost Analysis

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**Note:**
- OPA2 ID: 34
- Page: 3
- Exhibit P-5
- Weapons System Type: JTRS Cluster 1 (B90100)
- Date: February 2005
### Exhibit P-5a, Budget Procurement History and Planning

**Appropriation/Budget Activity/Serial No:**
Other Procurement, Army / 2 / Communications and Electronics Equipment

**Weapon System Type:** JTRS Cluster 1 (B90100)

**P-1 Line Item Nomenclature:** Other Procurement, Army / 2 / Communications and Electronics Equipment

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**Remarks:**
CECOM - Communications Electronics Command
FFP - Firm Fixed Price

For the Joint Tactical Radio System (JTRS) Army Cluster 1 Ground and Aviation Sets, LRIP award is Fixed Price Incentive with Successive Target Options negotiated as part of the System Demonstration and Development Contract with Boeing.

The JTRS Army Cluster 1 Ground sets consist of 2 through 9 channel capability. Most of the sets in the near term are 4 channels or greater. The Army Cluster 1 Aviation sets consist of the configurations for Army Rotary Wing (8-channel requirement) and the A2C2S (16-channel requirement).
Cluster 1 LRIP quantities are purchased through the Prime System Integrator (Boeing). A limited Full Rate Competition will take place in FY10 between the two Boeing subcontractors (BAE Systems and Rockwell Collins). The quantity division between the two will be competitively determined. The contractors’ production lines are also being used to support Army, Air Force, and USMC missions.
### JTRS Cluster 1 (B90100)

#### FY 07 / 08 BUDGET PRODUCTION SCHEDULE

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#### Remarks

Cluster 1 LRIP quantities are purchased through the Prime System Integrator (Boeing). A limited Full Rate Competition will take place in FY10 between the two Boeing subcontractors (BAE Systems and Rockwell Collins). The quantity division between the two will be competitively determined. The contractors’ production lines are also being used to support Army, Air Force, and USMC missions.
**Exhibit P-40, Budget Item Justification Sheet**

**Appropriation/Budget Activity/Serial No:**
Other Procurement, Army /2/Communications and Electronics Equipment

**P-1 Item Nomenclature**
Radio Terminal Set, MIDS LVT(2) (B22603)

**Date:** February 2005

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**Description:**
The Multifunctional Information Distribution System Low Volume Terminal (MIDS LVT) is a subsystem of a tactical platform's (eg: PATRIOT) communication system, which enables the platform to exchange tactical digital information with other platforms equipped with a MIDS terminal or Joint Tactical Information Distribution System (JTIDS) Class 2 terminal. The MIDS LVT provides tactical digital information exchange among fighter aircraft, airborne command and control, Ground Air Defense and shipboard platforms. The Army variant, MIDS LVT(2), operates in a Time Division Multiple Access (TMDA) mode. It consists of three Line Replaceable Units (LRUs) (Main Terminal, Power Supply Assembly and Cooling Unit) mounted on a mounting plate which will fit into an existing JTIDS Class 2M mount making the MIDS LVT(2) and JTIDS Class 2M terminals physically and functionally interchangeable.

**Justification:**
FY06/07 procures system project management and software support for the MIDS LVT(2) terminals for various platforms including Phased Array Tracking to Intercept of Target (PATRIOT), Theater High Altitude Air Defense (THAAD), Joint Range Extension (JRE) and Forward Area Air Defense (FAAD) formerly known as Short Range Area Defense (SHORAD). Procurement funding for acquisition of MIDS LVT(2) is contained in AD5050 Forward Area Air Defense Command, Control and Intelligence (FAADC2).
## Exhibit P-40, Budget Item Justification Sheet

**Date:** February 2005

**Appropriation/Budget Activity/Serial No:**
- Other Procurement, Army /2/Communications and Electronics Equipment

**P-1 Item Nomenclature**
- SINCGARS FAMILY (BW0006)

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### Description:

The Single Channel Ground and Airborne Radio System (SINCGARS) VHF-FM Radio Communications System provides the primary means of command and control for combat/combat support/combat service support units. The SINCGARS radio provides state-of-the-art communications in manpack, vehicle, and airborne configurations. Its Frequency-Hopping and jam resistant capabilities offset current threat jamming techniques. SINCGARS continues its evolutionary development with the fielding of the Advanced SINCGARS System Improvement Program (ASIP) radio. The SINCGARS ASIP radio provides for enhanced data and voice communications while using commercial Internet Protocols. The SINCGARS radio is an essential component of the Tactical Internet enabling commanders to conduct operations on the digitized battlefield. The family of SINCGARS radios is employed on such systems as the Bradley M2A3, PATRIOT, ABRAMS M1A2SEP, and the Longbow Apache. Funding through FY 06 buys 265,100 ground radios and 9,248 airborne radios which totals 274,348 or 81.3% of the Approved Acquisition Objective (AAO) of 337,266.

### Justification:

FY06/07 procures radios and fields ground ASIP radios for high priority National Guard units, Stryker Brigade Combat Teams (SBCT); and procures SINCGARS Test Sets (AN/GRM-122) and Frequency Hopping Multiplexer (FH MUX) equipment.
**Exhibit P-40, Budget Item Justification Sheet**

**Appropriation/Budget Activity/Serial No:**
Other Procurement, Army /2/Communications and Electronics Equipment

**P-1 Item Nomenclature**
SINCGARS - GROUND (B00500)

**Program Elements for Code B Items:**

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**Description:**
The Single Channel Ground and Airborne Radio System (SINCGARS) VHF-FM Radio Communications System provides the primary means of command and control for combat/combat support/combat service support units. The SINCGARS radio provides state-of-the-art communications in man pack, vehicle, and airborne configurations. Its Frequency-Hopping and jam resistant capabilities offset current threat jamming techniques. SINCGARS continues its evolutionary development with the fielding of the Advanced SINCGARS System Improvement Program (ASIP) radio. The SINCGARS ASIP radio provides for enhanced data and voice communications while using commercial Internet Protocols. The SINCGARS radio is an essential component of the Tactical Internet enabling commanders to conduct operations on the digitized battlefield. The family of SINCGARS radios is employed on such systems as the Bradley M2A3, PATRIOT, ABRAMS M1A2SEP, and the Longbow Apache. Funding through FY 06 buys 265,100 Ground radios or 81% of the 327,655 Army Acquisition Objective.

**Justification:**
FY06/07 procures radios and fields ground ASIP radios for high priority National Guard units, Stryker Brigade Combat Teams (SBCT); and procures SINCGARS Test Sets (AN/GRM-122) and Frequency Hopping Multiplexer (FH MUX) equipment.
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| (1) A quantity of 139 Frequency Hopping Multiplexers (FH MUX) and installation kits account for 11 million dollars of other hardware in FY06. |

| Total | 67825 | 54697 | 55511 |

**February 2005**

Communications and Electronics Equipment

Exhibit P-5, Weapon System Cost Analysis
## Exhibit P-5a, Budget Procurement History and Planning

**Appropriation/Budget Activity/Serial No:** Other Procurement, Army / 2 / Communications and Electronics Equipment  

**Weapon System Type:** SINCGARS - GROUND (B00500)  

**P-1 Line Item Nomenclature:** SINCGARS - GROUND (B00500)

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**REMARKS:**  
(1) FY04 funding procured a quantity of 325 for the Army National Guard which was awarded in FY05.  
(2) A competitive contract was awarded to ITT on 30 Nov 04. The contract is for 5 years with 2 options. The FY05 award is scheduled for Apr 05.
### FY 04 / 05 BUDGET PRODUCTION SCHEDULE

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- **P-1 Item Nomenclature:** SINCGARS - GROUND (B00500)
- **Date:** February 2005
- **Fiscal Year 04**: Calendar Year 04
- **Fiscal Year 05**: Calendar Year 05
- **LATE R**
## Fiscal Year 06 / Fiscal Year 07 Budget Production Schedule

### Fiscal Year 06
- **Calendar Year 06**
- **Calendar Year 07**

### Production Schedule

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### Exhibit P-40, Budget Item Justification Sheet

**Appropriation/Budget Activity/Serial No:**
Other Procurement, Army /2/Communications and Electronics Equipment

**P-1 Item Nomenclature:**
Multi-Purpose Informations Operations Systems (BC3000)

**Date:**
February 2005

**Program Elements for Code B Items:**

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**Description:**
CLASSIFIED PROGRAM: INFORMATION PROVIDED UPON REQUEST.
### Description:
Joint Tactical Area Command Systems funding supports the Legacy Systems of the Area Common User System-Modernization Plan (ACIS-MP) which is comprised of the Communication Networks, which evolved from the original Tri Service Tactical Communications and Mobile Subscriber Equipment. The Communication System Control Element (CSCE) and Network Planning Terminal (NPT) provide critical management functions for the tactical to strategic communications links through control and management of switching and radio networks. This system supports the Current Force transition path of the Transformation Campaign Plan (TCP).

### Justification:
No FY06/07 funding

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### Exhibit P-40, Budget Item Justification Sheet

**Appropriation/Budget Activity/Serial No:**  
Other Procurement, Army /2/Communications and Electronics Equipment

**P-1 Item Nomenclature:**  
BRIDGE TO FUTURE NETWORKS (BB1500)

**Date:** February 2005

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**Description:**  
The ACUS Mod Program funds the Bridge to Future Networks Capabilities Production Document (BFN-CPD), which outlines ongoing and planned modifications, upgrades, and recapitalization of the Mobile Subscriber Equipment (MSE) and Tri-TAC systems as the Army’s intermediate-term solution. The ACUS Mod Program also supports the Army’s Transformation/Modularity initiatives by developing, procuring, and fielding new technologies and selected upgrades into the Army's Stryker Brigade Combat Teams (SBCTs), designated UEx/UEy service components, and Modularity units (3ID, 4ID, 10th Mountain, and 101st). Ten Joint Network Nodes (JNN's) and 34 Battalion Command Posts (BnCP's) were fielded to the 3rd Infantry Division to support modularity.

As a Bridge to Future Networks (BFN), these systems provide the tactical user an interface to strategic data networks, and Commercial, Joint, Combined, and Coalition communications systems across multiple security levels. It provides a smaller logistical footprint and utilizes commercial Ku satellite (as well as future Ka Systems upgrades). It provides for more rapid set-up and Beyond Line Of Sight communication capabilities. The JNN-N provides access to Warfighter validated essential wide-area services consisting of Non-Secure Internet Protocol Router Network (NIPRNET), Secure Internet Protocol Router Network (SIPRNET), and provides an interface to the Trojan Spirit transport to allow tunneling to Joint Worldwide Intelligence Communications System (JWICS)/National Security Agency Network, as well as an interface for tunneling secure voice, non-secure voice, and network connectivity with Coalition forces. JNN-N provides the transport means for voice, data, collaboration services and Video Teleconference (VTC) to the warfighter.

The JNN-N communications nodes are part of the Army’s effort to achieve the Chief of Staff's goal for Army Transformation to realize a Joint Network Transport Capability, replaces elements of the Mobile Subscriber Equipment (MSE) System that is currently being used to conduct missions in support of Operation Enduring Freedom/Operation Iraqi Freedom (OEF/OIF). It consists of communications nodes at the Units of Employment (UEx), brigade and battalion level, and is a dynamic and rapidly-deployable, early-entry communications system.
The ACUS Mod Program also provides enhanced long-haul data communications bandwidth and increased throughput to the Brigade Tactical Operations Center (TOC) via the 8Mbps/Tactical High Speed Data Network (THSDN) technology which uses a combination of tactical (circuit cards) and commercial (routers) equipment, and the AN/GRC-245 High Capacity Line-of-Sight Radio (HCLOS), the next-generation line-of-sight radio which replaces the AN/GRC-226 radios in the AN/TRC-190 family of transmission assemblages.

ACUS Mod provides an increased transmission capability between data switches for the digitized battlefield. Equipment fielded in support of this requirement include the Network Operations Center-Vehicle (NOC-V), a tactical shelterized vehicle that provides an integrated means to plan, manage, monitor, control, protect, and support Tactical Operations Center (TOC) Local Area Network (LAN) and Tactical Internet (TI) communications. The NOC-V also provides phone (voice over IP) connectivity within the TOC and to other combat units when connected to a Brigade Subscriber Node (BSN). The Brigade Subscriber Node (BSN), also a tactical shelterized vehicle is an integrated switching/transmission shelter providing voice/data/video capabilities for the Stryker Brigade Combat Teams (SBCTs). Additional ACUS Mod battlefield technologies include the Battlefield Video Teleconferencing (BVTC), which provides internetworking of video terminals, and the AN/TTC-58(V) Baseband Node (BBN), which is a technology insertion effort for Joint Task Force (JTF)/Joint Forces Land Component Commander and Staff (JFLCC) and will provide for downsized Large Extension Node (LEN) data capability. Other ACUS Mod equipment includes the Single Shelter Switch (AN/TTC-56(V)1), the Secure Wireless LAN (SWLAN), and the High Mobility DGM Assemblage (HMDA), which provides 25 miles line-of-sight transmission and 12 miles of fiber optic range in conjunction with several radio terminals and repeaters.

Justification:
In FY06, the ACUS Mod program will continue to support the Army’s modernization, upgrade, and recapitalization efforts by providing sustainment of previously fielded systems (including those fielded to SBCTs 1-4, Modularity units, and other Army units). Additionally, ACUS Mod will procure Baseband Nodes, AN/USC-10 Tactical Faxes, Phoenix terminals, HMDA, and other equipments based on HQDA prioritization (to include procurement and fielding to the Integrated Theater Signal Battalions (ITSB), and will field ACUS components for SCBT 5 attached to the 25th ID, Hawaii. Will procure equipment for SBCT 6 as directed by HQDA and the SBCT architecture.

FY07: ACUS Mod will provide technical support to fielded units.
### Exhibit P-40, Budget Item Justification Sheet

**Appropriation/Budget Activity/Serial No:**
Other Procurement, Army /2/Communications and Electronics Equipment

**P-1 Item Nomenclature**
ACUS MOD PROGRAM (BB1600)

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As a Bridge to Future Networks (BFN), these systems provide the tactical user an interface to strategic data networks, and Commercial, Joint, Combined, and Coalition communications systems across multiple security levels. It provides a smaller logistical footprint and utilizes commercial Ku satellite (as well as future Ka Systems upgrades). It provides for more rapid set-up and Beyond Line Of Sight communication capabilities. The JNN-N provides access to Warfighter validated essential wide-area services consisting of Non-Secure Internet Protocol Router Network (NIPRNET), Secure Internet Protocol Router Network (SIPRNET), and provides an interface to the Trojan Spirit transport to allow tunneling to Joint Worldwide Intelligence Communications System (JWICS)/National Security Agency Network, as well as an interface for tunneling secure voice, non-secure voice, and network connectivity with Coalition forces. JNN-N provides the transport means for voice, data, collaboration services and Video Teleconference (VTC) to the warfighter. |

The JNN-N communications nodes are part of the Army’s effort to achieve the Chief of Staff's goal for Army Transformation to realize a Joint Network Transport Capability, replaces elements of the Mobile Subscriber Equipment (MSE) System that is currently being used to conduct missions in support of Operation Enduring Freedom/Operation Iraqi Freedom (OEF/OIF). It consists of communications nodes at the Units of Employment (UEx), brigade and battalion level, and is a dynamic and rapidly-deployable, early-entry communications system.

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The ACUS Mod Program also provides enhanced long-haul data communications bandwidth and increased throughput to the Brigade Tactical Operations Center (TOC) via the 8Mbps/Tactical High Speed Data Network (THSDN) technology which uses a combination of tactical (circuit cards) and commercial (routers) equipment, and the AN/GRC-245 High Capacity Line-of-Sight Radio (HCLOS), the next-generation line-of-sight radio which replaces the AN/GRC-226 radios in the AN/TRC-190 family of transmission assemblages.

ACUS Mod provides an increased transmission capability between data switches for the digitized battlefield. Equipment fielded in support of this requirement include the Network Operations Center-Vehicle (NOC-V), a tactical shelterized vehicle that provides an integrated means to plan, manage, monitor, control, protect, and support Tactical Operations Center (TOC) Local Area Network (LAN) and Tactical Internet (TI) communications. The NOC-V also provides phone (voice over IP) connectivity within the TOC and to other combat units when connected to a Brigade Subscriber Node (BSN). The Brigade Subscriber Node (BSN), also a tactical shelterized vehicle is an integrated switching/transmission shelter providing voice/data/video capabilities for the Stryker Brigade Combat Teams (SBCTs). Additional ACUS Mod battlefield technologies include the Battlefield Video Teleconferencing (BVTC), which provides internetworking of video terminals, and the AN/TTC-58(V) Baseband Node (BBN), which is a technology insertion effort for Joint Task Force (JTF)/Joint Forces Land Component Commander and Staff (JFLCC) and will provide for downsized Large Extension Node (LEN) data capability. Other ACUS Mod equipment includes the Single Shelter Switch (AN/TTC-56(V)1), the Secure Wireless LAN (SWLAN), and the High Mobility DGM Assemblage (HMDA), which provides 25 miles line-of-sight transmission and 12 miles of fiber optic range in conjunction with several radio terminals and repeaters.

**Justification:**

FY06: In FY06, the ACUS Mod program will continue to support the Army’s modernization, upgrade, and recapitalization efforts by providing sustainment of previously fielded systems (including those fielded to SBCTs 1-4, Modularity units, and other Army units). Additionally, ACUS Mod will procure Baseband Nodes, AN/USC-10 Tactical Faxes, Phoenix terminals, HMDA, and other equipments based on HQDA prioritization (to include procurement and fielding to the Integrated Theater Signal Battalions (ITSB), and will field ACUS components for SCBT 5 attached to the 25th ID, Hawaii. Will procure equipment for SBCT 6 as directed by HQDA and the SBCT architecture.

FY07: ACUS Mod will provide technical support to fielded units.
### OPA2 Cost Analysis

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# Exhibit P-5a, Budget Procurement History and Planning

**Appropriation/Budget Activity/Serial No:**
Other Procurement, Army / 2 / Communications and Electronics Equipment  

**Weapon System Type:**

**ACUS MOD PROGRAM (BB1600)**  

**P-1 Line Item Nomenclature:**

**ACUS MOD PROGRAM (BB1600)**

---

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**REMARKS:**  
Note 1: The Various ACUS-Mod Systems- represents a "needs based" mix of various ACUS Mod Systems: examples are the SWLAN, NOC-V, BBN, THSDN, HCLOS, and HMDA in FY04, and the BBN, HCLOS, SWLAN, and HMDA in FY 05.The FY06 program includes a mix of ACUS products for SBCT6 (BnCP's, HCLOS, SWLAN's and JNN's).  
For GD and DataPath, the acquisitions represent the production of systems of HUB Nodes, Joint Network Nodes,Batallion Command Posts, and Ka (Antenna /dish) Trailers.
## FY 04 / 05 BUDGET PRODUCTION SCHEDULE

**P-1 Item Nomenclature:** ACUS MOD PROGRAM (BB1600)  
**Date:** February 2005

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### Remarks

- **Delivery Schedules** are based on multiple contract modifications that were made as funds were received. Note: Production rate for the HUB (DataPath) is one per 6 weeks. For the BnCP and the Ku Trailers, monthly delivery schedules vary in numeric size due to the fact that the contractual schedule is projected as a weekly rate of 4.
## FY 06 / 07 BUDGET PRODUCTION SCHEDULE

**P-1 Item Nomenclature:**
ACUS MOD PROGRAM (BB1600)

**Date:**
February 2005

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**Total:** 386 384 2
## Exhibit P-40, Budget Item Justification Sheet

**Appropriation/Budget Activity/Serial No:**
Other Procurement, Army /2/Communications and Electronics Equipment

**P-1 Item Nomenclature:**
COMMS-ELEC EQUIP FIELDING (BA5210)

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**Description:**
This line supports and funds the Army Information Technology Systems Budget (ITSB) Modernization/Modularity of 82nd, 25th, 4ID, 1st Cav, 2ID, 1stID, and National Guard and Reserves for the redistribution/cascading of Communications & Electronic (C&E) Systems under Total Package Fielding to include the recovery, testing and operational checkout of systems. This is an ongoing effort to provide the Warfighter with state of the art communications equipment to carry out an on-going Army mission in support of Operation Iraqi Freedom (OIF) and Operation Enduring Freedom (OEF). This effort supports the US Army Pacific Command (USARPAC) Combatant Commanders, USARPAC deployable packages and Southern European Task Force (SETAF) command, control, communications, computer, intelligence, surveillance, and reconnaissance (C4ISR) communications systems and the Department of the Army (DA) G8 Force Modernization Development Support Contract.

**Justification:**
FY 06-07 supports the program management of the USARPAC Combatant commander and SETAF vital C4ISR Communications systems in support of deployed Warfighters. It also supports and provides the redistribution/cascading of communication/electronic equipment and provides the ability to provide upgrades to legacy systems with newer state of the art technologies to the National Guard and Reserves. This line supports ITSB, the Army's Modernization/Modularity efforts, USARPAC Combatant Commanders, and SETAF C4ISR.
## OPA2 Cost Analysis

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**Total**

| Total | 93298 | 12455 | 6837 | 5112 |
### Exhibit P-40, Budget Item Justification Sheet

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<td>This program procures items of equipment for military qualification from off the shelf domestic commercial sources or off shore sources. The mission of SEP is to identify and evaluate commercially available individual weapons, munitions optics, combat clothing, individual equipment, water supply, shelters, communication and navigational aids which can be adopted and provided to Soldiers in three years or less. The nature of the item determines the acquisition strategy, market survey, candidate evaluation and down select method, scope of testing, adoption decision and fielding process. Each year nearly 125 proposals are received and reviewed for suitable solutions to keep up with ever-changing technologies and new and improved ways to equip and maintain our forces. Proposals that match up with user deficiencies are presented at the Annual PEO/TRADOC SEP review and compete for funding in the upcoming fiscal year.</td>
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<td>FY2006/2007 procures the Integrated Laser White Light Pointer which provides soldier's individual weapon, or hand held, with the capability to employ white light illumination, stand-alone aiming laser pointers and infrared illumination functions in a single, small lightweight,integrated device.</td>
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#### Prior Years

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### REMARKS:

- Integrated Laser Pointer
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  - FY 2006
  - FY 2007
- CQX Sights
  - FY 2004
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### FY 04 / 05 BUDGET PRODUCTION SCHEDULE

**Fiscal Year 04**

| COST ELEMENTS | MFR R | FY | S QTY Each | ACCEP PRIOR TO 1 OCT | BAL DUE AS OF 1 OCT | O T | N D | J A | F E | M A | A P | M Y | J U | A U | S E | P O | N D | J A | F E | M A | A P | M Y | J U | A U | S E | P |
|---------------|-------|----|------------|----------------------|---------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Integrated Laser Pointer | 4 | FY 05 | A | 7497 | 0 | 7497 | A | 73 | 500 | 500 | 500 | 750 | 4674 |
| | 4 | FY 06 | A | 7885 | 0 | 7885 | A | 73 | 500 | 500 | 500 | 750 | 7885 |
| | 4 | FY 07 | A | 7885 | 0 | 7885 | A | 73 | 500 | 500 | 500 | 750 | 7885 |

**Fiscal Year 05**

| COST ELEMENTS | MFR R | FY | S QTY Each | ACCEP PRIOR TO 1 OCT | BAL DUE AS OF 1 OCT | O T | N D | J A | F E | M A | A P | M Y | J U | A U | S E | P O | N D | J A | F E | M A | A P | M Y | J U | A U | S E | P |
|---------------|-------|----|------------|----------------------|---------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Integrated Laser Pointer | 4 | FY 05 | A | 7497 | 0 | 7497 | A | 73 | 500 | 500 | 500 | 750 | 4674 |
| | 4 | FY 06 | A | 7885 | 0 | 7885 | A | 73 | 500 | 500 | 500 | 750 | 7885 |
| | 4 | FY 07 | A | 7885 | 0 | 7885 | A | 73 | 500 | 500 | 500 | 750 | 7885 |
## FY 06 / 07 BUDGET PRODUCTION SCHEDULE

**COST ELEMENTS**

| MFR | FY   | QTY Each | ACCEP PRIOR TO 1 OCT | BAL DUE AS OF 1 OCT | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-----|------|----------|----------------------|---------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 4   | FY 05 | A  | 7497 | 2823 | 4674 | 750 | 750 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 174 | 0 |
| 4   | FY 06 | A  | 7885 | 0 | 7885 | A | 826 | 642 | 642 | 642 | 642 | 642 | 642 | 642 | 642 | 642 | 642 | 642 | 642 | 641 | 641 | 0 |
| 4   | FY 07 | A  | 7885 | 0 | 7885 | A | 657 | 657 | 657 | 657 | 657 | 657 | 657 | 657 | 657 | 657 | 657 | 657 | 657 | 3286 | | |

**Integrated Laser Pointer**

Total: 23267 2823 20444

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**Fiscal Year 06**

**Calendar Year 06**

**Fiscal Year 07**

**Calendar Year 07**

**MFR** | **NAME/LOCATION** | **PRODUCTION RATES** | **REACHED** |
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**BA5300**

**SOLDIER ENHANCEMENT PROGRAM COMM/ELECTRONICS**

Item No. 41  Page 5 of 6

Exhibit P-21 Production Schedule
### FY 08 / 09 BUDGET PRODUCTION SCHEDULE

**COST ELEMENTS**

| MFR | FY   | S | QTY | ACCEP | BAL | DFA | DFM | P | R | AE | AP | AN | UG | SEP | OC | DE | MFR | ADMIN | LEAD | TOTAL | REMARKS |
|-----|------|---|-----|-------|-----|-----|-----|---|---|----|----|----|----|-----|-----|-----|-----|------|-------|------|-------|---------|
| 4   | FY 05 | A | 7497 | 7497 | 0   |     |     |   |   |     |     |     |     |     |     |     |     |       |       |     |       |         |
| 4   | FY 06 | A | 7885 | 7885 | 0   |     |     |   |   |     |     |     |     |     |     |     |     |       |       |     |       |         |
| 4   | FY 07 | A | 7885 | 4599 | 3286 | 657 | 657 | 657 | 657 | 657 | 657 | 657 | 657 | 657 | 657 | 657 |       |       |     |       |         |

**Integrated Laser Pointer**

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**Fiscal Year 08**

**Fiscal Year 09**

**Calendar Year 08**

**Calendar Year 09**

**Date**: February 2005
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**Description:**
The Combat Survivor Evader Locator (CSEL) system is a hand-held survival radio that provides downed aircrew members and Special Operations Forces (SOF) personnel multiple communications capabilities and precision location. The radio determines the survivor's location through an embedded Global Positioning System (GPS) capability. The survivor transmits position/location and situational information via two-way voice Line-of-Sight, beacon, or Over-The-Horizon (OTH) communication paths. The Joint Search and Rescue Center (JSRC) receives the OTH information and conducts a hand-off to operational forces that carry out the Combat Search and Rescue (CSAR) mission. The two-way voice communication ensures single pass pickup by enabling the survivor to communicate with the inbound CSAR aircraft. The Army survival radio requirements for Army Aviation and Special Operations are 18,531.

A total of 9,357 units are currently resourced (through FY09) out of a projected Army Acquisition Objective (AAO) of 18,531.

**Justification:**
FY06 funding procures 1,349 CSEL Hand Held Radios and supports fielding to the 5th SFG, 10th SFG, 1CD, and 25ID aviation units.

FY07 funding procures 1,448 CSEL Hand Held Radios and supports the fielding to the 10th SFG, 3rd SFG, 1AD, 1ID, 2ID, and 82ABN.
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### NOTES:

1. Other Hardware cost reflects the accessory equipment provided to the Army during fielding (e.g., Radio Set Adapter, Rechargeable Batteries, Laptops, etc.).
### COMBAT SURVIVOR EVADER LOCATOR (CSEL) 124 Procurement History and Planning

#### Appropriation/Budget Activity/Serial No:
Other Procurement, Army / 2 / Communications and Electronics Equipment

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**REMARKS:** Above unit cost data reflects the cost of the radio only. The CSEL System Unit cost includes the radio cost plus another $2K per radio for the Other Hardware (accessory equipment).

FRP decision approved in Dec 04; contract award scheduled for Mar 05.
## FY 04 / 05 BUDGET PRODUCTION SCHEDULE

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### COST ELEMENTS

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### Fiscal Year 05

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**P-1 Item Nomenclature:** COMBAT SURVIVOR EVADER LOCATOR (CSEL) (B03200)

**Date:** February 2005
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## FY 08 / 09 BUDGET PRODUCTION SCHEDULE

**COMBAT SURVIVOR EVADER LOCATOR (CSEL) (B03200)**

**Date:** February 2005

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**REMARKS:**
- 1-Actual reflects Army portion of a joint buy.

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Exhibit P-40, Budget Item Justification Sheet

Appropriation/Budget Activity/Serial No: Other Procurement, Army /2/Communications and Electronics Equipment

P-1 Item Nomenclature
RADIO, IMPROVED HF FAMILY (BU8100)

Program Elements for Code B Items:

|----------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|-------------|------------|
| Gross Cost | 14.0        | 16.6    | 28.0    | 14.9    | 42.8    | 6.6     | 22.1    | 28.3    | 173.3
| Less PY Adv Proc | 0.0        |         |         |         |         |         |         |         |         |         |             |            |
| Plus CY Adv Proc |           |         |         |         |         |         |         |         |         |         |             |            |
| Net Proc (P-1) | 14.0        | 16.6    | 28.0    | 14.9    | 42.8    | 6.6     | 22.1    | 28.3    | 173.3
| Initial Spares |             |         |         |         |         |         |         |         |         |         |             |            |
| Total Proc Cost | 14.0        | 16.6    | 28.0    | 14.9    | 42.8    | 6.6     | 22.1    | 28.3    | 173.3
| Flyaway U/C |             |         |         |         |         |         |         |         |         |         |             |            |
| Wpn Sys Proc U/C |           |         |         |         |         |         |         |         |         |         |             |            |

Description:
The AN/PRC-150 is a Commercial Off-the-Shelf (COTS) Non-Developmental Item (NDI) family of advanced High Frequency (HF) radios that provides reliable, long-range tactical radio communications through use of advanced digital signal processing. The radio reduces the need for separate cryptographic equipment by embedding US type-1 Communications Security (COMSEC) within the radio. The AN/PRC-150 family is available as a lightweight 20-watt man-pack radio, 20-watt and 150-watt vehicular radio and a 400-watt transportable base station configuration. The radio provides reliable Line-of-Sight (LOS) and Beyond LOS (BLOS) communication in USB, LSB, AME, CW, and FM modes. The radio is capable of interoperability with other HF radios that has these modes of operation already in use within the Army. The National Security Agency (NSA) endorsed the COMSEC features of the AN/PRC-150 HF radio on 4 June 2001. The tactical radio is developed and manufactured by Harris Corporation, Rochester, New York. The AN/PRC-148 is one of the world’s smallest and lightest full-featured Combat Net Radio (CNR) operating contiguously over the 30-512 MHz frequency range. The radio has imbedded US type-1 COMSEC protection and is capable of both voice and data modes of operation. The AN/PRC-148 provides a hand held, highly flexible tactical radio useful over a very broad range of combat environments. System options include SINCgars, HAVEQUICK I/II and ANDVT waveforms and a retransmission capability compatible with existing equipment. The radio is manufactured by Thales Corporation in Bethesda, Maryland.

Justification:
FY06 procures 78 AN/PRC-150 radios in support of SBCT5, 453 AN/PRC-148 radios in support of SBCT4, 300 AN/PRC-150 radios for the Army National Guard, and 607 AN/PRC-148 radios in support of Rapid Fielding Initiatives (RFI).

FY07 procures 453 AN/PRC-148 radios in support of SBCT5, 78 AN/PRC-150 radios in support of SBCT6, and 1,030 AN/PRC-148 radios in support of RFI.
**Exhibit P-40, Budget Item Justification Sheet**

**Appropriation/Budget Activity/Serial No:**
Other Procurement, Army /2/Communications and Electronics Equipment

**P-1 Item Nomenclature**

**COTS Tactical Radios (B81803)**

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**Description:**
The AN/PRC-150 is a Commercial Off-the-Shelf (COTS) Non-Developmental Item (NDI) family of advanced High Frequency (HF) radios that provides reliable, long-range tactical radio communications through use of advanced digital signal processing. The radio reduces the need for separate cryptographic equipment by embedding US type-1 Communications Security (COMSEC) within the radio. The AN/PRC-150 family is available as a lightweight 20-watt man-pack radio, 20-watt and 150-watt vehicular radio and a 400-watt transportable base station configuration. The radio provides reliable Line-of-Sight (LOS) and Beyond LOS (BLOS) communication in USB, LSB, AME, CW, and FM modes. The radio is capable of interoperability with other HF radios that has these modes of operation already in use within the Army. The National Security Agency (NSA) endorsed the COMSEC features of the AN/PRC-150 HF radio on 4 June 2001. The tactical radio is developed and manufactured by Harris Corporation, Rochester, New York. The AN/PRC-148 is one of the world’s smallest and lightest full-featured Combat Net Radio (CNR) operating contiguously over the 30-512 MHz frequency range. The radio has imbedded US type-1 COMSEC protection and is capable of both voice and data modes of operation. The AN/PRC-148 provides a hand held, highly flexible tactical radio useful over a very broad range of combat environments. System options include SINCgars, HAVEQUICK I/II and ANDVT waveforms and a retransmission capability compatible with existing equipment. The radio is manufactured by Thales Corporation in Bethesda, Maryland.

**Justification:**
FY06 procures 78 AN/PRC-150 radios in support of SBCT5, 453 AN/PRC-148 radios in support of SBCT4, 300 AN/PRC-150 radios for the Army National Guard, and 607 AN/PRC-148 radios in support of Rapid Fielding Initiatives (RFI).

FY07 procures 453 AN/PRC-148 radios in support of SBCT5, 78 AN/PRC-150 radios in support of SBCT6, and 1,030 AN/PRC-148 radios in support of RFI.
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NOTE: Other HW, Gov't Eng, and fielding costs for the AN/PRC-148 and AN/PRC-150 radios have been combined by fiscal years.
### Exhibit P-5a, Budget Procurement History and Planning

**Weapon System Type:**

COTS Tactical Radios (B81803)

**P-1 Line Item Nomenclature:**

Other Procurement, Army / 2 / Communications and Electronics Equipment

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## FY 03 / 04 BUDGET PRODUCTION SCHEDULE

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### Remarks

The AN/PRC-150 and AN/PRC-117 have a combined production rate of 500 radios per month.

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### FY 05 / 06 BUDGET PRODUCTION SCHEDULE

**P-1 Item Nomenclature:**

COTS Tactical Radios (B81803)

**Date:**
February 2005

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**PRODUCTION RATES**

- **100.00**
- **325.00**
- **800.00**

**ADMIN/LEAD TIME**

- **Initial:** 0
- **Reorder:** 0

**REMARKS**

The AN/PRC-150 and AN/PRC-117 have a combined production rate of 500 radios per month.
## FY 07 / 08 BUDGET PRODUCTION SCHEDULE

**P-1 Item Nomenclature:** COTS Tactical Radios (B81803)  
**Date:** February 2005

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**Description:**
The Medical Communications for Combat Casualty Care (MC4) System provides multipliers to the medical force structure through the acquisition of digital communications and information technology solutions for the deployable medical forces. The MC4 System will also fulfill the requirements highlighted in United States Code; Title 10; Subtitle A; Part II; Chapter 55; Section 1074f; Medical tracking system for members deployed overseas. The MC4 System will also interface Force Health Protection information with Army Battle Command and Combat Service Support information technology systems as they evolve to support the Army Transformation. Initial MC4 Program efforts are focused on system engineering, integration, testing and fielding automation infrastructure for Army users of the Joint Theater Medical Information Program (TMIP) suite of software.

**Justification:**
FY 2006/2007 procures MC4 hardware to support on-going infrastructure deployment which will provide TMIP and Army unique applications to 1st Cavalry, 25th Infantry, 82nd Airborne and additional Stryker Brigade Combat Teams (SBCTs). MC4 acquires, deploys and integrates automation technology in support of Army Campaign Plan and Global War on Terrorism units, as well as designated warfighting Combatant Commanders.
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Medical information systems: ACP medical information systems and hardware infrastructure consisting of: handheld computers, Pentium-based notebooks, LAN and peripheral equipment, routers, switches, servers, and printers. Engineer furnish, install, test, deploy and conduct New Equipment Training (NET)

Total 6321 4569 8262 9097
## Exhibit P-5a, Budget Procurement History and Planning

### Appropriation/Budget Activity/Serial No:
Other Procurement, Army / 2 / Communications and Electronics Equipment

### Weapon System Type:
MEDICAL COMM FOR CBT CASUALTY CARE (MC4) (MA8046)

### P-1 Line Item Nomenclature:
MEDICAL COMM FOR CBT CASUALTY CARE (MC4) (MA8046)

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### REMARKS:
ITEC-4: Information Technology and Electronic Commerce Commercial Contracting Center.
### Exhibit P-40, Budget Item Justification Sheet

**Appropriation/Budget Activity/Serial No:**
Other Procurement, Army /2/Communications and Electronics Equipment

**P-1 Item Nomenclature:**
CI AUTOMATION ARCHITECTURE (BK5284)

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**Description:**
This program provides the Army, as a member of the DoD counterintelligence (CI) community, with an advanced global automated data processing information environment and architecture, enhancing the Army's ability to counter the global threat through significant improvements in information sharing, common situational awareness, and knowledge management in a joint operational environment. Program resources time-sensitive CI force protection support to a deployed Land Component Commander and the development and recapitilization of the Defense Counteringintelligence Information System (DCIIS).

**Justification:**
FY06/07 funds procures Department of Defense Intelligence Information System (DODIIS)-compliant Counterintelligence (CI) and Human Intelligence (HUMINT) materiel solutions to support implementation of DCIIS at Army Intelligence sites at the MACOM level and at major subordinate command levels. Funds will provide capabilities at 21 large sites, 52 medium sites and 253 small sites in support of Echelons Above Corps (EAC) and Echelons at Corps and Below (ECB) organizations employment of DCIIS.
**Exhibit P-40, Budget Item Justification Sheet**

**Appropriation/Budget Activity/Serial No:**
Other Procurement, Army /2/Communications and Electronics Equipment

**P-1 Item Nomenclature**
TSEC - ARMY KEY MGT SYS (AKMS) (BA1201)

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**Description:**
Army Key Management System (AKMS) is the Army's system to automate the functions of Communications Security (COMSEC) key management control and distribution, Electronic Counter-Countermeasures (ECCM) generation and distribution and Signal Operation Instructions (SOI) management. AKMS will electronically generate and distribute Army key and key-related material, thereby limiting adversarial access to, and reducing the vulnerability of, Army C4I systems. It provides key management to communications and network planning. AKMS consists of three components, namely, the Local COMSEC Management Software (LCMS), the Automated Communications Engineering System (ACES) and the Data Transfer Device (DTD). LCMS is the Army's portion of the four-tiered Electronic Key Management System (EKMS). The EKMS is a key management, COMSEC material distribution and logistics support system consisting of interoperable service and civil agency key management systems. ACES is a Spectrum Management tool that will provide enhanced automated functions of net/cryptonet management, Signal Operating Instructions and Electronic Protection. The Data Transfer Device (DTD) moves the ACES/LCMS data to End Crypto Units (ECUs). The DTD acquisition strategy was updated in an Acquisition Decision Memorandum (ADM) approved by the PEO C3T Milestone Decision Authority (MDA) on 10 June 2002. The DTD will now be known as the Simple Key Loader (SKL). The SKL, although not a recognized Joint Program, has multi-service support. The Tri-Services have formed a Tri-Service Working Group (TSWG) to support the SKL production/fielding. Army is the chair for the TSWG and the Air Force, Navy and he National Security Agency (NSA) are voting members. Customer funding has been received from the other services to procure SKL’s for field use.

AKMS is part of the management/support infrastructure for the new Modular Army architecture, which provides critical functions for supporting Army's transformation.

**Justification:**
FY06/FY07 procures SKL/DTD, continues the fielding of the SKL, initiates post production software support (PPSS), and provides for the associated government and contractor engineering support and training. The SKL will be utilized to perform all Tier Three functions of Electronic Key Management System (EKMS).
**Exhibit P-40, Budget Item Justification Sheet**

**Appropriation/Budget Activity/Serial No:**
Other Procurement, Army /2/Communications and Electronics Equipment

**P-1 Item Nomenclature**
INFORMATION SYSTEM SECURITY PROGRAM-ISSP (TA0600)

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**Description:**
Funding for the U.S. Army's Information Systems Security Program (ISSP) ties key Information Assurance (IA) functions, Communications Security (COMSEC), and Information Security (INFOSEC) equipment and tools, to achieve IA defense in depth strategies to secure the Global Information Grid (GIG)(strategic to tactical) information structure. The ISSP provides centralized procurement of COMSEC equipment and network security tools necessary to secure Army networks, telecommunications, and information systems. These systems process national security (classified, mission sensitive) information. The Secure Terminal Equipment (STE) provides users with assured (authenticity, integrity, and protection) information (voice and data) via switched leased and Army telecommunications networks. Secure Wireless (hand-held) Equipment provides mobile, international, secure wireless (voice and data) capability via global telecommunication networks. These hand-held devices also provide interoperability between strategic and tactical networks. Secure Wireline Terminals (SWT) (Modular Telephone Adaptor) is a low cost alternative for users that do not require full STE/Secure Terminal Upgrade (STU) III interoperability or tactical functionality. The SWTs are fully interoperable with the STE and the Secure Wireless Hand Held device. High assurance information systems network security devices include Trunk Encryption, In-line Network Encryption (INE), and Link Encryption devices that provide high assurance (authenticity, integrity and confidentiality) cryptographic security solutions to support GIG and Enterprise network requirement for voice and data traffic. New and emerging architectures are driving the need for technology replacement of current stove pipe (non-network centric/non-GIG compliant components) with leading edge technologically advanced devices that incorporate Chairman of the Joint Chiefs of Staff and Joint Requirements Oversight Council directed cryptographic modernization, advanced key management and network centric performance capabilities. Current funding supports initial transformation communications and GIG IA architectures efforts by providing technologies that will support current to future force migration to defense in depth security capabilities. Additionally, the ISSP funds new equipment fielding and training; Army Public Key Infrastructure (PKI) efforts that incorporate Department of Defense (DoD) PKI program and Deputy Secretary of Defense (DEPSECDEF) mandate to implement Smart Card (SC) technology in the form of the Common Access Card (CAC).

**Justification:**
The FY 06 and 07 ISSP budget procures COMSEC, IA equipment and secondary products needed to secure Army-wide tactical and strategic voice/data communication networks. The budget also procures, biometrics and PKI/CAC solutions and products. The budget will enable the Army to secure and defend vital communications, command and control, information, electronic warfare, intelligence, surveillance, reconnaissance and weapon systems.
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## Exhibit P-5a, Budget Procurement History and Planning

**Appropriation/Budget Activity/Serial No:**
Other Procurement, Army / 2 / Communications and Electronics Equipment

**Weapon System Type:**
INFORMATION SYSTEM SECURITY PROGRAM-ISSP (TA0600)

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**REMARKS:**
- IDIQ = INDEFINITE DELIVERY INDEFINITE QUANTITY
- NSA = NATIONAL SECURITY AGENCY
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- CECOM = U.S. ARMY COMMUNICATIONS-ELECTRONICS COMMAND
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## Exhibit P-5a, Budget Procurement History and Planning

**Appropriation/Budget Activity/Serial No:** Other Procurement, Army / 2 / Communications and Electronics Equipment

**Weapon System Type:**

**P-1 Line Item Nomenclature:** INFORMATION SYSTEM SECURITY PROGRAM-ISSP (TA0600)

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- CECOM = U.S. ARMY COMMUNICATIONS-ELECTRONICS COMMAND
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**TA0600**

INFORMATION SYSTEM SECURITY PROGRAM-ISSP

Item No. 47  Page 7 of 11

Exhibit P-21  Production Schedule
## FY 06 / 07 BUDGET PRODUCTION SCHEDULE

**COST ELEMENTS**

**IN-LINE ENCRYPTOR**

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**INFORMATION SYSTEM SECURITY PROGRAM-ISSP (TA0600)**

**Date:** February 2005

**FY 06 / 07 BUDGET PRODUCTION SCHEDULE**

These contracts are multiservice contracts with multiple deliveries to each Department of Defense agency.
### FY 06 / 07 BUDGET PRODUCTION SCHEDULE

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**Total**: 62795 12109 50686

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*These are multiservice contracts with multiple deliveries to each Department of Defense agency.*
## FY 08 / 09 BUDGET PRODUCTION SCHEDULE

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### Remarks

These are multiservice contracts with multiple deliveries to each Department of Defense agency.
## FY 08 / 09 BUDGET PRODUCTION SCHEDULE

### COST ELEMENTS

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**TRUNK ENCRYPTORS**

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**REMARKS**

THESE ARE MULTISERVICE CONTRACTS WITH MULTIPLE DELIVERIES TO EACH DEPARTMENT OF DEFENSE AGENCY.
**Exhibit P-40, Budget Item Justification Sheet**

**Appropriation/Budget Activity/Serial No:**
Other Procurement, Army /2/Communications and Electronics Equipment

**P-1 Item Nomenclature:**
TERRESTRIAL TRANSMISSION (BU1900)

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**Description:**
This program is a component of the Army's seamless Enterprise Network that provides long-haul communications compatibility across operational systems supporting the Department of Defense approved program to modernize and integrate digital operations within the Pacific and European Theaters. The goal architecture will be able to accommodate the rapidly changing deployment and realignment of forces within the Pacific and European Theaters. The modernization program supports force projection through technology insertion and evolutionary changes. The program also utilizes emerging technological developments to capitalize on digital information systems throughout the worldwide Defense Information System Network (DISN). The theater Combatant Commanders require a robust infrastructure that will facilitate mobilization and sustainment of a deployed force.

**Justification:**
FY06/07 procures on-going project management and engineering efforts to accomplish the Army unique requirements as defined by European Command (EUCOM) initiatives, as well as emerging requirements due to the realignment of forces throughout Europe. The objective is an integrated, survivable network that provides voice, data messaging, video and transmission services to the warfighter through the application of emerging technology such as Asynchronous Transfer Mode (ATM), Synchronous Optical Network (SONET), bulk encryption and network management systems. It will also continue the upgrade of power, timing and alarm systems for the European Transmission Systems.

FY06/07 also funds the continuation of the Korean Fiber Network program initiated by US Forces Korea, procurement of equipment and services to support the Combined Intelligence Very Small Aperture Terminal (VSAT) Network -Korea (CIVN-K), and Combined Wide Area Network in Korea. The Korean Digital Microwave Upgrade will continue in FY06 and will be completed in FY07. FY06 will complete the AN/FCC-98 multiplexer replacements in Korea.
### Exhibit P-5, Weapon OPA2 Cost Analysis

**Appropriation/Budget Activity/Serial No.:**
- Other Procurement, Army / 2 /
- Communications and Electronics Equipment

**P-1 Line Item Nomenclature:** TERRESTRIAL TRANSMISSION (BU1900)

**Weapon System Type:**
- Date: February 2005

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**Exhibit P-40, Budget Item Justification Sheet**

**Appropriation/Budget Activity/Serial No:**
Other Procurement, Army /2/Communications and Electronics Equipment

**P-1 Item Nomenclature**
TERRESTRIAL TRANSMISSION (BU2000)

**Date:** February 2005

### Program Elements for Code B Items:

| Description: | This program supports the Department of Defense approved program to modernize and integrate digital long-haul communications operations within the European Theater. The goal architecture will be able to accommodate the rapidly changing deployment and realignment of forces within the European Theater. This program is a component of the Army's seamless Enterprise Network that provides compatibility across operational systems. The modernization program supports force projection through technology insertion and evolutionary changes. The program utilizes emerging technological developments to capitalize on digital information systems throughout the worldwide Defense Information Systems Network (DISN). The theater Combatant Commander requires a robust infrastructure that will facilitate mobilization between Outside Continental United States (OCONUS) based forces, deployed forces, and Continental United States (CONUS) command and support elements. The Digital European Backbone (DEB) Programs realign the DISN in Europe to comply with mandates of the Conventional Forces, Europe agreement and the Base Realignment and Closure (BRAC) Acts. This program supports all efforts related to the modernization of the command, control, communications and computer (C4) infrastructure in the DISN-Europe. This program also supports networks that provide voice, data, messaging, video, and transmission services to the warfighter through the application of emerging technologies such as Asynchronous Transfer Mode (ATM), the Synchronous Optical Network (SONET), bulk encryption, fiber, and microwave radios. |
| Justification: | FY06/07 procures on-going Project Management and engineering efforts to accomplish the Army unique requirements as defined by European Command (EUCOM) initiatives, as well as, emerging requirements due to the realignment of forces throughout Europe. The objective is an integrated, survivable network that provides voice, data messaging, network physical security services, video and transmission services to the warfighter through the application of technology such as ATM, SONET, bulk encryption and network management systems. It will also continue the upgrade of power, timing and alarm systems for the European Transmission Systems. |

### Budget Item Justification Sheet

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### Description:
This program is a component of the Army's seamless Enterprise Network that provides long-haul communication compatibility across operational systems supporting the Department of Defense approved program to modernize and integrate digital operations within the Pacific Theater. This program modernizes the information and communication technology infrastructure by strategically improving the ability to successfully defend the Pacific Theater during periods of stress, increasing survivability of command, control, communications, computers and intelligence (C4I) systems; increasing information systems capacity to meet surge requirements; and improving the ability to reconstitute C4I systems. This program supports the command and control communication networks serving the Combined Forces Command, Commander US Forces Korea, Commander US Forces Japan and the United States Army Pacific Command. The objective is an integrated survivable network that provides voice, data, messaging, network physical security services, video and transmission services to the warfighter through the application of emerging technologies.

### Justification:
FY06/07 funds the continuation of the Korean Fiber Network program initiated by US Forces Korea, the procurement of equipment and services to support the Combined Intelligence Very Small Aperture Terminal (VSAT) Network -Korea (CIVN-K), and Combined Wide Area Network in Korea. The Korean Digital Microwave Upgrade will continue in FY06 and will be completed in FY07. FY06 will complete the AN/FCC-98 multiplexer replacements in Korea. Funding provides for requirements of long-haul communications between newly realigned forces in the Pacific Theater to include bases in Japan, Hawaii and Alaska.

### Exhibit P-40, Budget Item Justification Sheet

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## Exhibit P-5a, Budget Procurement History and Planning

### Appropriation/Budget Activity/Serial No:
- Other Procurement, Army / 2 / Communications and Electronics Equipment

### Weapon System Type:
- TERRESTRIAL TRANSMISSION PACIFIC (BU2100)

### P-1 Line Item Nomenclature:
- TERRESTRIAL TRANSMISSION PACIFIC

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### REMARKS:
### Exhibit P-5a, Budget Procurement History and Planning

**Appropriation/Budget Activity/Serial No:**
Other Procurement, Army / 2 / Communications and Electronics Equipment

**Weapon System Type:**
TERRESTRIAL TRANSMISSION PACIFIC (BU2100)

**P-1 Line Item Nomenclature:**
TERRESTRIAL TRANSMISSION PACIFIC (BU2100)

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**CWAN**

| FY 2005            | To Be Selected           | TBS                      | TBS             | Mar-05     | 11  | 331      | Yes              |         |
| FY 2006            | To Be Selected           | TBS                      | TBS             | Jan-06     | 7   | 286      | Yes              |         |
| FY 2007            | To Be Selected           | TBS                      | TBS             | Jan-07     | 4   | 250      | Yes              |         |

**Power/Alarms**

| FY 2004            | Multiple Var            | VAR                      | Ft Monmouth NJ/ Ft Huachuca | Mar-04     | 4   | 250      | Yes              |         |
| FY 2006            | To Be Selected           | TBS                      | TBS             | Mar-06     | 7   | 286      | Yes              |         |
| FY 2007            | To Be Selected           | TBS                      | TBS             | Mar-07     | 4   | 250      | Yes              |         |

**REMARKS:**
**Exhibit P-40, Budget Item Justification Sheet**

**Appropriation/Budget Activity/Serial No:**
Other Procurement, Army /2/Communications and Electronics Equipment

**P-1 Item Nomenclature**
BASE SUPPORT COMMUNICATIONS (BU4160)

### Program Elements for Code B Items:

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<th>Description:</th>
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<td>This program funds Army-wide requirements for base support Land Mobile Radio (LMR) systems. Army non-tactical radios are commercial LMR systems that provide mobile and portable radio support to garrison safety, force protection, homeland defense and facilities maintenance operations. Base support radios are used by installation military police, fire departments, medical personnel, and other emergency response activities to coordinate and support emergency response efforts, and for critical communications support during mobilization, deployment, and split-based operations. These personnel and base support functions would be greatly constrained without adequate communications capabilities that readily enable coordination, maximize the use of scarce radio spectrum, and provide secure voice transmissions. It is equally important that base LMR equipment be interoperable with state and local fire protection and law enforcement LMR architectures to ensure effective incident response communication. The LMR program modernizes the base level installation systems in two important areas. One, the National Telecommunications and Information Administration (NTIA) mandated the conversion of wideband LMR systems to narrowband operations by 1 January 2005 or 1 January 2008, depending on the specific frequency band. Second, LMR systems are key components of the Army Enterprise by providing a seamless communications network in support of base level communications and infrastructure. This program also supports the phased replacement of obsolete, nonsupportable Test, Measurement and Diagnostic Equipment (TMDE) for the Network Enterprise Technology Command (NETCOM)/9th Army Signal Command (ASC) and interim mission support for command, control, communications and computers worldwide. The NETCOM TMDE inventory consists of general purpose and special purpose test equipment. Additionally, long lead times for acquisition of new TMDE results in this program supporting interim acquisition of special purpose TMDE to satisfy mission requirements. Densities of TMDE supported by this program are determined by Defense Information Systems Agency (DISA) standards and maintenance support plans for information systems. The TMDE portion of this program transfers to Operations and Maintenance appropriation beginning in FY 06.</td>
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### Justification:

FY 06/07 procures priority base support radio systems at installations currently at risk of non-compliance with the 1 January 2005 and 1 January 2008 NTIA narrowband mandate. To date, 56 percent of Army installations that are required to convert to narrowbanded systems still operate wideband LMR systems and are in jeopardy of missing the non-negotiable deadline. The NTIA mandate date cannot be missed because Army installations across the Continental United States (CONUS) rely on base support LMR systems as a primary means to support force protection, public safety, installation management, and homeland security missions. |
### OPA2 Cost Elements

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## Exhibit P-5a, Budget Procurement History and Planning

**Appropriation/Budget Activity/Serial No:** Other Procurement, Army / 2 / Communications and Electronics Equipment  
**Weapon System Type:** BASE SUPPORT COMMUNICATIONS (BU4160)  
**P-1 Line Item Nomenclature:** Other Procurement, Army / 2 / Communications and Electronics Equipment  
**Date:** February 2005

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### Test Measurement and Diagnostic Equipment (TMDE) Replacement/Quality Assurance TMDE

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  - Aeroflex Wichita Inc. Wichita, KS  
  - TFT, Inc. San Jose, CA  
  - Acerna, Inc. Germantown, MD  
  - TBS

- **FY 2005**  
  - Motorola Columbia, MD  
  - Booze Allen Hamilton Inc. Fairfax, VA  
  - M/A Com Lynchburg, VA

### Commercial Land Mobile Radio Systems and Program Management Army-wide

- **FY 2004**  
  - Motorola Columbia, MD  
  - Booze Allen Hamilton Inc. Fairfax, VA  
  - M/A Com Lynchburg, VA

### Remarks:

VAR - Multiple contracts awarded/delivered; ACA - Army Contracting Agency; DOI - Department of Interior; RCO-AK - Regional Contracting Office, Alaska; RCO-HI - Regional Contracting Office, Hawaii; NSA - National Security Agency; CECOM - Communications-Electronics Command; ITEC4-W - Information Technology, E-Commerce and Commercial Contracting Center-West; GTSI - Government Technology Services Incorporated; USAG - United States Army Garrison
## Exhibit P-5a, Budget Procurement History and Planning

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**Remarks:** VAR - Multiple contracts awarded/delivered; ACA - Army Contracting Agency; DOI - Department of Interior; RCO-AK - Regional Contracting Office, Alaska; RCO-HI - Regional Contracting Office, Hawaii; NSA - National Security Agency; CECOM - Communications-Electronics Command; ITEC4-W - Information Technology, E-Commerce and Commercial Contracting Center-West; GTSI - Government Technology Services Incorporated; USAG - United States Army Garrison
### Exhibit P-5a, Budget Procurement History and Planning

**Appropriation/Budget Activity/Serial No:** Other Procurement, Army / 2 / Communications and Electronics Equipment  
**Weapon System Type:**  
**P-1 Line Item Nomenclature:** BASE SUPPORT COMMUNICATIONS [BU4160]

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### BASE SUPPORT COMMUNICATIONS

#### P-1 Line Item Nomenclature:

**BASE SUPPORT COMMUNICATIONS**

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#### REMARKS:

VAR - Multiple contracts awarded/delivered; ACA - Army Contracting Agency; DOI - Department of Interior; RCO-AK - Regional Contracting Office, Alaska; RCO-HI - Regional Contracting Office, Hawaii; NSA - National Security Agency; CECOM - Communications-Electronics Command; ITEC4-W - Information Technology, E-Commerce and Commercial Contracting Center-West; GTSI - Government Technology Services Incorporated; USAG - United States Army Garrison
## Exhibit P-5a, Budget Procurement History and Planning

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<th>Unit Cost</th>
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<th>Date Revn Avail</th>
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**Remarks:** VAR - Multiple contracts awarded/delivered; ACA - Army Contracting Agency; DOI - Department of Interior; RCO-AK - Regional Contracting Office, Alaska; RCO-HI - Regional Contracting Office, Hawaii; NSA - National Security Agency; CECOM - Communications-Electronics Command; ITEC4-W - Information Technology, E-Commerce and Commercial Contracting Center-West; GTSI - Government Technology Services Incorporated; USAG - United States Army Garrison.
| Description: | Funding provides the ability of the Army to develop and maintain capabilities to serve the intelligence needs of policymakers. Additional program information will be provided by Army ODCS, G2 utilizing separate justification. |

| Appropriation/Budget Activity/Serial No: | Other Procurement, Army /2/Communications and Electronics Equipment |
| P-1 Item Nomenclature | Items Less Than $5M (Comms) (BU4550) |

### Program Elements for Code B Items:

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<td>9.6</td>
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**Description:**
The Army Defense Information System Network (DISN) Router Program (ADRP) provides the hub for the site networking connections and the connection to the Top Level Architecture (TLA). These connections include Army host computers, servers, Local Area Networks (LANs), and Campus Area Networks (CANs) to the TLA. The ADRP includes the acquisition of routers and switches for direct connections, access servers and modems for dial-in connections. Program acquisition also includes testing, installation, Installation Bill of Materials (IBOM), warranty and training. The ADRP equipment is upgradeable to satisfy future Army, DoD, and industry standards and is an integral part of the Installation Information Infrastructure Modernization Program (I3MP) initiative.

**Justification:**
Beginning in FY06, the Army DISN Router Program (BU0300) is being realigned to I3MP-CONUS (BU0530).
### OPA2 Cost Elements

| ID CD | FY 04 | | FY 05 | | FY 06 | | FY 07 | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|       | TotalCost | Qty | UnitCost | TotalCost | Qty | UnitCost | TotalCost | Qty | UnitCost |
|       | $000 | Each | $000 | Each | $000 | Each | $000 | Each | $000 |
| Army DISN Router Program Equipment | 5637 | 123 | $000 | 5893 | 117 |
| Project Management Support | | | | | |
| Total | 5760 | 6010 | | | |

**February 2005**

**Communications and Electronics Equipment**

**Army DISN ROUTER Program Equipment**

**Army DISN ROUTER**

**Weapon System Cost Analysis**

**ARMY DISN ROUTER (BU0300)**

**Weapon System Type:**

**Date:** February 2005
### Army DISN Router Program Equipment

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**REMARKS:**

Army DISN Router Program Equipment
**Exhibit P-40, Budget Item Justification Sheet**

**Appropriation/Budget Activity/Serial No:**
Other Procurement, Army /2/Communications and Electronics Equipment

**P-1 Item Nomenclature:**
ELECTROMAG COMP PROG (EMCP) (BD3100)

**Program Elements for Code B Items:**

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**Description:**
The Electromagnetic Compatibility Program (EMCP) ensures the readiness of command and control systems by testing the electromagnetic environment and engineering the frequency requirements to be compatible with other civil and defense communication and electronics (C-E) systems operating in the area. EMCP engineers conduct on-site spectrum surveys at existing and proposed C-E installations to determine the availability of frequency resources. The use of computer models to accurately predict the effects that the proposed system will have on the environment, as well as the effects the environment will have on the proposed system. This is done primarily to prevent expensive reworking or retrofitting but is also required when emission conflicts arise.

The following equipment sustains and enhances the capability of the program:

A. MEASUREMENT INSTRUMENTATION
B. MEASUREMENT CONTROLLERS
C. ANCILLARY EQUIPMENT: Antennas, amplifiers, filters, cabling etc.
D. ENGINEERING WORKSTATIONS AND PERIPHERALS: Computers, specialized software and related equipment that EMC engineers use to perform data reduction, analysis and engineering functions. Stand alone systems (NOT office automation) that automate data reduction and analysis thus greatly speeding the frequency engineering process.
E. MEASUREMENT ACCESSIBILITY EQUIPMENT: For vehicles, electric generators, power inverters, and related equipment that EMC engineers use to gain access to remote sites where they perform their measurements.

**Justification:**
FY06/07 funds procure state-of-the-art hardware and software that provides the capability to characterize the digital electromagnetic environment and provides the required access to remote sites. The rapidly evolving communication equipment made possible by digital signal processing and melding of computer technology with transmitters and receivers requires that we keep pace in order to accomplish our prevention and resolution mission. Small frequency agile transmitters and receivers that transmit a high volume of information at lower power and higher speed, new digital modulation schemes, the extreme mobility of the new radios and increased spectrum congestion resulting from the advance of the "wireless world" make these acquisitions imperative. Advanced equipment and software will help reduce the susceptibility of Army communication systems to interference from outside sources and help prevent financial liability that may result from interference with civil, defense and commercial users.
**Exhibit P-40, Budget Item Justification Sheet**

**Appropriation/Budget Activity/Serial No:**
Other Procurement, Army /2/Communications and Electronics Equipment

**P-1 Item Nomenclature**
WW TECH CON IMP PROG (WWTCIP) (BU3610)

### Program Elements for Code B Items:

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### Justification:

FY06/07 procures equipment to improve, expand, and integrate Technical Control Facilities (TCF) and Patch and Test Facilities (PTF) in various CONUS sites. This will include continuing the automation of manual technical controls at Fort Belvoir, the upgrade of timing and synchronization systems, and the replacement of obsolete DC power systems. The emerging requirements of new bases in both the Pacific and European Theaters will require robust Technical Control capability.

### Description:
The World Wide Technical Control Improvement Program (WWTCIP) is a continuing program to initiate, improve, expand and automate Army Defense Information Systems Network (DISN) Technical Control Facilities (TCFs) and Patch and Test Facilities (PTFs) to enable technical control personnel to gain full use of communications resources to support the Warfighters and gain information dominance. The program provides alternating and direct current (DC) power, timing and synchronization equipment, line conditioning equipment, and automatic technical control, Voice Frequency (VF) tactical interface, Defense Communications Tri-Tac interface and appropriate test equipment with associated hardware. The program benefits all users of the DISN worldwide including tactical users who connect to the DISN for long haul communications requirements. The upgrades provide the end user faster response time, high quality voice, video and digital circuits, and greatly minimizes outages. Many of the present configurations and equipment can no longer support the warfighters requirements of voice, digital data, and Video Teleconference (VTC) requirements as well as Asynchronous Transfer Mode (ATM) technology and GigaBit Ethernet. The program is essential to correct these problems and to support ever-increasing high speed digital requirements of the tactical and strategic users with minimal personnel requirements. The program currently supports Combatant Commanders programs in Europe and the Pacific as well as the Continental United States (CONUS) Power Projection Bases and Defense Satellite Communications Systems.
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### Exhibit P-5a, Budget Procurement History and Planning

**Appropriation/Budget Activity/Serial No:**
Other Procurement, Army / 2 / Communications and Electronics Equipment

**Weapon System Type:**

**P-1 Line Item Nomenclature:**
WW TECH CON IMP PROG (WWTCIP) (BU3610)

**Exhibit P-5a, Budget Procurement History and Planning**

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**REMARKS:**
**Description:**
This program provides for improvement/modernization of Army base level voice, data and video networks worldwide. It encompasses nontactical telecommunications services in support of Army base operations, Army Knowledge Management (AKM) Goal 3, Army Campaign Plan and Information Systems for Command and Control (C2) requirements and also funds the acquisition of common user information systems in support of Military Construction, Army (MCA) projects. This program also has the mission to field integrated, supportable Information Technology (IT) solutions for transformation in business processes which enable the Army to manage its Infrastructure as an Enterprise.

**Justification:**
FY06/07 procures the acquisition of information systems equipment and switch expansion equipment (not otherwise included in the MCA appropriation) to be installed in conjunction with Military Construction Army (MCA) projects worldwide. FY06/07 also procures engineering and acquisition for fiber cable and associated transmission equipment to install fiber cable and video teleconferencing (VTC) equipment in Europe and Non-secure Internet Protocol Router Network (NIPRNET)/Secret Internet Protocol Router Network (SIPRNET) connectivity in Pacific Command (PACOM). In addition, FY06/07 procures the continued modernization of select intelligence processing and communication systems within the major US Forces Korea (USFK)/Combined Forces Command (CFC) command centers that support peninsula multidiscipline intelligence, surveillance, and reconnaissance (ISR) operations.

Beginning in FY06, Information Systems CONUS/Western Hem (BB8700) will be realigned to I3MP-CONUS (BU0530).

Beginning in FY06, the I3MP funding included in Information Systems EUCOM (BB8800) will be realigned to I3MP-Europe (BU0510).

Beginning in FY06, the I3MP funding included in Information Systems PACOM (BB8900) will be realigned to I3MP-Pacific (BU0520).
## OPA2 Cost Elements

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### Exhibit P-40, Budget Item Justification Sheet

**Appropriation/Budget Activity/Serial No:**
Other Procurement, Army /2/Communications and Electronics Equipment

**P-1 Item Nomenclature:**
INFORMATION SYSTEMS (MCA SUPPORT) (BB1400)

**Date:** February 2005

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**Description:**
This program provides state-of-the-art major information system equipment such as integrated voice/data switches, Tier II computers (i.e., common user, multiple-purpose assets supporting Army installations and/or organizations), voice/data switch expansions, common user Local Area Network (LAN) transport equipment and basic telephone instruments. This equipment is installed in conjunction with Military Construction, Army (MCA) projects.

**Justification:**
FY06/07 procures information systems requirements associated with approved MCA projects. Funding is applied to specific projects based upon mission priority, timing of construction schedules, beneficial occupancy dates (BOD) and minimum lead time required for acquisition and installation of associated information system equipment. Funding supports regulatory requirements as outlined in AR 415-15 and other applicable US Army directives. These funds are essential to insure that information systems are installed in sync with Corps of Engineer construction schedules.
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**Total**                              | $5732 | $5961 | $9551 | $14412 |
### Exhibit P-5a, Budget Procurement History and Planning

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**REMARKS:**
- CECOM - Communications Electronics Command
- ISEC-FBED - Information Systems Engineering Command-Ft Belvoir Engineering Directorate
- GSA - General Services Administration

**INFORMATION SYSTEMS (MCA SUPPORT)**

BB8650 (BB1400)

Item No. 54  Page 5 of 16
## Exhibit P-5a, Budget Procurement History and Planning

### Appropriation/Budget Activity/Serial No:
Other Procurement, Army / 2 / Communications and Electronics Equipment

### Weapon System Type:

### P-1 Line Item Nomenclature:
INFORMATION SYSTEMS (MCA SUPPORT) (BB1400)

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### REMARKS:
CECOM - Communications Electronics Command
ISEC-FBED - Information Systems Engineering Command-Ft Belvoir Engineering Directorate
GSA - General Services Administration
Exhibit P-40, Budget Item Justification Sheet

Date: February 2005

Appropriation/Budget Activity/Serial No:
Other Procurement, Army /2/Communications and Electronics Equipment

P-1 Item Nomenclature
INFORMATION SYSTEMS (CONUS/WESTERN HEM) (BB8700)

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Description:
The Information Systems (CONUS/Western Hem) mission encompasses 2 major programs: the Digital Switched Systems Modernization Program (DSSMP) and the Business Enterprise Systems (BES) Program. The DSSMP mission is to modernize and maintain the Army's digital switch systems worldwide and is an integral part of the Installation Information Infrastructure Modernization Program (I3MP). Upgrading telecommunication equipment provides the most effective interface with existing public telecommunication networks, ensures the installation is postured for emerging voice technologies and optimizes the development of evolving Department of the Army programs. The BES program mission is to field integrated, supportable Information Technology (IT) solutions for transformation in business processes which enable the Army to manage its Infrastructure as an Enterprise.

Justification:
Beginning in FY06, I3MP funding included in Information Systems (CONUS/Western Hem) (BB8700) will be realigned to I3MP-CONUS (BU0530).
### OPA2 Cost Analysis

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**INFORMATION SYSTEMS (CONUS/WESTERN HEM) (BB8700)**

**Weapon System Type:**

**Date:** February 2005
### Exhibit P-5a, Budget Procurement History and Planning

**Appropriation/Budget Activity/Serial No:**
Other Procurement, Army / 2 / Communications and Electronics Equipment

**Weapon System Type:**
INFORMATION SYSTEMS (CONUS/WESTERN HEM) (BB8700)

**P-1 Line Item Nomenclature:**
Other Procurement, Army / 2 / Communications and Electronics Equipment

**WBS Cost Elements:**
Contractor and Location | Contract Method and Type | Location of PCO | Award Date | QTY | Unit Cost ($) | Specs Avail Now? | Date Revn Avail | RFP Issue Date
--- | --- | --- | --- | --- | --- | --- | --- | ---
**Digital Switching System**

FY 2004
General Dynamics C/FP
Needham, MA
CECOM, Ft Monmouth, NJ
NOV-03 JAN-04 3 YES

FY 2004
General Dynamics C/FP
Needham, MA
CECOM, Ft Monmouth, NJ
FEB-04 APR-04 2 YES

FY 2004
General Dynamics C/FP
Needham, MA
CECOM, Ft Monmouth, NJ
MAR-04 MAY-04 1 YES

FY 2004
Southwestern Bell C/FP
St Louis, MO
CECOM, Ft Monmouth, NJ
FEB-04 APR-04 1 YES

FY 2004
Verizon Federal Inc C/FP
Arlington, VA
CECOM, Ft Monmouth, NJ
MAR-04 MAY-04 1 YES

FY 2004
Lucent Technologies Inc C/FP
McLeansville, NC
CECOM, Ft Monmouth, NJ
MAR-04 MAY-04 1 YES

FY 2004
NextiraOne C/FP
Fairfax, VA
CECOM, Ft Monmouth, NJ
MAR-04 MAY-04 1 YES

FY 2004
MTS, Inc C/FP
Needham, MA
CECOM, Ft Monmouth, NJ
MAR-04 MAY-04 1 YES

FY 2005
TBS C/FP
CECOM, Ft Monmouth, NJ
FEB-05 APR-05 5 YES

**Network Operation Systems**

FY 2005
TBS C/FP
ITEC4, Alexandria, VA
NOV-04 DEC-04 24 YES

**Remarks:**
Quantities reflect the number of sites at which work is performed. Due to the unique configuration requirements at each site, unit costs will vary.

CECOM - Communications Electronics Command
GSA - General Services Administration
ITEC4 - Information Technology and Electronic Commerce Commercial Contracting Center
Description:
Information Systems (European Command - EUCOM) manages the Installation Information Infrastructure Modernization Program, Europe (I3MP-E). I3MP-E is the primary initiative to provide increased voice and data connectivity to the installation, other support activities and deployed combat forces in the EUCOM theaters. This program provides high capacity capabilities and near real time throughput for data, cable and voice solutions to sustaining base installations throughout the European Area of Operations. In addition, it provides for the engineering, acquisition and installation of fiber optic cable, transmission and switching equipment to support voice and non-secure Internet Protocol Router Network (NIPRNET)/Secret Internet Protocol Router Network (SIPRNET) connectivity critical for meeting mission requirements. This program supports the Defense Reform Initiative in such areas as Army Campaign Plan, Modularity, Army Knowledge Management, web enabled applications, image processing for intelligence missions, command and control for Army Expeditionary, Joint and Combined Forces, telemedicine and telemaintenance.

Justification:
FY06/07 procures engineering and acquisition for fiber optic cable and associated transmission equipment to install fiber cable, building wiring, expansion of SIPRNET, and video teleconferencing (VTC) equipment in Europe.

Beginning in FY06, the I3MP funding included in Information Systems EUCOM (BB8800) will be realigned to I3MP-Europe (BU0510).
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### INFORMATION SYSTEMS (EUCOM)  
**Procurement History and Planning**

**Appropriation/Budget Activity/Serial No:**  
Other Procurement, Army / 2 / Communications and Electronics Equipment

**Weapon System Type:**  
[INFORMATION SYSTEMS (EUCOM) (BB8800)]

**P-1 Line Item Nomenclature:**

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**REMARKS:** Quantities reflect the number of sites at which work is performed. Due to the unique configuration requirements at each site, unit costs vary.

CECOM - Communications Electronics Command
ITEC4-W - Information Technology and Electronic Commerce Commercial Contracting Center-West
### Exhibit P-5a, Budget Procurement History and Planning

**Weapon System Type:** INFORMATION SYSTEMS (EUCOM)  
**P.1 Line Item Nomenclature:** [BB8800]

**Appropriation/Budget Activity/Serial No.:** Other Procurement, Army / 2 / Communications and Electronics Equipment

**INFORMATION SYSTEMS (EUCOM) (BB8800)**

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**REMARKS:** Quantities reflect the number of sites at which work is performed. Due to the unique configuration requirements at each site, unit costs vary.

CECOM - Communications Electronics Command

ITEC4-W - Information Technology and Electronic Commerce Commercial Contracting Center-West
Description:
The Information Systems Pacific Command (PACOM) Program is an integral part of the Outside Continental United States (OCONUS) Installation Information Infrastructure Modernization Program (I3MP) and is the primary initiative to digitize and provide connectivity to the installation, other support activities and deployed combat forces in the PACOM theater. Its objective is to create an infrastructure sufficiently flexible to meet ever increasing telecommunication requirements. This program digitizes the sustaining base installations to support the Defense Reform Initiative in such areas as web enabled applications, multimedia applications, image processing for intelligence missions, maneuver control, telemedicine and telemaintenance.

In addition, this program provides for the engineering, acquisition and installation of fiber optic cable, transmission and switching equipment to support voice and Non-secure Internet Protocol Router Network (NIPRNET)/Secret Internet Protocol Router Network (SIPRNET) connectivity critical for meeting mission requirements.

This program also provides for the modernization of secure networks, automation, and command and control (C2) equipment within and between US Forces Korea (USFK)/Combined Forces Command (CFC) command centers and sensitive compartmented information facilities (SCIFs) to better support and manage Joint and Combined multidiscipline intelligence, surveillance, and reconnaissance (ISR) operations occurring in and around the Korean Peninsula.

Justification:
FY06/07 procures engineering and acquisition of transmission, cabling and switching equipment necessary to provide NIPRNET/SIPRNET to meet mission requirements at Schofield Bks, Wheeler AAF, Helamano and Kunia.

FY06/07 also procures the continued modernization of select intelligence processing and communication systems within the major USFK/CFC command centers that support peninsula multidiscipline ISR operations. This effort replaces legacy systems and capabilities with systems that are recognized and used throughout the DoD community, enabling the command to better support Federated and Network Centric intelligence operations.

Beginning in FY06, the I3MP funding included in Information Systems PACOM (BB8900) will be realigned to I3MP-Pacific (BU0520).
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**Remarks:** Quantities reflect the number of sites at which work is performed. Due to the unique configuration requirements at each site, unit costs vary.
CECOM - Communications Electronics Command
ITEC4-W - Information Technology and Electronic Commerce Commercial Contracting Center-West
Exhibit P-40, Budget Item Justification Sheet

Date: February 2005

Appropriation/Budget Activity/Serial No:
Other Procurement, Army /2/Communications and Electronics Equipment

P-1 Item Nomenclature
DEFENSE MESSAGE SYSTEM (DMS) (BU3770)

Program Elements for Code B Items:

<table>
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<th>Description:</th>
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<td>The Defense Message System (DMS) is replacing obsolete Telecommunication Centers and Automatic Digital Network (AUTODIN) Switching Centers which ceased operations on 30 September 2003. Effective 1 October 2003, with the closure of AUTODIN, DMS became the Department of Defense's Command and Control messaging system of record. DMS will serve as a single, seamless global messaging system supporting administrative, command and control, and intelligence traffic from the sustaining base to the battlefield. DMS is being implemented in two Phases. The focal points of Phase I, which is complete, included the AUTODIN Mail Server (AMS) Desktop Interface to AUTODIN Host (DINAH), Automated Special Security Information System Terminal (ASSIST) and other AUTODIN terminals. Phase II focuses on the full-scale implementation of Consultative Committee on International Telegraphy and Telephony (CCITT) standardized X.400/X.500 messaging products and the phase out of the AUTODIN system. Implementation of DMS within the Army (DMS-Army) is modernizing message services by providing special features including a free-flow message format, Joint and Coalition interoperability, multifunction workstations for most users, guaranteed timely delivery, sender and receiver authentication through the use of electronic signature, and end-to-end security. It will provide regional, installation level and user interfaces to DoD record communications services Army wide. Special features of this new message system include: (1) a user operated service concept, (2) a single form of message service using a simplified message format, (3) multilevel secure processing, and (4) automated local distribution via information transfer networks. The program's implementation emphasis transitioned from the Sustaining Base to the Tactical environment in December 1999. The Program's goal is to achieve last full operational capability by the end of FY05 and then transition into system sustainment in FY06.</td>
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<td>FY06/07 procures Tactical Message System (TMS) sets, that provide Sensitive But Unclassified, Secret, and Top Secret messaging capabilities. Specifically, this funding supports fielding, Field Service Representatives and Government Furnished Equipment necessary to support the fielding of the Army's TMS and continues the extension of DMS to the battlefield in support of the Warfighter. TMS will be fielded in accordance with Basis of Issue Plan (BOIP) as established by the US Army Signal Center at Ft. Gordon.</td>
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### Program Elements for Code B Items

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BU3770
DEFENSE MESSAGE SYSTEM (DMS)
Item No. 55 Page 1 of 3
Exhibit P-40
Budget Item Justification Sheet
### OPA2 Cost Elements

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TMS unit costs and quantities vary by user configuration requirements.

Total:
- FY 04: $11,180
- FY 05: $12,650
- FY 06: $6,433
- FY 07: $6,599
### Exhibit P-5a, Budget Procurement History and Planning

**Appropriation/Budget Activity/Serial No:** Other Procurement, Army / 2 / Communications and Electronics Equipment  
**Weapon System Type:** DEFENSE MESSAGE SYSTEM (DMS)  
**P-1 Line Item Nomenclature:** (BU3770)

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**REMARKS:** Configurations vary by user requirements and site locations.

*U.S. Air Force (USAF)*  
*Communications Electronics Command - Army (CECOM)*  
*Information Technology, E-Commerce, and Commercial Contracting Center - (ITEC4)*  
*New Equipment Training (NET)*  
*New Material In Brief (NMIB)*  
*Field Service Representatives (FSR)*  
*National Security Agency (NSA) Ft. Meade, Md.*
### Description:
The Installation Information Infrastructure Modernization Program (I3MP) encompasses the modernization and upgrade of the Telecommunications/Information infrastructure on Army installations in the Continental United States (CONUS), Europe and Pacific theaters, and the management of the Army Enterprise Systems. I3MP provides the capabilities to support the Global Information Grid-Bandwidth Expansion (GIG-BE), Home Station Operation Centers (HSOC), Army Campaign Plan, Modularity, Army Knowledge Management (AKM) Goal 3, web enabled applications, image processing for intelligence missions, command and control for Army Expeditionary, Joint and Combined Forces, telemedicine and telemaintenance. At the installation level, I3MP delivers an integrated information system that is state-of-the-art, secure, interoperable and capable of passing 10 mega bit (mb) of data traffic to the desktop. At the Enterprise level, I3MP provides the Army with capabilities and adaptive processes that support network-centric, secure access to systems and services throughout the Army environment. These infrastructure capabilities are critical in order to enable reach back and power projection of the digitized Army as well as employment of the advanced technology required for today's agile combat force.

Beginning in FY06, portions of Information Systems (BB8650) are realigned to Installation Info Infrastructure Mod Program: I3MP (BU0500). The realignment includes Information Systems (CONUS/Western Hem) (BB8700), the I3MP-E portion of Information Systems (EUCOM) (BB8800) and the I3MP-P portion of Information Systems (PACOM) (BB8900). In addition, Army DISN Router (BU0300) and Local Area Network (LAN) (BU4165) are also realigned to Installation Info Infrastructure Mod Program: I3MP (BU0500). This realignment will enable I3MP to manage the implementation of technology convergence (voice and data) more efficiently and effectively.

### Justification:
FY06/07 procures program implementation and engineering support to furnish and install Campus Area Networks that provide the infrastructure to manage the ever increasing data transfer requirements supporting key Army wartime doctrine and information technology transformation initiatives. These high speed backbone networks will modernize site data transport capability, improve connectivity, standardize transport networks and increase capacity in support of critical Army missions. In addition, FY06/07 procures upgrades to the Army’s voice communications infrastructure; a key component of the telecommunications network which allows deployed forces to stay digitally linked to their support base at home. The modernization efforts will provide for the convergence of voice, video and data on one platform and will allow the switches to support such applications as distance learning, video conferencing, telemedicine, voice over internet protocol, health and morale calls, computer telephony integration, wireless telecommunication, remote access, automated directory assistance and network management. It will also provide for the implementation of network operation tools critical to secure and manage the Army Enterprise.

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### Description:
The I3MP-Euope (I3MP-E) Program is the European theater portion of the Installation Information Infrastructure Modernization Program (I3MP) and is the primary initiative to provide increased voice and data connectivity to the installation, other support activities and deployed combat forces at Enduring locations in that theater. This program provides high capacity capabilities and near real time throughput for data, cable and voice solutions to sustain base installations throughout the European Area of Operations. It also provides for the acquisition of transport switching equipment to provide enhanced communications capabilities across the fiber optic backbone network. Its objective is to create an infrastructure sufficiently flexible to meet ever increasing telecommunication requirements. This program also fields integrated, supportable Information Technology (IT) solutions for transformation in business processes which enable the Army to manage its infrastructure as an Enterprise. This program supports the Global Information Grid-Bandwidth Expansion (GIG-BE), Home Station Operation Centers (HSOC), Army Campaign Plan, Modularity, Army Knowledge Management (AKM) Goal 3, web enabled applications, image processing for intelligence missions, command and control for Army Expeditionary, Joint and Combined Forces, telemedicine and telemaintenance.

Beginning in FY06, the I3MP portion of funding included in Information Systems European Command (EUCOM) (BB8800) will be realigned to I3MP-Europe (BU0510).

### Justification:
FY06/07 procures implementation and engineering support to furnish and install backbone Metropolitan Area Networks (MAN) and Campus Area Networks (CAN) at 45 sites in the EUCOM theater. MAN connectivity and CAN installations are critical to support the ever increasing data transport requirements supporting key Army wartime doctrine. High speed backbone CANs will be installed to modernize installation transport capability, standardize transport networks, and increase the sustaining base capacity for key Army systems such as Army Knowledge Management (AKM) Goal 3, Distance Learning, DoD Standard Procurement System (SPS), Global Combat Support System Army (GCSS-A), Installation Support Module (ISM), Defense Message System (DMS), Active Directory and other web enabled applications. I3MP-Europe also procures Top Level Architecture (TLA) security and Firewall equipment, Active Directory and Server Consolidation equipment. In addition, FY06/07 procures implementation and engineering that provides for technology convergence of voice and data platforms. FY06/07 will procure transport-switching equipment and will be synchronized with the installation of tie cables installed under the I3MP-Europe and other programs.

### Program Elements for Code B Items:

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### Exhibit P-5a, Budget Procurement History and Planning

#### Appropriation/Budget Activity/Serial No:
Other Procurement, Army / 2 / Communications and Electronics Equipment

#### Weapon System Type:
I3MP - Europe (BU0510)

#### P-1 Line Item Nomenclature:
Other Procurement, Army / 2 / Communications and Electronics Equipment

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#### Remarks:
Quantities reflect the number of sites at which work is performed. Due to the unique configuration requirements at each site, unit costs will vary.
### Exhibit P-40, Budget Item Justification Sheet

**Appropriation/Budget Activity/Serial No:**
Other Procurement, Army - Communications and Electronics Equipment

**P-1 Item Nomenclature:**
I3MP - Pacific (BU0520)

**Program Elements for Code B Items:**

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**Description:**
The Installation Information Infrastructure Modernization Program-Pacific (I3MP-P) Program is the Pacific theater portion of the I3MP and is the primary initiative to digitize and provide increased voice and data connectivity to the installation, other support activities and deployed combat forces at Enduring locations in that theater. This program provides high capacity capabilities and near real time throughput for data, cable and voice solutions to sustaining base installations throughout the Pacific Area of Operations. It also provides for the acquisition of transport switching equipment to provide enhanced communications capabilities across the fiber optic backbone network. Its objective is to create an infrastructure sufficiently flexible to meet ever increasing telecommunication requirements. This program also fields integrated, supportable Information Technology (IT) solutions for transformation in business processes which enable the Army to manage its Infrastructure as an Enterprise. This program supports the Global Information Grid-Bandwidth Expansion (GIG-BE), Home Station Operation Centers (HSOC), Army Campaign Plan, Modularity, Army Knowledge Management (AKM) Goal 3, web enabled applications, image processing for intelligence missions, command and control for Army Expeditionary, Joint and Combined Forces, telemedicine and telemaintenance.

Beginning in FY06, the I3MP funding included in Information Systems Pacific Command (PACOM) (BB8900) will be realigned to I3MP-Pacific (BU0520).

**Justification:**
FY06/07 procures implementation and engineering support to furnish and install backbone Metropolitan Area Networks (MAN) and Campus Area Networks (CAN) at 18 sites in the PACOM theater. MAN connectivity and CAN installations are critical to support the ever increasing data transport requirements supporting key Army wartime doctrine. High speed backbone CANs will be installed to modernize installation transport capability, standardize transport networks, and increase the sustaining base capacity for key Army systems such as Army Knowledge Management (AKM) Goal 3, Distance Learning, DoD Standard Procurement System (SPS), Global Combat Support System Army (GCSS-A), Installation Support Modules (ISM), Defense Message System (DMS), Active Directory and other web enabled applications. I3MP-Pacific also procures Top Level Architecture (TLA) security and Firewall equipment, Active Directory and Server Consolidation equipment. In addition, FY06/07 procures implementation and engineering that provides for the technology convergence of voice and data platforms. FY06/07 will procure transport-switching equipment and will be synchronized with the installation of tie cables installed under the I3MP-Pacific and other programs.
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I3MP - Pacific

Weapon System Cost Analysis

Exhibit P-5, Weapon

OPA2 Cost Analysis
### Exhibit P-5a, Budget Procurement History and Planning

**Appropriation/Budget Activity/Serial No:** Other Procurement, Army / 2 / Communications and Electronics Equipment  
**Weapon System Type:**  
**P-1 Line Item Nomenclature:** I3MP - Pacific (BU0520)

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<th>Award Date</th>
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**Remarks:** Quantities reflect the number of sites at which work is performed. Due to the unique configuration requirements at each site, unit costs will vary.
**Description:**
The Installation Information Infrastructure Modernization Program—CONUS (I3MP-C) is the CONUS portion of the I3MP and is the primary initiative to digitize and provide increased voice and data connectivity to the installation and other support activities in CONUS. This program provides high capacity capabilities and near real-time throughput for data, cable, and voice solutions to sustaining base installations throughout CONUS. It also provides for the acquisition of transport switching equipment to provide enhanced communications capabilities across the fiber optic backbone network. Its objective is to create an infrastructure sufficiently flexible to meet ever-increasing telecommunication requirements. This program also fields integrated, supportable Information Technology (IT) solutions for transformation in business processes which enable the Army to manage its infrastructure as an Enterprise. This program supports the Global Information Grid-Bandwidth Expansion (GIG-BE), Home Station Operation Centers (HSOC), Army Campaign Plan, Modularity, Army Knowledge Management (AKM) Goal 3, web enabled applications, image processing for intelligence missions, command and control for Army Expeditionary, Joint, and Combined Forces, telemedicine, and telemaintenance. Beginning in FY06, funding included in Information Systems CONUS/Western Hem (BB8700), Army DISN Router (BU0300), and Local Area Network (LAN) (BU4165) will be realigned to I3MP-CONUS (BU0530).

**Justification:**
FY06/07 procures implementation and engineering support to furnish and install backbone Metropolitan Area Networks (MAN) and Campus Area Networks (CAN) at 10 sites in the CONUS theater. MAN connectivity and CAN installations are critical to support the ever-increasing data transport requirements supporting key Army wartime doctrine. High-speed backbone CANs will be installed to modernize installation transport capability, standardize transport networks, and increase the sustaining base capacity for key Army systems such as Army Knowledge Management (AKM) Goal 3, Distance Learning, DoD Standard Procurement System (SPS), Global Combat Support System Army (GCSS-A), Installation Support Modules (ISM), Defense Message System (DMS), Active Directory, and other web-enabled applications. In addition, I3MP-CONUS will provide for the upgrade and modernization of voice communications systems at approximately 20 installations per year. I3MP-C also procures Top Level Architecture (TLA) perimeter security with Firewall and intrusion detection/prevention equipment, Active Directory, Exchange, Enterprise Directory Service, and Server Consolidation equipment.
### OPA2 Cost Elements

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### Exhibit P-5a, Budget Procurement History and Planning

**Appropriation/Budget Activity/Serial No:**
Other Procurement, Army / 2 / Communications and Electronics Equipment

**Weapon System Type:**
P-1 Line Item Nomenclature:
I3MP - CONUS (BU0530)

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**REMARKS:**
Quantities reflect the number of sites at which work is performed. Due to the unique configuration requirements at each site, unit costs will vary.
**Description:**
The Local Area Network (LAN) mission encompasses two major programs; the Local Area Network (LAN) Program and the Business Enterprise Systems (BES) Program. The LAN Program is comprised of two different efforts; the Common User Installation Transport Network (CUITN) and the Outside Cable Rehabilitation (OSCAR) program. CUITN provides the common user backbone Campus Area Network (CAN) consisting of the data networking electronics and fiber optic cable to interconnect the communications nodes supporting users in office buildings. CUITN provides an intelligent and secure data networking information infrastructure which supports the Army Installation Information Infrastructure Modernization Program (I3MP) at posts, camps and stations. CUITN also provides the capability to transport high-volume and near real time data throughout the installation and to the Defense Information Systems Network (DISN) in support of sustainment, contingencies and split-based operations. OSCAR provides for the manhole, ductwork and cabling for the infrastructure upgrade. It also augments and supports replacement and expansion of information transport medium (single mode fiber optic cable, copper wire and wireless systems) to meet the requirements of voice, data and the single line concept. The BES Program mission is to field integrated, supportable Information Technology (IT) solutions for transformation in business processes which enable the Army to manage its Infostructure as an Enterprise. The BES program will serve as the Army's single point of contact for installations and users planning and implementing Enterprise management initiatives, provide mandatory review, oversight, process and standards guidance to the Army Directorates of Information Management (DOIMs) and Regional Chief Information Officers (RCIOs) as well as optional support for planning, execution, and program management of Enterprise initiatives.

**Justification:**
Beginning in FY2006, Local Area Network (LAN) (BU4165) is realigned to I3MP-CONUS (BU0530).

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| Program Elements for Code B Items: | Code: | Other Related Program Elements: |
|-----------------------------------|-------|---------------------------------
| Proc Qty                          |       |                                 |
| Gross Cost                        | 450.7 | 107.9                           |
| FY 2004                           | 101.5 | 83.1                            |
| FY 2005                           |       |                                 |
| FY 2006                           |       |                                 |
| FY 2007                           |       |                                 |
| FY 2008                           |       |                                 |
| FY 2009                           |       |                                 |
| FY 2010                           |       |                                 |
| FY 2011                           |       |                                 |
| To Complete                       |       |                                 |
| Total Proc Cost                   | 450.7 | 107.9                           |
| FY 2004                           | 101.5 | 83.1                            |
| FY 2005                           |       |                                 |
| FY 2006                           |       |                                 |
| FY 2007                           |       |                                 |
| FY 2008                           |       |                                 |
| FY 2009                           |       |                                 |
| FY 2010                           |       |                                 |
| FY 2011                           |       |                                 |
| To Complete                       |       |                                 |
| Total Proc Cost                   | 743.2 |                                 |
| Wpn Sys Proc U/C                  |       |                                 |

**Budget Item Justification Sheet**

**Appropriation/Budget Activity/Serial No:**
Other Procurement, Army /2/ Communications and Electronics Equipment

**P-1 Item Nomenclature:**
LOCAL AREA NETWORK (LAN) (BU4165)

**Date:** February 2005
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## Exhibit P-5a, Budget Procurement History and Planning

### Appropriation/Budget Activity/Serial No:
Other Procurement, Army / 2 / Communications and Electronics Equipment

### Weapon System Type:
LOCAL AREA NETWORK (LAN) (BU4165)

### P-1 Line Item Nomenclature:
LOCAL AREA NETWORK (LAN) 206

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**REMARKS:**
Quantities reflect the number of sites at which work is performed. Due to the unique configuration requirements at each site, unit costs vary.

CECOM - Communications Electronics Command
GSA - General Services Administration
Pen Ren - Pentagon Renovation Office
**Exhibit P-40, Budget Item Justification Sheet**

**Appropriation/Budget Activity/Serial No:**
Other Procurement, Army /2/Communications and Electronics Equipment

**P-1 Item Nomenclature**
PENTAGON INFORMATION MGT AND TELECOM (BQ0100)

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**Description:**
The Pentagon Renovation Project is an on-going construction project directed by the Office of the Secretary of Defense (OSD) and implemented by a Program Manager (OSD/Washington Headquarters Services (WHS)) and an Army Project Office, Information Technology Systems (ITS, formerly the Information Management and Telecommunications Project Office, IM&T-PR). The ITS Project Office is responsible for the relocation of existing Information Technology (IT) facilities while sustaining operations and implementing a new modernized Pentagon telecommunications infrastructure in concert with Pentagon Renovation Construction. Relocation includes moving the National Military Command Center Services Operations Center, merging seven technical control facilities, consolidating eleven automated data processing facilities to two facilities, and consolidating fifteen command and control tactical and administrative telephone switches to eight. The IT infrastructure includes the installation of an unclassified/classified backbone and a Network and System Management Center. The implementation of IT requirements is integral to each phase of the Pentagon Renovation and Construction Program due to the synchronization of both programs. The ITS Project Office will provide modern integrated information and telecommunication capabilities to all levels of command in the Pentagon including OSD, the Joint Staff, the Army, Navy, Marine Corps, Air Force and Defense Agencies.

**Justification:**
FY 2006/2007 procures the telecommunication backbone infrastructure equipment and services for completion of Wedge 2, continuation of Wedge 3, and initiation of Wedge 4 for the renovation of the Pentagon, including data switches, routers, media and cable. In addition, the funds will also procure equipment and enterprise software required to integrate the Wedges 2, 3, and 4 network into the Network and Systems Management Center, which manages the unclassified and classified backbones for the Pentagon.
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**Remarks:** The General Dynamics contract is a single acquisition approach for Wedges 2-5 utilizing a sophisticated incentive arrangement that emphasizes customer satisfaction and quality of performance that penalizes contractor behavior to maximize profit at the expense of performance. The contractor only realizes profit if the government determines it has earned it. This acquisition approach is truly producing a "win-win" situation. The telecommunications backbone infrastructure is being implemented on cost and on schedule.
### Description:
The All Source Analysis System (ASAS) provides US Army commanders at echelons above corps through battalion a standard all source intelligence processing and reporting system that provides the means for gaining a timely and comprehensive understanding of enemy deployments, capabilities, and potential courses of action. The system interfaces with selected national, joint, and theater Intelligence assets, adjacent/higher/lower military intelligence preprocessors, Distributed Common Ground Station-Army (DCGS-A), Army Battle Command System (ABCS), and organic deployed Intelligence/Electronic Warfare (IEW) teams and assets. The ASAS product set currently includes: ASAS-Light, Analysis and Control Team Enclave (ACT-E), Analysis and Control Element (ACE), and the Communications Control Set (CCS). The ASAS system uses standard joint and Army protocols and message formats to interface with forward deployed sensor/teams, intelligence preprocessors and joint/national/Army C3I systems.

### Justification:
FY06/07 procures and fields ASAS Light to Stryker Brigade Combat Teams (SBCT), continues procurement of ASAS Light hardware, conducts training and fielding for ACT-E and ASAS Light, and training of ACE for Operation Enduring Freedom/Operation Iraqi Freedom (OEF/OIF) rotations.

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<td>FY06/07 procures and fields ASAS Light to Stryker Brigade Combat Teams (SBCT), continues procurement of ASAS Light hardware, conducts training and fielding for ACT-E and ASAS Light, and training of ACE for Operation Enduring Freedom/Operation Iraqi Freedom (OEF/OIF) rotations.</td>
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### Exhibit P-5a, Budget Procurement History and Planning

**Appropriation/Budget Activity/Serial No:** Other Procurement, Army / 2 / Communications and Electronics Equipment  
**Weapon System Type:** ASAS - MODULES (TIARA)  
**P-1 Line Item Nomenclature:** ASAS - MODULES (TIARA) (K28801)

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<td>Apr-04</td>
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**REMARKS:** All equipment is NDI/COTS purchased through PM CHS or other Army Activities. Cost and composition of ASAS unit sets vary because of unit mission, echelon assigned and the configuration of the hardware module procured.
Exhibit P-40, Budget Item Justification Sheet

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**Description:**
The Integrated Broadcast Service (IBS) is the worldwide DoD standard network for transmitting tactical and strategic intelligence and targeting data within a common format and migrating to a single family of Joint Tactical Terminals (JTT) and CIBS modules for improved operational jointness with Army, Navy, Air Force and Marine platforms.

The Joint Tactical Terminal Common Integrated Broadcast Service - Modules (JTT/CIBS-M) is a totally integrated Joint Program (all services and Special Operations Command (SOCOM)) which was created to consolidate and replace existing IBS receiver functionality/capability, with a "common family" of IBS modules (both hardware and software). This is required to implement the IBS Plan and consolidate/eliminate duplicative efforts. The Joint Tactical Terminal (JTT) program leverages, to the maximum extent possible, early tech-based efforts initiated by organizations such as the National Reconnaissance Office (NRO).

The JTT/CIBS-M will provide IBS interoperability to a variety of tactical receivers across DoD and the services. SCA compliant legacy waveforms will be provided to Joint Tactical Radio System (JTRS) JPO for inclusion into the JTRS Library to meet intelligence broadcast requirements. The terminals provide direct, secure and dedicated connectivity/interoperability for rapid targeting, threat avoidance, battlefield management, mission planning and sensor cueing. The equipment can be mounted in fixed and rotary wing aircraft as well as fixed or mobile ground platforms. The JTTs are a subcomponent in major Army, Air Force, Navy and Marine Corps systems. The JTT Briefcases (B) Standalone Configurations were fielded to the US Army Special Operations Command. JTT will be fielded to SBCTs as part of the CGS and PM TOC Platforms.

**Justification:**
FY06/07 funding procures new JTT-IBS terminals to support Army, joint services and coalition Integrated Broadcast System requirements.
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V29600
JTT/CIBS-M (TIARA)

Exhibit P-5
Weapon System Cost Analysis
### Exhibit P-5a, Budget Procurement History and Planning

**Weapon System Type:**

**JTT/CIBS-M (TIARA) (V29600)**

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<th>QTY</th>
<th>Unit Cost</th>
<th>Specs Avail Now?</th>
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**REMARKS:**

- JTT (T/R) Transmits and Receives
- TBD (Not Determined)

V29600

Item No. 60 Page 3 of 6
### FY 04 / 05 BUDGET PRODUCTION SCHEDULE

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**JTT Base System**

1. FY 04  A 60  0  60

2. FY 05  A 25  0  25

3. FY 06  A 35  0  35

**Total**  150  150

**JTT Option 1**

1. FY 04  A 30  0  30

2. FY 05  A 25  0  25

3. FY 06  A 35  0  35

**Total**  150  150

**Production Rates**

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<th>MFR Number</th>
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Procures additional quantities of JTTs (150) (Army 55 and 95 for other services). Assistant Secretary of Defense for Networks and Information Integration on 1 June 2004 approved the Army Request for JTRS Waiver to procure additional quantities of JTT radios.
## FY 06 / 07 BUDGET PRODUCTION SCHEDULE

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**Total 150**

**JTT Base System**

1 FY 04 A 60 0 60

1 FY 05 A 25 0 25

1 FY 06 A 35 0 35

**Total 150**

**JTT Option 1**

1 FY 04 A 30 0 30

1 FY 05 A 25 0 25

1 FY 06 A 35 0 35

**Total 150**
### FY 08 / 09 BUDGET PRODUCTION SCHEDULE

**P-1 Item Nomenclature:**
JTT/CIBS-M (TIARA) (V29600)

**Date:** February 2005

#### COST ELEMENTS

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**JTT Base System**

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**Total**

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Exhibit P-40, Budget Item Justification Sheet

Date: February 2005

Appropriation/Budget Activity/Serial No:
Other Procurement, Army /2/Communications and Electronics Equipment

P-1 Item Nomenclature
PROPHET GROUND (TIARA) (BZ7326)

Program Elements for Code B Items:

| Description: | Prophet's primary mission is providing 24-hour Situation Development and Information Superiority to the supported maneuver brigade to enable the most effective engagement of enemy forces. Prophet is an integral part of the Army Transformation, providing near real time (NRT) information to the Brigade Commander within his combat decision cycle. It is the tactical commander’s sole organic ground-based COMINT/EW system for the Division, Stryker Brigade Combat Team (SBCT) and Armored Calvary Regiments (ACR). Prophet provides the tactical commander with the next generation Signals Intelligence/Electronic Warfare (SIGINT/EW) - radio detection/direction finding and electronic attack capabilities. Prophet Block II/III functionality will be resident in the Future Combat System (FCS). That technology and Tactics, Techniques and Procedures (TTPs) will be leveraged. Prophet replaced the division level Trailblazer and Teammate legacy SIGINT systems in Block I, and will replace TrafficJam in Block II. Prophet stationary and on-the-move direction finding information develops battlespace visualization, intelligence preparation of the battlefield (IPB) and target development for enemy and gray emitters within radio line-of-sight across the brigade area of responsibility. Block II/III will add Electronic Attack (EA) and an improved signal type detection capability. This increased capability will provide the Brigade Commander with the ability to detect and suppress all types of communications anticipated in the future battlespace. Additionally, Prophet provides the ability to intercept voice communications data when on board linguists are available. This NRT information when processed provides a key component of the fused intelligence common operating picture (COP). Initially Prophet will interface with the maneuver brigade Analysis Control Team's (ACT) All Source Analysis System (ASAS)-Remote Work Stations (ASAS-RWS) via Prophet Control. Prophet Control is a surrogate for the Distributed Common Ground System-Army (DCGS-A) in Blocks I to III. Prophet Control's functionality will be integrated on the Future Force DCGS-A platform. The ACT will forward the gathered information to the division and armored cavalry Analysis Control Element's (ACE) ASAS. Prophet enables the Brigade Commander to detect signals while the vehicle is moving, a first for a Tactical SIGINT system. Prophet is being developed in a user prioritized block approach: Block I - Electronic Support (ES) (COMINT), Block II - Electronic Attack (EA), and Block III - Modern Signals. Enhancements to Block III capabilities include COMINT and EA capabilities. | 
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Remarks:
## FY 04 / 05 Budget Production Schedule

**Item No.:** 61  
**Page:** 4 of 6  
**Exhibit P-21**  
**PROPHET GROUND (TIARA) (BZ7326)**  
**Date:** February 2005

### Cost Elements

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#### Prophet Block I Systems

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- **Initial**: Production initiated.
- **Reorder**: Production required.

Total: 137 | 60 | 77
## FY 06 / 07 BUDGET PRODUCTION SCHEDULE

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## FY 08 / 09 Budget Production Schedule

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### Total

|       | 137 | 127 | 10 |

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### Remarks

- INITIAL
- REORDER
Exhibit P-40, Budget Item Justification Sheet

Date: February 2005

Appropriation/Budget Activity/Serial No: Other Procurement, Army /2/Communications and Electronics Equipment

P-1 Item Nomenclature

TUAV (B00301)

Program Elements for Code B Items:

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Description:
The Tactical Unmanned Aerial Vehicle program includes the Shadow 200 System, Small UAV, Extended Range/Multipurpose and Advance Payload, Joint Military Intelligence Program (JMIP). The Shadow 200 provides the Army maneuver commander with dedicated Reconnaissance, Surveillance and Target Acquisition (RSTA) and Battle Damage Assessment (BDA). The TUAV Shadow 200 air vehicle will meet a minimum range of 50 kilometers and remain on station for up to four hours. The baseline payload is electro-optic infrared (EO/IR). The TUAV Shadow 200 system consists of four air vehicles, each configured with an EO/IR sensor payload, ground control equipment, including communications equipment, launch and recovery equipment, remote video terminals, and High Mobility Multipurpose Wheeled Vehicles with trailer(s). The Shadow 200 is a brigade asset. Each system is supported at the brigade level by a Maintenance Section-Multifunctional and at the division level by a Mobile Maintenance facility.

ER/MP: The U.S. Army has a requirement for UAV systems that will provide near real time reconnaissance, surveillance, and target acquisition information to Army maneuver commanders. The Extended Range/Multipurpose (ER/MP) program was initiated to fulfill ORD requirements for a Division/Corps/Unit of Employment Medium Altitude Endurance UAV.

Advanced TUAV Payloads (B00302) budget line supports the procurement of the following systems: (1) The Synthetic Aperture Radar/ Ground Target Moving Indicator (SAR/GMTI) and (2) Extended Range Multi-Purpose (ER/MP) Electro Optical Infrared w/Laser Designator (EO/IR/LD). The SAR/GMTI is a multi-mode radar that provides an all-weather, wide area search capability with a built-in imaging mode for increased situational awareness. The SAR/GMTI payload is a complementary system of the Army's Future Combat System (FCS) and is a principal payload for the ER/MP UAV. The ER/MP EO/IR/LD provides a day/night capability to collect and display continuous imagery with the ability to designate targets of interest for attack by laser guided precision weapons.

Justification:
FY06/07 Shadow funding will be used for modification and retrofit of the fleet.

FY07 ER/MP funding will be used to retrofit training assets originally purchased with RDT&E funding. In addition, FY07 dollars will be used to support UAV's weaponization modifications.

FY07 procures SAR/GMTI and ER/MP EO/IR/LD payloads. Delivery of these payloads will support the fielding schedule of the ER/MP UAV system.
## Advanced TUAV Payloads (JMIP) (B00302)

**Program Elements for Code B Items:**

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**Description:**
Advanced Tactical Unmanned Aerial Vehicles (UAVs) Payloads (B00302) budget line supports the procurement of the following payload systems: (1) Synthetic Aperture Radar/Ground Moving Target Indicator (SAR/GMTI) and (2) Extended Range Multi-Purpose (ER/MP) Electro Optical Infrared w/Laser Designator (EO/IR/LD). The SAR/GMTI is a multi-mode radar that provides an all-weather, wide-area search capability with a built-in imaging mode for increased situational awareness. The SAR/GMTI payload is a complementary system to the Army's Future Combat System (FCS) and is a principal payload for the ER/MP UAV. The ER/MP EO/IR/LD provides a day/night capability to collect and display continuous imagery with the ability to designate targets of interest for attack by laser guided precision weapons.

**Justification:**
FY2007 procures SAR/GMTI and ER/MP EO/IR/LD payloads. Delivery of these payloads will support the fielding schedule of the ER/MP UAV system.
## OPA2 Cost Elements

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### Exhibit P-5a, Budget Procurement History and Planning

**Appropriation/Budget Activity/Serial No:**
Other Procurement, Army / 2 / Communications and Electronics Equipment

**Weapon System Type:**
Advanced TUAV Payloads (JMIP) (B00302)

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**B00301 (B00302)**
Advanced TUAV Payloads (JMIP)
### FY 07 / 08 BUDGET PRODUCTION SCHEDULE

**P-1 Item Nomenclature:**
Advanced TUAV Payloads (JMIP) (B00302)

**Date:**
February 2005

**Cost Elements**

| MFR | F | S | Y | R | PROC QTY Each | ACCEP PRIOR TO 1 OCT | BAL DUE AS OF 1 OCT | N | DEC | J | F | M | A | M | U | L | J | U | G | S | E | P | COST ELEMENTS |
|     |   |   |   |   |               |                     |                      | O | D | E | N | C | J | F | E | B | A | P | R | Y | U | N | L | G | E | P | T | C | V |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|     |   |   |   |   |               |                     |                      | C | O | E | A | E | A | P | A | U | U | U | E | C | O | E | A | E | A | P | A | U | U | U | E | C | O | E | A | E | A | P | A | U | U | U |   |
|     |   |   |   |   |               |                     |                      | T | V | C | N | B | R | R | Y | N | L | G | P | T | V | C | N | B | R | R | Y | N | L | G | P | T | V | C | N | B | R | R | Y | N | L | G | P |

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- **ER/MP EO/IR/LD Hardware contract**
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**Exhibit P-40, Budget Item Justification Sheet**

**Appropriation/Budget Activity/Serial No:**  
Other Procurement, Army /2/Communications and Electronics Equipment

**P-1 Item Nomenclature:**  
Extended Range/Multi-Purpose (ER/MP): UAV (JMIP) (B00305)

**Program Elements for Code B Items:**

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**Description:**  
The U.S. Army has a requirement for UAV systems that will provide near real time reconnaissance, surveillance, and target acquisition information to Army maneuver commanders. The Extended Range/Multi-purpose (ER/MP) program was initiated to fulfill ORD requirements for a Division/Corps/Unit of Employment Medium Altitude Endurance UAV.

This funding addresses procurement and integration of a weaponization capability into the ERMP UAV systems. Includes the software modules for the UAV system the hardware kits for the ground control station, ground support equipment and any recurring modifications required to the airframes to support multiple weapons launch. This will include requisite airframe, mission management software, or weapon compatibility modifications to allow UAVs to carry and employ weapons. It includes production readiness reviews and acceptance of the manufacturing and production process.

**Justification:**  
FY06 No procurement. FY 07 funding will be used for ER/MP weaponization to include purchase of air vehicle hardware for weaponization, bomb racks, and weaponization mounts. FY07 funding will also be used for procurement of air vehicles with standard equipment packages, communication and data links, ground support equipment, ground control stations, automatic takeoff and landing packages, and A-kits for integrations of reconnaissance, surveillance, target acquisition, and communications packages.
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**B00301 (B00305)**

Extended Range/Multi-Purpose (ER/MP): UAV (JMIP)

Item No. 62 Page 7 of 16

Exhibit P-5

Weapon System Cost Analysis
### Exhibit P-40, Budget Item Justification Sheet

**Appropriation/Budget Activity/Serial No:** Other Procurement, Army /2/Communications and Electronics Equipment

**P-1 Item Nomenclature**

**TACTICAL UNMANNED AERIAL VEHICLE (TUAV) (JMIP) (BA0330)**

**Program Elements for Code B Items:**

| Description: | The Tactical Unmanned Aerial Vehicle (TUAV) Shadow 200 provides the Army maneuver commander with dedicated Reconnaissance, Surveillance and Target Acquisition (RSTA) and Battle Damage Assessment (BDA). The TUAV Shadow 200 air vehicle will meet a minimum requirement range of 50 kilometers and remain on station for up to four hours. The baseline payload is electro-optic infrared (EO/IR). Procurement of systems including attrition air vehicles commenced in FY 2001. The TUAV Shadow 200 system consists of four air vehicles, each configured with an EO/IR sensor payload, ground control equipment, including communications equipment, launch and recovery equipment, remote video terminals, and High Mobility Multipurpose Wheeled Vehicles with trailer(s). The Shadow 200 is a brigade asset. Each system is supported at the brigade level by a Maintenance Section - Multifunctional and at the division level by a Mobile Maintenance facility. |

| Justification: | FY06/07 Shadow funding will be used for modification and retrofit of the fleet. These systems will be fielded to 25th ID, 4th ID, 3 to 10th MTN, 25th ID, 1st CAV and 25th ID. System contributes to the commander's dominant situational awareness and allows him to shape the battlefield to ensure mission success. |

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| Description: | |
| Justification: | |

| Date: | February 2005 |

| Exhibit P-40 | |

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B00301 (BA0330)  
TACTICAL UNMANNED AERIAL VEHICLE (TUAV) (JMIP)  
233  
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**REMARKS:** SDD contract with production options through FY 02 was awarded via competition to AAI in December 1999.

*Unit cost above is the hardware cost shown on the first line of the P5/P5e. Flyaway and Weapon System Costs include other lines and are shown on the P40.*
## FY 03 / 04 BUDGET PRODUCTION SCHEDULE

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Total: 37 2 35
# FY 07 / 08 BUDGET PRODUCTION SCHEDULE

## TACTICAL UNMANNED AERIAL VEHICLE (TUAV) (JMIP) (BA0330)

**Date:** February 2005

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**Production Rates:**

- **MIN:** 1.00
- **1-8.5:** 10.00
- **MAX:** 12.00
- **D:** 0

**Production Rates (MFR Number):**

- **INITIAL:** 4
- **REORDER:** 5

**Admin Lead Time (MFR Prior 1 Oct):**

- **INITIAL:** 4
- **REORDER:** 5

**Admin Lead Time (MFR After 1 Oct):**

- **INITIAL:** 11
- **REORDER:** 15

**Total (MFR After 1 Oct):** 16

**Remarks:**

- **INITIAL**
- **REORDER**
### FY 09 / 10 BUDGET PRODUCTION SCHEDULE

**TACTICAL UNMANNED AERIAL VEHICLE (TUAV) (JMIP) (BA0330)**

**Date:** February 2005

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# FY 11 / 12 BUDGET PRODUCTION SCHEDULE

## TACTICAL UNMANNED AERIAL VEHICLE (TUAV) (JMIP) (BA0330)

### Date:
February 2005

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- REORDER
### FY 13 / 14 BUDGET PRODUCTION SCHEDULE

**P-1 Item Nomenclature:**
TACTICAL UNMANNED AERIAL VEHICLE (TUAV) (JMIP) (BA0330)

**Date:**
February 2005

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**Description:**
The Small Unmanned Air Vehicle (SUAV) program provides the ground maneuver battalions and below with unprecedented situational awareness and enhanced force protection via a man portable UAV capable of handling a wide variety of Intelligence, Surveillance & Reconnaissance (ISR) tasks at the Battalion and below. The Army has funded the procurement of 185 Raven SUAV systems (total) in FY03/04 in Budget Line Item (BLIN M80101), Rapid Equipping Soldier Support Equipment under an Urgent Wartime Requirement for stay-behind equipment forces deployed in support of OIF/OEF. Follow-on requirement is for procurement of systems to support fielding of modular units.

**Justification:**
FY 2006/FY 2007 procures 100 Small Systems Hardware each year.

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**SMALL UNMANNED AERIAL VEHICLE**

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**Exhibit P-5, Weapon OPA2 Cost Analysis**

Appropriation/Budget Activity/Serial No.:
- Other Procurement, Army / 2 /
- Communications and Electronics Equipment

P-1 Line Item Nomenclature:
- Small UAV: (SUAV) (B00303)

Weapon System Type: Small UAV: (SUAV) (B00303)

Date: February 2005
**Exhibit P-40, Budget Item Justification Sheet**

**Appropriation/Budget Activity/Serial No:**
Other Procurement, Army /2/Communications and Electronics Equipment

**P-1 Item Nomenclature**
Army Common Ground Station (CGS) (TIARA) (BA1080)

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- **Flyaway U/C**
- **Wpn Sys Proc U/C**

**Description:**
The Common Ground Station (CGS) is a rapidly deployable and mobile tactical sensor data processing and dissemination center mounted on two High Mobility Multi-Wheeled Vehicles (HMMWVs). As part of the Stryker Brigade Combat Team (SBCT), and the Counter Offensive Force/Counter Attack Corps, CGS provides a key interface between intelligence and command and control systems by concurrently providing timely intelligence data and receiving the Common Tactical Picture (CTP) via the Tactical Operations Center (TOC) Local Area Network (LAN). CGS integrates imagery and signals Intelligence, Surveillance and Reconnaissance (ISR) data products into a single visual presentation of the battlefield, providing commanders at Echelons Above Corps, Divisions and Brigades with Near Real Time (NRT) situational awareness, enhanced battle management and targeting capabilities. CGS initially served as the ground station for the Joint Surveillance Target Attack Radar System (Joint STARS), but has evolved into a multi-sensor ground station that receives, processes and displays sensor data from Predator, Tactical Unmanned Aerial Vehicle (TUAV), Airborne Reconnaissance Low (ARL), U2, Guardrail/Common Sensor (GRCS) and Integrated Broadcast Service (IBS) while preserving a small tactical footprint. CGS is the Army's premier radar Moving Target Indicator (MTI) ground station, receiving MTI data from Joint STARS, ARL and U2 sensors. Additionally, CGS receives and processes data and cross cues airborne sensors that include SAR, EO/IR, video and Signals Intelligence (SIGINT) sensor data. CGS disseminates timely targeting and battlefield surveillance data to Army Battlefield Command System (ABCS) nodes. CGS contains a robust modeling and simulation capability that supports linkage to sensor simulations, system-of-systems training and participation in a wide range of exercises on a worldwide basis. CGS with its Joint STARS and other sensor feeds, fulfills an urgent air-land battlefield requirement by providing an Army/Air Force sensor and attack control capability to locate, track, classify and assist in attacking moving and stationary targets beyond the Forward Line of Troops (FLOT). The CGS/JSWS has repeatedly provided high value targeting and intelligence data to Field Commanders during contingencies (e.g. Operation Joint Endeavor), as well as during standard mission operations of fielded units.

**Justification:**
No funding in FY06/07.
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The Digital Topographic Support System (DTSS) provides digital terrain analysis and map updates to commanders and weapons platforms in support of mission planning (e.g., imagery exploitation, Cover and Concealment, other Intelligence Preparation Battlespace (IPB)), rehearsal (e.g., 3D fly throughs, simulations) and execution (e.g., Common Operating Picture, route planning). The DTSS automates terrain analysis and visualization, data base development, updates, management, dissemination, and graphics reproduction. The Combat Terrain Information Systems (CTIS) Modernization Plan emphasizes the development of a combined, integrated, tactically deployable, fully autonomous terrain analysis and graphics reproduction capability. CTIS consists of the Digital Topographic Support System-Light (DTSS-L)(HMMWV), DTSS-Deployable (DTSS-D), DTSS-Base (DTSS-B) and the High Volume Map Production (HVMP) equipment.

The DTSS-L is a highly mobile shelterized system which is capable of supporting a full range of military operations, as well as peacetime stability and support operations. The DTSS-D provides a Commercial Off the Shelf (COTS) configuration in transit cases that is capable of operating all of the terrain analysis software. The DTSS-D consists of transportable workstations and peripherals that can be set up to augment the tactical configurations. The DTSS-D does not include tactically deployable shelters and vehicles or tactical communications. The DTSS-B was procured in response to an initiative to develop the capability to generate terrain information over sparsely mapped areas to support contingency, mission rehearsal and training operations. The DTSS-B provides a Commercial Off the Shelf (COTS) configuration in transit cases that is capable of operating all of the terrain analysis software. The DTSS-D consists of transportable workstations and peripherals that can be set up to augment the tactical configurations. The DTSS-D does not include tactically deployable shelters and vehicles or tactical communications. The DTSS-B was procured in response to an initiative to develop the capability to generate terrain information over sparsely mapped areas to support contingency, mission rehearsal and training operations. The DTSS-B includes a component that is capable of handling National Technical Means (NTM) information in a secure environment. The HVMP provides a tactical capability to rapidly reproduce large volumes of digital topographic materiel. HVMP is capable of reproducing information from a variety of digital and hardcopy sources via direct digital interfaces. Additionally, an institutional training classroom environment for all DTSS configurations has been delivered to the National Geospatial-Intelligence School (NGS)(formerly the Defense Mapping School). NGS provides critical MOS specific training on the operation of CTIS developed systems. CTIS systems operate within the Battle Command System architecture and are deployed from Brigade through EAC, Stryker Brigades and Special Forces Groups.

Justification:
FY 2006/2007 procures the DTSS-D and HVMP. CTIS systems to be fielded to Army Engineer Terrain Teams at Brigade through Echelons Above Corps, Stryker Brigades, and Special Forces Groups.

Description:
The Digital Topographic Support System (DTSS) provides digital terrain analysis and map updates to commanders and weapons platforms in support of mission planning (e.g., imagery exploitation, Cover and Concealment, other Intelligence Preparation Battlespace (IPB)), rehearsal (e.g., 3D fly throughs, simulations) and execution (e.g., Common Operating Picture, route planning). The DTSS automates terrain analysis and visualization, data base development, updates, management, dissemination, and graphics reproduction. The Combat Terrain Information Systems (CTIS) Modernization Plan emphasizes the development of a combined, integrated, tactically deployable, fully autonomous terrain analysis and graphics reproduction capability. CTIS consists of the Digital Topographic Support System-Light (DTSS-L)(HMMWV), DTSS-Deployable (DTSS-D), DTSS-Base (DTSS-B) and the High Volume Map Production (HVMP) equipment.

The DTSS-L is a highly mobile shelterized system which is capable of supporting a full range of military operations, as well as peacetime stability and support operations. The DTSS-D provides a Commercial Off the Shelf (COTS) configuration in transit cases that is capable of operating all of the terrain analysis software. The DTSS-D consists of transportable workstations and peripherals that can be set up to augment the tactical configurations. The DTSS-D does not include tactically deployable shelters and vehicles or tactical communications. The DTSS-B was procured in response to an initiative to develop the capability to generate terrain information over sparsely mapped areas to support contingency, mission rehearsal and training operations. The DTSS-B includes a component that is capable of handling National Technical Means (NTM) information in a secure environment. The HVMP provides a tactical capability to rapidly reproduce large volumes of digital topographic materiel. HVMP is capable of reproducing information from a variety of digital and hardcopy sources via direct digital interfaces. Additionally, an institutional training classroom environment for all DTSS configurations has been delivered to the National Geospatial-Intelligence School (NGS)(formerly the Defense Mapping School). NGS provides critical MOS specific training on the operation of CTIS developed systems. CTIS systems operate within the Battle Command System architecture and are deployed from Brigade through EAC, Stryker Brigades and Special Forces Groups.
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**OPA2 Cost Analysis**

**Weapon System Type:** DIGITAL TOPOGRAPHIC SPT SYS (DTSS) (TIARA) (KA2550)

**P-1 Line Item Nomenclature:** DIGITAL TOPOGRAPHIC SPT SYS (DTSS) (TIARA) (KA2550)

**Appropriation/Budget Activity/Serial No.:** Other Procurement, Army / 2 /
Communications and Electronics Equipment

**Date:** February 2005

**Exhibit P-5, Weapon System Cost Analysis**

**Item No. 65 Page 2 of 3**

**Exhibit P-5**
Weapon System Cost Analysis

**KA2550**
DIGITAL TOPOGRAPHIC SPT SYS (DTSS) (TIARA)
### Exhibit P-5a, Budget Procurement History and Planning

**Appropriation/Budget Activity/Serial No:**
Other Procurement, Army / 2 / Communications and Electronics Equipment

**Weapon System Type:**
DIGITAL TOPOGRAPHIC SPT SYS (DTSS) (TIARA) (KA2550)

**P-1 Line Item Nomenclature:**
DIGITAL TOPOGRAPHIC SPT SYS (DTSS) (TIARA) (KA2550)

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**REMARKS:** FY 2006/2007 procures the DTSS-D and HVMP. CTIS systems will be fielded to Army Engineer Terrain Teams at Brigade through Echelons Above Corps, Stryker Brigades, and Special Forces Groups.
### Description:
The Tactical Exploitation System (TES) is an integral part of the Distributed Common Ground System - Army (DCGS-A), providing Intelligence products at the level of engagement. Division TES (DTES) at the division level offers a standalone system, with multiple communication interfaces and capabilities. DTES is packaged in High Mobility Multi-Wheeled Vehicles (HMMWV) and power sourced for operations. DTES is C-130 transportable and has On-the-Move (OTM) and Under-the-Hood (UTH) power capability. DTES is a self-contained integrated system with multiple, remoteable, and reconfigurable Multi-Functional Workstations (MFWS) to handle Imagery (IMINT) and Signals (SIGINT) Intelligence data. DTES will be in limited production relegated to replacing predecessor legacy systems and bridging capability at the division-level until DCGS-A architectures and production objectives are solidified. DTES experience and lessons learned permit scaling key components into small transit cased systems as TES-Lites. TES-Lites production begins in FY05 and concludes fielding FY06. TES-Lite systems will replace TENCAP systems at the Brigade and Armored Cavalry Regiment (ACR) level. In addition, nine TES-Lites will satisfy Special Forces (SOF) requirements.

On January 13, 2005, the Program Executive Office (PEO), Air, Space and Missile Defense (ASMD) merged with the PEO, Tactical Missiles to become the PEO, Missiles and Space.

### Justification:
FY06 no procurement.

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**TACTICAL EXPLOITATION SYSTEM (TIARA)**

**Weapon System Cost Analysis**

**February 2005**

**BZ7317**

**Item No. 67 Page 2 of 3**

**Exhibit P-5**

**Weapon System Cost Analysis**
## Exhibit P-5a, Budget Procurement History and Planning

**Appropriation/Budget Activity/Serial No:** Other Procurement, Army / 2 / Communications and Electronics Equipment  
**Weapon System Type:** TACTICAL EXPLOITATION SYSTEM (TIARA)  
**P-1 Line Item Nomenclature:** [BZ7317]

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**REMARKS:**  
TES-Light procurement for 21 systems starts in FY05 - End FY06. Subsystems will be designed and procured for the SOF systems. Nine TES-Lites (in 2006) will have Tacticomp subsystems. Twelve TES-Lites (six in 2005 and six in 2006) are for TENCAP replacement or Contingency Operations.
**Exhibit P-40, Budget Item Justification Sheet**

### Appropriation/Budget Activity/Serial No:
Other Procurement, Army /2/Communications and Electronics Equipment

### P-1 Item Nomenclature
DCGS-A (JMIP) (BZ7316)

### Program Elements for Code B Items:

| Description: | Advanced Intelligence, Surveillance and Reconnaissance (ISR) capabilities -- integrated vertically and horizontally from strategic to tactical level – will form the knowledge backbone of the Future Combat System of Systems (FCS) and the Future Force and enable all other capabilities. Distributed Common Ground System – Army (DCGS-A) will draw information from a wide variety of automated and manual sources; on-board sensors, space platforms, unattended air and ground vehicles, traditional and new ISR capabilities, and an assortment of correlated databases – all interactive and updated in near-real time. DCGS-A is focused on improving and accelerating the decision-action cycle and providing the means for commanders at all levels to achieve situational understanding and unified action through a common operational picture (COP) tailored to the force, mission, and situation. Combined with other battlefield functional area capabilities, this will allow Army commanders and joint warfighters to be aware of friendly forces, enemy forces, the environment, and to understand the consequences as each interact – the essence of the Army’s vision and requirements for network centric warfare. A key objective of DCGS-A is to reduce forward deployed footprint, executing the preponderance of ISR processing and exploitation at rear Unit of Employment and CONUS based facilities. An early DCGS-A initiative is the creation of CONUS based Fixed Site Home Station Nodes within the various Unit of Employment echelons, that directly support tactical Commanders through reach and split based operations. This program procures components and Current Force system modifications supporting the DCGS-A Fixed Site initiative. The Common Imagery Ground/Surface System (CIG/SS) is a subcomponent of DCGS-A and a Department of Defense (DoD) project aggregating all imagery ground/surface systems into a single project. The CIG/SS objective is to enable all systems to receive, process, exploit, and report any imagery source regardless of platform or sensor type to meet the intelligence and targeting needs of tactical commanders. The CIG/SS project provides the warfighter with an integrated and interoperable airborne reconnaissance imagery processing and exploitation capability that can be tailored for all levels of conflict. CIG/SS consolidated the Joint Service Imagery Processing System (JSIPS) program including the JSIPS-Navy, JSIPS-Air Force, JSIPS-Marine Corps, Tactical Exploitation System (TES), PACAF Interim National Exploitation System (PINES), and Tactical Exploitation Group (TEG) into a single project. Further information can be found in the Joint Military Intelligence Program (JMIP) Congressional Budget Justification Book.

### Justification:
FY06 procures additional components to standardize existing Fixed Site configurations, procures modifications to Current Force systems for Echelons at Corps and Above, and supports ISR split-based and reach operations with forward deployed units.

FY07 procures components for additional DCGS-A Fixed Sites and initial quantities of the DCGS-A Mobile configuration for fieldings to the Brigade Combat Teams (BCT) and Unit of Employment (UE).
### OPA2 Cost Elements

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**Exhibit P-5, Weapon OPA2 Cost Analysis**

Appropriation/Budget Activity/Serial No.:
Other Procurement, Army / 2 /
Communications and Electronics Equipment

P-1 Line Item Nomenclature:
DCGS-A (JMIP) (BZ7316)

Weapon System Type:

Date:
February 2005

BZ7316
DCGS-A (JMIP)
### Exhibit P-5a, Budget Procurement History and Planning

**Appropriation/Budget Activity/Serial No:**
Other Procurement, Army / 2 / Communications and Electronics Equipment

**Weapon System Type:**
DCGS-A (JMIP) [BZ7316]

**P-1 Line Item Nomenclature:**
Other Procurement, Army / 2 / Communications and Electronics Equipment

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**REMARKS:**

BZ7316

DCGS-A (JMIP)
### Exhibit P-5a, Budget Procurement History and Planning

**Appropriation/Budget Activity/Serial No:**
Other Procurement, Army / 2 / Communications and Electronics Equipment

**Weapon System Type:**
DCGS-A (JMIP) (BZ7316)

**P-1 Line Item Nomenclature:**

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- FY 2006: TBD
- FY 2007: TBD
- DTSS: TBD
- FIA: TBD
- Fielding Teams: TBD

**Date:**
February 2005
### FY 04 / 05 BUDGET PRODUCTION SCHEDULE

**COST ELEMENTS**

| MFR | FY   | SERV | PROC QTY | UNITS | ACCEP PRIOR TO 1 OCT | BAL DUE AS OF 1 OCT | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-----|------|------|----------|-------|----------------------|---------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| GOTS/COTS Products for Spiral 1-3 |
| 1    | FY 04 | A    |          | 0     |                      | A                  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| DCGS-A Mods of Current Force Systems |
| 2    | FY 05 | A    |          | 0     |                      | A                  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 2    | FY 06 | A    |          | 0     |                      | A                  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| Components for Existing Fixed Sites |
| 2    | FY 07 | A    |          | 0     |                      | A                  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| UA/BCT Mobile |
| 3    | FY 07 | A    |          | 3     |                      | A                  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| UE Mobile |
| 3    | FY 07 | A    |          | 1     |                      | A                  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| IMETS Hardware Refresh |
| 3    | FY 06 | A    |          | 0     |                      | A                  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 3    | FY 07 | A    |          | 0     |                      | A                  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| DTSS |
| 3    | FY 06 | A    |          | 0     |                      | A                  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 3    | FY 07 | A    |          | 0     |                      | A                  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| FIA |

### Remarks

- **GOTS/COTS Products for Spiral 1-3**
- **DCGS-A Mods of Current Force Systems**
- **Components for Existing Fixed Sites**
- **UA/BCT Mobile**
- **UE Mobile**
- **IMETS Hardware Refresh**
- **DTSS**
- **FIA**

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**Legend**

- **INITIAL**
- **REORDER**

**Exhibit P-21**

DCGS-A (JMIP)

Item No. 68 Page 5 of 8
|-----|------|------|----------------|-----------------------|---------------------|-------|--------|------|------|------|------|------|------|------|------|------|------|-------|------|------|------|------|------|      |      |      |      |      |      |      |      |      |      |
| 1   | 3    | FY 05 | A              | 0                     | 0                   |       |        |      |      |      |      |      |      |      |      |      |      |       |      |      |      |      |      |      |      |      |      |      |
| 2   | 3    | FY 06 | A              | 0                     | 0                   |       |        |      |      |      |      |      |      |      |      |      |      |       |      |      |      |      |      |      |      |      |      |      |
| 3   | 3    | FY 07 | A              | 0                     | 0                   |       |        |      |      |      |      |      |      |      |      |      |      |       |      |      |      |      |      |      |      |      |      |      |

Fielding Teams

|-----|------|------|----------------|-----------------------|---------------------|-------|--------|------|------|------|------|------|------|------|------|------|-------|------|------|------|------|------|      |      |      |      |      |      |      |      |      |      |
| 1   | 3    | FY 06 | A              | 0                     | 0                   |       |        |      |      |      |      |      |      |      |      |      |      |       |      |      |      |      |      |      |      |      |      |      |
| 2   | 3    | FY 06 | A              | 0                     | 0                   |       |        |      |      |      |      |      |      |      |      |      |      |       |      |      |      |      |      |      |      |      |      |      |

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Remarks:

- Fielding Teams

Exhibit P-21
Production Schedule
### FY 06 / 07 BUDGET PRODUCTION SCHEDULE

**P-1 Item Nomenclature:**
DCGS-A (JMIP) (BZ7316)

**Date:**
February 2005

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**Fiscal Year 06**

| | Fiscal Year 06 | | Fiscal Year 07 | | | |
| | Calendar Year 06 | | Calendar Year 07 | | | |
| | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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**MFR Number**

- INITIAL
- REORDER

**NAME/LOCATION**

- MIN.
- 1-8.5
- MAX.

**REACHED**

- D+**

**ADMIN/LEAD TIME**

- Prior 1 Oct
- After 1 Oct

**TOTAL**

- After 1 Oct

**REMARKS**

- Exhibit P-21

Production Schedule
### COST ELEMENTS

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#### Calendar Year 06

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### Remarks

- **INITIAL**
- **REORDER**
### Description:
The Joint Tactical Ground Station (JTAGS) Multi-Mission Mobile Processor (M3P) Pre-Planned Product Improvement (P3I) program will procure one Ballistic Missile Early Warning Trainer, initiate the M3P Life Cycle Management Program, begin integration of the M3P with current and future communication architectures to include the Multifunctional Information Distribution System (MIDS) and procurement of the Outside Continental United States (OCONUS) Exerciser and Maintenance Training Capability (MTC). On January 13, 2005, the Program Executive Office (PEO), Air, Space and Missile Defense (ASMD) merged with the PEO, Tactical Missiles (TM) to become the PEO, Missiles and Space (MSLS). JTAGS is an integral part of the Army Missiles and Space System of Systems (SoS) architecture.

### Justification:
FY2006/07 funding ensures the M3P provides trained and ready users fully capable of utilizing the M3P system to meet both strategic and theater mission requirements per Army and Air Force agreements. Also, to maintain this proven capability and assure that the M3P will remain operating at peak performance levels to protect the force and ensure information dominance, periodic upgrades of perishable technology within the system must be assessed and upgraded.

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## Description:
The Multifunctional Information Distribution System (MIDS) radio is a replacement for the currently deployed but no longer supported Joint Tactical Information Distribution System (JTIDS) Class 2M radio terminals. MIDS will maintain the required LINK 16 capability, which remains the primary communications network for air and missile defense operations. As a consequence of using commercial-off-the-shelf (COTS) and government-off-the-shelf (GOTS) equipment, periodic procurement of upgrades are necessary to maintain the M3P at peak performance and to keep sustainment costs at a manageable level. A portion of the funds in FY06, in addition to increments in funding in FY2010/11 support the procurement and insertion of these periodic upgrades. On January 13, 2005, the Program Executive Office (PEO), Air, Space and Missile Defense (ASMD) merged with the PEO, Tactical Missiles (TM) to become the PEO, Missiles and Space (MSLS). JTAGS is an integral part of the Army Missiles and Space System of Systems (SoS) architecture.

The JTAGS today and the soon-to-be-operational M3P provide the only means for directly down linking raw data from the Defense Support Program satellites, processing that data into ballistic missile early warning, alerting and cueing and disseminating that information reliably to theater combatant commanders. Requiring no special consideration JTAGS and the M3P make use of existing in-theater communication equipment and networks. This timely and accurate situational awareness capability provides information necessary for self-protection and taking immediate retaliatory action.

## Justification:
Funds in FY2006/07 procures eight (6) Multifunctional Information Distribution Systems (MIDS) radios and incorporates them into the fielded Multi-Mission Mobile Processors (M3Ps) and the classroom training suites.
### Exhibit P-40M, Budget Item Justification Sheet

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February 2005
**MODIFICATION TITLE:** MIDS [MOD 1] TBD1

**MODELS OF SYSTEM AFFECTED:** Data Processing Subsystem

**DESCRIPTION/JUSTIFICATION:**
Procurement funding provides for the upgrade of M3Ps to interface with the evolving MIDS. Failure of the M3P mobile ground processor to inter-operate with all elements on the digitized battlefield will result in loss of shared data among all participating users, degradation of the force, and loss of information dominance on the digitized battlefield.

**DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:**

- **Initiate Development - 1QFY06**
- **Complete Development - 4QFY06**

**Installation Schedule:**

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# INDIVIDUAL MODIFICATION

**MODIFICATION TITLE (Cont):** MIDS [MOD 1] TBD1

**Date:** February 2005

## FINANCIAL PLAN: ($ in Millions)

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INDIVIDUAL MODIFICATION

MODIFICATION TITLE: Life Cycle Management / Technology Insertion [MOD 2] TBD

MODELS OF SYSTEM AFFECTED: Data Processing Subsystem

DESCRIPTION/JUSTIFICATION:

With the short life and supportability of COTS computing processors and because the M3P is primarily composed of COTS computer processors, it is necessary to conduct periodic life cycle management / technology reviews and fusion to maintain operations and sustainability. Without the requested funding, periodic technology review, and upgrade will not occur and operational efficiency may be compromised.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Initiate Development - 1QFY06
Complete Development - 4QFY06

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METHOD OF IMPLEMENTATION:

ADMINISTRATIVE LEADTIME: 3 Months
PRODUCTION LEADTIME: 5 Months

## INDIVIDUAL MODIFICATION

### Date: February 2005

**MODIFICATION TITLE (Cont):** Life Cycle Management / Technology Insertion [MOD 2] TBD2

**FINANCIAL PLAN: ($ in Millions)**

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| **Total Procurement Cost** | 2.6 | 0.0 | 4.4 | 0.3 | 0.0 | 0.0 | 7.2 | 5.6 | 0.0 | 20.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0
### Exhibit P-40, Budget Item Justification Sheet

**Appropriation/Budget Activity/Serial No:** Other Procurement, Army /2/Communications and Electronics Equipment  
**Date:** February 2005  
**P-1 Item Nomenclature:** JTAGS M3P Institutional Training Equipment (BZ8430)

#### Program Elements for Code B Items:

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<th>Code</th>
<th>Other Related Program Elements:</th>
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| Proc Qty | 1 | 1 |
| Gross Cost | 5.0 | 9.4 |
| Less PY Adv Proc | 5.0 | 9.4 |
| Plus CY Adv Proc | 5.0 | 9.4 |
| Net Proc (P-1) | 5.0 | 9.4 |
| Initial Spares | 5.0 | 9.4 |
| Total Proc Cost | 5.0 | 9.4 |
| Flyaway U/C | 5.0 | 9.4 |
| Wpn Sys Proc U/C | 9.4 |

### Description:

Procurement will consist of one M3P Ballistic Missile Early Warning Trainer, a maintenance training capability for each M3P location, and an exercise capability for each deployed M3P Outside Continental Unites States (OCONUS). On January 13, 2005, the Program Executive Office (PEO), Air, Space and Missile Defense (ASMD) merged with the PEO, Tactical Missiles (TM) to become the PEO, Missiles and Space (MSLS). JTAGS is an integral part of the Army Missiles and Space System of Systems (SoS) architecture.

JTAGS also provides for the recruitment and training of qualified and dedicated operators when paired with the enhanced M3P operational system will provide peak operational efficiency to ensure dominance through warfighting superiority. These capabilities, not available with JTAGS, must be implemented with the M3P to maximize warfighting efficiency essential for optimal system performance. Training provided will include both strategic and theater mission requirements per Army and Air Force agreements. Significant consideration is being given in this evolutionary step so that the system provides the joint service user usable and effective equipment. Unit readiness and training will be ensured through institutional training prior to assignment to active units as well as refresher training on site via the OCONUS Exerciser and MTC.

### Justification:

FY2006/07 procures trainers and training equipment to support initial and follow-on system qualification training, maintenance operations training, and simulators necessary for participation in various operational exercises.

FY 2006/07 also provides for capabilities that will deliver trained and ready users fully capable of optimizing M3P system functionality.
### Exhibit P-40M, Budget Item Justification Sheet

**Appropriation/Budget Activity/Serial No:**
Other Procurement, Army /2/Communications and Electronics Equipment

**P-1 Item Nomenclature:**
JTAGS M3P Institutional Training Equipment (BZ8430)

**Program Elements for Code B Items:**

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<td>OCONUS Exerciser</td>
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**Totals**

|              | 0.0 | 0.0 | 5.0 | 9.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 14.4 |

Date: February 2005
**INDIVIDUAL MODIFICATION**

**MODIFICATION TITLE:** Ballistic Missile Early Warning Trainer [MOD 1] TBD1

**MODELS OF SYSTEM AFFECTED:**

**DESCRIPTION/JUSTIFICATION:**

The M3P Ballistic Missile Early Warning Trainer is a Non-Developmental Item/Commercial Off-The Shelf (NDI/COTS) training suite for M3P institutional training at the U.S. Army Air Defense Artillery School, Ft. Bliss, TX. The suite provides for trained and ready users fully capable of optimizing capabilities of the M3P system and precludes the use of a tactical M3P system.

**DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:**

- **Initiate Development - 1QFY07**
- **Complete Development - 4QFY07**

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**METHOD OF IMPLEMENTATION:**

- **ADMINISTRATIVE LEADTIME:** 3 Months
- **PRODUCTION LEADTIME:** 5 Months

**Contract Dates:**

- FY 2006
- FY 2007

**Delivery Date:**

- FY 2006
- FY 2007
### Financial Plan ($ in Millions)

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MODIFICATION TITLE: Maintenance Training Capability [MOD 2] TBD

MODELS OF SYSTEM AFFECTED: Data Processing Subsystem

DESCRIPTION/JUSTIFICATION:
The MTC will provide a virtual medium to instruct the Fault Detection/Fault Isolation (FD/FI) capabilities and recurring maintenance requirements of the M3P. This training will be CD based making it accessible at all unit locations and will compliment mission operation training on all units and in the training classroom suites for a total of eight (8).

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:
Initiate Development - 1QFY06
Complete Development - 4QFY06

Installation Schedule:

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METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: 3 Months
PRODUCTION LEADTIME: 5 Months

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The OCONUS Exerciser is a subset of processors in the objective M3P system that will allow for participation in Joint and Theater-wide exercises. Presently, there's a requirement for three (3) OCONUS Exercisers, one for each OCONUS deployed site. These Exercisers will allow for complete separation from the objective system and operational mission for exercise training, scenario development and exercise participation. The full compliment will consist of three (3) exercisers for the OCONUS deployed units.

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**METHOD OF IMPLEMENTATION:**

| Delivery Date:  | FY 2006 | 2006 |

**ADMINISTRATIVE LEADTIME:** 3 Months

**PRODUCTION LEADTIME:** 5 Months
FINANCIAL PLAN: ($ in Millions)

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**Exhibit P-40, Budget Item Justification Sheet**

**Appropriation/Budget Activity/Serial No:**
Other Procurement, Army / 2/Communications and Electronics Equipment

**P-1 Item Nomenclature**
TROJAN (TIARA) (BA0326)

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**Date:**
February 2005

**Proc Qty**

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**Description:**

TROJAN, as an Army Intelligence system, has been providing a direct support and an operational readiness capability to warfighters since 1985. TROJAN exists to provide value added to the tactical commander with remote access to signal environments, in order to maintain a high state of operational readiness and enhance the training and sustainment of highly perishable intelligence skills. Additionally, the TROJAN architecture provides the infrastructure enabling split-based and force protection operations in direct support of the warfighter.

Trojan Classic XXI (TCXXI) advances the tactical commanders’ readiness in the areas of training (technical and operational signals intelligence (SIGINT)), operational intelligence production and dissemination, and operational support to split-based intelligence operations supporting force projection operations. TCXXI’s principle use is to provide remote access to target environments, enabling split-based operations from a sanctuary by being the gateway interface to environments of immediate relevance to every supported commander’s priority intelligence requirements. In addition, TCXII will continue its role as an operational readiness system, while also supporting commanders’ intelligence requirements across the spectrum of conflict.

TCXXI is an intelligence and electronic warfare (IEW) system that supports the increased readiness of key mobilization personnel in preparation for actions in the mission areas of The Army Plan (TAP). TCXXI is capable of maintaining operational readiness status of unit personnel supporting the full spectrum of military operations as outlined in the Army Strategic Planning Guidance and Army Planning Guidance sections of the TAP.

TCXXI provides operational readiness capability to an Army commander employing a rapid global response capability to any level of military conflict throughout the seven mission areas. By employing reach technology relay capabilities between the forward deployed sensors and the sanctuary-based Remote Operational Facilities (ROFs), TCXXI can meet the operational deployment timelines through the use of readiness training venues to meet the requirements of units from Brigade Combat Teams through Corps and Echelon Above Corps (EAC). This operational concept provides the unique capability to remotely control the sensors and direction finding capabilities of the Deployable Collection Assets (DCAs) and process and analyze the collected information for timely reporting of time-sensitive information to the forward deployed Army, Joint Service and Multi-National warfighters.

**Justification:**

FY06/07 procures hardware/software in support of the planned TROJAN Classic XXI system modernization upgrades and fielding activities to include Remote Operations Facilities, mobile and fixed Remote Collection Facilities. Fieldings include existing TROJAN facilities as well as emerging TIG/TIB requirements.
## OPA2 Cost Analysis

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### Exhibit P-40, Budget Item Justification Sheet

**Appropriation/Budget Activity/Serial No:**
Other Procurement, Army /2/Communications and Electronics Equipment

**P-1 Item Nomenclature**
MOD OF IN-SVC EQUIP (INTEL SPT) (TIARA) (BZ9750)

**Date:** February 2005

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#### Description:

**Special Purpose Systems (BZ9751):** FY04 is the first year funding that supports Product Manager Prophet missions. Prophet's primary mission is providing 24-hour Situation Development and Information Superiority to the supported maneuver brigade to enable the most effective engagement of enemy forces. Prophet is an integral part of the Army Transformation, providing near real time (NRT) information to the Brigade Commander within his combat decision cycle. It is the tactical commander’s sole organic ground-based sensor system for the Division, Stryker Brigade Combat Team (SBCT) and Armored Cavalry Regiments (ACR).

**Mods for IEW TAC SIG WAR (BZ9752):** The Remotely-Monitored Battlefield Sensor System II (REMBASS-II) is a family of unattended sensors that provide all weather, 24-hour area surveillance, force protection, and target detection and classification capability to support the battlefield commander. IREMBASS was fielded to MI Battalions in Army Airborne, Air Assault and Light Divisions. The system was also fielded to Special Operation Forces and the 2nd Infantry Division in Korea where it is used to monitor the Demilitarized Zone (DMZ). REMBASS-II will be fielded to the Stryker Brigade Combat Team (SBCTs).

The AN/PPS-5D is an all weather, man-portable, Ground Surveillance Radar (GSR). The GSR detects moving wheel and track vehicles out to 20 kms and detects personnel out to 10 kms. The operator can monitor target movements, determine the distance to target, and can estimate the direction and speed of the target. The system provides a Built-in-Test capability with a fault isolation rate of 85%. GSRs will be fielded to the SBCTs. The PM is maintaining the Army's Quick Reaction Capability (QRC) for GSRs and REMBASS II. Systems are currently deployed to OIF and OEF in support of the Global War on Terrorism.

Recent trends in simulation technology are enabling the Army National Guard’s (ARNG) vision of fielding low cost simulation devices to home station armories. These fieldings will dramatically increase training opportunities afforded each soldier. This plan is being formulated under the National Guard’s Virtual, Low-Cost Infrastructure Plan (N-VLIP). The founding premise of this plan is that by driving the virtual training down to the lowest common platform possible (PCs), soldiers’ overall skill development and training sustainment will improve in proportion with the increases in opportunity to practice in a realistic environment. In addition to hardware new curricula must be developed.
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The only virtual curricula available today are those that have been developed for large, single station, high throughput trainers developed in the 80’s and 90’s. Similarly, new pedagogy must be developed to accommodate the varying human man-machine interfaces of the proposed new virtual simulators.

These systems support the Stryker Brigade Combat Team (SBCT).

**Justification:**

FY2006/2007 procures upgrades/enhancements to Prophet TI capabilities to satisfy unique theater requirements as they evolve.

FY2006/2007 procures Ground Surveillance System Hardware (REMBASS II and PPS-5D) in support of the Stryker Brigade Combat Teams (SBCT).
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**Description:**
Prophet's primary mission is providing 24-hour Situation Development and Information Superiority to the supported maneuver brigade to enable the most effective engagement of enemy forces. Prophet is an integral part of the Army Transformation, providing near real time (NRT) information to the Brigade Commander within his combat decision cycle. It is the tactical commander’s sole organic ground-based COMINT/EW system for the Division, Stryker Brigade Combat Team (SBCT) and Armored Cavalry Regiments (ACR). Prophet Block II/III functionality will be resident within the Future Combat Systems (FCS). That technology and Tactics, Techniques and Procedures (TTPs) will be leveraged. Prophet stationary and on-the-move direction finding information develops battlespace visualization, intelligence preparation of the battlefield (IPB) and target development for enemy and gray emitters within radio line-of-sight across the brigade area of responsibility. Additionally, Prophet provides the ability to intercept voice communications data when on board linguists are available. This NRT information when processed provides a key component of the fused intelligence common operating picture (COP).

During Operation Enduring Freedom and Iraqi Freedom (OEF/OIF) PM Prophet was tasked by DA to enhance the Prophet system with additional Technical Insertion (TI) capabilities. These capabilities were theater specific and enabled the Prophet system to address specific threats and Signals Of Interest (SOI). The information gathered by the TI provides key intelligence and insight. These systems are modular, easy to upgrade and easy to utilize.

**Justification:**
FY2006/2007 procures upgrades/enhancements to TI capabilities to satisfy unique theater requirements as they evolve.

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**Justification:**
FY2006/2007 procures upgrades/enhancements to TI capabilities to satisfy unique theater requirements as they evolve.
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Description:
The AN/GSR-8 Remotely Monitored Battlefield Sensor System II (REMBASS-II) is a family of unattended sensors that provide all weather, 24-hour area surveillance, force protection, and target detection and classification capability to support the battlefield commander. Improved Remotely Monitored Battlefield Sensor System (I-REMBASS) was fielded to Military Intelligence (MI) Battalions in Army Airborne, Air Assault and Light Divisions in the mid-1990s. I-REMBASS was also fielded to Special Operation Forces and the 2nd Infantry Division in Korea where it is used to monitor the Demilitarized Zone (DMZ). REMBASS-II will be fielded to the Stryker Brigade Combat Teams (SBCTs). REMBASS II Class IX components also serve as replenishment spares for all units previously fielded and authorized I-REMBASS.

The AN/PPS-5D/E is an all weather, man-portable, Ground Surveillance Radar (GSR). The AN/PPS-5D/E detects moving wheel and track vehicles out to 20kms and detects personnel out to 10kms. The operator can monitor target movements, determine the distance to target, and can estimate the direction and speed of the target. The system provides a Built-in-Test capability with a fault isolation rate of 85%. AN/PPS-5D/E will be fielded to the SBCTs. The Product Manager (PM) is maintaining the Army's Quick Reaction Capability (QRC) for GSRs and REMBASS II. Systems are currently deployed to Operation Iraqi Freedom (OIF) and Operation Enduring Freedom (OEF) in support of the Global War on Terrorism.

Justification:
FY06/07 procures Ground Surveillance System Hardware (REMBASS-II and AN/PPS-5D/E) in support of the Stryker Brigade Combat Teams (SBCT).
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### Exhibit P-40, Budget Item Justification Sheet

**Appropriation/Budget Activity/Serial No:**  
Other Procurement, Army /2/Communications and Electronics Equipment

**Date:**  
February 2005

**P-1 Item Nomenclature**  
CI HUMINT INFO MANAGEMENT SYSTEM (CHIMS) (TIARA) (BK5275)

**Program Elements for Code B Items:**

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**Other Related Program Elements:**

- **Description:**  
The Counterintelligence/Human Intelligence (CI/HUMINT) Management System (CHIMS) is the Army's premier tactical CI/HUMINT system. It meets the requirements for Army tactical and strategic CI/HUMINT information collection, investigation, interrogation, operations, document exploitation, and force protection. The total CHIMS automation architecture extends from the Corps and Division Analysis and Control Element (ACE) to the individual agent/collector. At Division, Corps and above, the AN/PYQ-7 Counterintelligence Operations/Interrogation Operations (CI&I OPS) workstation provides automation and analysis capabilities to Military Intelligence Units, and CI Staff Officers (CISO).

At the tactical team level, CI/HUMINT teams require two types of automation support. The AN/PYQ-3 CI/HUMINT Automated Tool Set (CHATS) provides a Team Leader device that interfaces with the All Source Analysis System (ASAS) Light, CI&I OPS workstation and individual CI/HUMINT agents/collectors device. The AN/PYQ-8 Individual Tactical Reporting Tool (ITRT) provides a hand held automated collection and processing device for individual agent operations. Both systems provide automation capabilities to collect, manage, receive, store and export text, electronic data, and digital imagery information. These systems are also capable of preparing, processing and disseminating standard messages.

CHIMS supports Army transformation as the HUMINT component of the Distributed Common Ground System-Army (DCGS-A), through which CHIMS will continue to provide a vital intelligence capability to the Army's Future Force. CHIMS will be an integral part of the DCGS-A systems fielded to III Corps in FY05.

- **Justification:**  
FY06/07 procures and fields automated tools for CI/HUMINT soldiers for Stryker Brigade Combat Teams (SBCT) units and DA selected units.
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**Total** | 16543 | 2866 | 730 | 6710 |
**Exhibit P-5a, Budget Procurement History and Planning**

Appropriation/Budget Activity/Serial No: Other Procurement, Army / 2 / Communications and Electronics Equipment

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**REMARKS:** Equipment costs vary by version. The CHATS V2 to V3 unit cost increased due to the inclusion of language translator software and change in system platforms.
## Exhibit P-5a, Budget Procurement History and Planning

**Appropriation/Budget Activity/Serial No:**
Other Procurement, Army / 2 / Communications and Electronics Equipment

**Weapon System Type:**
CI HUMINT INFO MANAGEMENT SYSTEM (CHIMS) (TIARA) (BK5275)

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**REMARKS:** Equipment costs vary by version. The CHATS V2 to V3 unit cost increased due to the inclusion of language translator software and change in system platforms.
## FY 04 / 05 BUDGET PRODUCTION SCHEDULE

**P-1 Item Nomenclature:**
CI HUMINT INFO MANAGEMENT SYSTEM (CHIMS) (TIARA) (BK5275)

**Date:**
February 2005

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- **DEC:** 63
- **JAN:**
- **FEB:**
- **MAR:**
- **APR:**
- **MAY:**
- **JUN:**
- **JUL:**
- **AUG:**
- **SEP:**
- **OCT:**
- **NOV:**
- **DEC:**

### Calendar Year 05

- **OCT:**
- **NOV:**
- **DEC:**
- **JAN:**
- **FEB:**
- **MAR:**
- **APR:**
- **MAY:**
- **JUN:**
- **JUL:**
- **AUG:**
- **SEP:**

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- **Upgrade Reserve Component V2 to V3**
- **CI & 1 OPS**
- **SBCT CHATS V3**
- **SBCT ITRT**

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|-----|------|------|----------------|----------------------|---------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 3   | FY 06 |     | 11             | 3                    | 8                  | 8    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 3   | FY 07 |     | 33             | 0                    | 36                 | 36   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |

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SBCT CI & I OPS

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### FY 06 / 07 BUDGET PRODUCTION SCHEDULE

| COST ELEMENTS | MFR | FY  | SERV | PROC QTY Units | ACCEPT PRIOR TO | BAL DUE AS OF | O C T | N O V | D E C | J A N | F E B | M A R | A P R | M A Y | J U N | J U L | A U G | S E P |
|---------------|-----|-----|------|----------------|----------------|---------------|------|------|------|------|------|------|------|------|------|------|------|
|               |     |     |      |                |                |               |      |      |      |      |      |      |      |      |      |      |      |      |
| --CHATS V3    |     |     |      |                |                |               |      |      |      |      |      |      |      |      |      |      |      |      |
| 3 FY 04       | A   | 123 | 123  |                |                | 0             |      |      |      |      |      |      |      |      |      |      |      |      |
| 3 FY 07       | A   | 51  | 51   |                |                | A             |      |      |      |      |      |      |      |      |      |      |      |      |
| --ITRT        |     |     |      |                |                |               |      |      |      |      |      |      |      |      |      |      |      |      |
| 3 FY 04       | A   | 463 | 463  |                |                | 0             |      |      |      |      |      |      |      |      |      |      |      |      |
| 3 FY 07       | A   | 205 | 104  |                |                | A             |      |      |      |      |      |      |      |      |      |      |      |      |
| Upgrade Reserve Component V2 to V3 |     |     |      |                |                |               |      |      |      |      |      |      |      |      |      |      |      |      |
| 3 FY 04       | A   | 380 | 380  |                |                | 0             |      |      |      |      |      |      |      |      |      |      |      |      |
| --CI & I OPS  |     |     |      |                |                |               |      |      |      |      |      |      |      |      |      |      |      |      |
| 3 FY 04       | A   | 28  | 28   |                |                | 0             |      |      |      |      |      |      |      |      |      |      |      |      |
| 3 FY 07       | A   | 24  | 1    |                |                | A             |      |      |      |      |      |      |      |      |      |      |      |      |
| --SBCT CHATS V3 |    |     |      |                |                |               |      |      |      |      |      |      |      |      |      |      |      |      |
| 3 FY 04       | A   | 19  | 19   |                |                | 0             |      |      |      |      |      |      |      |      |      |      |      |      |
| 3 FY 05       | A   | 19  | 19   |                |                | 0             |      |      |      |      |      |      |      |      |      |      |      |      |
| 3 FY 06       | A   | 4   | 1    |                |                | A             |      |      |      |      |      |      |      |      |      |      |      |      |
| 3 FY 07       | A   | 15  | 16   |                |                | A             |      |      |      |      |      |      |      |      |      |      |      |      |
| --SBCT ITRT   |     |     |      |                |                |               |      |      |      |      |      |      |      |      |      |      |      |      |
| 3 FY 04       | A   | 44  | 44   |                |                | 0             |      |      |      |      |      |      |      |      |      |      |      |      |
| 3 FY 05       | A   | 44  | 44   |                |                | 0             |      |      |      |      |      |      |      |      |      |      |      |      |

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**Exhibit P-21**

**Production Schedule**

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**BK5275**

CI HUMINT INFO MANAGEMENT SYSTEM (CHIMS) (TIARA)
## FY 06 / 07 BUDGET PRODUCTION SCHEDULE

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|--------------------|--------------------|--------------------|--------------------|--------------------|
| COST ELEMENTS     | COST ELEMENTS     | COST ELEMENTS     | COST ELEMENTS     | COST ELEMENTS     |

## Fiscal Year 06

### Calendar Year 06

| O  N  D  J  F  M  A  M  J  J  A  S  O  N  D  J  F  M  A  M  J  J  A |
|--------------------|--------------------|--------------------|--------------------|--------------------|

### Fiscal Year 07

### Calendar Year 07

| O  N  D  J  F  M  A  M  J  J  A  S  O  N  D  J  F  M  A  M  J  J  A |
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**Exhibit P-40, Budget Item Justification Sheet**

**Appropriation/Budget Activity/Serial No:** Other Procurement, Army /2/Communications and Electronics Equipment

**Date:** February 2005

**Program Elements for Code B Items:**

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**Description:**

This budget line supports automation requirements for the Army Intelligence and Electronic Warfare Master Plan (AIMP) and procurement of TROJAN Special Purpose Integrated RemoteIntelligence Terminals (TROJAN SPIRIT) for the Stryker Brigades and National Guard.

The AIMP Force Integration Masterplanner (FIM) is a computer-based system of systems using commercial-off-the-shelf (COTS) software to support PPBES decision making in the Intelligence and Electronic Warfare (IEW) community.

TROJAN SPIRIT provides both the Current Force and the Stryker Brigades with dedicated, secure, high capacity, SCI-high intelligence data processing and communications. It provides a rapidly deployable, multi-level security, processor-to-processor, high capacity communications capability, and supports tactical to strategic reach-back, essential to split-based operations.

**Justification:**

FY06 procures integration and fielding of TROJAN SPIRIT Lightweight Integrated Telecommunications Equipment (TS LITE),(AN/TSQ-226(V) systems for the US Army Special Operations Command (USASOC). Each SOF unit requires one (1) each transit-cased based TS LITE system.

FY07 procures integration and fielding of TROJAN SPIRIT Lightweight Integrated Telecommunications Equipment (TS LITE), (AN/TSQ-226(V)) systems for the 11th ACR Modernization. Will be fielded with a HMMWV-mounted shelter, Modular Command Post Systems (MCPS), HMT trailer and SCI-capable workstation.
**Exhibit P-5, Weapon System Cost Analysis**

- **Appropriation/Budget Activity/Serial No.**
  Other Procurement, Army / 2 /
  Communications and Electronics Equipment

- **P-1 Line Item Nomenclature:**
  ITEMS LESS THAN $5.0M (TIARA) (BK5278)

- **Weapon System Type:**
  Date: February 2005

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## Exhibit P-5a, Budget Procurement History and Planning

**Appropriation/Budget Activity/Serial No:**
- Other Procurement, Army / 2 / Communications and Electronics Equipment

**Weapon System Type:**

**P-1 Line Item Nomenclature:**
- ITEMS LESS THAN $5.0M (TIARA) (BK5278)

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**Remarks:**

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BK5278
ITEMS LESS THAN $5.0M (TIARA)
## FY 06 / 07 BUDGET PRODUCTION SCHEDULE

**P-1 Item Nomenclature:**

ITEMS LESS THAN $5.0M (TIARA) (BK5278)

**Date:**
February 2005

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|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| MFR 1 | 1.00 | 1.00 | 3.00 | 2   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |

### Fiscal Year 07

|  | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |

**Fiscal Year 09**

|     | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JLY | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JLY | AUG | SEP |
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# FY 10 / 11 BUDGET PRODUCTION SCHEDULE

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## PRODUCTION RATES

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<td>INITIAL 2 2 4 6</td>
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Exhibit P-21
Production Schedule
### Description:
The Objective Lightweight Counter Mortar Radar (O-LCMR) provides 360 degrees of azimuth coverage and will be used to detect, locate, and report hostile locations of enemy indirect firing systems. It will cover a range of 500 meters to 10 kilometers and provide observed fires from friendly units. O-LCMR shall be a digitally connected, day/night mortar, cannon, and rocket locating system. The O-LCMR is a spiral enhancement to the existing LCMR which was fielded to OIF as a Limited Procurement Urgent (LPU) capability.

### Justification:
FY 2007 procures 12 Low Rate Initial Production (LRIP) systems.

### Program Elements for Code B Items:

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**Lightweight Counter Mortar Radar (B05201)**

**Justification Sheet**

**Appropriation/Budget Activity/Serial No:**
- Other Procurement, Army / Communications and Electronics Equipment

**P-1 Item Nomenclature:**
- LIGHTWEIGHT COUNTER MORTAR RADAR (B05201)
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## Exhibit P-5a, Budget Procurement History and Planning

**Appropriation/Budget Activity/Serial No:**
Other Procurement, Army / 2 / Communications and Electronics Equipment

**Weapon System Type:**

**P-1 Line Item Nomenclature:** LIGHTWEIGHT COUNTER MORTAR RADAR (B05201)

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**REMARKS:**

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B05201
LIGHTWEIGHT COUNTER MORTAR RADAR

Item No. 74  Page 3 of 6
## FY 04 / 05 BUDGET PRODUCTION SCHEDULE

**P-1 Item Nomenclature:** LIGHTWEIGHT COUNTER MORTAR RADAR (B05201)  
**Date:** February 2005

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#### Remarks

- **INITIAL**
- **REORDER**

### Production Rates

#### NAME/LOCATION

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### Remarks

- **INITIAL**
- **REORDER**

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**B05201**  
LIGHTWEIGHT COUNTER MORTAR RADAR  
Item No. 74  Page 4 of 6  
Exhibit P-21  
Production Schedule
## FY 06 / 07 BUDGET PRODUCTION SCHEDULE

**P-1 Item Nomenclature:**
LIGHTWEIGHT COUNTER MORTAR RADAR (B05201)

**Date:**
February 2005

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**Remarks**

- INITIAL
- REORDER
## FY 08 / 09 BUDGET PRODUCTION SCHEDULE

**P-1 Item Nomenclature:** LIGHTWEIGHT COUNTER MORTAR RADAR (B05201)  
**Date:** February 2005

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  - **Calendar Year 08:**
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      - **DEC:**
        - **JAN:**
          - **FEB:**
            - **MAR:**
              - **APR:**
                - **MAY:**
                  - **JUN:**
                    - **JUL:**
                      - **AUG:**
                        - **SEP:**
                          - **COST ELEMENTS**

- **Fiscal Year 09:**
  - **Calendar Year 09:**
    - **OCT:**
      - **DEC:**
        - **JAN:**
          - **FEB:**
            - **MAR:**
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Total 72500
**Exhibit P-5a, Budget Procurement History and Planning**

**Appropriation/Budget Activity/Serial No:** Other Procurement, Army / 2 / Communications and Electronics Equipment

**Weapon System Type:** WARLOCK (VA8000)

**P-1 Line Item Nomenclature:** Other Procurement, Army / 2 / Communications and Electronics Equipment

**WARLOCK (VA8000)**

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**REMARKS:** Price difference in unit costs due to solicitations with contractor, EDO.
### FY 04 / 05 BUDGET PRODUCTION SCHEDULE

**P-1 Item Nomenclature:**
WARLOCK (VA8000)

**Date:**
February 2005

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**Description:**
CLASSIFIED PROGRAM: INFORMATION AVAILABLE UPON REQUEST
**Sentinel MODS (WK5057)**

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**Justification:**

FY06-07 funds procure 3 Transmitters in FY06 and 5 ETRAC System Kits in FY07. The ETRAC System Kits include waveform upgrades for the Receiver/Exciter, Variable Rotation Rate, Target Classification upgrades and replaces the current Sentinel transmitter with Power Amplifier Modules (PAM). Installation of these kits will provide Sentinel with the capability to classify cruise missiles, Unmanned Aerial Vehicles (UAVs), rotary and fixed wing aircraft to support precision engagements beyond visual range.
Sentinel is the only sensor available in the forward battle area that detects cruise missiles, UAVs, rotary and fixed wing aircraft at low altitude.

Sentinel is an integrated part of Missiles and Space System of Systems development process and consequently some funding adjustments may be required between the individual Sentinel Modification Efforts.
# Exhibit P-40M, Budget Item Justification Sheet

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Date: February 2005
**DESCRIPTION/JUSTIFICATION:**

ETRAC Modifications include waveform upgrades for the Receiver/Exciter; Variable Rotation Rate, Target Classification upgrades/replacement of the current Sentinel transmitter with Power Amplifier Modules (PAM). Exciter upgrades will provide low level RF signal sufficient to support the acquisition and track of small cruise missile targets and to accomplish generation of target classification waveforms. Receiver upgrades accomplish receipt and signal conditioning of low level Radio Frequency (RF) signal prior to Analog/Digital (A/D) conversion sufficient to support the acquisition and track of small cruise missile targets and to accomplish target classification. Variable rotation rate provides capability to slow the antenna rotation, increasing time on target to acquire and track small cruise missile targets and to provide flexible antenna positioning capability for target classification waveforms. Target classification efforts include software implementation of target classification capability to support beyond visual range engagements.

**DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:**

(Description/Justification cont...) Initially, the upgraded transmitter will replicate the existing transmitter function. With the implementation of the "waveforms" portion of the modernization program, both increased average power and classification waveforms capabilities will be activated. PAMs were selected because they offer excellent power conversion efficiency, are sufficiently stable to support subclutter visibility and classification waveform requirements and allow incremental growth and graceful degradation in the event of failure. These improvements give the warfighter improved maneuver force protection against evolving threats before ordnance drop. Sentinel ETRAC supports SLAMRAAM, Air Defense Surveillance, and Air Control requirements. SLAMRAAM Integration and Composite Sensor Netting will most likely consist of software fixes and minor hardware modifications which can be cut in as ETRAC Systems as other mod kits are fielded.

### Installation Schedule:

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**METHOD OF IMPLEMENTATION:** Contractor's Facility

**ADMINISTRATIVE LEADTIME:** 5 Months

**PRODUCTION LEADTIME:** 18 Months

**Contract Dates:**
- FY 2006: Jun 06
- FY 2007: Jun 07
- FY 2008: Jun 08

**Delivery Date:**
- FY 2006: Nov 08
- FY 2007: Nov 09
- FY 2008: Nov 10
### FINANCIAL PLAN: ($ in Millions)

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INDIVIDUAL MODIFICATION

MODIFICATION TITLE: Joint ID [MOD 2] 111-12

MODELS OF SYSTEM AFFECTED:

DESCRIPTION/JUSTIFICATION:

Joint ID technology modification provides cruise missile and unmanned aerial vehicle target alerting and ID capability to 1) enable SLAMRAAM to meet its range and effectiveness requirements against the cruise missile threat and 2) to support Sentinel's role as a key Army component of the Joint Single Integrated Air Picture. In addition, Joint ID supports Beyond Visual Range Engagements for SHORAD and reduces fratricide. This mod meets the Sentinel ORD requirement to integrate emerging identification technologies by leveraging Joint target identification techniques currently being developed and fielded by the Air Force and Navy. Joint ID supports transformation of Sentinel from a Current to Future System, provides the USMC with an interim solution for its Complimentary Low Altitude Air Defense Weapon System (Sentinel signed MOA with USMC), and provides the Future Combat System (FCS) Block One Unit of Action (UA) capability IAW the CSA’s timeline.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

METHOD OF IMPLEMENTATION: Contractor's Facility

ADMINISTRATIVE LEADTIME: 5 Months

PRODUCTION LEADTIME: 9 Months


Delivery Date: FY 2006 Mar 09 FY 2007 Mar 10 FY 2008 Mar 11

Installation Schedule:

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Joint ID technology modification provides cruise missile and unmanned aerial vehicle target alerting and ID capability to 1) enable SLAMRAAM to meet its range and effectiveness requirements against the cruise missile threat and 2) to support Sentinel's role as a key Army component of the Joint Single Integrated Air Picture. In addition, Joint ID supports Beyond Visual Range Engagements for SHORAD and reduces fratricide. This mod meets the Sentinel ORD requirement to integrate emerging identification technologies by leveraging Joint target identification techniques currently being developed and fielded by the Air Force and Navy. Joint ID supports transformation of Sentinel from a Current to Future System, provides the USMC with an interim solution for its Complimentary Low Altitude Air Defense Weapon System (Sentinel signed MOA with USMC), and provides the Future Combat System (FCS) Block One Unit of Action (UA) capability IAW the CSA’s timeline.
## FINANCIAL PLAN: ($ in Millions)

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INDIVIDUAL MODIFICATION
Date: February 2005

MODIFICATION TITLE: Mode 5 IFF [MOD 3] 111-13

MODELS OF SYSTEM AFFECTED:

DESCRIPTION/JUSTIFICATION:

This program supports integration of Mode 5 Identification Friend or Foe (IFF) capability into the Sentinel system to replace the current Mode 4 capability. Mode 5 is required since Mode 4 (currently used on Sentinel) is being phased out. Incorporation of Mode 5 into the Sentinel system is critical to retain the cooperative target identification capability and Sentinel effectiveness on the current/future battlefield, allowing Sentinel to remain operationally effective in Air Defense operations and Homeland Defense. Mode 5 provides improvements over Mode 4 in crypto sensitivity, range performance, probability of identification, expanded reply data including position reports, elimination of garbling of replies from closely spaced aircraft, Friend from Friend identification capability, lethal interrogation capability, reduced interference with Civil Air Traffic Control systems, and selective interrogation capability.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

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METHOD OF IMPLEMENTATION: Contractor
ADMINISTRATIVE LEADTIME: 5 Months
PRODUCTION LEADTIME: 9 Months

Contract Dates:
- FY 2006: Jun 08
- FY 2007: Jun 09
- FY 2008: Jun 10

Delivery Date:
- FY 2006: Mar 09
- FY 2007: Mar 10
- FY 2008: Mar 11

Contractor 5 Months 9 Months
WK5057 Item No. 77 Page 8 of 9 Exhibit P-3a Individual Modification

SENTINEL MODS
**FINANCIAL PLAN: ($ in Millions)**

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Exhibit P-40, Budget Item Justification Sheet

Date: February 2005

Appropriation/Budget Activity/Serial No:
Other Procurement, Army/2/Communications and Electronics Equipment

P-1 Item Nomenclature
NIGHT VISION DEVICES (KAA3500)

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Description:
Night Vision Devices (KAA3500) is a summary budget line including the following programs: (1). (K36400) AN/PVS-7 is a lightweight, head or helmet mounted night vision goggle consisting of a single objective lens assembly, state-of-the-art image intensifier technology, and two eyepiece lens assemblies. The AN/PVS-14 Monocular Night Vision Device (MNVD) is similar to the AN/PVS-7, except that it presents an image to only one eye (the soldier views the AN/PVS-7 with both eyes). In FY05 production of the Enhanced Night Vision Goggle (ENVG) began. The ENVG is a lightweight device providing soldiers a passive sensor, fused electro-optical night vision device with the ability to engage and execute Close Combat (including Military Operations on Urban Terrain (MOUT)), Combat Support, and Combat Service Support operations in all light levels, adverse weather, and battlefield obscurant conditions over existing night vision goggles. (2). (K35000) AN/PAQ-4 Infrared Aiming Light (IAL) is a lightweight, weapon mounted and boresighted aiming light. The line also includes the AN/PEQ-2 Infrared Target Pointer/Infrared Aiming Light (ITPIAL). The aiming light output is visible only when used with a night vision goggle, such as the AN/PVS-7. Additionally, this line includes funding for the Small Tactical Optical Rifle Mounted Micro-Laser Range Finder (STORM MLRF). STORM provides a visible aiming light used for alignment, crowd control, and MOUT operations. (3). (K31300) AN/VAS-5 Driver’s Vision Enhancer (DVE) provides drivers of combat and tactical wheeled vehicles with the capability of continuing operations during conditions of darkness or degraded visibility. The DVE is designed to provide low-cost thermal imagery that increases the user’s mobility in moderate rain, snow, or fog, either day or night, and in battlefield obscurants (dust or smoke). The DVE provides situational awareness, vehicle tracking, and allows combat and combat support elements to move as an integrated force. (4). (B53800) AN/PVS-6 Mini Eyesafe Laser Infrared Observation Set (MELIOS) is an integrated, eyesafe laser rangefinder with Compass/Vertical Angle Measurement and digital data display. Current funding will support the procurement of Laser Target Locating Systems. (5). (K41500) AN/PVS-10 Sniper Night Sight (SNS) is an integrated day/night third generation image intensifier system that mounts on the existing rail of the M24 sniper rifle and can be adapted to mount on other sniper weapons. The SNS provides the sniper with the capability to acquire and engage targets at extended ranges during day and night.

Justification:
FY06/07 funds will continue procurement of AN/PVS-14, ENVG, AN/PEQ-2A, STORM, AN/PVS-10 SNS, Laser Target Locating Systems and AN/VAS-5 DVE systems. Fielding continues to Special Operations Forces, Stryker Brigade Combat Team (SBCT) units, National Guard, Army Reserve Units, and Air Defense Artillery Brigade.
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| Description: | This program provides funding to procure Commercial Off the Shelf (COTS) Laser Target Locating Systems (LTLS) to address operational shortcomings of the AN/PVS-6, Mini Eye-Safe Laser Infrared Observation Set (MELIOS). The LTLS is a hand held device that determines range, azimuth and vertical angle to a target and digitally transmits the data to a Global Positioning System (GPS) receiver for calculation of target grid coordinates. LTLS also digitally transmits data to fire support C4I systems for digital transmission of call for fire. These systems also employ both external or internal image intensification on thermal night sights, which provide the Soldier a distinct advantage during battlefield situations. |
| Justification: | FY06/07 procures LTLS to support HQDA fielding requirements for units deploying to support Operation Iraqi Freedom(OIF) and the Global War on Terrorism (GWOT). |

### Justification:

| Appropriation/Budget Activity/Serial No: Other Procurement, Army /2/Communications and Electronics Equipment |
| Exhibit P-40, Budget Item Justification Sheet | Date: February 2005 |
| P-1 Item Nomenclature NIGHT VISION, AN/PVS-6 MELIOS (B53800) |

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- **P-1 Line Item Nomenclature:** NIGHT VISION, AN/PVS-6 MELIOS (B53800)

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**REMARKS:**

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KA3500 (B53800)
NIGHT VISION, AN/PVS-6 MELIOS

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### Production Schedule

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**Exhibit P-40, Budget Item Justification Sheet**

**Appropriation/Budget Activity/Serial No:**
Other Procurement, Army /2/Communications and Electronics Equipment

**P-1 Item Nomenclature**
DRIVER VISION ENHANCER (DVE) (K31300)

**Program Elements for Code B Items:**

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**Description:**
The Driver's Vision Enhancer (DVE) is an uncooled thermal imaging system developed for use on combat and tactical wheeled vehicles. The DVE allows for safer movement of combat and tactical wheeled vehicles in support of their operational missions in all environmental conditions (day/night and all weather). DVE facilitates fast paced force projection operations by providing enhanced mobility during darkness and in degraded battlefield conditions (smoke, dust, fog) enabling rapid combat operations and rapid movement/turn-around-time of supplies to forward deployed units. Addressing these mobility requirements increases the combat effectiveness of military forces.

**Justification:**
FY06/07 procures DVE systems for the Tube-Launched, Optically-Tracked, Wire-Guided missile (TOW) High Mobility Multipurpose Wheeled Vehicle (HMMWV) vehicles in the 101st Airborne Assault Division and portions of the tactical wheeled vehicles for one Stryker Brigade Combat Team (SBCT). The increased FY06 funding will support the procurement ramp up of SOFT TOP/PROPHET hardware for the Stryker Brigade Combat Team (SBCT). The SOFT TOP/PROPHET vehicle type represents the largest DVE quantity requirement for SBCT.
### OPA2 Cost Elements

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<td>UnitCost</td>
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<td>Each</td>
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<td>Each</td>
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**Weapon System Type:** DRIVER VISION ENHANCER (DVE) (K31300)

**Date:** February 2005
# Exhibit P-5a, Budget Procurement History and Planning

**Appropriation/Budget Activity/Serial No:**
Other Procurement, Army / 2 / Communications and Electronics Equipment

**Weapon System Type:**
DRIVER VISION ENHANCER (DVE) (K31300)

**P-1 Line Item Nomenclature:**
DRIVER VISION ENHANCER (DVE) (K31300)

## AN/VAS-5 Driver's Vision Enhancer (DVE)

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<th>Contract Method and Type</th>
<th>Location of PCO</th>
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**REMARKS:**

KA3500 (K31300)
DRIVER VISION ENHANCER (DVE)
AN/VAS-5 Driver's Vision Enhancer (DVE)

| FY 04   | A | 428     |          | 0             | 428           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| FY 05   | A | 41      |          | 0             | 41            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| FY 06   | A | 970     |          | 0             | 970           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| FY 07   | A | 1128    |          | 0             | 1128          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| FY 04   | OTH| 411     |          | 0             | 411           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| FY 05   | OTH| 631     |          | 0             | 631           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

Total 3944 3944

MFR NAME/LOCATION PRODUCTION RATES REACHED MFR Number ADMIN LEAD TIME TOTAL REMARKS

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## FY 06 / 07 BUDGET PRODUCTION SCHEDULE

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**Exhibit P-21**

Production Schedule
## FY 08 / 09 BUDGET PRODUCTION SCHEDULE

**P-1 Item Nomenclature:** DRIVER VISION ENHANCER (DVE) (K31300)  
**Date:** February 2005

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AN/AVS-5 Driver's Vision Enhancer (DVE)

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**Total:** 3944 2736 1208
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**Total** 3944

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### FY 10 / 11 Budget Production Schedule

**Fiscal Year 10**

| COCT | O DEC | J AN | FEB | M AR | P RY | MA Y | J UN | A UG | SE P | COCT | O DEC | J AN | FEB | M AR | P RY | MA Y | J UN | A UG | SE P |
|------|-------|------|-----|------|------|------|------|------|------|------|-------|------|-----|------|------|------|------|------|------|------|
| O    | N     | D    | A   | M    | A    | J    | U    | L    | G    | O    | N     | D    | A   | M    | A    | J    | U    | L    | G    |
| 1    | FY 04 | A    | 428 | 428  | 0    | 0    | 0    | 0    | 0    | 0    | 0     | 0     | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 1    | FY 05 | A    | 41  | 41   | 0    | 0    | 0    | 0    | 0    | 0    | 0     | 0     | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |

**Fiscal Year 11**

<p>| COCT | O DEC | J AN | FEB | M AR | P RY | MA Y | J UN | A UG | SE P | COCT | O DEC | J AN | FEB | M AR | P RY | MA Y | J UN | A UG | SE P |
|------|-------|------|-----|------|------|------|------|------|------|------|-------|------|-----|------|------|------|------|------|------|------|
| O    | N     | D    | A   | M    | A    | J    | U    | L    | G    | O    | N     | D    | A   | M    | A    | J    | U    | L    | G    |
| 1    | FY 04 | A    | 428 | 428  | 0    | 0    | 0    | 0    | 0    | 0    | 0     | 0     | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 1    | FY 05 | A    | 41  | 41   | 0    | 0    | 0    | 0    | 0    | 0    | 0     | 0     | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |</p>
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<tr>
<td>The AN/PAQ-4C is a small, lightweight, eye-safe, infrared (IR) aiming light that sends a laser beam that is invisible to the naked eye along the Line-Of-Sight of its host weapon. It is capable of mounting on various small arms (M4, M16, etc.). The AN/PEQ-2A is a small, lightweight IR aiming light with the additional capability of an IR illuminator. It is capable of being used as a handheld device and capable of mounting on most small arms, individual and crew served weapon systems (M4, M16, M249, M2, MK19, etc.). The AN/PAQ-4C and AN/PEQ-2A are compatible with Night Vision Goggles (AN/PVS-7B/D, AV/PVS-14, and Enhanced Night Vision Goggles). The Small Tactical Optical Rifle Mounted (STORM) micro-Laser Range Finder (mLRF) provides capability similar to the AN/PEQ-2A plus a visible aim laser for use in crowd control, Military Operations on Urbanized Terrain (MOUT) operations and daylight; and a digital magnetic compass and laser range finder for determination of far target location. STORM provides Soldiers with a responsive means of addressing targets within the range of organic direct fire and indirect fire weapon systems.</td>
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<td>FY06/07 funds procure AN/PEQ-2A aiming lights and STORM mLRF for units deploying in support of Operation Iraqi Freedom, Operation Enduring Freedom, and the Global War On Terrorism; to support the Army’s Modularity Initiative and Stryker Brigade Combat Teams.</td>
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Weapon System Cost Analysis

KA3500 (K35000)
INFRARED AIMING LIGHT, AN/PAQ-4

Exhibit P-5
Weapon System Cost Analysis

February 2005
### Exhibit P-5a, Budget Procurement History and Planning

**Appropriation/Budget Activity/Serial No:**
Other Procurement, Army / 2 / Communications and Electronics Equipment  

**Weapon System Type:**  
INFRARED AIMING LIGHT, AN/PAQ-4 (K35000)

**P-1 Line Item Nomenclature:**
INFRARED AIMING LIGHT, AN/PAQ-4 (K35000)

## AN/PEQ-2A Infrared Target Pointer/IAL

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<th>Contract Method and Type</th>
<th>Location of PCO</th>
<th>Award Date</th>
<th>Date of First Delivery</th>
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<th>Unit Cost</th>
<th>Specs Avail Now?</th>
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**STORM**

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**REMARKS:**
## FY 04 / 05 BUDGET PRODUCTION SCHEDULE

**P-1 Item Nomenclature:**
INFRARED AIMING LIGHT, AN/PAQ-4 (K35000)

**Date:**
February 2005

### COST ELEMENTS

| MFR | FY  | SERV | PROC QTY Each | ACCEPT PRIOR TO 1 OCT | BAL DUE AS OF 1 OCT | O CT N C | D E C J A N F E B M A P Y J U G S E P O C T N D E C J A N F E B M A P Y J U G S E P |
|-----|-----|------|--------------|------------------------|---------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
|     |     |      |              |                        |                     |         |         |         |         |         |         |         |         |         |         |

### AN/PEQ-2A Infrared Target Pointer/IAL

**Fiscal Year 04**

| MFR | FY  | SERV | PROC QTY Each | ACCEPT PRIOR TO 1 OCT | BAL DUE AS OF 1 OCT | O CT N C | D E C J A N F E B M A P Y J U G S E P O C T N D E C J A N F E B M A P Y J U G S E P |
|-----|-----|------|--------------|------------------------|---------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 1   | FY 04 | A | 7539 | 0 | 7539 | A | 439 491 250 469 1000 1000 1000 1000 895 0 |
| 1   | FY 04 | NG | 5139 | 0 | 5139 | A | 250 500 500 750 750 750 750 389 0 |
| 1   | FY 05 | A | 13403 | 0 | 13403 | A | 279 279 279 1117 1117 1117 1117 1117 7818 |
| 1   | FY 05 | MC | 7642 | 0 | 7642 | A | 250 500 1000 1000 1000 1000 1000 892 |
| 1   | FY 06 | A | 11790 | 0 | 11790 | A | 279 279 279 1117 1117 1117 1117 1117 7818 |
| 1   | FY 07 | A | 7590 | 0 | 7590 | A | 279 279 279 1117 1117 1117 1117 1117 7818 |

### STORM

| MFR | FY  | SERV | PROC QTY Each | ACCEPT PRIOR TO 1 OCT | BAL DUE AS OF 1 OCT | O CT N C | D E C J A N F E B M A P Y J U G S E P O C T N D E C J A N F E B M A P Y J U G S E P |
|-----|-----|------|--------------|------------------------|---------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 2   | FY 06 | A | 99 | 0 | 99 | A | 279 279 279 1117 1117 1117 1117 1117 7818 |
| 2   | FY 07 | A | 317 | 0 | 317 | A | 279 279 279 1117 1117 1117 1117 1117 7818 |

**Total**

|          | 53519 | 53519 | 439 491 250 469 1250 1500 1500 1500 1500 1644 750 1279 1168 1279 1279 2117 2117 2117 2117 2856 |

### PRODUCTION RATES

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<th>REORDER</th>
<th>D+</th>
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<th>REORDER</th>
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<th>REORDER</th>
<th>D+</th>
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**Remarks**

- **INITIAL**
- **REORDER**

---

**Item No. 78 Page 18 of 32**

Exhibit P-21
Production Schedule
### FY 06 / 07 BUDGET PRODUCTION SCHEDULE

**P-1 Item Nomenclature:**
INFRARED AIMING LIGHT, AN/PAQ-4 (K35000)

**Date:**
February 2005

**COST ELEMENTS**

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**AN/PEQ-2A Infrared Target Pointer/IAL**

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**Total**

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**Production Rates**

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<th>Admin</th>
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**Exhibit P-21**
Production Schedule

KA3500 (K35000)
INFRARED AIMING LIGHT, AN/PAQ-4

Item No. 78 Page 19 of 32
## FY 08 / 09 BUDGET PRODUCTION SCHEDULE

**P-1 Item Nomenclature:**
INFRARED AIMING LIGHT, AN/PAQ-4 (K3500)

**Date:**
February 2005

### COST ELEMENTS

| MFR | FY   | SERV | PROC QTY Each | ACCEP PRIOR TO 1 OCT | BAL DUE AS OF 1 OCT | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC |
|-----|------|------|---------------|----------------------|---------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
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**AN/PEQ-2A Infrared Target Pointer/IAL**

| MFR | FY   | SERV | PROC QTY Each | ACCEP PRIOR TO 1 OCT | BAL DUE AS OF 1 OCT | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC |
|-----|------|------|---------------|----------------------|---------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
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Total: 53519 48885 46548

### STORM

| MFR | FY   | SERV | PROC QTY Each | ACCEP PRIOR TO 1 OCT | BAL DUE AS OF 1 OCT | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC |
|-----|------|------|---------------|----------------------|---------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
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Total: 2 FY 06 1 FY 07

Total: 53519 48885 46548

### Remarks

- Initial Technology (PEQ-2), Londonderry, NH
- TBS
### Exhibit P-40, Budget Item Justification Sheet

**Appropriation/Budget Activity/Serial No:**

Other Procurement, Army /2/Communications and Electronics Equipment

**P-1 Item Nomenclature**

NIGHT VISION, AN/PVS-7 AID (K36400)

**Program Elements for Code B Items:**

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Less PY Adv Proc

Plus CY Adv Proc

Net Proc (P-1) 1049.1 88.5 82.7 76.9 101.5 171.3 153.8 117.8 61.5 Continuing Continuing

Initial Spares

Total Proc Cost 1049.1 88.5 82.7 76.9 101.5 171.3 153.8 117.8 61.5 Continuing Continuing

Flyaway U/C

Wpn Sys Proc U/C

**Description:**

The AN/PVS-14 Monocular Night Vision Device (MNVD) is a lightweight, head or helmet-mounted night vision goggle consisting of a single objective lens assembly, state-of-the-art image intensifier technology, and an eyepiece lens assembly. In FY05, production began transitioning to the Enhanced Night Vision Goggle (ENVG). The ENVG is a lightweight, helmet-mounted device consisting of a state-of-the-art image intensifier sensor, an uncooled long-wave infrared camera, and a miniature display to provide high resolution fused imagery to the individual Soldier. ENVG provides the Soldier with significantly improved situational awareness over existing image intensified devices in all light levels, adverse weather, and obscured battlefield conditions. The AN/PVS-14 and ENVG support the tactical level of war: enabling the individual Soldier to see, understand, and act first, permitting superior tactical mobility and decisive engagement during limited visibility conditions.

**Justification:**

FY06/07 procures a mixture of AN/PVS-14s and ENVGs. The AN/PVS-14s will fulfill night vision equipment shortages to Army Reserve and National Guard Units. The AN/PVS-14s will also provide the Stryker force the capability to dominate night operations by increasing situational awareness, mobility, and lethality during times of low light and night. The ENVGs will be fielded to Special Operators and other first to fight units and will provide the ability to maintain battlefield dominance and to win the close-in fight with individual combatant overmatch, by allowing for operations under all visibility conditions and across the full spectrum of conflict and battlefield environments.
### OPA2 Cost Analysis

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|     | TotalCost | Qty       | UnitCost  | TotalCost | Qty       | UnitCost  | TotalCost | Qty       | UnitCost  |
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# Exhibit P-5a, Budget Procurement History and Planning

**Appropriation/Budget Activity/Serial No:** Other Procurement, Army / 2 / Communications and Electronics Equipment

**Weapon System Type:** NIGHT VISION, AN/PVS-7 AID (K36400)

**P-1 Line Item Nomenclature:**

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**Remarks:**

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**KA3500 (K36400)**

**NIGHT VISION, AN/PVS-7 AID**

**Item No. 78 Page 23 of 32**

**Exhibit P-5a**

**Procurement History and Planning**
### FY 04 / 05 BUDGET PRODUCTION SCHEDULE

**P-1 Item Nomenclature:**
NIGHT VISION, AN/PVS-7 AID (K36400)

**Date:** February 2005

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### KA3500 (K36400)
NIGHT VISION, AN/PVS-7 AID

Item No. 78  Page 24 of 32  Exhibit P-21
Production Schedule
### FY 06 / 07 BUDGET PRODUCTION SCHEDULE

#### P-1 Item Nomenclature:
NIGHT VISION, AN/PVS-7 AID (K36400)

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#### Date:
February 2005

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### Summary

- Total Fiscal Year 06 Production: 68547
- Total Fiscal Year 07 Production: 6555

### Notes
- Production schedules for AN/PVS-7/14, ENVG, and Item 78.
- Detailed production quantities and due dates provided in tables for each fiscal year.
## FY 08 / 09 BUDGET PRODUCTION SCHEDULE

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**Exhibit P-40, Budget Item Justification Sheet**

**Appropriation/Budget Activity/Serial No:**
Other Procurement, Army / 2/ Communications and Electronics Equipment

**P-1 Item Nomenclature:**
SNIPER NIGHT SIGHT (K41500)

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**Description:**
The AN/PVS-10 Sniper Night Sight (SNS) is an integrated day/night system that mounts on the M24 sniper rifle and can be adapted to mount on other sniper weapons. The SNS utilizes passive third generation image intensification technology for night operations. The SNS for the .50 cal Long Range Sniper Rifle (LRSR) is a thermal sight. It utilizes second generation Forward Looking Infrared (FLIR) technology for operations at night or in limited visibility/obscured battlefield conditions. The SNS supports the tactical level of war enabling the individual sniper to see, understand, and act first. The SNS provides the sniper with the capability to acquire and engage targets at extended ranges during day and night.

**Justification:**
FY06/07 procures night sights to mount on the .50 cal Long Range Sniper Rifle (LRSR) being fielded to the United States Army. FY2007 quantities will complete current requirements for all Active, Reserves, and National Guard Sniper teams. Without the night sight, the sniper will not have the capability to engage and eliminate threat snipers, materiel, and thin skinned armored vehicle targets under low light conditions. The night sight allows the special operator to engage enemy vehicles, command and control centers, and snipers at an increased stand-off distance even during low light and night conditions, thus increasing the special operator's survivability and lethality.
### Exhibit P-5, Weapon
### OPA2 Cost Analysis

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Exhibit P-5, Weapon
SNIPER NIGHT SIGHT
SNIPER NIGHT SIGHT (K41500)

Item No. 78 Page 28 of 32
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Exhibit P-21
Production Schedule
### FY 06 / 07 BUDGET PRODUCTION SCHEDULE

**P-1 Item Nomenclature:**
- SNIPER NIGHT SIGHT (K41500)

**Date:**
- February 2005

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- **Night Sight Hardware**
- **Fiscal Year 06**
  - Total 2471
- **Fiscal Year 07**
  - Total 693

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**Production Schedule**

- **Fiscal Year 06**
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- **Fiscal Year 07**
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## FY 08 / 09 BUDGET PRODUCTION SCHEDULE

### P-1 Item Nomenclature:

**SNIPER NIGHT SIGHT** (K41500)

**Date:** February 2005

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### Production Schedule

**Exhibit P-21**

KA3500 (K41500)

SNIPER NIGHT SIGHT

Item No. 78  Page 32 of 32

Production Schedule
**Program Elements for Code B Items:**

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<td>Plus CY Adv Proc</td>
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**Description:**
The Long Range Advanced Scout Surveillance System (LRAS3) is a long range reconnaissance and surveillance system which operates in both a stationary vehicle mounted configuration and in an autonomous dismounted configuration. The LRAS3 is a multi-function, line-of-sight target acquisition common sensor suite which provides real-time target detection, recognition, and identification capability 24 hours a day in all weather conditions. LRAS3 also automatically determines Far Target Location (FTL) coordinates for any target ranged to by the operator. LRAS3 enables information superiority by interfacing with Force XXI Battle Command Brigade and Below (FBCB2) to provide target acquisition and FTL information which supports early and accurate intelligence preparation of the battlespace. LRAS3 utilizes the Horizontal Technology Integration (HTI) Second Generation FLIR (SGF) thermal sensor, enabling 24 hour a day operation in adverse weather and penetration of battlefield obscurants. LRAS3 significantly increases the survivability of forces through its standoff capability, allowing them to continue their mission as the eyes of the maneuver commander on the battlefield. The LRAS3 program is one of the top priority systems of the US Army Armor Center and other Training and Doctrine Command (TRADOC) components that support the Transformation Force (Stryker Brigade Combat Team (SBCT)). Without LRAS3, US Army reconnaissance, surveillance and target acquisition elements do not have the necessary equipment to perform target acquisition and FTL functions around-the-clock and with sufficient performance capability to enable them to remain outside enemy engagement ranges. The LRAS3 is a key enabling technology for the SBCT and has been a critical combat overmatch capability for the Army units in combat in Iraq.

**Justification:**
FY06 will procure and field LRAS3 systems which will be fielded to the 1st Infantry Division, 2nd Infantry Division and the 1st Armored Division. FY07 will field LRAS3 systems.
### OPA2 Cost Elements

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<th>FY 06</th>
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**Exhibit P-5, Weapon Appropriation/Budget Activity/Serial No.**

- **Other Procurement, Army / 2:** Communications and Electronics Equipment
- **P-1 Line Item Nomenclature:** LONG RANGE ADVANCED SCOUT SURVEILLANCE SYSTEM
- **Weapon System Type:** LONG RANGE ADVANCED SCOUT SURVEILLANCE SYSTEM
- **Date:** February 2005

**K38300**

*Item No. 79 Page 2 of 6*
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**REMARKS:**
## FY 04 / 05 BUDGET PRODUCTION SCHEDULE

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### Remark

OTH includes SBCT RV, SBCT FSV, and Knight. Manufacturers 1 and 2 were used for prior year deliveries to display varying lead times.
## FY 06 / 07 BUDGET PRODUCTION SCHEDULE

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### Remarks

OTH includes SBCT RV and SBCT FSV, and Knight. Manufacturers 1 and 2 were used for prior year deliveries to display varying lead times.
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OTH includes SBCT RV, SBCT FSV, and Knight. Manufacturers 1 and 2 were used for prior year deliveries to display varying lead times.
### Description:
The AN/PVH 1A & 2A, Lightweight Video Reconnaissance System (LVRS) supports the Soldier by enhancing situational awareness during all light conditions especially low light and low visibility operations. The LVRS captures and transmits still frame video images through military radios and provides near real-time intelligence to gain and retain the initiative, expedite the decision-action cycle, and facilitate the establishment of a common operating picture of the battlefield at the tactical level of war. The images are captured with a portable Out Station LVRS (AN/PVH-1A) that also enables the user to attach operational intelligence messages and then transmit the captured images and intelligence to the Base Station LVRS (AN/PVH-2A) for intelligence analysis and further dissemination. The LVRS provides the first day/night image transmission capability between ground scouts, long range surveillance units (LRS), and special operation forces (SOF), and their higher headquarters, facilitating rapid target identification and analysis of key structures/terrain and other data critical to mission planning/execution. LVRS supports the Army Future Force tenets of lethality, mobility, and survivability. LVRS enhances situational awareness by providing relevant real-time information for evaluation. LVRS permits infantry-based forces to gain and maintain information superiority, and enhances the ability to dominate and win the close fight with individual combatant overmatch across the full spectrum of conflict. LVRS will enable the Stryker and Future Forces to dominate Battlefield Functional Areas (BFA) of Maneuver and Intelligence, Surveillance, and Reconnaissance. LVRS enhances situational awareness during daylight and limited visibility operations and will facilitate Stryker and Future Force survivability and lethality while capitalizing on advances in technology.

### Justification:
No funds are budgeted in this program in FY06/07.
**Exhibit P-40, Budget Item Justification Sheet**

**Appropriation/Budget Activity/Serial No:**
Other Procurement, Army /2/Communications and Electronics Equipment

**P-1 Item Nomenclature**
NIGHT VISION, THERMAL WPN SIGHT (K22900)

**Program Elements for Code B Items:**

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**Description:**
The AN/PAS-13 Thermal Weapon Sight (TWS) program supports the Army's objectives by increasing the individual Soldier's situational awareness, lethality, mobility and survivability during periods of significantly reduced visibility. The AN/PAS-13, TWS, is used with a variety of Infantry individual and crew served weapons. The TWS supports the tactical level of war enabling the individual Soldier to see, understand, and act first. The TWS program provides the Soldier with advanced imaging technologies today. TWS consists of a Second Generation thermal imaging device that significantly improves mounted and dismounted Infantry operational capability and supported weapon system performance, by increasing target acquisition range and enabling both day and night vision through smoke, fog, battlefield obscurants and in extremely low light levels. TWS is produced in three configurations (light, medium and heavy) to support the target acquisition range of the weapon systems. TWS enables Stryker and Future Forces to dominate and win the close fight with individual combatant overmatch during day, night, and low visibility operations across the full spectrum of conflict. TWS will be fielded for use with Stryker Brigade Combat Team (SBCT) dismounted Soldiers and mounted crew served weapons on selected variants. TWS satisfies an immediate capability gap providing thermal imagery for Stryker Force individual Soldier and is poised to capitalize on advances in technology providing revolutionary enhancements for the Future Force in all operating environments.

**Justification:**
FY06/07 procures TWS systems for fielding to units deploying to support Operation Iraqi Freedom (OIF), Global War on Terrorism (GWOT), and for Modularity requirements. TWS is also a Horizontal Technology Integration (HTI) program, which upholds the Army Future Force tenets of lethality, mobility, and survivability while emphasizing the "Soldier as a System."
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**Total** | 177385 | 83692 | 92349
**Exhibit P-5a, Budget Procurement History and Planning**

**Appropriation/Budget Activity/Serial No:**
Other Procurement, Army / 2 / Communications and Electronics Equipment

**Weapon System Type:**
NIGHT VISION, THERMAL WPN SIGHT (K22900)

**P-1 Line Item Nomenclature:**
OTHER PROCUREMENT, ARMY / 2 / COMMUNICATIONS AND ELECTRONICS EQUIPMENT

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**Remarks:** In FY04, TWS awarded two 5-Year Multiyear Contracts.

K22900
NIGHT VISION, THERMAL WPN SIGHT

Item No. 81  Page 3 of 6
359
Exhibit P-5a
Procurement History and Planning
# FY 04 / 05 BUDGET PRODUCTION SCHEDULE

**P-1 Item Nomenclature:** NIGHT VISION, THERMAL WPN SIGHT (K22900)

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## FY 06 / 07 BUDGET PRODUCTION SCHEDULE

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**AN/PAS-13 Thermal Weapon Sight (TWS)**

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K22900
NIGHT VISION, THERMAL WPN SIGHT

Item No. 81 Page 5 of 6

Exhibit P-21
Production Schedule
### FY 08 / 09 BUDGET PRODUCTION SCHEDULE

**P-1 Item Nomenclature:**
NIGHT VISION, THERMAL WPN SIGHT (K22900)

**Date:**
February 2005

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- Initial reorder is 1 Oct
- All columns are filled with data

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Description:
The JLENS Project Office merged with the Short Range Air Defense (SHORAD) Project Office on January 11, 2005, to become the JLENS Product Office within the Cruise Missile Defense Systems (CMDS) Project Office. On January 13, 2005, the Program Executive Office for Air, Space and Missile Defense (PEO ASMD), which JLENS was assigned to merged with the Program Executive Office for Tactical Missiles (PEOT M) to become the Program Executive Office for Missiles and Space (PEO MS).

The JLENS Product Office has deployed an aerostat capability to Southwest Asia in support of Central Command activities in Afghanistan and Iraq. The system, known as the Rapid Aerostat Initial Deployment (RAID), is a new acquisition, off-the-shelf system, funded from Global War on Terrorism (GWOT) funds, and consists of a sensor and communications suite for area surveillance and force protection against small arms, mortar and rocket attacks. The system can operate independently and consists of three main components: elevated platform, multi-spectral sensor suite, and ground control station. The elevated platform is either a 117 foot tower or 15-meter aerostat, depending on the specific operational requirements. The aerostat can operate at a hover altitude of approximately 1,000 feet mean sea level. The multi-spectral sensor suite consists of a mechanically stabilized, Electro-Optic/Infrared (EO/IR) sensor. The sensor consists of an EO color daytime camera, an IR black and white day or night camera, spotter scope and a laser range finder (LRF). The LRF with pointing azimuth precisely locates targets of interest out to 13 kilometers (km) (personnel) or 20km (vehicles). The RAID system also extends the communication range of Single Channel Ground and Airborne Radio Systems by providing a retransmission capability. The JLENS RAID system provides base security cells with unique, 360 degree, high-resolution, day/night surveillance capability for enhanced target recognition and situational awareness enabling timely and appropriate response options such as direct air attack, indirect fire, and ground patrol/attack from field units.
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### Description:
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### Justification:
No FY06/07 Funding
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REMARKS:
### FY 04 / 05 BUDGET PRODUCTION SCHEDULE

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**P-1 Item Nomenclature:**
RAPID AEROSTAT INITIAL DEPLOYMENT (BZ0520)

**Date:**
February 2005
**Exhibit P-40, Budget Item Justification Sheet**

**Appropriation/Budget Activity/Serial No:**
Other Procurement, Army /2/Communications and Electronics Equipment

**P-1 Item Nomenclature**
ARTILLERY ACCURACY EQUIP (AD3200)

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<td>Wpn Sys Proc U/C</td>
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**Description:**
Artillery Accuracy Equipment involves the procurement of meteorological, survey and velocity measuring equipment designed to improve accuracy of Army artillery weapons and increase the probability of first round target hits. This category of equipment included procurement of the Meteorological Measuring System(K27800), Artillery Muzzle Velocity System (AD3250) and Improved Position and Azimuth Determining System (M75700).

**Justification:**
FY 2006/2007 procures one IPADS and related fielding support.
## Exhibit P-40, Budget Item Justification Sheet

**Appropriation/Budget Activity/Serial No:**
Other Procurement, Army /2/Communications and Electronics Equipment

**P-1 Item Nomenclature**
ARTY MUZZLE VELOCITY SYSTEM (AD3250)

### Program Elements for Code B Items:

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| Proc Qty | 866 | 100 | 60 |  |  |  |  |  |  |  | 1026 |
| Gross Cost | 48.6 | 3.3 | 2.1 | 1.5 |  |  |  |  |  |  | 55.5 |
| Less PY Adv Proc |  |  |  |  |  |  |  |  |  |  |  |
| Plus CY Adv Proc |  |  |  |  |  |  |  |  |  |  | 0.0 |
| Net Proc (P-1) | 48.6 | 3.3 | 2.1 | 1.5 |  |  |  |  |  |  | 55.5 |
| Initial Spares |  |  |  |  |  |  |  |  |  |  |  |
| Total Proc Cost | 48.6 | 3.3 | 2.1 | 1.5 |  |  |  |  |  |  | 55.5 |
| Flyaway U/C |  |  |  |  |  |  |  |  |  |  |  |
| Wpn Sys Proc U/C | 0.0 | 0.0 |  |  |  |  |  |  |  |  |  |

### Description:

The conventional Muzzle Velocity System (MVS) is a Doppler Radar System which measures the muzzle velocity of artillery projectiles. It consists of weapon-mounted antenna connected to a display unit. The display will provide the muzzle velocity of the last round fired. The MVS will also compute weapon calibration data and store that data. A separate Paladin version of MVS is being fielded for use with the M109A6 Paladin Howitzer. It does not require a display and will be integrated into the M109A6 Paladin Automatic Fire Control System. The MVS will enhance artillery accuracy and first round hit probability. This will decrease projectile and propellant usage and reduce the requirements to adjust fire on target. The MVS will also provide an automated method for calculating and storing weapon calibration data. The MVS is being procured as a non-developmental item (NDI) which includes acquisition of provisioning data, manuals, and related hardware for the conventional system; i.e., Muzzle Velocity Communications Adapters (MCA). Procurement quantity reflects the total combined M94 and M93 MVS procurements.

### Justification:

FY06/07 no procurement.
### OPA2 Cost Elements

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**Exhibit P-5a, Budget Procurement History and Planning**

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**REMARKS:** The FY 03-04 procurement quantities are for the balance of the M94 MVS and the procurement of M94 MVS Communications Adapators (MCA) which are planned for fielding to each non-Paladin 155MM tube and each 105MM tube. Small quantity of M93 MVS to be used as float quantity during upcoming retrofit.
**FY 02 / 03 BUDGET PRODUCTION SCHEDULE**

**P-1 Item Nomenclature:**
ARTY MUZZLE VELOCITY SYSTEM (AD3250)

**Date:**
February 2005

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AD3200 (AD3250)
ARTY MUZZLE VELOCITY SYSTEM

Item No. 83  Page 5 of 13
Exhibit P-21
Production Schedule
### FY 04 / 05 BUDGET PRODUCTION SCHEDULE

**P-1 Item Nomenclature:**
ARTY MUZZLE VELOCITY SYSTEM (AD3250)

**Date:**
February 2005

|---------------|-----|----|------|----------|-----------------------|---------------------|-------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|

1. Hardware MVS

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
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**AD3200 (AD3250)**

**ARTY MUZZLE VELOCITY SYSTEM**

Item No. 83 Page 6 of 13

Exhibit P-21

Production Schedule
### Description:
The Improved Position and Azimuth Determining System (IPADS) supports modernization of the Army's Field Artillery survey capabilities. The current PADS was fielded in the 1980s with 1970s technology. Poor reliability and obsolete technology has resulted in a system that is no longer economically supportable. The IPADS leverages technology advances, substantially improve reliability, and provide a digital communications capability to meet the needs of the Army of the Future. This is a Joint Program with the USMC.

### Justification:
FY 2006 no procurement. FY 2007 procures one IPADS and related fielding support.

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## Exhibit P-5a, Budget Procurement History and Planning

### Appropriation/Budget Activity/Serial No:
Other Procurement, Army / 2 / Communications and Electronics Equipment

### Weapon System Type:
POSITION AZIMUTH DETERMINING SYS (PADS) (M75700)

### P-1 Line Item Nomenclature:
POSITION AZIMUTH DETERMINING SYS (PADS) (M75700)

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### REMARKS:
July 2003 contract award to procure test articles plus 5 additional yearly periods of performance for production. Option for FY04 buy exercised in Aug 04.
## FY 02 / 03 BUDGET PRODUCTION SCHEDULE

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## Position Azimuth Determining Sys (PADS) (M75700)

**FY 04 / 05 Budget Production Schedule**

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### Remarks

1. 1-3 Communications, Budd Lake, NJ

- **Production Rates**
  - Name/Location: 1-3 Communications, Budd Lake, NJ
  - MIN: 1.00
  - 1-8.5: 8.00
  - MAX: 16.00
  - D+: 0
  - MFR Number: 1
  - Initial: 0
  - Reorder: 0

### Production Schedule

- **AD3200 (M75700)**
- **Position Azimuth Determining Sys (PADS)**
- **Item No.: 83**
- **Page: 11 of 13**
- **Exhibit P-21**
- **Production Schedule**
- **February 2005**

---

**AD3200 (M75700)**

**Position Azimuth Determining Sys (PADS) (M75700)**

**Item No.: 83**

**Page: 11 of 13**

**Exhibit P-21**

**Production Schedule**
## FY 06 / 07 BUDGET PRODUCTION SCHEDULE

**Cost Elements**

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### Remarks

1. **Position Azimuth Determining Sys** (PADS) (M75700)

### Production Schedule

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AD3200 (M75700)
POSITION AZIMUTH DETERMINING SYS (PADS)

Item No. 83 Page 12 of 13

Exhibit P-21
Production Schedule
### FY 08 / 09 BUDGET PRODUCTION SCHEDULE

**COST ELEMENTS**

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**REMARKS**

- Initial
- reorder

### Fiscal Year 09

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**REMARKS**

- Initial
- reorder

**MFR Number**

- Initial
- reorder

**PRODUCTION RATES**

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**REMARKS**

- Initial
- reorder

**Production Schedule**
### Exhibit P-40, Budget Item Justification Sheet

**Date:** February 2005

**Appropriation/Budget Activity/Serial No:**
Other Procurement, Army /2/Communications and Electronics Equipment

**P-1 Item Nomenclature**
MOD OF IN-SVC EQUIP (MMS) (AD3255)

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<td>Plus CY Adv Proc</td>
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<td>Wpn Sys Proc U/C</td>
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**Description:**
The Meteorological Measuring System (MMS) provides field artillery weather data to the active Army to achieve required capability. It is an upper air meteorological data collection, processing and dissemination system that provides necessary data to field artillery, target acquisition, and air weather service to improve their mission capability. It is mobile, and provides high altitude Met Data to USAF Weather Service to a range of 20 kilometers, radiological fallout data to the chemical sections, meet roll on/roll off High Mobility Multipurpose Wheeled Vehicle (HMMWV) requirements data to 20 kilometers.

**Justification:**
FY06/07 procures Standalone Computer Units (SRUs), fielding of TACMETs (replacement of Semi-automatic Meteorological Stations) and Modularity fieldings.
**Exhibit P-40, Budget Item Justification Sheet**

**Appropriation/Budget Activity/Serial No:**
Other Procurement, Army /2/Communications and Electronics Equipment

**P-1 Item Nomenclature**
MOD OF IN-SVC EQUIP (MVS) (AD3265)

**Program Elements for Code B Items:**

| Description: | The Muzzle Velocity System/Muzzle Velocity Communications Adapters (MVS/MCA) Mod-In-Service line will allow for software upgrades to M94 MVS and MCA, to maintain interface compatibility with various other pieces of DOD hardware, end items and support equipment currently fielded; i.e. Battery Computer System (BCS) and Field Artillery Tactical Data System (FATDS). |
| There is not FY06/07 funding |

| Proc Qty | 0.2 | 0.3 | 0.2 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 1.0 |
| Gross Cost | 0.2 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 1.0 |
| Less PY Adv Proc | 0.2 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 1.0 |
| Plus CY Adv Proc | 0.2 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 1.0 |
| Net Proc (P-1) | 0.2 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 1.0 |
| Initial Spares | 0.2 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 1.0 |
| Total Proc Cost | 0.2 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 1.0 |
| Flyaway U/C | 0.2 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 1.0 |
| Wpn Sys Proc U/C | 0.2 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 1.0 |

**Date:**
February 2005
**Exhibit P-40, Budget Item Justification Sheet**

**Appropriation/Budget Activity/Serial No:**
Other Procurement, Army /2/Communications and Electronics Equipment

**P-1 Item Nomenclature**
ENHANCED PORTABLE INDUCTIVE ARTILLERY FUZE SETTER (AD3260)

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**Description:**
This budget line item supports procurement of Enhanced Portable Inductive Artillery Fuze Setter (E-PIAFS). The E-PIAFS is a pre-planned product improvement to the PIAFS, and allows for inductive setting of GPS guided artillery munitions in addition to its current fuze setting capabilities. The E-PIAFS includes the Platform Integration Kits (PIK) for the XM982 (Excalibur), a precision guided extended range 155mm artillery munition. E-PIAFS provides the Excalibur with approximately 1,000 times the amount of data required by traditional fuzes due to the use of a GPS guided navigation system. E-PIAFS will replace PIAFS in the M777A1 Joint Light Weight Towed Howitzer. The PIK is required to interface the E-PIAFS and to the Towed Artillery Digital Fire Control System in the LW155's and to Paladin Digital Fire Control System.

**Justification:**
The FY2006/2007 procures the E-PIAFS and the PIK needed to support the early fielding plan of the Excalibur Unitary projectiles.
### OPA2 Cost Analysis

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### Exhibit P-5a, Budget Procurement History and Planning

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**REMARKS:**

AD3260
ENHANCED PORTABLE INDUCTIVE ARTILLERY FUZE SETTER

Item No. 86  Page 3 of 5  Exhibit P-5a
Procurement History and Planning
### AD3260

**ENHANCED PORTABLE INDUCTIVE ARTILLERY FUZE SETTER**

| COST ELEMENTS | MFR  | FY   | SERV | PROC QTY Units | ACCEP PRIOR TO 1 OCT | BAL DUE AS OF 1 OCT | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB |
|---------------|------|------|------|----------------|----------------------|---------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| EPIAFS        | 1    | FY 05| A    | 25            | 0                    | 25                  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|               | 2    | FY 06| A    | 211           | 0                    | 211                 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|               | 2    | FY 07| A    | 214           | 0                    | 214                 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| PIK           | 1    | FY 05| A    | 25            | 0                    | 25                  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|               | 2    | FY 06| A    | 201           | 0                    | 201                 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|               | 2    | FY 07| A    | 202           | 0                    | 202                 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |

**Total: 878**

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Item No. 86  Page 4 of 5  Exhibit P-21  Production Schedule
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## Description:
The AN/TMQ-52 Meteorological Measuring Set-Profiler (MMS-P) is a replacement for the current Meteorological Measuring Set (MMS), AN/TMQ-41. Profiler uses a suite of meteorological (MET) sensors and MET data from communication satellites along with an advanced weather model to provide highly accurate met data out to a range of 500 kilometers. Currently, MMS data regardless of its staleness is considered accurate only to 20 kilometers from balloon launch site and cannot provide target area MET data. Profiler provides all weather conditions affecting munitions including information on wind speed, wind direction, temperature, pressure, relative humidity, rate of precipitation, visibility, and cloud ceiling height needed for precision targeting and terminal guidance. By providing more accurate MET messages, Profiler will enable the artillery to have a greater probability of a first round hit with indirect fire systems than is achievable with the current MMS. The new capabilities will increase the lethality of field artillery systems such as Multiple Launch Rocket Systems, towed and self-propelled cannons. This effort will increase the accuracy of a wide range of deep fire weapons and munitions.

## Justification:
FY2006/2007 procures and fields Profiler systems to SBCTs 2, 4 & 5.
## OPA2 Cost Analysis

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### Fiscal Year 2005 (FY 05)

### Fiscal Year 2006 (FY 06)

### Fiscal Year 2007 (FY 07)
### Exhibit P-5a, Budget Procurement History and Planning

**Exhibit P-5a, Budget Procurement History and Planning**

- **Appropriation/Budget Activity/Serial No:** Other Procurement, Army / 2 / Communications and Electronics Equipment
- **Weapon System Type:** PROFILER (K27900)
- **P-1 Line Item Nomenclature:** Other Procurement, Army / 2 / Communications and Electronics Equipment

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**Exhibit P-40, Budget Item Justification Sheet**

**Appropriation/Budget Activity/Serial No:**
Other Procurement, Army /2/Communications and Electronics Equipment

**P-1 Item Nomenclature**
MOD OF IN-SVC EQUIP (Firefinder Radars) (BZ7325)

**Date:** February 2005

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**Description:**
MOD IN-SERVICE EQUIPMENT (TAC SURV) funds the modifications to the Firefinder radars, the AN/TPQ-36 Mortar Locating Radar and the AN/TPQ-37 Artillery Locating Radar. The Firefinder equipment was designed to meet the Army's critical need to quickly and accurately locate the large number and variety of hostile indirect fire weapons. The Firefinder radars use a combination of radar techniques and computer controlled signal processing to detect and locate enemy mortars, field artillery, and rockets with sufficient accuracy to permit rapid engagement with counterfire. The Firefinder radars are capable of locating multiple weapons simultaneously and transmitting the target data to appropriate counterfire elements in near real time. The AN/TPQ-36 is a phased-array X-Band radar which automatically locates mortar and short range rocket launchers. The system is configured on three (3) High Mobility Multi-Purpose Wheeled Vehicles (HMMWVs) making it highly mobile and transportable. The AN/TPQ-37 is a larger system requiring a 5-ton truck to pull the Antenna Transceiver Group (ATG). The AN/TPQ-37 is a phased-array S-Band radar with a longer target acquisition range than the AN/TPQ-36 allowing it to locate artillery and rockets.

**Justification:**
FY06/07 procures the following:

a. AN/TPQ-36(V)8 modification kits to enhance capabilities in range, false target rate, target throughput, target classification and displacement time and resolve obsolescence issues.
b. Procurement/integration of MILTOPE TSC 750-M Laptop Computer replacement for AN/TPQ-36(V)8 Lightweight Computer Unit (LCU) and AN/TPQ-37 Versatile Computer Unit (VCU) to maintain radar supportability.
c. Fire Support Digitization hardware/software required to upgrade AN/TPQ-37s to sustain Field Artillery Tactical Data System (FATDS) connectivity and provide Joint Technical Architecture-Army (JTA-A) compliance.
d. Fielding of AN/TPQ-37 support hardware to Stryker Brigade Combat Teams (SBCTs).
e. Modification of AN/TPQ-36(V)8 Radar Processor to resolve performance issues in clutter environment, resolve obsolescence issues and maintain radar supportability.
f. Consolidation of multiple individual operational software builds into a single multi-mission operational software package for the AN/TPQ-37 to allow operators to alter their mission focus rapidly.
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MODIFICATION TITLE: AN/TPQ-36(V)8 Electronics Upgrade [MOD 1]

MODELS OF SYSTEM AFFECTED: AN/TPQ-36(V)5 and AN/TPQ-36(V)7 HMMWV Radar

DESCRIPTION/JUSTIFICATION:
The AN/TPQ-36 is the primary target acquisition and counterfire system for Field Artillery in support of Divisions, separate Brigades, and rapid deployment task forces. The AN/TPQ-36(V)8 incorporates an electronics upgrade to enhance capabilities in range, false target rate, target throughput, target classification and displacement time. It replaces electronic components rapidly approaching obsolescence with Common Hardware/Software (CHS) and/or Commercial Off-The-Shelf (COTS) equipment. The Army has procured eighty-eight (88) AN/TPQ-36(V)8 modification kits. With the transition to modularity, the AN/TPQ-36(V)8 will be fielded 1 per UA (Heavy and Light) and 1 per SBCT.

FY 2006/2007 procures:
Procurement/fielding/installation of AN/TPQ-36(V)8 mod kits
Procurement/integration of MILTOPE TSC 750-M Laptop Computer replacement for the LCU
Redesign of Radar Processor
Establish Full Organic Repair Capability at Depot
Computer Hardware/Software Upgrades

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:
1QFY05 - Complete Critical Design Review (CDR) for integration of MILTOPE Laptop replacement for LCU
2QFY05 - Award contract for redesign of Radar Processor
3QFY05 - Delivery of first MILTOPE Replacement mod kit
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MODIFICATION TITLE: AN/TPQ-37 Fire Support Digitization [MOD 3]

MODELS OF SYSTEM AFFECTED: AN/TPQ-37(V)5/6

DESCRIPTION/JUSTIFICATION:
This upgrade will modify the Firefinder AN/TPQ-37 Operations Control Group (OCG) and will incorporate hardware and software to sustain Field Artillery Tactical Data System (FATDS) connectivity and provide Joint Technical Architecture-Army (JTA-A) compliance. The hardware currently includes a Versatile Computer Unit (VCU) and TACFIRE Control Interface Module (TCIM). VCU will be replaced with a MILTOPE TSC 750-M Laptop Computer to maintain radar supportability. With the transition to modularity, the AN/TPQ-37 will be fielded 1 per UA (Heavy), 4 per Fires BDE, and 1 per SBCT.
FY 2006/2007 procures:
Installation of the kits and fielding to Active Army and National Guard units.
Modification of additional AN/TPQ-37 radars to sustain FATDS connectivity.
Procurement/Integration of MILTOPE TSC 750-M Laptop Computer replacement for the VCU.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:
Fielding began in Dec 03 and will continue thru 4QFY06.
Initiate procurement/integration of VCU replacement in 1QFY06.

Installation Schedule:

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METHOD OF IMPLEMENTATION: Depot
ADMINISTRATIVE LEADTIME: 0 Months
PRODUCTION LEADTIME: 9 Months

Delivery Date: FY 2006 FY 2007 FY 2008
## FINANCIAL PLAN: ($ in Millions)

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Total Procurement Cost 9.8 1.4 2.3 1.9 4.3 0.7 0.0 0.0 0.0 0.0 20.4
**MODIFICATION TITLE:** AN/TPQ-37 SBCT Fieldings [MOD 5]

**MODELS OF SYSTEM AFFECTED:** AN/TPQ-37(V)

**DESCRIPTION/JUSTIFICATION:**

One (1) AN/TPQ-37 system will be fielded to each Stryker Brigade Combat Team (SBCT). This is an Interim system. Fieldings to the SBCTs are in effect new fieldings. Radars are available, however, support equipment must be procured and upgrades to common configuration baseline must be accomplished prior to fielding.

FY2006 procures installation kits and fielding to SBCT 6.

**DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:**

Fielding to SBCT 4 (Ft Polk, LA) and SBCT 5 (Schofield Barracks, HI) scheduled for FY05. Fielding to SBCT 6 (56th PA National Guard, PA) scheduled for FY06.

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<td>FY 2006</td>
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## INDIVIDUAL MODIFICATION

**Date:** February 2005

**MODIFICATION TITLE (Cont):** AN/TPQ-37 SBCT Fieldings [MOD 5]

### FINANCIAL PLAN: ($ in Millions)

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INDIVIDUAL MODIFICATION

Date: February 2005

MODIFICATION TITLE: AN/TPQ-37(V)8 Upgrade for SBCTs [MOD 6]

MODELS OF SYSTEM AFFECTED: AN/TPQ-37(V)6

DESCRIPTION/JUSTIFICATION:

The AN/TPQ-37 is the primary target acquisition and counterfire radar for the Field Artillery. The AN/TPQ-37(V)8 incorporates mechanical upgrades to improve reliability, availability and maintainability (RAM) by replacing the cooler and dehydrator. The (V)8 configuration also provides improved transportability with a roll-on/roll-off C-130 capability after removing the antenna from the trailer; mobility improvements via a tracked suspension system; and incorporation of the Modular Azimuth Position System (MAPS) for self survey capability. It also re-positions the Firefinder Operations Control shelter on a HMMWV.

FY05 funds testing and installation of the AN/TPQ-37(V)8 modification kits.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Testing and installation scheduled for FY05.

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<th>0 Months</th>
<th>Production Leadtime:</th>
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<tbody>
<tr>
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Installation Schedule:

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Testing and installation scheduled for FY05.
## INDIVIDUAL MODIFICATION

Date: February 2005

### MODIFICATION TITLE (Cont): AN/TPQ-37(V)8 Upgrade for SBCTs [MOD 6]

### FINANCIAL PLAN: ($ in Millions)

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<tr>
<td>Kit Quantity</td>
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<tr>
<td>Installation Kits</td>
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<tr>
<td>Installation Kits, Nonrecurring</td>
</tr>
<tr>
<td>Equipment</td>
</tr>
<tr>
<td>Equipment, Nonrecurring</td>
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<tr>
<td>Engineering Support</td>
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<tr>
<td>Fielding</td>
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<td>Other</td>
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<table>
<thead>
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<tbody>
<tr>
<td>FY2002 &amp; Prior Equip -- Kits</td>
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<tr>
<td>FY2003 Equip -- Kits</td>
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<tr>
<td>FY2004 Equip -- Kits</td>
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<tr>
<td>FY2005 Equip -- Kits</td>
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<tr>
<td>FY2006 Equip -- Kits</td>
</tr>
<tr>
<td>FY2007 Equip -- Kits</td>
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<td>FY2008 Equip -- Kits</td>
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<td>TC Equip- Kits</td>
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<table>
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<thead>
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<td>Kit Quantity</td>
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<tr>
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<td>Installation Kits, Nonrecurring</td>
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<td>Equipment</td>
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<tr>
<td>Engineering Support</td>
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<td>Fielding</td>
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<tr>
<td>Other</td>
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<td>PM Admin</td>
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<table>
<thead>
<tr>
<th>Installation of Hardware</th>
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<tbody>
<tr>
<td>FY2002 &amp; Prior Equip -- Kits</td>
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<tr>
<td>FY2003 Equip -- Kits</td>
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<td>FY2004 Equip -- Kits</td>
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<td>FY2005 Equip -- Kits</td>
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<td>FY2006 Equip -- Kits</td>
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<tr>
<td>FY2007 Equip -- Kits</td>
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<td>FY2008 Equip -- Kits</td>
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<td>TC Equip- Kits</td>
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<table>
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<th>Total Installment</th>
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<table>
<thead>
<tr>
<th>Total Procurement Cost</th>
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<tbody>
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INDIVIDUAL MODIFICATION

MODIFICATION TITLE: AN/TPQ-37 Software Consolidation [MOD 7]

MODELS OF SYSTEM AFFECTED: AN/TPQ-37

DESCRIPTION/JUSTIFICATION:

The Firefinder AN/TPQ-37 is a phased array Artillery Locating Radar. Multiple unique missions have resulted in the development of mission specific operational software programs for the AN/TPQ-37. Currently, complete shutdown and re-initialization is required to reboot system to a different mode. This action takes the radar system off-line for up to 20 minutes. Combining these capabilities into a single multi-mission operational software package will allow the Commander to implement one of these mission specific modes "on the fly" in less than 30 seconds.

FY06/07 funds the integration, live ammunition testing, and release of the multi-mission operational software package.

The AN/TPQ-37 system is fielded two (2) per Division and one (1) per Stryker Brigade Combat Team. The multi-mission software package will be fielded to all AN/TPQ-37s in the Army.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FY06 - Conduct Non-Recurring Engineering (NRE) efforts to integrate multiple individual operational software builds into one proram.
FY07 - Conduct Live Ammunition Testing and begin fielding of the software.

Installation Schedule:

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<tr>
<td>Outputs</td>
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METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: 0 Months PRODUCTION LEADTIME: 0 Months

Delivery Date: FY 2006 FY 2007 FY 2008
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<tr>
<td>FY 2006 Equip -- Kits</td>
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<td>FY 2010 Equip -- Kits</td>
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### Description:
FBCB2 is a digital, battle command information system that provides integrated, on-the-move, timely, relevant battle command information to tactical combat, combat support and combat service support leaders and soldiers. FBCB2 incorporates state-of-the-art information technology to allow commanders to concentrate combat system effects rather than combat forces, enabling units to be both more survivable and more lethal. FBCB2 provides the capability to pass orders and graphics allowing the Warfighter to visualize the commander's intent and scheme of maneuver. FBCB2 affords combat forces the capability to retain the tactical/operational initiatives under all mission, enemy, terrain, troops, and time available conditions to enable faster decisions, real/near-real time communications and response. The system includes a Pentium based processor, display unit, keyboard and removable hard disk drive cartridge. FBCB2 supports situational awareness (Blue and Red force positions) and command and control down to the soldier/platform level across Battlefield Operating Systems (BOS) and echelons. FBCB2 is a key component of the Army Battle Command System (ABCS). FBCB2-Blue Force Tracking (BFT) is a part of the FBCB2 program, which built upon both the FBCB2 program and experience with the Enhanced Information System (EIS), also known as the Balkan Digitization Initiative (BDI) deployed in the Balkans. An L-Band transceiver employing commercial satellite services is used in lieu of tactical terrestrial radios. The FBCB2-BFT system is deployed in the Gulf region in support of Operation Enduring Freedom (OEF)/Operation Iraqi Freedom (OIF) and has remained with those in CONUS that have returned from OEF/OIF. FBCB2-BFT satisfies the operational needs of the warfighter by providing near real-time tracking capabilities for joint and coalition forces in the Central Command (CENTCOM) Area of Responsibility (AOR). FBCB2-BFT enhances effectiveness by providing automated tools to facilitate the battle command process. It enhances the ability for the soldiers to operate in an unpredictable and changing environment where units are Beyond Line of Sight (BLOS) within the battle space and across the spectrum of conflict by using multiple commercial satellites, which send the FBCB2-BFT data to a central processing facility known as the FBCB2 Operations Center. A Full Rate Production (FRP) decision was approved as a result of ASARC, Aug 2004.

### Justification:
FY 06/07 procures FBCB2s to continue fielding to units of SBCTs, 82ABN, 101ABN, 173ABN, 1AD, 1ID, 2ID, 3ID, 10ID, 25ID, APS's, 3ACR, 1CD, Enhanced Separate Brigade(eSB) and Special Operation Forces.
## OPA2 Cost Analysis

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**Remarks**: 0

**Budget Production Schedule**

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**Budget Production Schedule**

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**Budget Production Schedule**

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**Budget Production Schedule**

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**Budget Production Schedule**

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**Total:** 15984

| 1 | Fielding | 3008 |
| 2 |          | 12976 |

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**Exhibit P-21**

Item No. 89 Page 5 of 7

FORGE XXI BATTLE CMD BRIGADE & BELOW (FBCB2)

Production Schedule
## FY 08 / 09 BUDGET PRODUCTION SCHEDULE

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**Total**

- O 15984
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- D 4645
- A 400
- F 1143

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**Exhibit P-21**

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### Description:

The Lightweight Laser Designator Rangefinder (LLDR) (AN/PED-1) is a modular system designed for man-portable day/night all-weather use for determining the precise location of threat targets, and for designating threat targets for engagement by Global Position System (GPS) precision and laser guided munitions for a variety of Army and Joint weapons systems. The Target Location Module uses an advanced thermal (infrared (IR)) sensor, day camera, laser rangefinder, and digital compass/vertical angle device, global positioning system, and system controller with digital data and video outputs. These components provide precision target location and the capability to digitally transmit the targeting information. The Laser Designation Module contains the laser and associated optics required to ‘paint’ a threat target for precision engagement by laser-guided munitions. The Target Location Module, at 12.9 pounds, the Laser Designation Module, at 10.7 pounds, and the accessories, at 10.4 pounds, make the modular man-portable LLDR a combat multiplier for current and future forces. The LLDR has proven a useful tool for rapidly locating and attacking insurgents firing rockets and mortars at our bases in theater.

### Justification:

FY06/07 procures this critical capability for fielding to the 172nd Separate Infantry Brigade - 3rd Stryker Brigade Combat Team (SBCT), the 2nd Infantry Division - 1st SBCT, the 28th Mechanized Division - 6th SBCT, and the 10th Mountain Division. The LLDR meets a critical requirement for precision target location and engagement for the artillery fire support teams.
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**K31100**
LIGHTWEIGHT LASER DESIGNATOR/RANGEFINDER (LLDR)
# Exhibit P-5a, Budget Procurement History and Planning

**Appropriation/Budget Activity/Serial No:**
Other Procurement, Army / 2 / Communications and Electronics Equipment

**Weapon System Type:**

**P-1 Line Item Nomenclature:**
LIGHTWEIGHT LASER DESIGNATOR/RANGEFINDER (LLDR) (K31100)

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### MFR 1

**NAME/LOCATION**: Northrop Grumman Laser Systems, Apopka, FL

**PRODUCTION RATES**
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- 1-8.5: 10.00
- MAX: 25.00
- D+: 20.00

**REACHED**
- 1

**MFR NUMBER**
- INITIAL: 1
- REORDER: 1

**ADMIN LEAD TIME**
- PRIOR 1 OCT: 6
- AFTER 1 OCT: 12

**TOTAL**
- PRIOR 1 OCT: 6
- AFTER 1 OCT: 12

**REMARKS**
- INITIAL
- REORDER
**FY 06 / 07 BUDGET PRODUCTION SCHEDULE**

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**P-1 Item Nomenclature:**
LIGHTWEIGHT LASER DESIGNATOR/RANGEFINDER (LLDR) (K31100)

**Date:**
February 2005

**Exhibit P-21**
Production Schedule
### FY 08 / 09 BUDGET PRODUCTION SCHEDULE

**P-1 Item Nomenclature:**
LIGHTWEIGHT LASER DESIGNATOR/RANGEFINDER (LLDR) (K31100)

**Date:** February 2005

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**Calendar Year 08**

**Fiscal Year 09**

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Exhibit P-21
Production Schedule
### Description:
The M32 Lightweight Handheld Mortar Ballistic computer (LHMCB) calculates ballistic trajectories which give the mortar user data to elevate the gun, set the charge, and direct fire for all rounds. The LHMCB provides mortar firing computations for all calibers of mortars as well as digital messaging capability. The LHMCB consists of the Army Common Hardware Ruggedized Personal Digital Assistant (R-PDA) with embedded GPS capability, and M95 Mortar Fire Control System software modified for use with the R-PDA. The LHMCB will interface with the Advanced Field Artillery Tactical Data System (AFATDS) to improve required response time. Development of the LHMCB was conducted jointly with the U.S. Marine Corps. The LHMCB will replace the old M23 Mortar Ballistic Computer, which is no longer logistically supportable, in Army dismounted mortar units. The total system weighs less than four pounds, compared to the M23 which weighs over 8 pounds.

### Justification:
FY2006 funds procurement of the M32 LHMCB systems.

### Exhibit P-40, Budget Item Justification Sheet

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**Description:**

The Mortar Fire Control System (MFCS) accurately determines weapon position and orientation, navigates, calculates ballistics, and communicates digitally on the fire support net. The MFCS consists of the M95 version for the M1064A3 Mortar Carrier with M121 Battalion Mortar System, and the M1129A1 Stryker 120mm Mortar Carrier; and the M96 used on Mortar Fire Direction Center (FDC) vehicles. The M95 consists of four main components: 1) The Commander's interface (CI) links the MFCS components together, communicates, and performs the ballistic computations necessary to locate and aim the mortar. The CI can function as a mortar ballistic computer in a stand alone configuration. 2) The Pointing Device and Position System (PDPS) enables the mortar to "know" its own location and thus eliminates the need for aiming posts, aiming circles, and survey. 3) The Gunner's Display (GD) shows the gunner where to point the tube and calculates the ballistic solution. 4) The Driver's Display (DD) enable the driver to rough aim (50 mils) the vehicle in the firing direction when a call for fire alert is received. The M96 MFCS, used in the FDC, consists primarily of the CI, because the FDC has no gun system.

**Justification:**

The FY 2006/2007 funding procures a total of 219 M95 - MFCS (Heavy) and M96 - Fire Direction Centers for MFCS.
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## Exhibit P-5a, Budget Procurement History and Planning

**Appropriation/Budget Activity/Serial No:**
- Other Procurement, Army / 2 / Communications and Electronics Equipment

**Weapon System Type:**
- MORTAR FIRE CONTROL SYSTEM

**P-1 Line Item Nomenclature:**
- MORTAR FIRE CONTROL SYSTEM (K99300)

### WBS Cost Elements:
- **Contractor and Location**
- **Contract Method and Type**
- **Location of PCO**
- **Award Date**
- **Date of First Delivery**
- **QTY**
- **Unit Cost $000**
- **Specs Avail Now?**
- **Date Revise Avail**
- **RFP Issue Date**

#### MFCS - M121 120mm Mortar (M95)

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<th>FY</th>
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#### MFCS - M577 Fire Direction Center (M96)

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### REMARKS:

- MFCS - M121 120mm Mortar (M95)
- MFCS - M577 Fire Direction Center (M96)

---

**K99300**

**MORTAR FIRE CONTROL SYSTEM**

**Item No. 92**

**Page 3 of 6**

**Exhibit P-5a**

**Procurement History and Planning**
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**COST ELEMENTS**

**MFCs - M121 120mm Mortar (M95)**

1. FY 04: A 146 0 146
2. FY 05: A 36 0 36
3. FY 06: A 53 0 53
4. FY 07: A 148 0 148

**MFCs - M577 Fire Direction Center (M96)**

1. FY 04: A 12 0 12
2. FY 05: A 3 0 3
3. FY 06: A 2 0 2
4. FY 07: A 16 0 16

**TOTAL:**

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|          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
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## FY 06 / 07 BUDGET PRODUCTION SCHEDULE

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### FY 08 / 09 BUDGET PRODUCTION SCHEDULE

**MORTAR FIRE CONTROL SYSTEM (K99300)**  
*Date: February 2005*

#### COST ELEMENTS

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**MFCS - M121 120mm Mortar (M95)**

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**MFCS - M577 Fire Direction Center (M96)**

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**Total**

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#### PRODUCTION RATES

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**TOTAL**

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**K99300**

MORTAR FIRE CONTROL SYSTEM  
*Item No. 92  Page 6 of 6*

**Exhibit P-21**

Production Schedule
INTEGRATED MET SYS SENSORS (IMETS) - TIARA (BW0021)

Description:
Integrated Meterological Systems Sensor (IMETS) is a tactical automated weather data system that receives, processes and disseminates timely weather and environmental effects, forecasts, observations, and automated Tactical Decision Aids (TDAs) in support of the Army Warfighting commanders. This system consists of Army Tactical Command and Control System (ATCCS) common hardware/software (CHS), and communications that will be operated by Air Force weather personnel. IMETS is deployed at Echelons Above Corps (EAC), Corps, Division (DIV), Separate Brigade, Armored Cavalry Regiment (ACR) and Special Operations Forces (SOF). The IMETS requirements have been upgraded to align with the Joint Technical Architecture (JTA), Common Operating Environment (COE), and the Army Battle Command System (ABCS). Three different configurations are tailored to the needs of the echelon supported; Vehicle Mounted Configuration (VMC), Command Post Configuration (CPC), and Light Configuration (LC) based on a laptop. Each IMETS configuration supports a core set of requirements and is capable of performing the following functions: (1) receive weather data from all available sources: weather satellites; local and remote weather sensors at higher, lower and adjacent echelon IMETS; artillery meteorology sections (ARTYMET); theater forecast units (TFUs) and the Air Force Weather Agency (AFWA); (2) process and display weather information, display weather satellite data and imagery, and generate Tactical Decision Aids; (3) disseminate weather data, forecasts, and Tactical Decision Aids via area communications system, to all users and to other IMETS at higher, lower and adjacent echelons; (4) operate independently using satellites, or communications networks as appropriate; and (5) relocate with the unit to which it is assigned. IMETS hardware is NDI/COTS and is purchased from either program manager's office of common hardware/software or other Army activities. Integration is handled by contractor, Northrup Grumman Information Technology (NGIT).

Justification:
FY06/07 procures training software upgrades to the force.
**Exhibit P-5, Weapon OPA2 Cost Analysis**

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## Exhibit P-5a, Budget Procurement History and Planning

**Appropriation/Budget Activity/Serial No:**
Other Procurement, Army / 2 / Communications and Electronics Equipment

**Weapon System Type:**
INTEGRATED MET SYS SENSORS (IMETS) - TIARA (BW0021)

### WBS Cost Elements:

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<th>Contract Method and Type</th>
<th>Location of PCO</th>
<th>Award Date</th>
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<th>Date Revn Avail</th>
<th>RFP Issue Date</th>
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### REMARKS:
All equipment is NDI/COTS.

---

**Date:**
February 2005

**P-1 Line Item Nomenclature:**
INTEGRATED MET SYS SENSORS (IMETS) - TIARA (BW0021)
**Description:**
The Office of the Assistant to the Secretary of Defense, Nuclear Chemical and Biological Defense Program (ATSD (NCB) is responsible for the nuclear arms control programs including verification and monitoring. OSD transferred the funding for this program to the Army for management beginning in FY2004. Management of the program by the Army began in FY 2003. The Army budget request for FY 2006 in the nuclear test monitoring and verification program is designed to procure monitoring equipment.

**Justification:**
FY06 funding procures enhanced monitoring equipment for the Infrasound, Radionuclide, Hydroacoustic and Seismic stations located worldwide.
### Description:
The Tactical Operations Center (TOC) program provides commanders and their staffs with digitized platforms and command information centers, where courses of action become plans, plans become orders and battle tracking occurs. Based on the approved Operational Requirements Document (ORD), a new start TOC program consisting of Command Post Platforms (CPPs) with standardized shelters, installation kits, large screen displays, environmentally-controlled tents and trailer-mounted support systems, will be developed and fielded to future units. The CPPs will integrate Army Battle Command Systems (ABCS), communications equipment, intercoms, and local area networks into a standard Army platform. CPPs are digitized, tactically mobile, and fully integrated using military off-the-shelf, commercial off-the-shelf, non-developmental items, and emerging technologies. Network centric TOCs support joint interoperability, ensuring that information superiority and force synchronization are gained on the tactical and operational battlefield. Fielded TOCs include Current Force TOCs for 4ID and 1CD and Styker Brigade Combat Teams (SBCT 1-3). Currently, the TOC program is providing OEF/OIF support to four units including the Coalition Forces Land Component Command (CFLCC), Coalition Joint Task Force 7, 1CD, and SBCT-2. TOCs/CPPs provide the command post migration path to Future Combat Systems (FCS).

### Justification:
FY06 funding integrates, assembles, and tests CPPs for SBCTs 5 and 6; procures limited GFE for and begins limited procurement of CPP full rate production (which will begin in FY07); provides field support to Current Force and SBCT TOCs.
FY07 funding procures GFE and integrates, assembles, and tests CPPs; provides field support to Current Force and SBCT TOCs and CPPs.

### Program Elements for Code B Items:

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**Program Elements for Code B Items:**
- TACTICAL OPERATIONS CENTERS (BZ9865)
- Program Elements for Code B Items
- Code: Other Related Program Elements
- Prior Years
- FY 2003
- FY 2004
- FY 2005
- FY 2006
- FY 2007
- FY 2008
- FY 2009
- FY 2010
- FY 2011
- To Complete
- Total Prog

**Description:**
The Tactical Operations Center (TOC) program provides commanders and their staffs with digitized platforms and command information centers, where courses of action become plans, plans become orders and battle tracking occurs. Based on the approved Operational Requirements Document (ORD), a new start TOC program consisting of Command Post Platforms (CPPs) with standardized shelters, installation kits, large screen displays, environmentally-controlled tents and trailer-mounted support systems, will be developed and fielded to future units. The CPPs will integrate Army Battle Command Systems (ABCS), communications equipment, intercoms, and local area networks into a standard Army platform. CPPs are digitized, tactically mobile, and fully integrated using military off-the-shelf, commercial off-the-shelf, non-developmental items, and emerging technologies. Network centric TOCs support joint interoperability, ensuring that information superiority and force synchronization are gained on the tactical and operational battlefield. Fielded TOCs include Current Force TOCs for 4ID and 1CD and Styker Brigade Combat Teams (SBCT 1-3). Currently, the TOC program is providing OEF/OIF support to four units including the Coalition Forces Land Component Command (CFLCC), Coalition Joint Task Force 7, 1CD, and SBCT-2. TOCs/CPPs provide the command post migration path to Future Combat Systems (FCS).

**Justification:**
FY06 funding integrates, assembles, and tests CPPs for SBCTs 5 and 6; procures limited GFE for and begins limited procurement of CPP full rate production (which will begin in FY07); provides field support to Current Force and SBCT TOCs.
FY07 funding procures GFE and integrates, assembles, and tests CPPs; provides field support to Current Force and SBCT TOCs and CPPs.
## OPA2 Cost Analysis

<table>
<thead>
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<th>OPA2 Cost Elements</th>
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<th>FY 05</th>
<th>FY 06</th>
<th>FY 07</th>
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<td>ID CD</td>
<td>TotalCost</td>
<td>Qty</td>
<td>UnitCost</td>
<td>TotalCost</td>
</tr>
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<td>1. System Integration/Hardware (GFE/ICS)</td>
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<td>20997</td>
<td>26221</td>
<td>20702</td>
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<td>2. Project Management Administration</td>
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<td>6279</td>
<td>7841</td>
<td>6191</td>
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<td>3. Fielding (TPF,NET,FDT)</td>
<td>7045</td>
<td>10504</td>
<td>9419</td>
<td>9513</td>
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Other Procurement, Army / 2 / Communications and Electronics Equipment

Weapon System Type: TACTICAL OPERATIONS CENTERS (BZ9865)

Date: February 2005

BZ9865 TACTICAL OPERATIONS CENTERS

Item No. 95 Page 2 of 3

Exhibit P-5

Weapon System Cost Analysis
**Exhibit P-5a, Budget Procurement History and Planning**

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### WBS Cost Elements:

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<th>Date of First Delivery</th>
<th>QTY</th>
<th>Unit Cost</th>
<th>Specs</th>
<th>Status</th>
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**REMARKS:** The SICPs Program transferred to the TOCs program beginning in FY04.
Description:
Fire support is the effects of lethal and non-lethal weapons (fires) that directly support land, maritime, amphibious, and special operation forces to engage enemy forces, combat formations, and facilities in pursuit of tactical and operational objectives. Fire support coordination is the planning and execution of fires so that a suitable weapon or group of weapons adequately covers targets. The Advanced Field Artillery Tactical Data System (AFATDS) is the tool that performs automated fire support coordination for the Army, Navy, Air Force, and Marine Corps.

AFATDS performs the attack analysis necessary to determine the optimal weapon target pairing to provide maximum use of the fire support assets. AFATDS will automatically implement detailed commander's guidance in the automation of operational planning, movement control, targeting, target value analysis and fire support planning. This project is a replacement system for the Initial Fire Support Automated System, Battery Computer System and Fire Direction System. AFATDS will interoperate with the other Army Battle Command Systems, current and future Army, Navy and Air Force Command and Control weapon systems, and the German, French, British, and Italian fire support systems. AFATDS automates the planning, coordinating and controlling of all fire support assets in the Joint battlespace (field artillery, mortars, close air support, naval gunfire, attack helicopters, and offensive electronic warfare) from Echelons Above Corps to Battery or Platoon in support of all levels of conflict. The system is composed of Common Hardware/Software employed in varying configurations at different operational facilities (or nodes) and unique system software interconnected by tactical communications in the form of a software-driven, automated network.

This system uses non-developmental, ruggedized Common Hardware/Software, including the Unix Laptop Unit, Compact Computer Unit (CCU), Notebook Computer Unit (NCU) as well as vehicle installation kits (IKs). The current system support comes from the successful fielding of AFATDS Version A96 through 6.3.2, and Version 6.4.0.

Justification:
FY06/07 procures Stryker Brigade Combat Team (SBCT) 6, three Heavy Divisions and one Light Division.
## Exhibit P-5, Weapon System Cost Analysis

**OPA2 Cost Analysis**

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<tr>
<th>ID</th>
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<td>Each</td>
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### Fielding
- Total Package Fielding: 783
- New Equipment Training: 4743
- SBCT 2

**NOTE:**
The hardware cost is composed of a mix of CCU, NCU, IKs and peripherals. Therefore, a unit cost cannot be identified.

<p>| Total | 23349 | 26383 | 29537 | 21346 |</p>
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<tr>
<th>WBS Cost Elements:</th>
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**REMARKS:** The above hardware is COTS and will be procured off the existing Common Hardware Systems (CHS II/III) contract.
**Exhibit P-40, Budget Item Justification Sheet**

**Appropriation/Budget Activity/Serial No:**
Other Procurement, Army /2/Communications and Electronics Equipment

**P-1 Item Nomenclature**
MOD OF IN-SVC EQUIP, AFATDS (B28620)

<table>
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<th>Program Elements for Code B Items:</th>
<th>Code: MOD OF IN-SVC EQUIP, AFATDS (B28620)</th>
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**Description:**
Fire support is the effects of lethal and non-lethal weapons (fires) that directly support land, maritime, amphibious, and special operation forces to engage enemy forces, combat formations, and facilities in pursuit of tactical and operational objectives. Fire support coordination is the planning and execution of fires so that a suitable weapon or group of weapons adequately covers targets. The Advanced Field Artillery Tactical Data System (AFATDS) is the tool that performs automated fire support coordination for the Army, Navy, Air Force, and Marine Corps.

The Mod Of In Service funding is a supporting line to the Advanced Field Artillery Tactical Data System (AFATDS) program. AFATDS pairs targets to weapons to provide maximum use of fire support assets. AFATDS automates the planning, coordination and controlling of all fire support assets (field artillery, mortars, close air support, naval gunfire, attack helicopters, and offensive electronic warfare).

AFATDS uses Common Hardware and Software (CHS) computers and peripheral hardware. Department of the Army Hardware Re-Procurement policy is to replace system every five years, otherwise their system operational life will become obsolete, or effectiveness is significantly diminished in comparison to the capability growth of the “current” market. A "rebuy" or upgrade is required to maintain operational effectiveness of the aging hardware. Therefore, this funding has been programmed to allow for upgrade or replacement of the oldest AFATDS computer workstations or components as required to maintain unit capability in the field. The current system support comes from the successful fielding of AFATDS Version A96 through 6.3.2 and Version 6.4.0.

**Justification:**
FY06/07 procures upgrades to the processor equipment to support the current technical requirements for the AFATDS program.
### Exhibit P-40M, Budget Item Justification Sheet

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Date: February 2005

Appropriation/Budget Activity/Serial No: Other Procurement, Army/Communications and Electronics Equipment

P-1 Item Nomenclature: MOD OF IN-SVC EQUIP, AFATDS (B28620)

Program Elements for Code B Items: MOD OF IN-SVC EQUIP, AFATDS
**INDIVIDUAL MODIFICATION**

**MODIFICATION TITLE:** MOD OF IN-SVC EQUIP, AFATDS [MOD 1] 0-00-00-0000

**MODELS OF SYSTEM AFFECTED:** AFATDS CCU

**DESCRIPTION/JUSTIFICATION:**

The Mod Of In Service funding is a supporting line to the Advanced Field Artillery Tactical Data System (AFATDS) program. AFATDS provides Army, Navy, and Marine Corps automated fire support command, control and communications. AFATDS pairs targets to weapons to provide maximum use of fire support assets. AFATDS automates the planning, coordination and controlling of all fire support assets (field artillery, mortars, close air support, naval gunfire, attack helicopters, and offensive electronic warfare).

AFATDS utilizes Common Hardware and Software (CHS) computers and peripheral hardware. Department of the Army Hardware Re-Procurement policy is to replace system every five years, otherwise system operational life will become obsolete, or effectiveness is significantly diminished in comparison to the capability growth of the "current" market. Therefore, this funding has been programmed to allow for upgrade or replacement of the oldest AFATDS computer workstations or components as required to maintain unit capability in the field.

**DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:**

The AFATDS Mod Of In Service Equipment program utilizes various nondevelopmental, commercial off the shelf (COTS) components and peripherals. These vary according to individual system requirements and therefore are not procured or installed as standard kits. These items are procured through the Army's Common Hardware and Software (CHS) contract.

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**ADMINISTRATIVE LEADTIME:** 0 Months

**PRODUCTION LEADTIME:** 0 Months

---

B28620

MOD OF IN-SVC EQUIP, AFATDS

Item No. 97  Page 3 of 4

Exhibit P-3a

Individual Modification
### MODIFICATION TITLE (Cont): MOD OF IN-SVC EQUIP, AFATDS [MOD 1] 0-00-00-0000

**Date:** February 2005

**FINANCIAL PLAN:** ($ in Millions)

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**Exhibit P-40, Budget Item Justification Sheet**

**Appropriation/Budget Activity/Serial No:**
Other Procurement, Army /2/Communications and Electronics Equipment

**P-1 Item Nomenclature**
Light Weight Techical Fire Direction Sys (LWTFDS) (B78400)

---

**Program Elements for Code B Items:**

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**WPN: B78400**

**Program Elements for Code B Items:**

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**Description:**
Fire support is the effects of lethal and nonlethal weapons (fires) that directly support land, maritime, amphibious, and special operation forces to engage enemy forces, combat formations, and facilities in pursuit of tactical and operational objectives. Fire support coordination is the planning and execution of fires so that a suitable weapon or group of weapons adequately covers targets. The Lightweight Technical Fire Direction System (LWTFDS) program provides handheld devices that automate the execution of fires.

The Lightweight Technical Fire Direction System (LWTFDS) program consists of two subset efforts all dealing with the replacement and upgraded technology for various fire support systems.

First, the Back-Up Computer Replacement (BUCS-R) replaces the Back-Up Computer System (BUCS), which was fielded in the 1980s to cannon units to provide a backup, stand-alone technical fire direction capability in case the primary capability Battery Computer System (BCS) failed. The BUCS-R provides early entry forces with an automated means to compute cannon ballistic firing solutions and serves as a backup device to the BCS/Advanced Field Artillery Tactical Data System (AFATDS). In January 2004, the LWTFDS system name changed to the Centaur system and the funding line name stayed as LWTFDS. The Centaur will consist of porting the NATO Armament Ballistic Kernel (NABK) computational software algorithm onto a Personal Digital Assistant (PDA). The Centaur provides critically needed technical fire control for the cannon Fire Direction Centers. It provides immediate and early entry automated fire support capabilities for the Army/Marine Corps light divisions.

Second, the antiquated Gun Display Unit (GDU) will be replaced. The GDU was fielded in the 1980s and is not maintainable. The Gun Display Unit Replacement (GDU-R) will consist of a PDA device that will provide the cannon section crew with the automated lightweight wireless transfer and data display of elevation, deflection, fuze and powder mixes to allow accurate cannon firing.

**Justification:**
FY06/07 procures hardware, engineering, fielding and program management support. The FY06 hardware purchase is comprised of a total of 200 Personal Digital Assistants (PDAs) that will be fielded to active/reserve Army units.
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Note: Unit costs are not displayed because the hardware unit cost reflects the varying mix of Lightweight Computer Unit (LCU) upgrades, PDAs, and other peripheral devices.
### Exhibit P-5a, Budget Procurement History and Planning

**Appropriation/Budget Activity/Serial No:** Other Procurement, Army / 2 / Communications and Electronics Equipment

**Weapon System Type:** Light Weight Technical Fire Direction Sys (LWTFS) (B78400)

**P-1 Line Item Nomenclature:**

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**REMARKS:** The above hardware is COTS and will be procured off the existing Common Hardware Systems (CHS III) contract.
Description:
The Battle Command Sustainment Support System (BCS3) is the logistical command and control (C2) system that reflects the Armys emphasis on Future Force warfighting capabilities giving commanders, for the first time, actionable logistics information in the form of an automated view of the battlefield coupled with the logistics positioning of supplies. BCS3 has immediate, high payoff, benefit to warfighters and additional future growth in its capabilities. BCS3 represents a major step forward in acquisition innovation coupling spiral development and the end-user in its design.
It is the Armys maneuver sustainment C2 system - the fusion center -- at all echelons brigade and above, fusing, for the first time, sustainment, in-transit, and force data to aid field commanders in making critical decisions. BCS3 is part of the bridge to the Future Combat System and applies lessons learned from previous programs. BCS3 provides assured soldier support and is modular, tailorable, and scaleable to meet the full spectrum of operations (to include garrison, training, contingency and combat) and interoperates with Army Battle Command Systems (ABCS). BCS3 is a force multiplier - a precision tool for logistics planning and execution that provides the soldiers and commanders with the necessary tools to succeed.

BCS3 development is based upon a best of breed concept that leverages recent demonstrated successes of the Logistics Common Operational Picture (LCOP) process in Operation Iraqi Freedom (OIF) as well as the core capabilities of its predecessor integrated into a single lightweight platform. BCS3 provides the latest available map based graphical representation of the current situation within the Area of Operation (AO) to include all friendly and enemy, locations, and unit status, and displays this operating picture with enhanced briefings and data management capabilities. BCS3 supports Joint requirements by providing the Armys portion of the Joint Logistics Common Relevant Operational Picture (LOG CROP).

Justification:
FY06/07 procures and fields servers and user work stations for BCS3. Fielding locations include Ft. Hood, Ft. Bragg and USAREUR and rotation of OIF units. Equipment required in FY06 and FY07 supports the Chief of Staff Armys (CSAs) priority for fielding good enough capability in this timeframe to include 1st CAV, 82nd ABD, 25th ID, 5 CORP, 3 COSCOM and USASOC.
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### Exhibit P-5a, Budget Procurement History and Planning

**Appropriation/Budget Activity/Serial No:**
Other Procurement, Army / 2 / Communications and Electronics Equipment

**Weapon System Type:**
Battle Command Sustainment Support System (BCS3)

**P-1 Line Item Nomenclature:**
Battle Command Sustainment Support System (BCS3) (W34600)

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**REMARKS:**

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W34600
Battle Command Sustainment Support System (BCS3)
### Exhibit P-40, Budget Item Justification Sheet

**Date:** February 2005

**Appropriation/Budget Activity/Serial No:**
Other Procurement, Army /2/Communications and Electronics Equipment

**P-1 Item Nomenclature**
FAAD C2 (AD5050)

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**Description:**
The Forward Area Air defense Command, Control, and Intelligence (FAAD C2) System collects, digitally processes, and disseminates real-time target cueing and tracking information; the common tactical air picture; and command, control, and intelligence information to all Maneuver Air and Missile Defense (MAMD) weapon systems (Avenger and Man-Portable Air Defense System (MANPADS), and joint and combined arms systems. The FAAD C2 system provides alerting data to air defense gunners, air space battle management, and up linking of mission operations, thereby enhancing force protection against air and missile attack. Situational awareness and targeting data is provided on threat aircraft, cruise missiles, and unmanned aerial aircraft (UAVs). The FAAD C2 system provides this mission capability by integrating dynamic FAAD C2 engagement operations software with the Multifunctional Information Distribution System (MIDS), the Joint Tactical Terminal (JTT), Single Channel Ground and Airborne Radio System (SINCGARS), Enhanced Position Location System (EPLRS), Global Positioning System (GPS), the Airborne Warning and Control Systems (AWACS), the Sentinel radar, and the Army Battle Command System (ABCS) architecture. In addition, FAAD C2 provides interoperability with Joint command and control systems and horizontal integration with PATRIOT, Theater High-Altitude Area Defense (THAAD), Medium Extended Air Defense System (MEADS), and the Joint Land Attack Cruise Missile Defense Elevated Netted Sensor (JLENS) by fusing sensor data from to create a scalable and filterable single integrated air picture (SIAP) and common tactical picture at the UEx and UAs. The system software, which operates on the Army’s Common Hardware System (CHS), is a key component of the Air Defense and Airspace Management (ADAM) Cell that is being fielded to Stryker Brigade Combat Teams (SBCTs), and to Brigade Combat Teams (BCTs), UAs and UExs as part of the Army’s modularity concept. The FAAD C2 software has been fielded to four ADAM Cells in the 3rd Infantry Division, four ADAM Cells in the 101st Air Assault Division, one ADAM Cell in the 4th Infantry Division and to the first three Stryker Brigade Combat Teams (SBCTs). System software is able to provide target data and engagement commands/status to the MAMD Battalions, and to the Surface Launched Advanced Medium Range Air-to-Air Missile (SLAMRAAM) air defense system. The netted and distributed system architecture fielded with FAAD has been briefed as the basis for a potential BM/C4I Future Combat System (FCS). FAAD C2 is also a principal air defense system within the Homeland Security Program. Soldiers from activated ARNG MAMD battalions operate the FAAD C2 systems in the National Capital Region and other locations.

In support of the Global War on Terrorism, FAAD C2 systems are in MAMD units and ADAM Cells deployed to Iraq and Afghanistan. These FAAD systems are critical in providing the local air picture to supported units and higher headquarters.
FAAD C2 systems will also provide target tracks and weapon controls for the initial Counter-Rocket, Artillery and Mortar (C-RAM) capability being deployed to Iraq in FY05.

ADAM Cells were also fielded to the 101st Air Assault Division (4 ADAM Cells) and to the 4th Infantry Division (1 ADAM Cell) in the 1st QTR, FY05.

**Justification:**

FY06/07 procures the hardware, integration, training and initial support for the ADAM Cells assigned to SBCTs #5 and #6. Funding also procures, integrates and fields FAAD C2 systems to the 2-174 Ohio Army National Guard (ARNG) and the 1-265 Florida ARNG MAMD Battalions. The FAAD C2 Battalion system include ten C2 shelters located at the Battalion Headquarters, the three Battery Headquarters, and the six Sensor Command and Control nodes. Equipment also includes 76 Forward Area Control Terminals (FACTs) located at each fire unit, plus the platoon and section headquarters. Planned procurements also include MIDS replacement radios for approximately 50% of the MAMD shelter systems previously fielded to the Active Component Battalions. Funding procures software maintenance and Field Software Engineer (FSE) support of newly deployed systems.

FY06/07 procures representative hardware to establish a FAAD C2/Counter-Rocket, Artillery, and Mortar (C-RAM) Center of Excellence (COE). This COE will be used to complete the preparation of a FAAD C2/C-RAM Concept of Operations (CONOPS) and the employment of Tactics, Techniques, and Procedures (TTP). System components include the Sentinel radar, a dismounted FAAD C2 node, and a Lightweight Counter Mortar Radar (LCMR).
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**AD5050**

FAAD C2
## Exhibit P-5a, Budget Procurement History and Planning

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**REMARKS:** The above hardware is COTS.

Quantities are based on organizational units that vary in size based on specific mission and equipment requirements. Quantities reported reflect a composite number of specific requirements (Heavy Div, Light/Special Div, MAMD Battalion, Training Base and ADAM Cells.)
### Description:

The Air and Missile Defense Planning and Control System (AMDPCS) is the backbone of the Army Air Defense through the Battle Management/Command, Control, Communications, Computers, and Intelligence (BM/C4I) because of the capability it provides to Air Defense Artillery (ADA) brigades, the Army Air and Missile Defense Commands (AAMDCs), joint force command and control elements, and the Air Defense and Airspace Management (ADAM) Cells that are assigned to the UExs and UAs. The development of ADAM Cells is essential in fulfilling the Army’s Modularity requirement, and provides air defense interoperability with Joint, multinational and coalition forces. AMDPCS components are also vital to the transformation of ADA units and the activation of the AMD Composite Battalions. AMDPCS provides these organizations with shelters, automated data processing equipment, tactical communications, standard vehicles and tactical power, and the two major software systems used in air defense force operations/engagement operations: the Air and Missile Defense Workstation (AMDWS) and the Air Defense System Integrator (ADSI). The AMDWS is a missile defense staff planning and battlefield situational awareness tool that provides commanders at all echelons with a common tactical and operational air picture. The AMDWS is being fielded to all AMDPCS units, including the ADA Brigades, the AAMDCs and the ADAM Cells, as well as to the Maneuver Air and Missile Defense Battalions and Batteries. AMDWS provides the Army Battle Command System (ABCS) with the air component of the common Tactical Picture at the UA, UEx and UEy, and is the Net-centric interface for all components of the Air and Missile Defense (AMD) force into ABCS. AMDPCS also provides the ADA Brigades, AAMDCs and ADAM Cells with a fire control system via the ADSI, which monitors and controls air battle engagement operations by subordinate or attached air defense units. In support of Joint BM/C4I operations, the AMDPCS is the Army component of interoperable Joint Theater Air and Missile Defense (JTAMD) BM/C4I. The AMDPCS enables coordination of Active, Passive and air defense Attack Operations, as well as providing a correlated single integrated air picture (SIAP) to Army AMD and Joint Forces. A significant accomplishment in the 4th QTR, FY04, was the fielding of four ADAM Cells to UAs in the 3rd Infantry Division as the initial element in the Army’s modularity initiative.

In support of the Global War on Terrorism (GWOT), AMDWS and ADSIs are vital components of the ADA units, the AAMDC and ADAM Cells that are deployed in Iraq and Afghanistan. In addition, these components have also been integrated into non-ADA higher headquarters such as the Coalition Forces Land Component Command (CFLCC). AMDWS is a critical component in the integration and fielding of a Counter-Rocket, Artillery and Mortar (C-RAM) capability to Operating Bases in Iraq and elsewhere.

| Description: | The Air and Missile Defense Planning and Control System (AMDPCS) is the backbone of the Army Air Defense through the Battle Management/Command, Control, Communications, Computers, and Intelligence (BM/C4I) because of the capability it provides to Air Defense Artillery (ADA) brigades, the Army Air and Missile Defense Commands (AAMDCs), joint force command and control elements, and the Air Defense and Airspace Management (ADAM) Cells that are assigned to the UExs and UAs. The development of ADAM Cells is essential in fulfilling the Army’s Modularity requirement, and provides air defense interoperability with Joint, multinational and coalition forces. AMDPCS components are also vital to the transformation of ADA units and the activation of the AMD Composite Battalions. AMDPCS provides these organizations with shelters, automated data processing equipment, tactical communications, standard vehicles and tactical power, and the two major software systems used in air defense force operations/engagement operations: the Air and Missile Defense Workstation (AMDWS) and the Air Defense System Integrator (ADSI). The AMDWS is a missile defense staff planning and battlefield situational awareness tool that provides commanders at all echelons with a common tactical and operational air picture. The AMDWS is being fielded to all AMDPCS units, including the ADA Brigades, the AAMDCs and the ADAM Cells, as well as to the Maneuver Air and Missile Defense Battalions and Batteries. AMDWS provides the Army Battle Command System (ABCS) with the air component of the common Tactical Picture at the UA, UEx and UEy, and is the Net-centric interface for all components of the Air and Missile Defense (AMD) force into ABCS. AMDPCS also provides the ADA Brigades, AAMDCs and ADAM Cells with a fire control system via the ADSI, which monitors and controls air battle engagement operations by subordinate or attached air defense units. In support of Joint BM/C4I operations, the AMDPCS is the Army component of interoperable Joint Theater Air and Missile Defense (JTAMD) BM/C4I. The AMDPCS enables coordination of Active, Passive and air defense Attack Operations, as well as providing a correlated single integrated air picture (SIAP) to Army AMD and Joint Forces. A significant accomplishment in the 4th QTR, FY04, was the fielding of four ADAM Cells to UAs in the 3rd Infantry Division as the initial element in the Army’s modularity initiative. In support of the Global War on Terrorism (GWOT), AMDWS and ADSIs are vital components of the ADA units, the AAMDC and ADAM Cells that are deployed in Iraq and Afghanistan. In addition, these components have also been integrated into non-ADA higher headquarters such as the Coalition Forces Land Component Command (CFLCC). AMDWS is a critical component in the integration and fielding of a Counter-Rocket, Artillery and Mortar (C-RAM) capability to Operating Bases in Iraq and elsewhere. |
These AMDPCS systems provide the common tactical air picture, a major component of the Common Operating Picture (COP), and are critical to the development and planning of offensive and defensive operations.

Beginning in FY06 Adam Cells will be procured in this line

**Justification:**
FY06/07 procures the integration and fielding of a full operational capability for the newly activated 94th AAMDC. The funding also procures upgraded hardware for the 32nd AAMDC and the upgrades for the AMDPCS shelter system at the Air Defense Center and School. System hardware includes shelters, vehicles, communications equipment, power generation equipment, Common Hardware Systems for operation of the AMDWS, ADSI and other Army Battle Command Systems (ABCS) software programs, plus hardware integration, training and initial support. Funding provides for limited software maintenance and support to include Field Service Representative (FSR) support of newly fielded and deployed systems.
## Exhibit P-5, Weapon
### OPA2 Cost Analysis

**Weapon System Type:**  
**P-1 Line Item Nomenclature:** AIR & MSL DEFENSE PLANNING & CONTROL SYS (AMD PCS) (AD5070)  
**Appropriation/Budget Activity/Serial No.:** Other Procurement, Army / 2 / Communications and Electronics Equipment  
**Date:** February 2005

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### Exhibit P-5a, Budget Procurement History and Planning

**Appropriation/Budget Activity/Serial No:**
Other Procurement, Army / 2 / Communications and Electronics Equipment

**Weapon System Type:**
AIR & MSL DEFENSE PLANNING & CONTROL SYS (AMD PCS) (AD5070)

**P-1 Line Item Nomenclature:**
AIR & MSL DEFENSE PLANNING & CONTROL SYS (AMD PCS) (AD5070)

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**Remarks:**
Hardware procurement is based on organizational units that vary in size based on specific mission and equipment requirements. (Corps and Echelons Above Corps, ADA Bdes, Theater Echelon AAMDCs in both active Army and ARNG), and ADAM Cells at SBCTs, BCTs, UAs, and UEExs.
# Exhibit P-40, Budget Item Justification Sheet

**Appropriation/Budget Activity/Serial No:**
Other Procurement, Army /2/Communications and Electronics Equipment

**P-1 Item Nomenclature**
FORWARD ENTRY DEVICE / LIGHTWEIGHT FED (FED/LFED) (BZ9851)

**Program Elements for Code B Items:**

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**Description:**
Fire support is the effects of lethal and nonlethal weapons (fires) that directly support land, maritime, amphibious, and special operation forces to engage enemy forces, combat formations, and facilities in pursuit of tactical and operational objectives. Fire support coordination is the planning and execution of fires so that a suitable weapon or group of weapons adequately covers targets. The Forward Entry Device program provides handheld devices to automate the planning and execution of fires.

Forward entry devices are handheld devices used by forward observers and fire support teams to transmit and receive fire support messages over standard military radios. The FED program provides a digitized connection between the forward observers and the Advanced Field Artillery Tactical Data System (AFATDS), and provides a vital sensor-to-shooter link. All hardware is procured from the Common Hardware contract. The Lightweight FED replaces the much heavier FED, which was fielded during the period FY92 - FY95. As technology progressed, the FED became obsolete and was unable to run current Fire Support software packages.

The Lightweight FED hosts the forward observer system software, which enables forward observers and fire support officers to plan, control and execute fire support operations at maneuver platoon, company, battalion and brigade levels.

In 2001, the Pocket-Sized FED software modification effort began. The Pocket-sized FED hosts a modified version of forward observer system software. It provides the dismounted forward observer with a pocket-sized "call for fire" capability with existing and future laser ranging binoculars, Global Positioning System (GPS) devices, and tactical communications equipment. Pocket-sized FED integrates these systems improving their function as a whole and increasing their performance as a system of systems.

**Justification:**
FY06/07 procures hardware, engineering, fielding and program management support. The FY06 hardware purchase is comprised of a total 14 SCUs and 80 Personal Digital Assistants (PDAs) that will be fielded to active/reserve Army units.
## OPA2 Cost Analysis

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<th>ID</th>
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Note:
Unit costs are not displayed because the hardware unit cost reflects the varying mix of Rugged Handheld Computer (RHC), Stand-Alone Computer Unit (SCU), Rugged-Personal Digital Assistant (R-PDA), Installation Kits (IKs) and other peripheral devices.
### Exhibit P-5a, Budget Procurement History and Planning

**Appropriation/Budget Activity/Serial No:**
Other Procurement, Army / 2 / Communications and Electronics Equipment

**Weapon System Type:**

**P-1 Line Item Nomenclature:**
FORWARD ENTRY DEVICE / LIGHTWEIGHT FED (FED/LFED) (BZ9851)

### WBS Cost Elements:
- **Contractor and Location**
- **Contract Method and Type**
- **Location of PCO**
- **Award Date**
- **Date of First Delivery**
- **QTY**
- **Unit Cost $**
- **Specs Avail Now?**
- **Date Revsn Avail**
- **RFP Issue Date**

#### Hardware

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**REMARKS:**
The above hardware is COTS and is procured off the existing Common Hardware Systems (CHS III) contract.
**Description:**
The Knight program integrates the Bradley Fire Support Vehicle (BFIST) mission equipment package (MEP) into a High Mobility Multi-Purpose Wheeled Vehicle (HMMWV) chassis supporting heavy and light force fire support operations. The Knight program is a continuation of the BFIST program designed specifically for the Combat Observation Lasing Team (COLT) in heavy divisions and light divisions. The Knight was approved as a Warfighting Rapid Acquisition Program (WRAP) designed to get the Knight operational enhancement to the soldier quickly at the best cost. The current standard configuration Knight includes the Fire Support Sensor System (FS3) which was cut into production in May 2004. The Knight Mod-In-Service line provides funding for life cycle software support including evolutionary hardware changes for the Knight program.

**Justification:**
There are no funds budgeted for FY06/07.

---

| Description: | The Knight program integrates the Bradley Fire Support Vehicle (BFIST) mission equipment package (MEP) into a High Mobility Multi-Purpose Wheeled Vehicle (HMMWV) chassis supporting heavy and light force fire support operations. The Knight program is a continuation of the BFIST program designed specifically for the Combat Observation Lasing Team (COLT) in heavy divisions and light divisions. The Knight was approved as a Warfighting Rapid Acquisition Program (WRAP) designed to get the Knight operational enhancement to the soldier quickly at the best cost. The current standard configuration Knight includes the Fire Support Sensor System (FS3) which was cut into production in May 2004. The Knight Mod-In-Service line provides funding for life cycle software support including evolutionary hardware changes for the Knight program.

**Justification:**
There are no funds budgeted for FY06/07.
### Program Elements for Code B Items:

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### Description:

The Knight (formerly Striker) program integrates the Bradley Fire Support Vehicle (BFIST) mission equipment package (MEP) into a High Mobility Multi-Purpose Wheeled Vehicle (HMMWV) chassis supporting heavy and light force fire support operations. The Knight program is a continuation of the BFIST program designed specifically for the Combat Observation Lasing Team (COLT) in heavy divisions and light divisions. The Knight was approved as a Warfighting Rapid Acquisition Program (WRAP) designed to get the Knight operational enhancement to the soldier quickly at the best cost. The current standard configuration Knight includes the Fire Support Sensor System (FS3) which was cut into production in May 2004 with the exception of the FY04 ARNG Congressional plus up quantity which are of the previous baseline configuration. The Knight program provides a vehicle compatible with the maneuver scouts for Brigade reconnaissance teams in heavy and light divisions. It provides fire support planning, direction, controlling, target designation and night observation to the warfighter in a highly maneuverable platform.
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Total 20152 1344
## Exhibit P-5a, Budget Procurement History and Planning

**Appropriation/Budget Activity/Serial No:**
Other Procurement, Army / 2 / Communications and Electronics Equipment

**Weapon System Type:**

**P-1 Line Item Nomenclature:**
KNIGHT-COMMAND AND CONTROL SYSTEM (B78500)

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**Remarks:**

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**Date:**
February 2005

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**Item No. 103  Page 4 of 6**

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**B78504 (B78500)
KNIGHT-COMMAND AND CONTROL SYSTEM**
### KYC (KNIGHT-COMMAND AND CONTROL SYSTEM) Budget Production Schedule

**Date:** February 2005

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### Production Schedule

#### Vehicle Upgrade

| MFR | FY | S | PRI | ACCEP | BAL | NO | DTN | DE | FE | MA Y | JU | UG | SEP | CO | E | A | P | U | U |
|-----|----|---|-----|-------|-----|----|-----|----|----|------|----|----|-----|----|---|---|---|---|---|---|
|     |    |   |     |       |     |    |     |    |    |       |    |    |     |    |   |   |   |   |   |   |

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<th>D+</th>
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#### Remarks

- MFR: Manufacturing Reference
- NAME/LOCATION: Name and Location of the Production Facility
- PRODUCTION RATES: Min., 1-8.5, Max. Production Rates
- REACHED: Days to Reach
- MFR NUMBER: Manufacturing Facility Number
- ADMIN.LEAD TIME: Admin Lead Time Before and After
- MFR TOTAL: Manufacturing Facility Total
- REMARKS: Remarks or Notes

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**Exhibit P-21**

Production Schedule

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Item No. 103  Page 5 of 6

B78504 (B78500)

KNIGHT-COMMAND AND CONTROL SYSTEM
### Program Elements for Code B Items:

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<td>There are no FY06/07 funds budgeted.</td>
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#### Appropriation/Budget Activity/Serial No:
Other Procurement, Army / 2 / Communications and Electronics Equipment

#### P-1 Item Nomenclature:
MOD OF IN-SVC EQUIP, KNIGHT (B78503)

#### Appropriation/Budget Activity/Serial No:
Other Procurement, Army / 2 / Communications and Electronics Equipment

#### P-1 Item Nomenclature:
MOD OF IN-SVC EQUIP, KNIGHT (B78503)


| Proc Qty | 28 | 28 | 67 | 29 | Continuing | Continuing |
| Gross Cost | 0.8 | 3.0 | 0.8 | 42.9 | 39.3 | 73.6 | 36.7 | 197.1 |
| Less PY Adv Proc | 0.8 | 3.0 | 0.8 | 42.9 | 39.3 | 73.6 | 36.7 | Continuing | Continuing |
| Plus CY Adv Proc | 0.8 | 3.0 | 0.8 | 42.9 | 39.3 | 73.6 | 36.7 | Continuing | Continuing |
| Net Proc (P-1) | 0.8 | 3.0 | 0.8 | 42.9 | 39.3 | 73.6 | 36.7 | Continuing | Continuing |
| Initial Spares | 0.8 | 3.0 | 0.8 | 42.9 | 39.3 | 73.6 | 36.7 | Continuing | Continuing |
| Total Proc Cost | 0.8 | 3.0 | 0.8 | 42.9 | 39.3 | 73.6 | 36.7 | Continuing | Continuing |
| Wpn Sys Proc U/C | 1.5 | 1.4 | 1.1 | 1.3 | 1.5 | 1.4 | 1.1 | 1.3 |
**Description:**

Life Cycle Software Engineering (LCSE) support, by the Software Engineering Center (SEC), provides the essential equipment needed to maintain Communications-Electronics Command (CECOM) managed fielded Battlefield Automated Systems (BAS) in a state of operational readiness. Over 200 BASs directly depend on LCSE support to maintain a posture of mission critical readiness. LCSE support is essential for the acquisition, operation, maintenance and sustainment of multi-host computer systems, peripherals, interfaces, support equipment, test beds, components, and software used to provide the necessary services and support to maintain BASs in the state of operational readiness. Policy for Post Production Software Support (PPSS) requires that system managers provide initial host capabilities for new systems and that the Life Cycle Software Engineering Centers (LCSEC) provide upgrades and replacement of obsolete equipment. Significant portions of host and network equipment are no longer economically repairable or are reaching obsolescence. There is a requirement to respond to emergency requests from the field for Software Engineering support in order to maintain operational readiness of deployed Battlefield Automated Systems (BASs). With host computers and peripherals having a life span of approximately five years and SEC performing its mission over a continuous period of time beyond five years, equipment must be replaced and/or upgraded regularly to deal with obsolescence and take advantage of the continual improvements in technology that are indigenous to high-technology based weapon systems and their software support environments. SEC must complete these upgrades in order to meet the ever-increasing mission requirements imposed by the field.

**Justification:**

FY 2006/2007 procures the following items: 1) A 3rd Infantry Division (3rd ID) Joint Network Node/Battalion Command Post/Network Operations (JNN/BnCP/NETOPS) lab node required for SEC to build/configure a test rack node to properly support the 3rd ID network. It is essential that the required equipment be obtained for SEC to troubleshoot and resolve problems identified in the field, as well as upgrade security patches and other commercial software products. The node established within SEC must be completed and maintained to enable SEC to provide sustaining support to the Warfighter. 2) COTS (Commercial Off-The-Shelf) hardware and software used for the establishment of a testbed that can simulate at a digital level the environment where Service Based Architecture (SBA) Software is implemented. The testbed will reduce the time required to test and field new SBA software upgrades to field intelligence systems that play an important role in support of network centricity and actionable intelligence. 3) Network Operations Center – Vehicle (NOC-V) testbed equipment is required for SEC to build/configure a NOC-V "Green" node (lab node) to properly support the transitioned Stryker Brigade Combat Team (SBCT) systems. It is essential that the required equipment be obtained for SEC to troubleshoot and resolve problems identified in the field, as well as upgrade security patches and other commercial software products. NOC-V nodes are expected to undergo continued retrofits/upgrades.

---

### Program Elements for Code B Items:

| Code: LIFE CYCLE SOFTWARE SUPPORT (LCSS) (BD3955) |
|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Less PY Adv Proc|                 | 65.8           | 0.9            | 1.7            | 1.8            | 1.9            | 2.0            | 2.0            | 2.1            | 2.1            | 2.2            |
| Plus CY Adv Proc|                 |                |                |                |                |                |                |                |                |                |                |
| Net Proc (P-1)  |                 | 65.8           | 0.9            | 1.7            | 1.8            | 1.9            | 2.0            | 2.0            | 2.1            | 2.1            | 2.2            |
| Initial Spares  |                 |                |                |                |                |                |                |                |                |                |                |
| Total Proc Cost |                 | 65.8           | 0.9            | 1.7            | 1.8            | 1.9            | 2.0            | 2.0            | 2.1            | 2.1            | 2.2            |
| Wpn Sys Proc U/C|                 |                |                |                |                |                |                |                |                |                |                |

**Proc Qty**

- Initial Proc Qty: 65.8
- Total Proc Qty: 65.8
- To Complete: Continuing
- Total Prog: Continuing
The node established within SEC must be completed and maintained to enable SEC to provide sustaining support to the Warfighter. 4) In support of Joint Users Interoperability Communications Exercise (JUICE), expand the Joint Interoperability Testbed allowing Joint/Interoperability evaluations and tests to keep in line with changing Army mission functionalities. In order to keep pace with the ongoing Net-Centric transformation process within DoD, new technology upgrades are required to conform with the annual progression of Internet Protocol (IP) technology. 5) Communications Management Systems (CMS) Testbed Upgrade to enable the CMS testbed facilities to support existing fielded network management systems and emerging programs to address field user requirements, replicate/resolve problems, and enable interoperability between systems. 6) Replace the aged network appliances and back up components which store all the baseline and developmental versions of the tactical fire support systems. The older components go down frequently and increase the risk to our customers. Refreshing this equipment with newer technology, allows SEC to provide continuous support to the fire support systems and maintain a smaller footprint, due to the reduced number of devices required. 7) The Mobile Subscriber Equipment (MSE) and Common Baseline Circuit Switches must be upgraded to be capable of interoperating with the newer technology systems being fielded as part of the Force Modernization and to match field user data configurations that interface with these switches. Replace the current switch capacity and phone banks currently in the testbed where existing equipment cannot be repaired. 8) Infrastructure life-cycle refresh/replacement of the hardware and software to maintain software systems engineering support to the Intelligence Fusion Systems (IFS) mission resolving the current challenges of technological obsolescence and the normal fair, wear, and tear (FWT).
**Exhibit P-40, Budget Item Justification Sheet**

**Appropriation/Budget Activity/Serial No:**
Other Procurement, Army /2/Communications and Electronics Equipment

**P-1 Item Nomenclature**
LOGTECH (BZ8889)

**Program Elements for Code B Items:**

| Description: | This program provides state-of-the-art technologies used with automated logistics systems to facilitate and expedite supply and property receiving, distribution, storage, inventory management and accountability. This facilitates rapid and accurate data capture, retrieval and transmission. The technology includes various radio frequency identification and barcode scanning devices, barcode label and page printers, and various data carrier devices with associated readers and writers. The data carrier devices include optical laser cards, PC memory cards, optical memory buttons, and wireless Local Area Network (LAN) technology. Automatic Identification Technology (AIT) is used throughout the Army at the wholesale and retail supply levels and in automated maintenance, personnel and transportation systems, where rapid and accurate source data collection is required. The AIT contract establishes a baseline of AIT devices for use throughout the Department of Defense (DoD) and ensures standardization and interoperability of this equipment among the Services, while providing extensive warranty and maintenance. Beginning in FY05, this program has the mission to provide centralized procurement, engineering and fielding of state-of-the-art Radio Frequency Intransit Visibility (RF ITV) Infrastructure. |
| Justification: | FY 2006/2007 procures fielding support to Standard Army Management Information System (STAMIS) and other Information Technology (IT) systems with AIT, printers, and peripherals, engineering and fielding of Radio Frequency Intransit Visibility (RF ITV) technologies. Procures AIT for the Global Combat Support System-Army (Field/Tactical) (GCSS-Army (F/T)), the primary enabler of the Army's Combat Support/Combat Service Support (CS/CSS) transformation providing a seamless, integrated and interactive information management and operations system at all force support levels. FY 2006/2007 funds also provide for expansion and global technology refresh to the RF ITV Infrastructure to ensure compliance with DoD Radio Frequency Identification (RFID) and Unique Identification (UID) policies, and directly supports CENTCOM Commanders requirements in Theater of operations. Affords Field Data Unit (FDU) and RF ITV server refresh to include Internet Protocol Version 6 (IPv6) accommodation and the introduction of passive RFID Electronic Product Code technology as mandated by DoD Policy. |
## OPA2 Cost Analysis

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## Exhibit P-5a, Budget Procurement History and Planning

**Appropriation/Budget Activity/Serial No:** Other Procurement, Army / 2 / Communications and Electronics Equipment  

**Weapon System Type:** LOGTECH (BZ8889)  

**P-1 Line Item Nomenclature:** Other Procurement, Army / 2 / Communications and Electronics Equipment  

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**REMARKS:**  
ITEC4 - Information Technology E-Commerce and Commercial Contracting Center.  
DISA - Defense Information Systems Agency
## Exhibit P-5a, Budget Procurement History and Planning

**Appropriation/Budget Activity/Serial No:**
Other Procurement, Army / 2 / Communications and Electronics Equipment

**Weapon System Type:**

**P-1 Line Item Nomenclature:**
LOGTECH (BZ8889)

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**REMARKS:**
ITEC4 - Information Technology E-Commerce and Commercial Contracting Center.
DISA - Defense Information Systems Agency
**Exhibit P-40, Budget Item Justification Sheet**

**Appropriation/Budget Activity/Serial No:**
Other Procurement, Army /2/ Communications and Electronics Equipment

**P-1 Item Nomenclature:**
TC AIMS II (BZ8900)

**Program Elements for Code B Items:**

| Description: | The Transportation Information Systems (TIS) Project Office for Transportation Coordinators-Automated Information for Movement System II (TC-AIMS II) is a joint program which will reduce redundancy by consolidating management of the unit/installation-level transportation functions of Unit Movement, Load Planning and Installation Transportation Office/Traffic Management Office (ITO/TMO) operations into a single automated capability for use throughout DoD. TC-AIMS II will provide a common hardware suite running software applications designed for easy data retrieval, data exchange, and connectivity to relevant external sources. Open systems architecture is emphasized throughout for standardization and interoperability and for ease of system growth and maintenance. |
| Justification: | FY 2006/2007 procures the initial and replacement TC-AIMS II hardware to operate an Enterprise implementation including 100 mini-servers, 869 work stations, and Automatic Identification Technology (AIT) equipment (246 combination hand-held interrogators/bar code printers) for Army early deploying Power Project Platforms and Power Support Platforms. FY06 supports 75 classes composed of 1,123 students; included in the training is the support of New Equipment Training (NET). |

**Date:**
February 2005

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### Notes
- **Exhibit P-5, Weapon OPA2 Cost Analysis**
- **Other Procurement, Army / 2 /** Communications and Electronics Equipment
- **Communications and Electronics Equipment**
- **February 2005**
- **Weapon System: TC AIMS II (BZ8900)**
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REMARKS: Contractors are:
GSA (Government Services Administration)
ITEC4 (Information Technology & Electronic Commerce Commercial Contracting Center)
VAR* (Various Contractor Services and Configurations vary by site)
### Exhibit P-5a, Budget Procurement History and Planning

| Appropriation/Budget Activity/Serial No: | Other Procurement, Army / 2 / Communications and Electronics Equipment |
| Weapon System Type: | P-1 Line Item Nomenclature: |
| | TC AIMS II 11 (BZ8900) |

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**REMARKS:** Contractors are:
- GSA (Government Services Administration)
- ITEC4 (Information Technology & Electronic Commerce Commercial Contracting Center)
- VAR* (Various Contractor Services and Configurations vary by site)
## Description:
Integrated System Control (ISYSCON (V)1 & (V)2) provides a centralized capability for planning and managing tactical communication networks on the battlefield; automated tools for signal staff to plan, install, operate, and maintain communications networks consistent with the flow of the battle. The ISYSCON (V)1 & (V)2 software resides on CHS II Hardware Platforms in a client/server architecture. The server terminals are located in SICPS Shelters, and client terminals are located in the SICPS tent. The major functions of ISYSCON (V)1 & (V)2 are network planning and engineering, signal command and control, battlefield spectrum management, wide area network management and COMSEC management.

## Justification:
There is no funding in FY06/07.

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**REMARKS:** All above hardware with the exception of SICPS is Commercial-Off-The-Shelf (COTS).
**Joint Network Management System (JNMS)**

**Description:**

The Joint Network Management System (JNMS) is a Combatant Commander and Commander, Joint Task Force (CJTF) joint communications planning and network management tool providing network management support at the Joint Task Force (JTF) and Joint Communications Control Center (JCCC) level. JNMS is an automated network management software system. It will promote force level situational awareness; provide enhanced flexibility to support the commander's intent; improve management of scarce spectrum resources and provide increased security of critical systems and networks. It will provide communications planners with a common set of tools to conduct high level planning (war planning); detailed planning and engineering for voice, data, and message systems; network/system monitoring and control; network performance assessment and modeling, bandwidth management; and security of transmission and satellite systems. JNMS consists of commercial and government off-the-shelf software modules integrated on a flexible software architecture and hosted on a Defense Information Infrastructure, Common Operating Environment (DII COE) compliant hardware platform. This system supports the Warfighter Network-Tactical (WIN-T).

**Justification:**

FY06 / FY07 procures 16 JNMS, which will provide a needed capability to the Combatant Commander and Commander, Joint Task Forces and their supporting Components. It will procure hardware, software licenses and maintenance, new equipment training and initial spares and the cost of JNMS fielding.
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Exhibit P-5, Weapon OPA2 Cost Analysis

Joint Network Management System (JNMS)
### Exhibit P-5a, Budget Procurement History and Planning

**Appropriation/Budget Activity/Serial No:** Other Procurement, Army / 2 / Communications and Electronics Equipment  
**Weapon System Type:** Joint Network Management System (JNMS)  
**P-1 Line Item Nomenclature:** Other Procurement, Army / 2 / Communications and Electronics Equipment  
**Date:** February 2005

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**REMARKS:** JNMS Hardware is COTS and will be procured as an option on the JNMS contract. JNMS consists of commercial and government off-the-shelf software modules integrated on a flexible software architecture and hosted on a Defense Information Infrastructure, Corps of Engineers (DII COE) compliant hardware platform. JNMS Hardware unit costs reduced due to various COTS Hardware elements sell price reductions averaging 15%.
**Description:**
The Tactical Internet Management System (TIMS) is based on an Operational Requirements Document (ORD) for the Integrated Systems Control (ISYSCON) dated May 02, calling for Network Management for the Lower Tactical Internet and TOC LAN. TIMS will perform network planning, initialization, management and monitoring of the Tactical Internet at Force XX1 Brigade and Below (FBCB2) as well as TOC LANs.

**Justification:**
FY06/FY07 procures hardware, Commercial-Off-the-Shelf (COTS) software, initial spares, New Equipment Training and fielding in accordance with the CSA approved ABCS 6.4 fielding strategy/Operation Iraqi Freedom (OIF) rotations. It also procures Contractor Field Support and Post Deployment Software Support (PDSS) for these units.

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## OPA2 Cost Analysis

### TIMS Cost Elements

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**Note:** Costs are in thousands of dollars ($000) and units.
## Exhibit P-5a, Budget Procurement History and Planning

**Appropriation/Budget Activity/Serial No:**
Other Procurement, Army / 2 / Communications and Electronics Equipment

**Weapon System Type:**
Tactical Internet Manager

**P-1 Line Item Nomenclature:**
Tactical Internet Manager (B93900)

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### REMARKS:
The above hardware is purchased through a Common Hardware System contract.
## Description:
The Maneuver Control System (MCS) is an automated tactical Command, Control and Communications (C3) system that provides a network of computer terminals to process combat information for battle staffs. It provides automated assistance in the collection, storage, review and display of information to support the commander's decision process. Both text and map graphics are provided to the user. It enables operation staffs (G3/S3) to process and distribute situational awareness, estimates, plans, orders and reports. The system is designed to operate with existing and planned communications networks.

MCS is an essential component of the Army Battle Command System (ABCS) and provides critical coordination among Battlefield Functional Areas (BFAs) within each echelon. MCS provides the Common Operational Picture (COP) software supporting battlefield situation display for all ABCS BFAs. The COP depicts information provided by all the BFAs and includes a Situation Map, control measures, Intelligence and Electronic Warfare graphics, Fire Support graphics, combat service support location information, air corridors and air defense weapons control information.

The MCS system will equip the force with an automated C2 capability. This program is an integral part of the ABCS and is critical to the successful operation of that overall system. This generation of computers will incorporate advances in technology and achieve Life Cycle Cost savings due to commonality of support.

## Justification:
FY06/07 procures MCS systems for 6 Modular Divisions and Stryker Brigade Combat Teams (SBCTs).
**Exhibit P-5, Weapon OPA2 Cost Analysis**

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<th>FY 05</th>
<th>FY 06</th>
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**Total** | 35689 | 28553 | 49562 | 38786
## Exhibit P-5a, Budget Procurement History and Planning

**Appropriation/Budget Activity/Serial No:**
Other Procurement, Army / 2 / Communications and Electronics Equipment

**Weapon System Type:** MANEUVER CONTROL SYSTEM (MCS) (BA9320)

**P-1 Line Item Nomenclature:**

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<th>Method and Type</th>
<th>Location of PCO</th>
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**REMARKS:** The MCS Full Rate Production Decision (FRPD) is scheduled for FY05. Full rate production will commence in FY05 immediately following the FRPD.
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**Description:**
Global Combat Support System is comprised of two components: Global Combat Support System-Army (Field/Tactical) (GCSS-Army (F/T)) and Product Life-Cycle Management Plus (PLM+); together they are the primary enablers of the Army's Combat Support/Combat Service Support (CS/CSS) transformation. GCSS-Army (F/T) and PLM+ provide a seamless, integrated and interactive information management and operations system at all force support levels. The GCSS-Army requires an enterprise approach to replace thirteen current Standard Army Management Information Systems (STAMIS). GCSS-Army (F/T) will provide the warfighter with a seamless flow of timely, accurate, accessible and secure information that gives combat forces a decisive edge. PLM+ will link the logistic information systems, GCSS-Army (F/T) and the Logistics Modernization Program (LMP), to achieve an integrated, end-to-end (E2E) logistics process within a Single Army Logistics Enterprise (SALE).

**Justification:**
FY 2006/2007 procures and fields COTS computers to continue legacy replacements hardware, TLDD and STAMIS support systems. It also procures e-MILPO data servers, web servers, communications equipment, data entry devices, storage upgrades and other network components. Personnel transformation funds were transferred to SSN BE4164 Personnel Automation Systems beginning in FY06. Also, procures initial PLM+ hardware and licenses to establish prototype systems for the SALE architecture.
## Description:

Standard Army Management Information System (STAMIS) Tactical Computers (STACOMP) are a group of Commercial Off-the-Shelf (COTS) computer systems supporting STACOMP requirements for the US Army. These systems, used by soldiers on the battlefield to support Combat Service Support (CSS) missions at all levels, are transportable and user friendly. STACOMP COTS supports initial and life cycle replacement of the existing logistics STAMIS: Standard Army Retail Supply System (SARSS), Standard Army Ammunition System (SAAS), Standard Army Maintenance System (SAMS), Unit Level Logistics System (ULLS), Integrated Logistics Analysis Program (ILAP) and Property Book Unit Supply Enhanced (PBUSE) as well as Global Combat Support System Army (GCSS Army), and the Electronic Military Personnel Office (eMILPO)(formerly SIDPERS-3).

GCSS-Army is the primary enabler of the Army's Combat Support/Combat Service Support (CS/CSS) transformation providing a seamless integrated and interactive information management and operations system at all force support levels. The GCSS-Army Operational Requirements Document (ORD) requires an enterprise approach to replace thirteen current STAMIS. GCSS-Army will provide the warfighter with a seamless flow of timely, accurate, accessible and secure information that gives combat forces a decisive edge.

Electronic Military Personnel Office (eMILPO) provides the U.S. Army with a reliable, timely, and efficient mechanism for performing personnel actions and managing strength accountability. The eMILPO application is a web-based, multi-tiered application, using an industry standard 2nd generation Java enterprise edition (J2EE) platform, implemented on the Department of Defense (DoD) Non-Secure Internet Protocol Routing Network (NIPRNet), and accessed via a hyperlink from the AKO portal.

Tactical Logistics Data Digitization (TLDD) program provides Army equipment operators, mechanics and supervisors with electronic technical manuals, a digital preventive maintenance process and access to real-time logistics information on the battlefield, in garrison and in training. TLDD will reduce parts requisition errors, provide an integrated Class IX selection process, thereby reducing the Army’s logistical footprint and increasing unit readiness. The purpose of automating this process is to improve supply chain responsiveness and weapon system sustainability by reducing the documented 6% clerical errors in the repair parts ordering process and improve the accuracy and timeliness of data being entered into the Army’s Unit Level Logistics System (ULLS) and the Standard Army Maintenance System (SAMS). TLDD supports all deployable forces including the Stryker Force.

Personnel Transformation-Army enterprise Human Resource (Army eHR) System.
### Exhibit P-40C, Budget Item Justification Sheet

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**The Personnel Transformation mission is to develop, field, and sustain a relevant, reliable, and reachable, Army-wide electronic human resource (HR) system using a web-based military/civilian, multi-component enterprise approach for all HR functions. Funds will procure the hardware, enterprise software, and fielding and training support for the integration of the recruitment and training functionalities of the web-based eHR. Army eHR is crucial to the Army’s ability/need for building the necessary interfaces, standards, and gap analyses of current systems for integration into the Defense Integrated Military Human Resource System (DIMHRS). The Army eHR complements the DOD joint DIMHRS. DIMHRS will improve those discrete aspects of the Army’s personnel management functions and systems that are common across all military services. Army eHR applies similar improvements to the functions and systems not addressed by DIMHRS such as training management, recruiting, and manpower forecasting. In doing so, Army eHR provides streamlined capability that fully integrates transformed business processes and practices, such as unit Manning and well-being, with simplified web-based technology by adopting best business practices.**

**Justification:**

FY 2006/2007 procures and fields COTS computers to continue legacy replacements hardware, TLDD and STAMIS support systems. It also procures e-MILPO data servers, web servers, communications equipment, data entry devices, storage upgrades and other network components. Personnel transformation funds were transferred to SSN BE4164 Personnel Automation Systems beginning in FY06.
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<th>FY 05 Qty</th>
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Total: $44136  $56428  $84517  $106053
## Exhibit P-5a, Budget Procurement History and Planning

Appropriation/Budget Activity/Serial No: Other Procurement, Army / 2 / Communications and Electronics Equipment

Weapon System Type: STAMIS TACTICAL COMPUTERS (STACOMP)  (W00800)

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### REMARKS:

1) Configurations (quantity and unit cost) vary by user requirement.
2) Standard Requirements Type Contracts will be used to procure these COTS microcomputers such as: STAMIS Computer Contract II (SCC II) with Government Technology Systems, Inc, Chantilly, VA; Dell, Austin, TX; Universal High Tech Development, Rockville, MD; and Micron, Meridian, Idaho.

FT H - Ft Huachuca, Arizona

ITEC4 - Information Technology and Electronic Commerce Commercial Contracting Center

GSA - General Services Administration
## Exhibit P-5a, Budget Procurement History and Planning

### Appropriation/Budget Activity/Serial No:
Other Procurement, Army / 2 / Communications and Electronics Equipment

### Weapon System Type:
STAMIS TACTICAL COMPUTERS (STACOMP) (W00800)

### P-1 Line Item Nomenclature:
Other Procurement, Army / 2 / Communications and Electronics Equipment

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<th>Location of PCO</th>
<th>Award Date</th>
<th>Date of First Delivery</th>
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### TLDD Hardware

| FY 2005            | Various                 | C/FP                     | ITEC4, Alexandria, VA | NOV-04     | DEC-04                 |         |           | YES            |                |                |
| FY 2006            | Various                 | C/FP                     | ITEC4, Alexandria, VA | NOV-05     | DEC-05                 |         |           | YES            |                |                |
| FY 2007            | Various                 | C/FP                     | ITEC4, Alexandria, VA | NOV-06     | DEC-06                 |         |           | YES            |                |                |

### PT eHR Hardware

| FY 2004            | Various                 | C/FP                     | ITEC4, Alexandria, VA | FEB-04     | MAR-04                 |         |           | YES            |                |                |
| FY 2005            | Various                 | C/FP                     | ITEC4, Alexandria, VA | FEB-05     | MAR-05                 |         |           | YES            |                |                |

### Remarks:
1) Configurations (quantity and unit cost) vary by user requirement.
2) Standard Requirements Type Contracts will be used to procure these COTS microcomputers such as: STAMIS Computer Contract II (SCC II) with Government Technology Systems, Inc, Chantilly, VA; Dell, Austin, TX; Universal High Tech Development, Rockville, MD; and Micron, Meridian, Idaho.

FT H - Ft Huachuca, Arizona
ITEC4 - Information Technology and Electronic Commerce Commercial Contracting Center
GSA - General Services Administration
### Description:
PLM+ stands for a Product Life-Cycle Management (PLM) technology solution PLUS a Systems, Applications and Products (SAP) NetWeaver solution that together fully integrate National Logistics Modernization Program (LMP)) and Field/Tactical Logistic systems (Global Combat Support System-Army (Field/Tactical)) to achieve a Single Army Logistics Enterprise (SALE). PLM+ brings together in one shared environment the systems required to provide end-to-end (E2E) visibility of the logistic needs of the soldier from the foxhole to the factory. PLM+ is a vital link in achieving this primary Department of the Army (DA) logistic goal.

### Justification:
FY 2006/2007 procure initial PLM+ hardware and licenses to establish prototype systems for the SALE architecture.

---

| Description: | FY 2006/2007 procure initial PLM+ hardware and licenses to establish prototype systems for the SALE architecture. |
| Justification: | |

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**Program Elements for Code B Items:**

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**Appropriation/Budget Activity/Serial No:**
Other Procurement, Army /2/Communications and Electronics Equipment

**P-1 Item Nomenclature:**
Product Lifecycle Management Plus (PLM+) (W11001)

**Date:**
February 2005

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**Justification:**
FY 2006/2007 procure initial PLM+ hardware and licenses to establish prototype systems for the SALE architecture.
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## Exhibit P-5a, Budget Procurement History and Planning

**Appropriation/Budget Activity/Serial No:**
Other Procurement, Army / 2 / Communications and Electronics Equipment

**Weapon System Type:**

**P-L Line Item Nomenclature:**
Product Lifecycle Management Plus (PLM+) (W11001)

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### FY 2006

Various C/FP ITEC4, Alexandria, VA Dec05 Feb06 Yes Yes

### FY 2007

Various C/FP ITEC4, Alexandria, VA Dec06 Feb07 Yes Yes

**REMARKS:**
(I) Standard Requirements Type Contracts will be used to procure commercial off-the-shelf (COTS).

ITEC4 - Information Technology and Electronic Commerce Commercial Contracting Center
### Exhibit P-40, Budget Item Justification Sheet

**Appropriation/Budget Activity/Serial No:**
Other Procurement, Army / 2/Communications and Electronics Equipment

**Date:** February 2005

**P-1 Item Nomenclature**
STANDARD INTEGRATED CMD POST SYSTEM (BZ9962)

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**Description:**
This program includes the procurement of command post variants, designed to accommodate the various Battlefield Functional Area and Tactical Operations Centers (TOCs) of the Army Battle Command System (ABCS) which includes Tactical Data System (AFATDS). The 4 command post variants are:

1. **Rigid Wall Shelters (RWS)** for mounting on Light Tactical Vehicles (LTV) that are configured for Command Posts with Environmental Control Units (ECUs), auxiliary power, lights, racks and Signal Entry Panels.

2. **Conversion Kits for the M577 Track Vehicle** consisting of equipment racks for two ABCS workstations, power and signal panels, tent interface panel, operator seats, antenna mounts, stowage provisions, an updated Auxiliary Power Unit (APU), a vehicular intercom system, a power distribution system, a 10 meter QEAM, and a signal/data wiring module. The converted M577 has been designated the M1068 Track CP.

3. **Installation Kits for the 5-Ton Expandible Van (E-Van)** consisting of racks for up to six ABCS workstations, centralized communications rack, communications patch panel, signal entry panel, antenna mounts, map boards, a vehicular intercom system, a 10 meter QEAM, updated power distribution wiring and signal/data wiring.

4. **Installation Kits for the Soft-Top HMMWV** consisting of equipment racks for up to two ABCS workstations, communications patch panel module, antenna mounts, operator work surface, data patching module, white canvas liners, blackout curtains and a 10 meter QEAM.

The program transitioned to the TOC program (BZ9865) in FY04. Future procurement of shelters and kits will be funded by the programs that require them, (e.g. AFATDS, ASAS, AMDPCS, etc).
### Description:
This project funds the procurement of the Mounted Battle Command on the Move System. Mounted Battle Command on the Move (MBCOTM) provides a battle command platform for maneuver commanders for echelons from Calvary Squadron through Unit of Employment (UEy). The focus of MBCOTM is to facilitate commander execution centric operations versus command post centric operations. MBCOTM provides for battle command by providing a commander situational awareness in the form of a digital common operational picture enabling a commander to maintain situational understanding while moving and physically separated from fixed command posts. MBCOTM provides battle command enablers to support war (i.e., deterring aggression and coercion; fighting conflicts) and operations other than war (i.e., peacekeeping, domestic disaster relief, reducing potential conflicts, promoting regional stability, humanitarian missions and homeland security). MBCOTM supports the mission area of Command and Control. Future capabilities will include adding Joint Tactical Radio System (JTRS) and Wideband Gapfiller system (WGS) upgrade. Future improvements will include addition of secure wireless Local Area Network (LAN), Land Warrior, and Unmanned Aerial Vehicle (UAV) feed.

### Justification:
FY06/FY07 funds procure four Mounted Battle Command on the Move Systems to support the Current Force.

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Date: February 2005

Other Procurement, Army / 2 / Communications and Electronics Equipment

Mounted Battle Command on the Move (MBCOTM) (BZ9970)
### Exhibit P-5a, Budget Procurement History and Planning

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### MBCOTM System Integration/Hardware

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**REMARKS:**
### Exhibit P-40, Budget Item Justification Sheet

**Date:** February 2005

### Appropriation/Budget Activity/Serial No:
Other Procurement, Army /2/Communications and Electronics Equipment

### P-1 Item Nomenclature
GENERAL FUND ENTERPRISE BUSINESS SYSTEM (BE4168)

#### Program Elements for Code B Items:

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#### Code: BE4168  Item No. 114

| Description: | The General Fund Enterprise Business System (GFEBS) is in the PRE-Major Automated Information System (MAIS) process and will follow the DoD Business Enterprise Architecture which is aligned to the mandated Federal Enterprise Architecture. GFEBS was implemented to comply with the Federal Financial Management Improvement Act (FFMIA), the Chief Financial Officers (CFO) Act of 1990, the Government Management Reform Act of 1994, and the CLINGER- Cohen Act of 1996 and to fulfill the stated mission of the Assistant Secretary of the Army for Financial Management and Comptroller (ASA(FM&C)). The Principal Deputy for the ASA (FM&C) has directed the implementation of GFEBS to replace 30+-year-old financial systems and other costly systems like, the Standard Finance Systems (STANFINS), Standard Operations and Maintenance, Army R&D System (SOMARDS), Defense Joint Accounting System (DJAS), and Database Commitment Accounting System (DbCAS/WebCas). GFEBS will become the Department of the Army’s new core financial management system for administering its general fund to improve performance, standardize processes and ensure that it can meet future needs. GFEBS will be a commercial off-the-shelf (COTS) Enterprise Resource Planning (ERP) System that is certified by the Joint Financial Management Improvement Program (JFMIP) and provides the six core financial functions: general ledger management, payment management, receivable management, funds management, cost management, and reporting. GFEBS outcomes will include the achievement of a qualified opinion by FY 2008 and an unqualified opinion by FY 2011. |
| Justification: | FY07 procures system software and upgrades system software, procures system hardware and upgrades system hardware under the category of System Procurement. In addition, FY07 procures system initiation, implementation, and fielding. This category includes areas such as, training for system administration and system operation by users, deployment of the GFEBS system throughout the various installations and associated work within the initiation, implementation, and fielding stages. |

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**BE4168**
GENERAL FUND ENTERPRISE BUSINESS SYSTEM

Item No. 114 Page 1 of 3

Exhibit P-40
Budget Item Justification Sheet
## OPA2 Cost Analysis

**Exhibit P-5, Weapon System Cost Analysis**

**Appropriation/Budget Activity/Serial No.:**
- Other Procurement, Army / 2 /
- Communications and Electronics Equipment

**P-1 Line Item Nomenclature:**
- GENERAL FUND ENTERPRISE BUSINESS SYSTEM (BE4168)

**Weapon System Type:**
- Date: February 2005

### OPA2 Cost Elements

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**Other Procurement, Army / 2 / GENERAL FUND ENTERPRISE BUSINESS SYSTEM 499**

**Weapon System Cost Analysis**
## Exhibit P-5a, Budget Procurement History and Planning

**Appropriation/Budget Activity/Serial No:**
Other Procurement, Army / 2 / Communications and Electronics Equipment

**Weapon System Type:**

**P-1 Line Item Nomenclature:**
GENERAL FUND ENTERPRISE BUSINESS SYSTEM (BE4168)

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**REMARKS:**

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February 2005
### Exhibit P-40, Budget Item Justification Sheet

**Appropriation/Budget Activity/Serial No:**
Other Procurement, Army /2/Communications and Electronics Equipment

**P-1 Item Nomenclature:**
ARMY TRAINING MODERNIZATION (BE4169)

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<td>Wpn Sys Proc U/C</td>
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**Description:**

Army Training Modernization (ATM) includes three related efforts to acquire Digital Training Facilities (DTF). DTFs will allow rapid delivery of high quality instruction to Army personnel. Infrastructure acquired will be based on industry standards and will comply with the Joint Technical Architecture (JTA) and Defense Information Infrastructure Common Operating Environment (DII COE), where applicable. This will help assure compatibility with other military services and that commercial, state, and other resources can be leveraged to achieve cost effective solutions to support all Army components. Specific initiatives include Distributive Training Technology Project (DTTP) (BE4171), Other Training Modernization (BE4172), and the Distributed Learning System (DLS) (BE4173). Other Training Modernization modernizes/enhances classrooms at existing Training and Doctrine Command (TRADOC) resident schools. This improves training provided through the schools and allows their use to broadcast training to Army wide DTF's deployed through DTTP and DLS. DTTP and DLS will provide approximately 860 modern distance learning (DL) enabled DTF's and associated supporting infrastructure to augment training at existing resident Army schools. This will allow Army to both increase the number of Army personnel receiving required training and the amount of training that can be provided to each individual.

ATM provides a cost effective solution for training Army personnel. It will help maintain acceptable out year readiness levels despite massive resource reductions. Supported training enhancements will help reduce the current backlog of Military Operational Specialty (MOS) training. Army can significantly increase levels of MOS qualification, hence readiness, with standardized Army courseware delivered through DL technology. Implementation of these technology enablers will reduce resident training requirements and Soldiers will spend less time in the training base and more time in units, thereby increasing readiness. Without this investment, the problem of training backlog will be exacerbated; Army schools will be unable to export the expertise and standardization provided by master instructors and subject matter experts; the full benefit of Army courseware already updated or currently being updated will not be realized; and Soldiers will not be able to receive training anywhere and anytime required. ATM will deliver standardized training to Active Component (AC) and Reserve Component (RC) Soldiers and Department of the Army Civilians (DAC). DTTP/DLS provide infrastructure for Soldiers to train at or near their assigned station in lieu of resident training at Army schools. The TRADOC Classroom XXI (CRXXI) component of Other Training Modernization provides infrastructure of modernized classrooms at existing TRADOC schools. Operational implementation of the CRXXI infrastructure is carefully phased to coincide with development of redesigned instructional courseware, taking into account the number of Soldiers to be trained, types of training needed, and where training is needed to maximize the return on the ATM investment. Tasks supported within CRXXI include both conducting training and receiving training.
**Exhibit P-40C, Budget Item Justification Sheet**

**Appropriation/Budget Activity/Serial No:**
Other Procurement, Army /2/Communications and Electronics Equipment

**P-1 Item Nomenclature**
ARMY TRAINING MODERNIZATION (BE4169)

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**Justification:**
FY2006/2007 procures continued modernization of TRADOC schoolhouses and DLS enterprise technology refreshment (personal computers, video tele-training (VTT) hardware, switches, routers, servers, etc.) within previously fielded DTFs (Increment 1 & Increment 2) and the Enterprise Management Center (EMC) to support Army training at remote sites for a major subset of existing Army school courses. This supports implementation of synchronous and asynchronous training tools to augment and enhance existing Army training instruments. Also planned is the continued fielding (release 3) of Increment 3, Learning Management System (LMS), software that supports automated student administration and management. These efforts will maximize the utility of training to each student while reducing the time required by the student to complete assigned units of training. Efforts will continue to deploy modern, user friendly, learning environments to support all service members.
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**Exhibit P-40, Budget Item Justification Sheet**

**Appropriation/Budget Activity/Serial No:**
Other Procurement, Army /2/Communications and Electronics Equipment

**P-1 Item Nomenclature:**
DISTRIBUTIVE TRAINING TECHNOLOGY (BE4171)

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**Justification:**
FY2006/2007 procures refresh network and hardware assets and provides contractor support at approximately 29 fielded digital training facilities (DTFs). With refreshed DTFs, the program can continue to decrease training costs, increase readiness and retention of soldiers, and enhance safety and first responder operations. DTTP has a baseline requirement of 520 DTFs and has currently completed fielding 328 DTFs.

---

**Description:**
The primary mission of the Distributive Training Technology Project (DTTP) is to provide access to military readiness training to members of the Army National Guard (ARNG) who, for geographic or logistical reasons, do not have ready access to other Army distance learning facilities provided within The Army Distance Learning Program (TADLP) through the Distributed Learning System (DLS) Program and Classroom XXI (CRXXI). DTTP facilities are also available to soldiers and civilian support personnel of other Army components for military training and education. DTTP objectives are threefold: Improve readiness by providing greater access to military training and education; lower cost and improve performance through consolidation of common telecommunication requirements and facilitate command, control, communications, and computing within the ARNG; and foster economic development, improve educational levels, and provide information access through shared use with the communities in which the ARNG is based. DTTP also addresses training needs in the areas of: Weapons of Mass Destruction, support to Federal Emergency Management Agency (FEMA), Partnership for Peace, Youth Programs, and counterdrug activities. DTTP facilities also provide a valuable asset to National Guard units in coordinating and training for the full spectrum of responses necessary for counter-terrorism missions that may arise.
## OPA2 Cost Analysis

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### Exhibit P-5a, Budget Procurement History and Planning

**Appropriation/Budget Activity/Serial No:**
Other Procurement, Army / 2 / Communications and Electronics Equipment

**Weapon System Type:**

**P-1 Line Item Nomenclature:**
DISTRIBUTIVE TRAINING TECHNOLOGY (BE4171)

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**REMARKS:**
### Description:
Classroom XXI Program modernizes 270 outdated resident classrooms across 15 Army installations to provide schoolhouse instructors with a digital platform to conduct training. Classroom XXI provides the infrastructure to deliver digital training from the schoolhouse to remote Digital Training Facilities and Reserve Components. Classroom XXI technology provides Soldiers with 24/7 reach back capability for training access anytime/anywhere. Classroom XXI is the advanced resident instructional technology environment in which soldiers in current and future forces will train. Modernization requires investments in hardware, software, facilities, and communications. The program transforms current instructor-centric, self-contained classrooms into student-centric, multimedia platforms with worldwide capabilities for students to obtain and share training material and collaborate with other students. Classroom XXI establishes both the architectural criteria for classroom rehabilitation and the technology standards for Army schoolhouse training, using open architecture and standards-compliant technologies for interoperability. Classroom XXI classrooms provide instructors with a digital platform designed for instructor-led and/or facilitated training, using a large-screen presentation system with an integrated video teletraining system and instructor/student assist technologies to the desktop. Classrooms are fully networked, offering high technology advanced distributive learning capabilities. Classrooms provide students with access to the same or different courseware simultaneously from networked video-on-demand libraries, Internet access, full-motion/full-screen digital video with display on the large screens and on the desktop, and collaborative computing. These funds are required to provide the automated infrastructure required to sustain the Army Training mission. The infrastructure provides links from the trainers to a collaborative network of training support. Funds also support the Army Training Information Architecture (ATIA) to include automated training management, training development, and training delivery tools. The result of the Army Training Information Architecture is a digital environment to provide links to subject matter experts (SME), training managers, administrators, training products, and students. This effort will greatly enhance the readiness and time access to training products and materials.

### Justification:
FY2006/2007 procures continued modernization of TRADOC schoolhouse delivered training classrooms. Classroom XXI is a key element of the Army Digital Training Strategy (ADTS): “TRADOC institutions will continue to establish the fundamentals of soldiering (digital and other skills) to defined standards, so that when soldiers report to their tactical units, they immediately contribute to the unit's operational readiness.” Classroom XXI modernizes schoolhouse classrooms to provide the professional instructor with a digital training platform to support the Army mission, Train the Army. Trains Initial Entry Training (IET) and Officer Education System/Non-Commissioned Officer Education System/Warrant Officer Education System (OES/NCOES/WOES) Soldiers.

#### Exhibit P-40, Budget Item Justification Sheet

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**BE4169 (BE4172)**
OTHER TRAINING MODERNIZATION

Item No. 115 Page 7 of 14
507
Exhibit P-40 Budget Item Justification Sheet
Classroom XXI will help the Army meet the Department of Defense (DoD) requirement to provide a flexible, ready, and sustainable military force structure capable of conducting joint operations to execute the national military strategy. It will do this by modernizing institutional classrooms with learning and information technologies to provide mission critical training to all Army components. The system will facilitate mobilization training by allowing just-in-time training for deploying military personnel. It will also improve overall military skill levels of Army personnel by enhancing training access. Classroom XXI is an integral component of the DoD Advanced Distributed Learning Initiative, and Strategic Plan for Transforming DoD Training, which calls for the full exploitation of technologies to support quality education and training. Classroom XXI supports the e-Government strategy by using the Web to provide training materials, by enabling the intra-agency sharing of training data, and by adopting commercial practices and products. The Army Training Information Architecture (ATIA) sustains the Reimer Digital Library (RDL), which is the official website for Army training and doctrine information and publications, globally accessible through the Internet and NIPRNET, to over 285,000 soldiers and civilians and other services. These funds allow ATIA to refresh and refurbish hardware that requires upgrades and technological improvements.
## Exhibit P-5, Weapon System Cost Analysis

**OPA2 Cost Analysis**

**Exhibit P-5, Weapon System Cost Analysis**

<table>
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<tr>
<th>Cost Elements</th>
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*Configurations vary by user requirements*

Total: 665

**OTHER TRAINING MODERNIZATION**

*BE4169 (BE4172)*

Item No. 115  Page 9 of 14

Exhibit P-5  

Weapon System Cost Analysis
### Exhibit P-5a, Budget Procurement History and Planning

**Appropriation/Budget Activity/Serial No:** Other Procurement, Army / 2 / Communications and Electronics Equipment

**Weapon System Type:**

**P-1 Line Item Nomenclature:** OTHER TRAINING MODERNIZATION [BE4172]

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<th>Award Date</th>
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<th>Unit Cost</th>
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<th>RFP Issue Date</th>
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**REMARKS:**

- Classroom XXI Contractor is: Northrop Grumman Information Technology, Greenbelt, MD (formerly known as Federal Data Corporation).
- GSA = General Services Administration (GSA)
- NRCC - Northern Region Contracting Center, Ft Eustis, VA

Configurations vary by user requirements.

---

**Date:** February 2005
## Description:
The Distributed Learning System (DLS) is an Army Acquisition Category 1 Army Component (ACAT 1AC) major automated information system that will modernize training delivery in the Army training and education system by leveraging information technology (IT). DLS will complete 274 objective Digital Training Facilities (DTFs) with standard automation and supporting infrastructure to improve Army's ability to train service members and supporting civilian workers. The objective quantity of 274 DTFs consists of 150 Active Component (AC) DTFs and 124 United States Army Reserve (USAR) DTFs. At the end of FY 2004 a total of 268 DTFs were completed with the remaining 6 DTFs in process to be completed in FY 2005. DLS will aid the Army to properly train all components to a single Army standard. DLS supports readiness by enhancing institutional and individual training in all Army components (Active, Army National Guard, Army Reserve, and Department of the Army Civilians (DAC)). DLS provides both near and long-term infrastructure to enhance training particularly in the areas of Military Occupational Skill Qualification (MOSQ) and reclassification. It also provides a highly effective means to deliver training and education to deployed forces. The overall goal for DLS is to leverage technology and learning theory by providing just-in-time training to each service member regardless of location. DLS supports the E-Government strategy by using the Web to provide training materials, by enabling the intra-agency sharing of training data, and by adopting commercial practices and products to reduce operating costs. DLS supports the President's Management Agenda by making use of e-Learning to leverage scarce training funds and to provide greater agency access to training materials. DLS goals also include reducing training delivery and training support costs; improving service member morale by allowing members to obtain increased amounts of required training without leaving their home station; improving efficiency and effectiveness of Army instructors by allowing each instructor to train more students in a shorter period of time; and improving unit readiness due to the reduction in personnel turbulence resulting from long term absence for resident training. DLS Increment 3, The Army Learning Management System (LMS) Full Rate Production (FRP) review and decision was approved on 10 September 2004. DLS Increment 4, Deployed Digital Training Campus (DDTC) FRP review and decision is anticipated to be 2nd Quarter, FY 2007.

## Justification:
FY 2006/2007 procures (1) DLS system fielding & implementation; (2) DLS enterprise information technology refreshment (hardware and software) within fielded DTFs, the Enterprise Management Center (EMC), and the Army Learning Management System (LMS) system fielding and annual engineering change proposals (ECPs) to support Army web-based learner training administration and training management at remote sites for a major subset of existing Army school courses; (3) DLS enterprise Continuity of Operations Plan (COOP) hardware and software; and (4) DLS Increment 4, Deployed Digital Training Campus (DDTC) development, hardware testing and software suites. These integrated efforts will maximize the utility of training to each learner while reducing the time required by the student to complete assigned units of training.
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**REMARKS:**

DLS Increment 1 DTFs and Increment 2 Enterprise Management Center (EMC) configuration and hardware and software procurement was completed in FY 2004.

"VARIOUS" contractors servicing Increments 1 & 2 DTF configurations (AC and USAR) vary by component user and installation site requirements. Various contractors servicing aspects of DTF installation and equipping are ACS Systems Engineering, Virginia Beach, VA for (Increments 1 & 2 DTFs and infrastructure installation); Sprint, Herndon, VA (video teletraining equipment), and The Portable Warehouse, Anaheim, CA (computer workstation hardware).

"VARIOUS" contractors servicing aspects of DLS Enterprise Technology Refreshment and Enterprise COOP (Continuity of Operations Plan) are IBM, Dell, & Microsoft. The DLS Enterprise Technology Refreshment addresses replacement or upgrading of critical technology components of the enterprise system. It is anticipated that this continuing requirement will be serviced by various contractor entities.
**Exhibit P-5a, Budget Procurement History and Planning**

**Appropriation/Budget Activity/Serial No:**
Other Procurement, Army / 2 / Communications and Electronics Equipment

**Weapon System Type:**
Distributed Learning System (DLS) (BE4173)

**P-1 Line Item Nomenclature:**
Other Procurement, Army / 2 / Communications and Electronics Equipment

**Distributed Learning System (DLS) (BE4173)**

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**Remarks:**

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**Description:**
This program supports the Army's sustaining base automation systems. The Army's primary sustaining base Information Management (IM) goal is to provide information services for the sustainment and readiness of the forces at minimum cost.

**Justification:**
The current sustaining base automation infrastructure is largely overstressed and reaching technological obsolescence. A stable modernization program is essential to maintain efficiency, increase productivity, and reduce operation and maintenance costs through technological advancement. As the Army modernizes its warfighting forces for the twenty-first century, it must leverage the use of automation technology to streamline and modernize its management information systems to support Command, Control, Communications, Computers, and Intelligence (C4I) for the Warrior and power projection strategies, split base operations, and downsized force structures. The effectiveness of the Continental United States (CONUS) split base operations strategy to perform as the rear area for deployed forces as well as the mobilization, force projection, and redeployment platform is increasingly dependent upon use of state-of-the-art automation technology to provide responsive combat service support to the warfighter in the areas of command and control, logistics, personnel, finance, transportation, medical and other sustaining base functions.
## OPA2 Cost Elements

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Exhibit P-40, Budget Item Justification Sheet

Date: February 2005

Appropriation/Budget Activity/Serial No:
Other Procurement, Army /2/Communications and Electronics Equipment

Program Elements for Code B Items:

| Code: | OPTICAL DIGITAL EQUIP (BD3956) |

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<td>Wpn Sys Proc U/C</td>
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Description:
This program supports high payoff initiatives to replace obsolete, inefficient records management systems with state-of-the-art optical digital equipment and other electronic recordkeeping systems. This technology will reduce operations and maintenance costs and improve the mission effectiveness and productivity of records managers throughout the Army.

PERSONNEL ELECTRONIC RECORDS MANAGEMENT SYSTEM (PERMS): PERMS is the system of record for millions of Official Military Personnel Files (OMPF) and is critical to the Army Selection and Promotion Board process for both officer and enlisted ranks. It provides an electronic system for the maintenance, storage, and retrieval of military personnel files at Army Personnel Records Management Centers for active Army, Army National Guard, and Army Reserve personnel functions at all command levels and is available to the individual Soldiers via the Internet. PERMS integrates directly into the Defense Integrated Military Human Resource System (DIMHRS) and supports other activities such as the Department of Labor, Federal and State law enforcement agencies and the Veterans Administration (VA).

ARMY RECORDS INFORMATION MANAGEMENT SYSTEM (ARIMS): ARIMS is the Army system used to identify, collect, preserve, and retrieve electronic record information and index hard copy records maintained in the Army-owned Records Holding Areas and Federal Records Centers. ARIMS provides consistent access to important record information needed to execute Joint Vision 2020’s information superiority concept and the capability to make the superior decisions envisioned by the doctrine. ARIMS provides a centralized location for the secure research and sharing of information that documents the conduct of the Army’s business, contingency and war-time operations, ensuring economy and efficiency in documenting Army policies, decisions, and operations. ARIMS provides web based tools and capabilities that transform the way the Army identifies, collects and preserves its classified and unclassified long term records in either electronic or hard copy format. ARIMS web based tools and capabilities reduce the administrative burden on the warfighter, ensure that the Army’s records are preserved, improve legitimate access to Army records in response to Freedom of Information Act requests, serve as the conduit for requests for research by Veterans Administration and other military and federal departments, and serve as the repository for important specialized collections such as Gulf War Declassification records, Viet Nam Casualty records, Individual Deceased Personnel Files, inactive Official Military Personnel Files, Army Operation Center records for Operation Enduring Freedom (OEF) and Operation Iraqi Freedom (OIF), as well as OEF and OIF contingency records. ARIMS supports the Army-wide Records Management Programs, including Records Management, Department of the Army (DA) Freedom of Information Act Program, Privacy Act Program, Component Programs, Executive Order 12958 Declassification, and combat records research in support of Army veterans.
Justice:
PERSONNEL ELECTRONIC RECORDS MANAGEMENT SYSTEM (PERMS): FY06 completes the consolidation of the four unique PERMS systems into a single system serving the Active, Reserve, and Army National Guard Components. FY06/07 procures the hardware necessary to establish a dual site configuration at the Army Personnel Records Center to allow for around-the-clock Web Services, provide real-time disaster recovery for the Official Military Personnel File (OMPF), and initiate the expanded storage requirement to provide OMPF Web Services to DOD, National Archives and Records Administration and Veterans.

ARMS RECORDS INFORMATION MANAGEMENT SYSTEM (ARIMS): FY 06/07 procures continued expansion of on-line real time electronic storage (FY 06) and initial technology refresh (FY 07). Because ARIMS provides real time capture, retrieval and preservation of both electronic records and indexes to hard copy records physically located in Army-owned records holding areas, delay in expansion and technology refresh would impact the security of those records being preserved from previous and current-year activities of the Army. ARIMS provides the centralized facility for the collection and preservation of the Army's important long term (retention from 7 to 150 years) records.
### Exhibit P-5, Weapon Appropriation/Budget Activity/Serial No.

Other Procurement, Army / 2 / Communications and Electronics Equipment

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P-1 Line Item Nomenclature: OPTICAL DIGITAL EQUIP (BD3956)

Weapon System Type: OPTICAL DIGITAL EQUIP

Date: February 2005
### Exhibit P-5a, Budget Procurement History and Planning

**Appropriation/Budget Activity/Serial No:**
Other Procurement, Army / 2 / Communications and Electronics Equipment

**Weapon System Type:**
OPTICAL DIGITAL EQUIP (BD3956)

**P-1 Line Item Nomenclature:**

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**REMARKS:** All quantities and unit costs vary by configuration and site

GSA-FEDSIM - General Services Administration-Federal Systems Integration Management

NICP - Navy Inventory Control Point

NGIT - Northrup Grumman Information Technology

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BD3000 (BD3956)  
OPTICAL DIGITAL EQUIP  

Item No. 116  Page 6 of 56  

Exhibit P-5a  
Procurement History and Planning
**EMERGING LOGISTICS TECHNOLOGIES (ELT) (FORMERLY TOTAL DISTRIBUTION PROGRAM (TDP)):** ELT is comprised of multiple initiatives that provide for exploration of commercially available technology and subsequent logistics application in an operational environment. This is accomplished by means of capability/gap analysis, identification of a requirement/shortfall, exploration and identification of available technologies and applications to improve the effectiveness of Army logistics, business process analysis, proofs of concept and live-environment demonstrations, and transition to the appropriate Program Manager (PM). Capabilities are tied to the Army Deputy Chief of Staff, G-4 (Logistics) focus areas, lessons learned, emerging concepts, the Common Logistics Operating Environment, Enterprise Architectures, and technology innovations identified through academia, industry, National labs, outreach and partnership. Initiatives include, but are not limited to, Micro-Electrical Mechanical Systems (MEMS) and next generation Radio Frequency Identification (RFID) with Satellite Communications. MEMS provides for automatic reporting of environmental, shock, humidity, and temperature sensed data through RFID devices. Next generation RFID uses wireless communications to replace current fixed RFID infrastructure to provide asset in-transit visibility in austere environments and new areas of responsibility, and provides hardware and software to initiate cellular/wireless technologies.

**COMBAT SERVICE SUPPORT AUTOMATION INFORMATION SYSTEM INTERFACE (CAISI):** CAISI is an interface device providing a means for Combat Service Support (CSS) users to transmit data in a secure mode in the tactical environment. CAISI can interface with the Mobile Subscriber Equipment (MSE), tactical radio, commercial satellite and garrison local area network. It adds connectivity to the battlefield and is the backbone of the Sensitive But Unclassified (SBU) network supporting the CSS automation community on the battlefield. Combat Service Support Satellite Communications (CSS SATCOM) uses commercial satellite technology to deliver a satellite-based, global, wide area data network supporting current and future CSS information systems. Key aspects of the CSS SATCOM network: Fully Internet Protocol (IP) based and connected to Non-secure Internet Protocol Router Network (NIPRNET) (SBU Transport & Encryption); remote satellite terminals (Very Small Aperture Terminal (VSAT)) owned and operated by CSS units; three to four regional teleports provide global coverage; single commercial network management center and helpdesk in the Continental United Status (CONUS); and, field 675 remote satellite terminals Army-wide by the end of 2006.

**Justification:**

EMERGING LOGISTICS TECHNOLOGIES (ELT) (FORMERLY TOTAL DISTRIBUTION PLAN (TDP)): FY 06/07 procures commercially available applications and existing commercial-off-the-shelf (COTS) hardware/devices for technological improvements in the logistics process.
This program provides mechanisms to address logistics capability gaps, rapidly validate and apply strategic capabilities to support the G-4 focus areas, and integrate concepts to produce logistics capabilities that are anticipatory, pro-active, and rapidly responsive to the warfighter.

COMBAT SERVICE SUPPORT AUTOMATION INFORMATION SYSTEM INTERFACE (CAISI): FY06/07 procures fielding support for hardware upgrades for existing CAISI legacy interface equipment to include an encrypted, wireless interface to CSS users on the battlefield in accordance with the Federal Information Processing Standard (FIPS) mandate, which establishes encryption standards on all wireless communication. Combat troops will be able to communicate real-time logistics information to reach-back commands. The Army's Connect the Logistician Program cannot be implemented without these funds.
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Quantities and unit costs vary by configuration for all programs.

**Total**

- FY 04: $35750
- FY 05: $25380
- FY 06: $19601
- FY 07: $22945
## Exhibit P-5a, Budget Procurement History and Planning

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Combat Service Support

Satellite Communications

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| FY 2004 | Signal Solutions | Fairfax, VA | C/FP | DOI, Ft Huachuca, AZ | JUN 04 | VAR | YES | NO |

REMARKS: All quantities and unit costs vary by configuration and site
VAR - Multiple contracts awarded/delivered throughout the year
DCCW - Defense Contracting Command Washington
ITEC4 - Information Technology E-Commerce and Commercial Contracting Center
DOI - Department of Interior
GCS - Global Communications Solutions
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Automatic Identification Technology

Initiatives

| FY 2004                                | Unisys                                        | T&M                      | DISA, Falls Church, VA   | DEC 03     | JAN 04                 | YES | NO       |                |                |                |
| FY 2004                                | Savi Technology                               | IDIQ/FP                  | ITEC4, Alexandria, VA    | DEC 03     | FEB 04                 | YES | NO       |                |                |                |

Emerging Logistics Technologies

| FY 2005                                | TBS                                           | C/FP                     | DCCW, Washington, DC     | VAR        | VAR                    | YES | NO       |                |                |                |
| FY 2006                                | TBS                                           | C/FP                     | TBS                      | VAR        | VAR                    | YES | NO       |                |                |                |
| FY 2007                                | TBS                                           | C/FP                     | TBS                      | VAR        | VAR                    | YES | NO       |                |                |                |

Automated Identification Technology

REMARKS: All quantities and unit costs vary by configuration and site
VAR - Multiple contracts awarded/delivered throughout the year
DCCW - Defense Contracting Command Washington
ITEC4 - Information Technology E-Commerce and Commercial Contracting Center
DOI - Department of Interior
DISA - Defense Information Systems Agency
GCS - Global Communications Solutions
## Exhibit P-5a, Budget Procurement History and Planning

### Appropriation/Budget Activity/Serial No:
Other Procurement, Army / 2 / Communications and Electronics Equipment

### Weapon System Type:

### P-1 Line Item Nomenclature:
STRATEGIC LOGISTICS PROGRAM (SLP) (BD7000)

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<th>Date of First Delivery</th>
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### REMARKS:

- All quantities and unit costs vary by configuration and site
- VAR - Multiple contracts awarded/delivered throughout the year
- DCCW - Defense Contracting Command Washington
- ITEC4 - Information Technology E-Commerce and Commercial Contracting Center
- DOI - Department of Interior
- DISA - Defense Information Systems Agency
- GCS - Global Communications Solutions
### Exhibit P-40, Budget Item Justification Sheet

**Appropriation/Budget Activity/Serial No:**
- Other Procurement, Army /2/Communications and Electronics Equipment

**P-1 Item Nomenclature**
- RESERVE HQ AUTOMATION (BE4000)

**Program Elements for Code B Items:**

| Description | US ARMY HUMAN RESOURCES COMMAND-ST. LOUIS (USAHRC-S) AUTOMATION (FORMERLY US ARMY RESERVE PERSONNEL COMMAND (AR-PERSCOM) AUTOMATION). The US Army Human Resources Command–St. Louis (USAHRC-S) provides full lifecycle leadership, growth and personnel management services to US Army Reserve (USAR) soldiers, retirees, veterans, and their families. It manages the Active Guard Reserve (AGR), Individual Mobilization Augmentee (IMA), and Individual Ready Reserve (IRR) soldier population, USAR Selected Reserve end strength, Reservist retirement transition, retirement pay processing, and Veterans' affairs. The USAHRC-St. Louis automation initiatives extend proactive soldier services utilizing a standard leader development model that provides collaboration, knowledge sharing, and decision support services consistent with Army Knowledge Management (AKM) initiatives. This automation effort develops and sustains USAR personnel through officer and enlisted professional development education, Military Occupational Specialty Qualification (MOSQ), evaluations, and promotions, and supports Combatant Commander and Major Army Command (MACOM) requirements for exercises, site/mission support, intelligence and counter drug demand reductions. These efforts support Army Personnel Transformation and AKM goals by integrating knowledge concepts, collaborating best business practices to improve performance and standardization of business models, and supporting increased self-service through 24-hours-a-day/seven-days-a-week web and telephony channels. USAHRC-S automation also supports other initiatives such as the Army's Well-Being program and Enterprise Human Resources System (eHRS), the Defense Integrated Military Human Resources System (DIMHRS), and the Global War On Terrorism (GWOT).

**Justification:**
- FY06/07 procures hardware (servers, Local Area Network upgrades, and storage devices), software, and communications (extended bandwidth) for the expansion of the base integrated infrastructure to support the virtual Army Reserve Regional Readiness Centers and the war fighters in theater.

| Description | US ARMY HUMAN RESOURCES COMMAND-ST. LOUIS (USAHRC-S) AUTOMATION (FORMERLY US ARMY RESERVE PERSONNEL COMMAND (AR-PERSCOM) AUTOMATION). The US Army Human Resources Command–St. Louis (USAHRC-S) provides full lifecycle leadership, growth and personnel management services to US Army Reserve (USAR) soldiers, retirees, veterans, and their families. It manages the Active Guard Reserve (AGR), Individual Mobilization Augmentee (IMA), and Individual Ready Reserve (IRR) soldier population, USAR Selected Reserve end strength, Reservist retirement transition, retirement pay processing, and Veterans' affairs. The USAHRC-St. Louis automation initiatives extend proactive soldier services utilizing a standard leader development model that provides collaboration, knowledge sharing, and decision support services consistent with Army Knowledge Management (AKM) initiatives. This automation effort develops and sustains USAR personnel through officer and enlisted professional development education, Military Occupational Specialty Qualification (MOSQ), evaluations, and promotions, and supports Combatant Commander and Major Army Command (MACOM) requirements for exercises, site/mission support, intelligence and counter drug demand reductions. These efforts support Army Personnel Transformation and AKM goals by integrating knowledge concepts, collaborating best business practices to improve performance and standardization of business models, and supporting increased self-service through 24-hours-a-day/seven-days-a-week web and telephony channels. USAHRC-S automation also supports other initiatives such as the Army's Well-Being program and Enterprise Human Resources System (eHRS), the Defense Integrated Military Human Resources System (DIMHRS), and the Global War On Terrorism (GWOT).

**Justification:**
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US Army Human Resources Command-St. Louis (USAHRC-S) Automation

Total: 999 2543 1767 2051
### Exhibit P-5a, Budget Procurement History and Planning

**Appropriation/Budget Activity/Serial No:**
Other Procurement, Army / 2 / Communications and Electronics Equipment

**Weapon System Type:**
RESERVE HQ AUTOMATION (BE4000)

**P-1 Line Item Nomenclature:**
Other Procurement, Army / 2 / Communications and Electronics Equipment

#### WBS Cost Elements:

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**Remarks:**
- All quantities and unit costs vary by configuration and site
- DITCO-Defense Information Technology Contracting Organization
- AFB-Air Force Base

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BD3000 (BE4000)
RESERVE HQ AUTOMATION

Item No. 116  Page 15 of 56
Exhibit P-5a
Procurement History and Planning
Exhibit P-40, Budget Item Justification Sheet

Appropriation/Budget Activity/Serial No:
Other Procurement, Army / 2/ Communications and Electronics Equipment

P-1 Item Nomenclature
HQ MANAGEMENT INFORMATION SYSTEMS (BE4161)

Program Elements for Code B Items:

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Description:
Provides funds for information systems that support Army headquarters worldwide.

Justification:
HEADQUARTERS, DEPARTMENT OF THE ARMY AUTOMATED DATA PROCESSING EQUIPMENT (HQDA ADPE): This program provides information management support to Headquarters, Department of the Army (HQDA), across the entire Information Management (IM) spectrum. HQDA ADPE supports the joint Office of the Secretary of the Army/Army Staff (OSA/ARSTAF) Senior Planning Group and other Department of Defense (DoD) Information Technology (IT) initiatives. The program also procures hardware and software to expand and upgrade applications that support efficient operation of HQDA to include the HQDA Tracking System. This provides a flexible, integrated, automated system to support the control and management of executive correspondence, internal actions, and file documentation. Further, it will streamline the flow process of actions within HQDA, reduce the amount of data re-entry and duplication of information, promote data sharing, and provide immediate access to information. FY06/07 procures application support and data protection upgrades to include expansion of the existing Storage Area Network (SAN) and server equipment modernization to enhance the capability of replicating required automation files, electronic records, and electronic mail at the primary HQDA classified relocation facility and other alternate sites. Secondary goals include improvement of functionality, security, survivability, and availability. The addition of Video Teleconferencing (VTC) and desktop capabilities also eliminates transit time for a customer base that is spread across multiple locations. Finally, an automated document management system will also be added to the services provided to HQDA customers.

HOUSING OPERATIONS MANAGEMENT SYSTEM (HOMES): HOMES is an Army Automated Information System (AIS) designed to integrate functions that provide service members housing in on-post government quarters, off-post community quarters, Unaccompanied Personnel Housing (UPH) in barracks, and permanent party quarters. It also provides an inventory management function for Army-owned household furniture and appliances.

HOMES increases availability of housing services, helps monitor and manage housing utilization, control and manage housing inventory, monitor Basic Allowance for Housing (BAH), permits upward reporting, and is used to help installation oversight of privatized housing assignments. HOMES is installed at 106 installations worldwide including Continental United States (CONUS), Alaska, Puerto Rico, United Kingdom, Europe, Korea, and Japan. FY06/07 procures hardware and network components to support the transition to a web-enabled housing system as part of the Army Housing enterprise.
Hardware includes switches to manage transaction traffic, tape library and a Storage Area Network fiber switch disk array for data storage, and a load balancer to manage incoming network requests. Funds also procure smart card readers to scan Common Access Card (CAC) information into the web housing system and replacement of communications/network equipment components. The program supports centralized housing web applications, changes in housing business practices, and the Congressional mandate for privatization.

PENTAGON INFORMATION TECHNOLOGY (IT) INFRASTRUCTURE: This program supports two separate Army-Pentagon infrastructure requirements. Common Information Technology (IT) infrastructure supports the renovated Pentagon through life cycle replacement of systems/networks to ensure interoperability, supportability, survivability, Net-centricity (distribute information instantly and without borders), and to provide rapid response to any outage. Other IT infrastructure supports the Business Data Center and the Congressionally mandated Pentagon Telecommunication Service Center (PTC) through replacement of equipment that has been extended beyond or reached the end of its life cycle. The Data Center provides mission critical Automated Data Processing (ADP) platform and software application support for Logistics Force Planning, Training, Budget Formulation, and Medical Operations Management missions of Headquarters, Department of the Army (HQDA). The PTC operates the Defense Message System (DMS) Local Control Center providing DMS infrastructure message service for the entire Pentagon and National Capital Region (NCR) user community. FY06/07 procures Network infrastructure to include implementation of a Metropolitan Area Network (MAN)/Wide Area Network (WAN) for the NCR, implementation of Internet Protocol Version 6 (IPv6), and Domain Name Service (DNS)/Dynamic Host Configuration Protocol (DHCP) modernization as mandated by Department of Defense (DoD); upgrades to network infrastructure devices such as firewalls, router upgrades, and adding/providing sustainable and secure means for network wireless access in swing spaces and the Pentagon. Upgrades of network management capabilities include more robust security management and operational tools such as Network Attack Prevention System for remote access authentication and access prevention, upgrade of the systems Certification and Accreditation process hardware, and significant upgrade and expansion of the Network Management System tools to accurately monitor, diagnose, and sustain the backbone in real time. Procurements include upgrades to the Command and Control (C2) network such as replacement switches, network monitoring and diagnostic testing equipment, and the Pentagon Network Timing and Synchronization system hardware (oscillators, frequency multipliers, and Clock Distribution Systems (CDS)). Funds support mission critical mainframe data processing, data storage and software application support to include legacy mainframe replacement and current system expansion for mainframe computing platforms, storage area networks, and systems that provide additional survivability for critical data storage and processing. Funds also support messaging services replacing Decisions Agents for C2 message communications; replacing DMS Multi-function Interpreters, servers, and DMS High Assurance Guards, high-volume messaging printers, and Enhanced Communications Gateway System (ECGS) hardware components (servers, port communicators, patch panels). Planned upgrades include installation and implementation of an enhanced Pentagon Enterprise Messaging Directory (Active Directory).

COMMAND CENTER INFOSTRUCTURE. Command Centers must conduct the full spectrum of military operations in concert with coalition forces. This program procures Command, Control, Communications, Computers, and Intelligence Technology (C4IT) for command and control functionality at designated Army and Army-supported Command Centers. It provides for the modernization and interoperability efforts to ensure a seamless transition to the command centers during a crisis such as prosecution of war. It supports the command and control functions for Combatant Commander and supporting commands to maintain ready forces to conduct the full spectrum of military operations unilaterally or in concert with coalition partners, to enhance security and stability, and to support U.S. interests throughout the area of responsibility. Modernization includes upgrades to outdated facilities, combatant commander unique systems such as emergency action reporting systems, crisis action cells, battle staff display and other like configuration management requirements, software, hardware, and communications components.

Specific Army command centers include the Army Operations Center (AOC), European Command (EUCOM), US Forces Korea (USFK), US Army Pacific (USARPAC), Southern Command (SOUTHCOM), Joint Special Operations Command (JSOC), and the National Military Command Center (NMCC)-Site R. FY06/07 procures hardware, software, fielding, and program management.
The program supports the National Security Strategy and the National Strategy, Army Transformation initiatives, Joint Vision 2010 initiatives, and specifically, the Global War On Terrorism. It modernizes outmoded and deficient C2 equipment, visual displays, audiovisual connectivity, and information technology infrastructure. All are critical to efficiently and effectively support command and control center operations that are currently deficient.

**COMMAND AND CONTROL (C2) INFOSTRUCTURE.** This program procures the Command, Control, Communications, Computers, and Intelligence Technology (C4IT) infrastructure at Army and Army-supported Combatant Commander sites. It provides for Command and Control (C2) infrastructure capabilities that support strategic and operational C2 functionality to the Combatant Commander, Army commanders, and staffs throughout a Combatant Commander's area of responsibility. The program is critical for the Department of Defense (DoD) mandates on transformation and homeland defense initiatives. The program provides classified computer and communications infrastructure to allow for planning, mobilizing, and execution of Combatant Commander and Army plans and orders. The program allows for the incorporation of information technology to ensure a more agile, mobile, lethal, survivable, and responsive force and enables secure interconnectivity with Combatant Commanders' command centers. Specific Combatant Commanders supported include European Command (EUCOM), US Forces Korea (USFK), US Army Pacific (USARPAC), Southern Command (SOUTHCOM), Joint Special Operations Command (JSOC), and the US Army Special Operations Command (USASOC). FY06/07 procure critical infrastructure components such as the Global Command and Control System (GCCS), Warfighting Information System, Information Assurance (IA), and classified Local Area Networks (LAN). These components will improve reliability, broaden and enhance systems management capabilities, bolster security, and maintain compatibility and integration with command and control, other application systems, and other infrastructure. Procurements will focus on LAN expansion, bridges, hubs, routers, and as technology permits, implementation of Secret and Below Interoperability (SABI), increased critical component redundancy, video information displays, and enhanced systems security and security monitoring. Funding includes program management costs.

**LEGAL AUTOMATION ARMY-WIDE SYSTEM (LAAWS).** LAAWS is the Army Judge Advocate General's Corps (JAGC) Automated Information System (AIS) for legal information sharing by all Army law offices and legal personnel. It provides critical legal resources and mission support for all garrison and deployed legal operations, all active and reserve legal personnel, and for all phases of mission planning and execution. LAAWS consists of a host of web-enabled legal databases, information, and legal applications (military justice, claims, administrative law, litigation, etc) deployed and accessible worldwide on JAGCNet (the Army JAGC Internet legal portal), and provides legal research capabilities in support of the full range of functional legal areas. LAAWS also provides legal research and library resources, such as CD/DVD resources to support offline and stand-alone legal support requirements using the Judge Advocate Warfighting System (JAWS), a Rucksack Deployable Law Office and Library (RDL), when Internet-connected to JAGCNet. The JAWS includes equipment such as a laptop, CD/DVD, printer/scanner/fax, digital camera, associated connectivity, CD ROM library references, and Internet connection to JAGCNet. LAAWS/JAWS is the single Army JAGC legal system that provides critical resources deployed legal personnel use to advise commanders and activities on statutory and regulatory requirements. Specific examples include operational and international law support to operations to ensure lawful targeting, compliance with the Law of War, negotiate and prepare international agreements and treaties, conduct legal tribunals, process claims actions, and preparation of documents, such as wills and powers of attorney, for soldiers. LAAWS supports automated legal research, the processing and management of claims for/against the Army and the electronic distribution of legal materials.

**ENVIRONMENTAL REPORTING COMPUTING INFRASTRUCTURE:** This program provides for Environmental Reporting across the entire U.S. Army. The U.S.
Army Environmental Center (USAEC) programs, maintains, and operates Army-Wide Environmental reporting systems which include but are not limited to the Army Environmental Database (AEDB), Environmental Program Requirements–Web (ERPWeb), Environmental Quality Report (EQR), Environmental Performance Assessment System (EPAS), Environmental Restoration Information System (ERIS), and Reimbursable Program Tracking System (RPTS). Environmental reporting data is collected by these applications, stored in databases, and is accessible via the World Wide Web. FY07 procures mid-range UNIX database servers to provide development, testing, and production support of database, reporting, and software integration technologies upon which the Army environmental information systems rely. USAEC must fulfill a four-year mid-range database server replacement strategy in order to decrease risk of hardware failure, non-availability of required software, and excessive maintenance costs incurred by aging hardware and software.
## OPA2 Cost Elements

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### Headquarters, Department of the Army

**Automated Data Processing Equipment**

**(HQDA ADPE)**

**HQDA Tracking System Modernization**

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- **Contractor and Location**
- **Contract Method and Type**
- **Location of PCO**
- **Award Date**
- **Date of First Delivery**
- **QTY**
- **Unit Cost**
- **Specs Avail Now?**
- **Date Revn Avail**
- **RFP Issue Date**

**Remarks:** All quantities and unit costs vary by configuration and site. VAR-Multiple contracts awarded/delivered throughout the year; CAC-W-CECOM Acquisition Center-Washington; CECOM-Communication Electronics Command; DCCW-Defense Contracting Command Washington; DITCO-Defense Information Technology Contracting Organization; DOI-Department of Interior; GSA-General Services Administration; GSA FEDSIM-GSA Federal System Integration and Management Center; ISEC-Information Systems and Engineering Command; ITEC4-Information Technology E-Commerce and Commercial Contracting Center; NSA-National Security Agency; PNT IT-Pentagon Information Technology; SAIC - Science Applications International Corp; EDS - Electronic Data Systems
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**Army Model Improvement Program (AMIP)**

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**Housing Operations Management System (HOMES)** Hardware and Software

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**REMARKS:** All quantities and unit costs vary by configuration and site. VAR-Multiple contracts awarded/delivered throughout the year; CAC-W-CECOM Acquisition Center-Washington; CECOM-Communication Electronics Command; DCCW-Defense Contracting Command Washington; DITCO-Defense Information Technology Contracting Organization; DOI-Department of Interior; GSA-General Services Administration; GSA FEDSIM-GSA Federal System Integration and Management Center; ISEC-Information Systems and Engineering Command; ITEC4-Information Technology E-Commerce and Commercial Contracting Center; NSA-National Security Agency; PNT IT-Pentagon Information Technology; SAIC - Science Applications International Corp; EDS - Electronic Data Systems
### Pentagon Information Technology (IT) - Common IT (Renovation)

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**REMARKS:** All quantities and unit costs vary by configuration and site. VAR-Multiple contracts awarded/delivered throughout the year; CAC-W -CECOM Acquisition Center-Washington; CECOM-Communication Electronics Command; DCCW-Defense Contracting Command Washington; DITCO-Defense Information Technology Contracting Organization; DOI-Department of Interior; GSA-General Services Administration; GSA FEDSIM-GSA Federal System Integration and Management Center; ISECO-Information Systems and Engineering Command; ITEC4-Information Technology E-Commerce and Commercial Contracting Center; NSA-National Security Agency; PNT IT-Pentagon Information Technology; SAIC - Science Applications International Corp; EDS - Electronic Data Systems
## Exhibit P-5a, Budget Procurement History and Planning

**Appropriation/Budget Activity/Serial No:**
Other Procurement, Army / 2 / Communications and Electronics Equipment

**Weapon System Type:**
HQ MANAGEMENT INFORMATION SYSTEMS

**P-1 Line Item Nomenclature:**
BD3000 (BE4161)

### HQ MANAGEMENT INFORMATION SYSTEMS

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### Exhibit P-5a, Budget Procurement History and Planning

Appropriation/Budget Activity/Serial No:  
Other Procurement, Army / 2 / Communications and Electronics Equipment

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## Exhibit P-5a, Budget Procurement History and Planning

### Appropriation/Budget Activity/Serial No:
Other Procurement, Army / 2 / Communications and Electronics Equipment

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**Appropriation/Budget Activity/Serial No:** Other Procurement, Army / 2 / Communications and Electronics Equipment

**Weapon System Type:** P-1

**P-1 Line Item Nomenclature:** HQ MANAGEMENT INFORMATION SYSTEMS (BE4161)

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**Legal Automation Army-Wide System (LAAWS)**

| FY 2004            | IGOV                     | C/FP                     | DCCW, Washington, DC | MAY 04     | JUN 04                 |     | YES       | NO              |                |               |
| FY 2004            | Microbase Corp.          | C/FP                     | DCCW, Washington, DC | VAR        | VAR                   |     | YES       | NO              |                |               |
| FY 2005            | TBS                     | C/FP                     | TBS              | VAR        | VAR                   |     | YES       | NO              |                |               |
| FY 2006            | TBS                     | C/FP                     | TBS              | VAR        | VAR                   |     | YES       | NO              |                |               |
| FY 2007            | TBS                     | C/FP                     | TBS              | VAR        | VAR                   |     | YES       | NO              |                |               |

**Environmental Reporting Computing Infrastructure**

| FY 2007            | TBS                     | C/FP                     | TBS              | VAR        | VAR                   |     | YES       | NO              |                |               |

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### Description:
Funds support automation system requirements of Major Army Commands (MACOMs) and activities not included in other centrally managed programs. Funding has been programmed to accomplish high priority; high payoff initiatives that offer efficiencies and improvements in mission support and reduce operations and maintenance costs. Acquisitions will be accomplished primarily through standard requirements contracts.

### Justification:
**ARMY COMPUTING INFRASTRUCTURE (FORMERLY MAJOR ARMY COMMAND (MACOM) INFOSTRUCTURE AUTOMATION SYSTEMS):** This program supports installation and modernization of classified and unclassified local area networks and common user computing infrastructure. This includes the critical last 100 yards that connect users at all levels to the high-speed worldwide networks needed to sustain a reliable, interoperable enterprise infrastructure for access to Army Knowledge Portals and to support power projection and Army Transformation. The enterprise infrastructure provided by this program must be in place before a lighter, more sustainable force can be effectively deployed. These capabilities are essential to support a strategically responsive and dominant force and are needed to make critical information available to the warfighter in both garrison and deployed locations. The program focuses resources to sustain and modernize bases that support power projection and split-based operation as specified in Army doctrine and the National Military Strategy. The networks are being implemented in accordance with approved standards in the Joint Technical Architecture - Army (JTA-A) and the Installation Information Infrastructure Architecture (I3A) to ensure interoperability with all services in accordance with the Army Enterprise Strategy. FY06/07 funds will be used to engineer, furnish, install, test, and consolidate servers (e-mail, web, print, file, etc.) and to engineer, furnish, install, and test local area network cable, and associated computing components to ensure a consolidated infrastructure in accordance with the Army Knowledge Management (AKM) Strategic Plan and support mission requirements. Funding also procures program management.

**INSTALLATION SUPPORT MODULES (ISM):** ISMs are software applications that have been developed and standardized to perform the business functions at the installation or garrison level. These modules are based upon the functional processes accomplished by the installation Staffs. Presently the ISMs are operational throughout the Continental United States (CONUS) and Outside the Continental United States (OCONUS). Portable Operating Systems Interface for Computer Environments (POSIX)-compliant ISM servers perform application processing, database processing, and storage. The installations use Non-classified Internet Protocol Router Network (NIPRNET) backbones for long haul communications. Installation gateways connect installations to the long-haul network. Remote user access is accomplished through Terminal Server Access Controller System (TSACS) dial-in modems when required.

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The ISM is migrating to a regional server architecture that will support a graphical user interface, web-based user access, and a consolidated infrastructure in accordance with the AKM Strategic Plan. Theater Network Operations and Security Center (TNOSC), located at Ft. Huachuca, Arizona, manages the ISM network. It performs the Network and Systems Management (NSM) functions, provides general system configuration control, operates a 24/7 Helpdesk, provides user account management, and performs automated backups for ISM devices located at Army installations. FY06/07 procures data servers, web servers, and program management.

**ARMY ENTERPRISE ARCHITECTURE (AEA):** The AEA is a blueprint/framework/decision tool used to guide information technology investments, acquisitions, and fielding of integrated systems-of-systems capabilities. It supports Joint and Army information (technology) visions; architectures and plans designed to win the battlefield information war, and are based on operational needs and Joint/DoD/Coalition IT requirements. The AEA supports business process improvements and leverages information resources. AEA affects the development of all Army systems, including weapon systems, that use, produce, and exchange information electronically, and mandates the standards and protocols all systems must use to operate together as a digitized force with split-based operations and reachback capabilities. Beginning in FY06, requirements for this program will be funded in the Operation and Maintenance, Army appropriation.

**ARMY CONCEPT DEVELOPMENT EXPERIMENTATION PLAN:** The Army Concept Development and Experimentation Campaign Plan (ACDEP) is an adaptive approach along two simultaneous, parallel and supporting experimental paths. The Concept Development path is developing a concepts-based, coherently joint Future Force over time using live, virtual and constructive experimentation to explore, test, and demonstrate concepts and capabilities, using six foundational operational themes of the Army’s Future Force for focus to reduce risk to soldiers and investments for the future through actionable recommendations informing Doctrine, Organization, Training, Materiel, Leadership and Education, Personnel, and Facilities (DOTMLPF) decisions. The Prototyping path experiments using operational units, experimental units, and Combat Training Center Opposing Force (CTC OPFOR) to inform the future and spiral forward feasible Future Force capabilities to the Current Force to satisfy critical operational needs and test compelling technology. The ACDEP is completely nested in concept development and experimentation efforts of US Joint Forces Command (JFCOM) and serves to integrate a broad Army community of practice including battle labs, operational units, research labs, and materiel developers. The ACDEP requires the Battle Lab Collaborative Simulation Environment (BLCSE) to fully immerse the combined arms team in a synthetic environment without leaving their respective installations. The results of this combined arms team can be evaluated at a considerable cost and timesavings. This effort supports the Futures Center core mission function to design, develop and integrate into a Joint warfighting environment, from concept to capability, all aspects of the Future Force. FY06/07 procures infrastructure, communications links, collaborative tools, and distributed execution of models and simulations to support the ACDEP events.

**TRADOC INSTITUTIONAL ARMY BATTLE COMMAND SYSTEM (ABCS) TRAINING BASE:** The TRADOC Institutional ABCS Training Base educates future commanders, battle staffs, and soldiers to exploit the new digital capabilities on the battlefield. The ABCS concept integrates multiple battle systems for battlefield commanders from battalion to corps and builds the Common Tactical Picture (CTP) depicting the complete battle space picture control measures and friendly and enemy platforms near real time. Consistent with the ABCS, the training base consists of Global Command and Control System - Army (GCCS-A), Advanced Field Artillery Tactical Data System (AFATDS), All Source Analysis System (ASAS), Battle Command Sustainment Support System (BCS3), Army Missile Defense Warning System (AMDWS), Maneuver Control System (MCS), Force XXI Battle Command Battalion/Brigade and Below (FBCB2), and Tactical Airspace Information System (TAIS). This training base capability enables Army schools and training centers to create a networked ABCS learning environment to transition soldiers from analog to digital thinking and warfighting. FY06/07 procures servers to stand-up a baseline networked institutional training environment in selected TRADOC schools and centers that facilitates distributed collaborative training for digital operators/maintainers, information integrators, battle staffs, and command decision makers in the employment of ABCS capabilities.

**LEWIS AND CLARK CENTER:** Lewis and Clark is the intellectual center of the Army and will provide the education of Army Leaders what is absolutely critical to the success of the Army’s transformation, the Army’s future, and our national security.
The center will leverage advances in educational technology and learning environments to support both the current and future forces of the Army, sister services, and international officers. The automation and Information Technology (IT) assets required are for two of the most critical functions of the new building. The Network Operations Center (NOC) provides the critical technical link to ensure interoperability of the 96 classrooms, conference rooms, and auditoriums in the building. The large auditorium will service the resident class of 1,792 students and also be used by Ft. Leavenworth and local communities. It will host people from the highest levels of DoD and many of our national leaders as they visit and speak to the Command and General Staff College students. The IT property/infrastructure is the backbone that delivers functionality and connectivity to the new building and campus. FY06/07 procures the automation and infrastructure required to establish and operate the Lewis and Clark Center. It includes wires, network devices, and their internal components (internal infrastructure) that allow the myriad of computers, servers, printers, and video devices internal to the building.

TRAINING AIDS, DEVICES, SIMULATORS AND SIMULATIONS (TADSS)(FORMERLY THEATER SUPPORT VESSEL SIMULATOR): This program supports automated Training Aids, Devices, Simulators and Simulations (TADSS) requirements for TRADOC schools and activities not included in other centrally managed programs. TADSS provides the capability to conduct individual training throughout the active and reserve component, which enables the commanders to train individual operators, leaders and battle staffs across the full spectrum of operations, to include mission rehearsal through execution capabilities. FY06 procures TADSS such as but not limited to Motor Transport Operator Simulators, Land Mobile Trunk Radios, Microwave Systems Operator/Maintainer training simulation, Training Operations and Management, and the Theater Support Vessel Simulator. These systems replicate actual fielded conditions that are not routinely available for training and provide permanent capability to routinely train soldiers with “go to war” systems.

NETWORK ENTERPRISE TECHNOLOGY COMMAND (NETCOM)/9TH ARMY SIGNAL COMMAND (ASC) WORLD-WIDE SUPPORT MISSION: NETCOM's mission is to operate, manage, and defend the Army’s portion of the Global Information Grid (LandWarNet) as a single federated network supporting the Joint Concept of Operations Global Information grid network, and enable a synchronized computer network defense in conjunction with the Joint Task Force - Global Network Operations. This mission defends the Army’s information infrastructure at the enterprise level by establishing and leveraging network operations capabilities that offer efficiencies, improvements, and responsive support of warfighter Command, Control, Communications, Computers and Intelligence (C4I) requirements. These capabilities enable the plug and play nature of the forces in the transformed Army that will not just require but demand fully standardized and interoperable operations. This will provide NETCOM/9th ASC the capability to ensure the operational integration, timely provisioning and effective delivery of strategic, tactical, and installation information technology services critical to modular, expeditionary split-based operations and power projection. This capability will provide DoD, senior Army decision-makers, and the tactical warfighters key operational assessments of network awareness and anomalies to achieve true Information Superiority. FY06/07 procures Network Operations (NETOPS)/Computer Network Defense (CND) tool suites for NETCOM/9th ASC global Army Network Operations and Security Center (ANOSC), Theater Network Operations and Security Centers (TNOSCs) and strategic battalions. Includes implementing a set of standardized capabilities in support of the emerging Architecture and Transformation which supports Modularity Force Structure: Operate, Manage and Defend (OMD) Systems; Storage Technology Solution; Global Customer Relationship Management Solution; Network Common Relevant Operational Picture (NETCROP). These will enable the ANOSC, TNOSCs, and our strategic battalions the ability to “deploy” and “fight” the Army’s Network that must rapidly surge, flex, and respond to warfighter requirements at all echelons across the full spectrum of operations to successfully prosecute the Global War On Terrorism. To ensure the nation's security, the Army is transforming to create modular capabilities that can be tailored to respond to Regional Combatant Commanders needs, better employ joint capabilities, facilitate force packaging and rapid deployment, and fight as a self contained unit in a non-linear, non-contiguous battlespace.

ENTERPRISE BUSINESS INTELLIGENCE SYSTEM (EBIS): The implementation of business intelligence (BI) solution for the Army Materiel Command (AMC) leadership will provide alert notification, analysis, reporting, and decision support. EBIS will shore up identified gaps in the current architecture of the AMC enterprise.
MACOM AUTOMATION SYSTEMS (BE4162)

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<th>Other Related Program Elements:</th>
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This effort will seek to leverage on solutions implemented in other Army commands. The AMC functional community will use EBIS to control and integrate a multitude of disparate systems and information silos to provide the Commander and his supporting Leadership the data needed to conduct day-to-day business. FY06/07 procures expanded storage space at Ft. Belvoir, web servers to run the portal linked to Army Knowledge Online, and positions data in a Data Mart for retrieval and use.
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Exhibit P-5, Weapon OPA2 Cost Analysis

BD3000 (BE4162)
MACOM AUTOMATION SYSTEMS

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Exhibit P-5
Weapon System Cost Analysis
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### Exhibit P-5a, Budget Procurement History and Planning

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MACOM AUTOMATION SYSTEMS  
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Exhibit P-5a  
Procurement History and Planning
### Exhibit P-5a, Budget Procurement History and Planning

Appropriation/Budget Activity/Serial No: Other Procurement, Army / 2 / Communications and Electronics Equipment

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## Exhibit P-5a, Budget Procurement History and Planning

**Appropriation/Budget Activity/Serial No:**
Other Procurement, Army / 2 / Communications and Electronics Equipment

**Weapon System Type:**
MACOM AUTOMATION SYSTEMS

**P-1 Line Item Nomenclature:**
MACOM AUTOMATION SYSTEMS (BE4162)

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**REMARKS:** All quantities and unit costs vary by configuration and site.

VAR - Multiple contracts awarded/delivered throughout the year;
USAMRAA - USA Medical Research Acquisition Activity;
CDCC - Capital District Contracting Center;
DVAMC - Department of Veterans Affairs Medical Center;
MMS - Minerals Management Service;
NGB - National Guard Bureau;
ACA - Army Contracting Agency;
ITEC4 - Information Technology E-Commerce and Commercial Contracting Center;
12 CONS - 12th Contracting Squadron;
GTSI - Government Technology Services Incorporated;
DOI - Department of Interior;
GSA - General Services Administration;
DCMA - Defense Contract Management Agency;
NAVAIR-TSD - Naval Air Systems Command Training Systems Division;
FCBS - Family Computer Business System;
ISEC - Information System Engineering Command.
## Exhibit P-5a, Budget Procurement History and Planning

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<th>Contractor and Location</th>
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**REMARKS:** All quantities and unit costs vary by configuration and site.

VAR - Multiple contracts awarded/delivered throughout the year; USAMRAA - USA Medical Research Acquisition Activity; CDCC - Capital District Contracting Center; DVAMC - Department of Veterans Affairs Medical Center; MMS - Minerals Management Service; NGB - National Guard Bureau; ACA - Army Contracting Agency; ITEC4 - Information Technology E-Commerce and Commercial Contracting Center; 12 CONS - 12th Contracting Squadron; GTSI - Government Technology Services Incorporated; DOI - Department of Interior; GSA - General Services Administration; DCMA - Defense Contract Management Agency; NAVAIR-TSD - Naval Air Systems Command Training Systems Division; FCBS - Family Computer Business System; ISEC - Information System Engineering Command
### Description:
This budget line provides for procurement of Automated Data Processing Equipment (ADPE) for management information systems in the personnel community.

### Justification:
**PERSONNEL ENTERPRISE SYSTEM-AUTOMATION (PES-A):** PES-A is a multi-component system that supports the Active Army, Army National Guard Bureau, Army Reserve, and the Enlisted Records and Evaluation Center (EREC). It provides the integrated, automated infrastructure (hardware, software, and telecommunications) and support services for the Army Human Resources community. The infrastructure and technical support provided by PES-A is critical to the execution of the day-to-day operations for the Active Army and its components in terms of strength accounting, personnel movement, assignment actions, career management, training, recruiting, reenlistment, and mobilization. This strong and integrated infrastructure serves as the "backbone" for the applications to ensure that critical data and information is available at all times to Soldiers, Army leaders, the Department of Defense, and ultimately, Congress. FY06/07 procures equipment for life cycle replacement and modernization of mainframe components, client servers, network infrastructure and disaster recovery services.

**US MILITARY ENTRANCE PROCESSING COMMAND (MEPCOM) INTEGRATED RESOURCE SYSTEM AND DATA SERVICES:** MEPCOM Integrated Resource System (MIRS) and Data Services provide the automation and communications capability for USMEPCOM to meet its peacetime, mobilization and wartime military manpower accession mission for the Department of Defense (DoD) Armed Services. USMEPCOM MIRS is the only official DoD accession resource system that processes applicants and collects, stores, edits, and reports applicant and enlistment data on every US military candidate to determine physical, mental, and moral qualifications of new enlisted members for all the Armed Forces. It also supports the Windows-Based Computerized Adaptive Testing (WinCAT) for the Armed Services Vocational Aptitude Battery (ASVAB), a test which determines the applicant's mental abilities. As WinCAT transitions to an Internet-based Computerized Adaptive Testing (I-CAT) ASVAB, USMEPCOM requires automated equipment in the Military Entrance Processing Stations (MEPS) for confirmation tests and other special tests taken by applicants. I-CAT is expected to be accessed by over a million people per year, including applicants and high school students. The Data Services infrastructure provides automated resources to support MIRS, Headquarters, USMEPCOM, and its users including the Selective Service System (SSS) and the 65 MEPS throughout the United States. FY06/07 procures life cycle replacement of MIRS-dedicated equipment (terminals, PCs, peripherals), enterprise servers, Direct Access Storage Device (DASD)/Storage Area Network (SAN), tape drives, switches, peripherals, and other I-CAT requirements.

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### Appropriation/Budget Activity/Serial No:
Other Procurement, Army /2/Communications and Electronics Equipment
USMEPCOM INFORMATION TECHNOLOGY (IT) MODERNIZATION-VIRTUAL INTERACTIVE PROCESSING SYSTEM (VIPS): VIPS is a USMEPCOM transformation initiative that will provide a paperless global data exchange using modern technologies and incorporating greater functionality than the current MEPCOM Interactive Resource System (MIRS). It will continue to support the USMEPCOM mission of ensuring the mental, medical, and moral standards of applicants prior to enlistment. Core functions performed in support of this role include: aptitude testing, medical examinations, operational processing (identity verification, background screening, administering oath of enlistment), and data sharing/exchange. These functions will expand to include processing / workload scheduling, workflow monitoring, applicant tracking, records / files management (entrance / accession files), entrance processing / accession data analysis, and coordinating transportation of applicants from the Military Entrance Processing Stations (MEPS) to the training commands. FY06/07 procures equipment for technology demonstrations and proof of concepts for the System to Standard (StS) portion of the VIPS Program. StS is a Top of System Interface Program (TOSIP) initiative for fluid data exchange, e-Records (providing document scanning and retrieval capability at all 65 MEPS), and e-Security to verify applicant identity and tracking. Equipment required for StS includes but is not limited to dedicated servers, terminals, input devices, and peripherals (such as scanners and printers). VIPS will accommodate rapid automated changes, enabling DoD and the Armed Services to support virtual processing initiatives to ensure USMEPCOM supports the Nation’s all-volunteer warfighter requirement with the right person, in the right job, at the right time. VIPS is a transformation program that will enhance the timeliness of the accession process, improve data availability, and provide a synchronized front-end interface that maximizes the benefits of key DoD initiatives such as Defense Integrated Military Human Resource System (DIMHRS) and Composite Health Care System II (CHCS II).

US MILITARY ACADEMY (USMA) INFORMATION TECHNOLOGY: The USMA is an accredited institution of higher learning. Many non-DoD affiliations affect mission requirements, specifically, the Accreditation Board of Engineering and Technology, Middle States Accreditation Board, and Computer Science Accreditation Board. These accreditation efforts look at future plans for information technology. To maintain its accreditation standards and to instruct and prepare future Army leaders to operate in the sophisticated high-tech warfare depicted in Joint and Army Visions for 2010 and beyond, USMA must employ the latest technology in spaces where cadets, staff, and faculty congregate and collaborate such as the cadet barracks, administrative buildings, academic classrooms, and laboratories. FY06/07 procures hardware and software to support communications and computing technology infrastructure programs essential to every aspect of education, training, and command and control of the USMA and West Point Garrison. These include communications infrastructure, computer labs, upgraded classroom information technology, and shared automation facilities and resources that are critical to the mission of USMA. Also included are replacement computers and overhead projectors for academic laboratories in Thayer Hall.

ARMY CIVILIAN PERSONNEL REGIONALIZATION (ACPR): Army CPR effort supports the standardization of business processes in the civilian personnel functional area and regionalization of civilian personnel offices. ACPR procures automation infrastructure to support fielding of this DoD-wide system to Army activities receiving the DCPDS (Defense Civilian Personnel Data System) capability. DCPDS is a Mission Assurance Category (MAC) II system. Automation infrastructure fielded to Army activities consists of Open System Environment (OSE) compliant data and process servers, user workstations, system peripherals, communications infrastructure, and Commercial-Off-The-Shelf (COTS) software (operating system, database management systems, office automation, etc.), fielded to the central site at Rock Island Arsenal, eight Army Regional Service Centers (RSCs), more than 100 subordinate installation level Customer Support Units (CSUs), Civilian Human Resource Agency, Army Benefits Center-Civilian (ABC-C) at Ft. Riley, and the Headquarters at the Hoffman Building in Alexandria, Virginia. ACPR automation infrastructure is compatible with the DoD DCPDS application software, is centrally managed and integrates with the OSE architecture at Army sustaining base sites. Procurement strategy makes maximum use of existing contracts. FY06/07 procures equipment for Continuity of Operations (COOP) for the central site and Headquarters systems at the Hoffman Building, and equipment to achieve the MAC II level for the DCPDS infrastructure at the central site.

FY06/07 also procures partial lifecycle replacement of the Army unique applications servers at the Central site, Army Headquarters Systems and servers at the Army Benefits Center-Civilian (ABC-C).
### US ARMY ACCESSIONS COMMAND-INTEGRATED AUTOMATION ARCHITECTURE (AAC-IAA): The AAC-IAA provides critical automation support for our military accession missions which are conducted in the public and educational domains. The AAC-IAA provides enhanced automation capabilities to field recruiters and guidance counselors at Military Entrance Processing Stations (MEPS), for the Regular Army, Reserves, and Army National Guard recruiters and to other accessioning personnel for special missions. The AAC-IAA interfaces with Army personnel systems and provides essential data on applicants and newly enlisted soldiers. The architecture facilitates response to required changes from OSD/DA concerning Accession business processes; it reduces administrative tasks, and eliminates manual reports to leadership. Operationally, it captures information about applicants, supports sales presentations, supports electronic projection of applicant data to the MEPS, backs up data from the recruiter’s laptop, provides Continuity of Operations (COOP) for critical support systems, supports an electronic Daily Production Review (DPR) for Recruiting Station Commanders, maintains historical production data (data warehouse), produces numerous management reports and is the sole source for delivering leads to recruiters. The AAC-IAA data warehouse provides critical data storage and retrieval capabilities for mission and production analysis and is used to allocate valuable accessioning resources throughout the command. The AAC-IAA continues to use automation to leverage technology in aid of the U.S. Army Cadet Command (Officer Accession mission) and the U.S. Army Recruiting Command (Enlisted, Army Medical Department (AMEDD), and special missions) to meet accession goals. The AAC-IAA also provides the overarching support structure for our Cyber recruiting effort and Applicant Self processing (Army Career Explorer). The AAC-IAA is essential to the process of manning the future force. FY06/07 procures hardware and some software for lifecycle replacement of mission essential infrastructure to support the Non Army Enterprise Infrastructure (Non AEI) Community of Interest Network (COIN), and web-centric operations of the accessioning process. Funding also supports lifecycle replacement of the Remote Switching Unit (in direct support of the Accessions Command); continued operations and increasing load/storage requirements for the electronic enlistment packet workflow; lifecycle support for equipment used to route and store source documents; lifecycle support for electronic records management software and hardware systems to manage the workflow of the electronic content. Further, it provides support for data warehouse and business intelligence portal hardware and other system-wide automation infrastructure for accessioning operations consistent with Army Knowledge Management strategies and goals.

### ARMY ENTERPRISE HUMAN RESOURCE SYSTEM (eHRS). The eHRS supports the Personnel Transformation mission to develop, field, and sustain a relevant, reliable, reachable, Army-wide electronic Human Resource (HR) system using a web-based military/civilian, multi-component Enterprise approach for all HR functions. The Army eHRS is scheduled for Initial Operating Capability (IOC) in 2006 and Full Operating Capabilities (FOC) in 2007. This system is crucial to meet the needs for developing the necessary interfaces, standards, and gap analyses of the legacy systems for integration into the Defense Integrated Military Human Resource System (DIMHRS). FY05 funding was transferred to the STAMIS Tactical Computers (STACOMP) budget line. FY06/07 procures hardware and software required to integrate Army-specific functions into DIMHRS.
## OPA2 Cost Elements

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### US Military Entrance Processing Command

**Joint Computer Center Hardware/Software**

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**REMARKS:** All quantities and unit costs vary by configuration and site. VAR - Multiple contracts awarded/delivered throughout the year.

## Exhibit P-5a, Budget Procurement History and Planning

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### Exhibit P-5a, Budget Procurement History and Planning

**Appropriation/Budget Activity/Serial No:**
Other Procurement, Army / 2 / Communications and Electronics Equipment

**Weapon System Type:**
PERSONNEL AUTOMATION SYSTEMS

**P-1 Line Item Nomenclature:**
PERSONNEL AUTOMATION SYSTEMS (BE4164)

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**US Military Academy Information**

**Technology Hardware/Software**

| FY 2004 | Dell Marketing           | C/FP | DOC, West Point, NY | Jan 04 | Feb 04 | YES | NO |
|         | Round Rock, TX           |      |                    |        |        |     |    |
| FY 2004 | Audio Video Corp         | C/FP | DOC, West Point, NY | Jan 04 |        | YES | NO |
| FY 2004 | Agilent Technologies     | C/FP | DOC, West Point, NY | VAR   | VAR   | YES | NO |
| FY 2004 | CDW Government, Inc.     | C/FP | DOC, West Point, NY | VAR   | VAR   | YES | NO |
| FY 2004 | PlanetGov, Inc.          | C/FP | DOC, West Point, NY | Jan 04 | Feb 04 | YES | NO |
| FY 2004 | IGOV                     | C/FP | DOC, West Point, NY | Feb 04 | Sep 04 | YES | NO |
| FY 2004 | Logical Decisions        | C/FP | DOC, West Point, NY | Jan 04 | Mar 04 | YES | NO |
| FY 2004 | Intelleges, Inc.         | C/FP | DOC, West Point, NY | May 04 | May 04 | YES | NO |

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DCMA - Defense Contract Management Agency; DOC - Directorate of Contracting; CECOM - US Army Communications-Electronics Command;
CAC-W - US Army Communications-Electronics Command (CECOM) Acquisition Center-Washington; GSA - General Services Administration; GSA FEDISM - General Services Administration-Federal Systems Integration Management; GTSI - Government Technology Services, Inc.; NICP - Navy Inventory Control Point;
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**Exhibit P-5a, Budget Procurement History and Planning**

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## Exhibit P-5a, Budget Procurement History and Planning

### Appropriation/Budget Activity/Serial No:
Other Procurement, Army / 2 / Communications and Electronics Equipment

### Weapon System Type:
PERSONNEL AUTOMATION SYSTEMS (BE4164)

### P-1 Line Item Nomenclature:
PERSONNEL AUTOMATION SYSTEMS

### US Army Accessions Command
- **Integrated Automation Architecture (AAC-1AA)**
  - **FY 2004**
    - Contractor: Northrup Grumman
    - Location: Ft. Knox, KY
    - Method: C/FP
    - Cost Elements: US Army Accessions Command
  - **FY 2004**
    - Contractor: CDW Government, Inc.
    - Location: Vernon Hills, IL
    - Method: C/FP
  - **FY 2004**
    - Contractor: GTSI Corp.
    - Location: Chantilly, VA
    - Method: C/FP
  - **FY 2004**
    - Contractor: WorldWide Technology, Inc.
    - Location: St. Louis, MO
    - Method: C/FP
  - **FY 2004**
    - Contractor: Sun Microsystems
    - Location: McLean, VA
    - Method: C/FP
  - **FY 2005**
    - Contractor: TBS
    - Location: St. Louis, MO
    - Method: C/FP
  - **FY 2006**
    - Contractor: TBS
    - Location: St. Louis, MO
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  - **FY 2007**
    - Contractor: TBS
    - Location: St. Louis, MO
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### Army Enterprise Human Resource System (eHRS)
- **FY 2004**
  - Contractor: Booz Allen Hamilton
  - Location: McLean, VA
  - Method: C/FP

### WBS Cost Elements:
- **Contractor and Location**
- **Contract Method and Type**
- **Location of PCO**
- **Award Date**
- **Date of First Delivery**
- **QTY Each**
- **Unit Cost**
- **Specs Avail Now?**
- **Date Revn Avail**
- **RFP Issue Date**

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### Description:

This budget line funds automation initiatives that support transportation, cargo movement, and re-supply under the Army Strategic Mobility Program (ASMP), begun in part as a result of lessons learned from Operation Desert Shield/Storm and continuing with Operation Enduring Freedom and Operation Iraqi Freedom and the Congressionally mandated Mobility Requirements Study (MRS). The Army is changing its warfighting strategy from a forward deployed force to a Continental United States (CONUS) based force capable of rapid deployment worldwide. At the center of this strategy of rapid force movement are a number of transportation automated systems that facilitate/expedite force movement and re-supply.

### Justification:

**WORLDWIDE PORT SYSTEM (WPS):** WPS is a Military Surface Deployment and Distribution Command (SDDC) Automated Information System (AIS) essential to effective force projection, in transit visibility, and the Army's strategy for rapid power projection to meet unspecified threats. In support of the Army Strategic Mobility Program (ASMP), WPS provides movement control for unit equipment and sustainment cargo while in the transportation pipeline. WPS supports SDDC ocean terminals, US Navy port activities worldwide, Forces Command (FORSCOM) Reserve Component Transportation Terminal Units, and Active Component Automated Cargo Documentation Detachments with worldwide warfighting support missions. Compact and transportable, WPS substantially increases the ability of the Defense Transportation System to provide in transit visibility information to the warfighting Commanders and United States Transportation Command (USTRANSCOM), while reducing the personnel required to operate the system and the transportation required to deploy the system to remote places. WPS replaced four aging AIS that supported ocean terminal management and cargo documentation missions during peace and war. The planned procurements will complete equipping 15 new Port Management Teams (PMT) and 15 new Terminal Support Teams (TST) that require complete WPS system configurations to make these units operational and mission capable. FY06 procures minicomputers, workstations, line printers, carrying cases, Automated Identification Technology (AIT) devices, and other peripherals that comprise WPS system configurations to support activation of the 30 new PMT and TST units. FY07 procures technology refreshment hardware to ensure WPS is fully capable to meet mission support requirements.

**AUTOMATED AIR LOAD PLANNING SYSTEM (AALPS):** AALPS is a knowledge-based "expert system" that assists users with aircraft planning. AALPS uses an artificial intelligence methodology to load plan for aircraft in real time. The system takes data input of equipment and personnel, establishes gross load planning information, and quickly produces fully executable load plans for either a single mission, brigade-sized deployment or multiple division-sized airlifts. AALPS is an approved migration system. Although AALPS is a joint system, the Army is designated as the system proponent, responsible for developing, implementing, and fielding it to the Army, Marine Corps, Navy, and Air Force.
Army provides funding for Army sites only; the respective service proponent funds any unique functionality, hardware, and training. Beginning FY06, the AALPS program will be integrated into the Transportation Coordinators-Automated Information for Movement System II (TC-AIMS II) budget line.

INTEGRATED COMPUTERIZED DEPLOYMENT SYSTEM (ICODES): ICODES is a joint decision-support system developed to assist users with planning and executing the loading and stowage of military cargoes aboard military and commercial ships, rail cars, and trucks. ICODES enables users to track cargo movements from the fort through the port (onto the ship for stowage and into the port of debarkation). This application's supporting architecture incorporates service unique business practices and enables the joint community to easily produce, exchange, and interpret multi-modal cargo movement plans and reports through a single software application. Other features assist users by providing higher quality alternative solutions to complex loading and discharge problems. ICODES integrates multiple expert systems, knowledge bases, databases, and graphical user interfaces within a computer-based, distributed and cooperative operational environment. FY06/07 procures laptop computers, Universal Serial Bus (USB) memory sticks, and various printer/plotters for the 7th Group (Active Army, Army Reserve Units, and Army Transportation School) to augment aging systems with current Windows architecture.

IN TRANSIT VISIBILITY/AUTOMATIC IDENTIFICATION TECHNOLOGY (ITV/AIT): ITV/AIT is a suite of technologies that enables the automatic capture of source data rapidly and accurately, and enables the transfer of the data to Automated Information Systems (AIS) with little or no human intervention. It enhances the ability to identify, track, document, and control deployment and redeployment of forces, equipment, personnel, and sustainment cargo as it moves through the Defense Transportation System (DTS). ITV/AIT will streamline the Surface Deployment and Distribution Command (SDDC) business processes and enhance the Army's logistics and warfighting capability. The ITV/AIT devices will be integrated with other components of the Department of Defense (DoD) AIT infrastructure to improve interoperability. The planned procurement of Radio Frequency Identification (RFID) hardware supports the DoD mandate to instrument strategic ports and other key logistics nodes with RFID capability. FY06/07 procures hand held readers, interrogators, and business process servers for receiving, storing and forwarding ITV/AIT transactions.
### OPA2 Cost Elements

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- Worldwide Port System (WPS)
- Automated Air Load Planning System (AALPS)
- Integrated Computerized Deployment System (ICODES)
- Intransit Visibility/Automatic Identification Technology (ITV/AIT)
- Hazardous Substance Management System (HSMS)

All quantities and unit costs vary by configuration for all programs.

Total: 2987 FY 04, 2561 FY 05, 3244 FY 06, 3317 FY 07
### Exhibit P-5a, Budget Procurement History and Planning

**Appropriation/Budget Activity/Serial No:**
Other Procurement, Army / 2 / Communications and Electronics Equipment

**Weapon System Type:**
LOGISTICS AUTOMATION SYSTEMS

**P-1 Line Item Nomenclature:**
LOGISTICS AUTOMATION SYSTEMS [BE4166]

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**REMARKS:**
- All quantities and unit costs vary by configuration and site
- VAR - Multiple contracts awarded/delivered throughout the year
- SDDC-Surface Deployment and Distribution Command
- GTSI-Government Technology Services, Inc.
- CSC-Computer Sciences Corporation
- ACA - Army Contracting Agency
- APG - Aberdeen Proving Ground
- GSA FEDSIM-General Services Administration Federal Systems Integration and Management Center

**Date:** February 2005
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Intransit Visibility/Automatic Identification Technology (ITV/AIT)

| FY 2004           | Symbol Technologies, Inc. | C/FP | SDDC, Alexandria, VA | VAR       | VAR                   |     |           | YES            | NO             |                |
| FY 2005           | TBS                      | C/FP | TBS                  | VAR       | VAR                   |     |           | YES            | NO             |                |
| FY 2006           | TBS                      | C/FP | TBS                  | VAR       | VAR                   |     |           | YES            | NO             |                |
| FY 2007           | TBS                      | C/FP | TBS                  | VAR       | VAR                   |     |           | YES            | NO             |                |

Hazardous Substance Management System (HSMS)

| FY 2004           | GTSI                    | C/FP | ACA, APG, MD          | APR 04    | MAY 04                |     |           | YES            | NO             |                |

REMARKS: All quantities and unit costs vary by configuration and site
VAR - Multiple contracts awarded/delivered throughout the year
SDDC - Surface Deployment and Distribution Command
GTSI - Government Technology Services, Inc.
CSC - Computer Sciences Corporation
ACA - Army Contracting Agency
APG - Aberdeen Proving Ground
GSA FEDSIM - General Services Administration Federal Systems Integration and Management Center
Description:
RCAS is an automated information system (AIS) that provides the Army the capability to manage and mobilize Army National Guard and Army Reserve forces more effectively. The RCAS supports the full spectrum of Army Reserve Component operations and achieves information economies of scale and seamless interoperability through centralized data management; common interfaces and applications; shared, tailorable databases; and a standard, open systems architecture. The RCAS links over 57,000 PC-based workstations at 10,500 Guard and Reserve units at over 4,000 sites located in 54 states, territories, and the District of Columbia. With a favorable Milestone IIIg fielding decision, the Program completed system acquisition and is now focused on effective and efficient sustainment of the fielded system.

Justification:
FY06/07 procures replacement of the RCAS hardware infrastructure fielded to the Army's Reserve Components. The RCAS Acquisition Strategy focused on a combination of evolutionary and incremental development approaches to deliver hardware and software functionality to Reserve Component forces. The total solution satisfies user-validated requirements in the order of priority established by the Army National Guard and Army Reserve. Specifically, the RCAS provides mission essential functionality to support Title 10 functions of manning, equipping, training and sustaining the Army’s Reserve Component across 11 core mission functions (Logistics, Force Authorization, Training, Mobilization, Aviation, Facilities, Resource Management, Safety, Information Management, Internal Review, and Human Resources). During FY04, the Program successfully transitioned to the sustainment phase and is now focused on modernizing the Reserve Component infrastructure and maintaining functional software. In addition, the Program is coordinating with the Reserve Component to identify potential efficiencies in unit administration and mobilization planning processes.
## OPA2 Cost Analysis

### OPA2 Cost Elements

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Total

| | | 63216 | 48467 | 30819 | 28980 |
### RESERVE COMPONENT AUTOMATION SYS (RCAS) 573

**Provision History and Planning**

**Exhibit P-5a**

**Appropriation/Budget Activity/Serial No:** Other Procurement, Army / 2 / Communications and Electronics Equipment

**Weapon System Type:** RESERVE COMPONENT AUTOMATION SYS (RCAS) (BE4167)

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**Remarks:**

The RCAS is an integrated automated information system consisting of myriad Commercial-Off-The-Shelf (COTS) hardware components, e.g. telecommunications equipment, routers, PCs, printers, servicers, etc., all configured to support one RCAS.

FY04-07 ADP equipment (replacement category on P5) provides for replacement of hardware infrastructure. The dollar amounts identified will enable replacement of aging hardware infrastructure fielded earlier in the system's life cycle. Hardware replacement is programmed on a 5 year cycle.

Contract award dates for annual renewals of the base contract awarded in 1991. In FY03 the Project Management Office awarded a contract with Systems Research and Applications (SRA) that acquired a single system integrator to provide support during the sustainment phase of the system's lifecycle.
### Exhibit P-40, Budget Item Justification Sheet

**Appropriation/Budget Activity/Serial No:**
Other Procurement, Army /2/Communications and Electronics Equipment

**P-1 Item Nomenclature:**
AFRTS (BZ8480)

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#### Description:
The American Forces Radio & Television Service (AFRTS) provides American language broadcast services to Department of Defense (DoD) personnel and family members stationed overseas. AFRTS is the only mass communications support to overseas warfighting Combatant Commanders for dissemination of emergency, safety, and command information during peacetime, wartime, and Operations Other Than War (OOTW). AFRTS facilities operate 24 hours a day to broadcast radio and television programming to nearly 350,000 soldiers, sailors, airmen, marines, DoD civilians and family members in accordance with DoD Directive 5122.10. Overseas wartime operational Combatant Commanders consider AFRTS a "combat multiplier" and an essential "quality of life" issue for maintaining and enhancing the morale, readiness and well being of overseas troops, DoD personnel and their families. AFRTS has become increasingly important for dissemination of timely information as the Army shifts resources in support of contingency, peacekeeping and wartime operations. AFRTS provides the same type and quality of radio and television programming to personnel deployed overseas that are available to American citizens in the United States.

#### Justification:
FY 06/07 procures the life cycle replacement and upgrade of radio and television broadcast production, automation, transmission and distribution systems and procurement of Satellite Production Vehicle (SPV) systems for use in support of AFRTS current and contingency operations worldwide. The mass communications broadcast mission of AFRTS is not duplicated by the strategic communication mission of the Army or the other services. AFRTS is the only means of direct communication from the President of the United States through Combatant Commanders to US deployed forces worldwide. Plant-in-place broadcast equipment and mobile systems must remain flexible and capable to enable Commanders at every level to communicate time sensitive and relevant information to deployed forces and serve as a force multiplier during natural disasters, civil disturbances and declared and undeclared conflicts throughout the world.
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REMARKS: All quantities and unit costs vary by configuration and site.
DOI/NBC - Department of Interior/National Business Center
DMC - Defense Media Center
ARB - Air Reserve Base
ITA - Information Technology Agency, Department of the Army
OCPA - Office of the Chief, Public Affairs, Department of the Army
**Description:**

MULTIMEDIA/VISUAL INFORMATION SYSTEMS PROGRAM (M/VI SP): The M/VI SP is a centrally managed program that supports Multimedia/Visual (M/VI) processes for all Army regions and Headquarters, Department of the Army (HQDA) Direct Reporting Units (DRU's). Regionalization of M/VI processes is scheduled to be fully implemented by FY08. Each regional M/VI activity's equipment will be upgraded to include Hi-Definition field cameras systems, digital video/multimedia editing and audio suites, virtual studios, and web interfaces for customers to submit and track work orders, search and retrieve imagery from online data bases, and access print on demand systems.

COMBAT CAMERA: The combat camera mobile units, both regular Army and Reserve Component, are required to support theater headquarters and field units to accomplish digital motion video and still photo editing support of documentation of combat and combat support operations. This program merged with the M/VI SP in FY05.

**Justification:**

MULTIMEDIA/VISUAL INFORMATION SYSTEMS PROGRAM (M/VI SP): FY06/07 procures digital editing/audio suites, virtual studios, and similar upgrades, for each regional M/VI activity. The Army currently has approximately 100 individual M/VI activities that have the capability to produce video and/or multimedia products. Under the regionalization concept, the number of M/VI activities will be reduced 90 percent. Consolidating these capabilities and functions will enable the Army to concentrate on required equipment/system upgrades to ensure the same level of service and support to all Army customers. Regionalization will also enable the regional sites to assist one another, leveraging knowledge and expertise, and ultimately reducing training expenses.

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<th>Justification:</th>
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<td>MULTIMEDIA/VISUAL INFORMATION SYSTEMS PROGRAM (M/VI SP): The M/VI SP is a centrally managed program that supports Multimedia/Visual (M/VI) processes for all Army regions and Headquarters, Department of the Army (HQDA) Direct Reporting Units (DRU's). Regionalization of M/VI processes is scheduled to be fully implemented by FY08. Each regional M/VI activity's equipment will be upgraded to include Hi-Definition field cameras systems, digital video/multimedia editing and audio suites, virtual studios, and web interfaces for customers to submit and track work orders, search and retrieve imagery from online data bases, and access print on demand systems.</td>
<td>MULTIMEDIA/VISUAL INFORMATION SYSTEMS PROGRAM (M/VI SP): FY06/07 procures digital editing/audio suites, virtual studios, and similar upgrades, for each regional M/VI activity. The Army currently has approximately 100 individual M/VI activities that have the capability to produce video and/or multimedia products. Under the regionalization concept, the number of M/VI activities will be reduced 90 percent. Consolidating these capabilities and functions will enable the Army to concentrate on required equipment/system upgrades to ensure the same level of service and support to all Army customers. Regionalization will also enable the regional sites to assist one another, leveraging knowledge and expertise, and ultimately reducing training expenses.</td>
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### OPA2 Cost Elements

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Procurement actions consisting of one or more items of Visual Information Equipment. Individual items are listed in the VISP for year indicated. The Army maintains a priority listing.

Quantities and unit costs vary by configuration for all programs.
### Exhibit P-5a, Budget Procurement History and Planning

**Appropriation/Budget Activity/Serial No:** Other Procurement, Army / 2 / Communications and Electronics Equipment

**Weapon System Type:**

**P-1 Line Item Nomenclature:** Other Procurement, Army / 2 / Communications and Electronics Equipment

**ITEMS LESS THAN $5.0M (A/V) (BK5289)**

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**REMARKS:**

VAR* - M/VISP items are procured from contracts with a variety of manufacturers for various sites.

VAR - Award date and date of first delivery varies as items are procured from multiple of vendor contracts through the year. The Army CIO/G-6 maintains a priority listing in the M/VISP for years indicated.

DoD T-ASA - Department of Defense Television-Audio Support Activity, March Air Force Base

CECOM - U.S. Army Communications and Electronics Command

CIO/G-6 - Chief Information Officer/G-6
Description:
This budget line supports the procurement and upgrade of the Automated Integrated Survey Instrument (AISI) (both Long and Short versions), Digital Levels, Topographic Supplemental Survey Set, General Purpose Survey Set, Hydrographic Survey Set and the Sketch Set. This equipment supports the survey mission of both the Topographic and Construction Engineer. Capabilities provided by this equipment enable engineers to establish the geodetic control necessary to support Artillery (e.g., placement of weapons platforms), Aviation (e.g., aircraft registration, safety surveys) and Topographic support. Additionally, this equipment supports Construction Engineering surveys (e.g., roads, buildings, logistics sites, staging areas, airfield construction). Software functionality, included as part of this procurement, allows the user to accomplish the design work necessary for site design and construction (e.g., materiel calculations, labor, resources).

Justification:
FY 2006/2007 procures the Automated Integrated Survey Instrument (AISI) for National Guard and Army Reserve units. Additionally, funding initiates procurement of the Digital Levels (the modernization of existing automated levels) for Active Duty, Reserve and National Guard units.

<table>
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<td>Wpn Sys Proc U/C</td>
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</table>

FY 2006/2007 procures the Automated Integrated Survey Instrument (AISI) for National Guard and Army Reserve units. Additionally, funding initiates procurement of the Digital Levels (the modernization of existing automated levels) for Active Duty, Reserve and National Guard units.
**Exhibit P-40, Budget Item Justification Sheet**

**Appropriation/Budget Activity/Serial No:**
Other Procurement, Army /2/Communications and Electronics Equipment

**P-1 Item Nomenclature**
Weaponization of UAVs (B10300)

**Program Elements for Code B Items:**

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**Description:**
This funding addresses procurement of Installation Kits to include Pylons, Wiring, Hard Points, Mission Interface Units, and Mechanical Interfaces. Other Cost include: 1) Acceptance and Certification Testing. 2) Weapons Modification to support unique UAV Mission Profiles. 3) Mod Kits for Ground Assets. 4) Unique Support/Test Equipment. This enables the UAV to carry and employ weapons.

**Justification:**
FY 06 No Procurement
FY07 funding procures installation/support kits for UAV systems weaponization.
### OPA2 Cost Elements

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**TOTAL COST**

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**OPA2**  
**Other Procurement, Army / 2 / Weaponization of UAVs**  
**Communications and Electronics Equipment**  
**B10300**  
**Item No. 121 Page 2 of 4**
| Description: | This funding addresses procurement of Installation Kits to include Pylons, Wiring, Hard Points, Mission Interface Units, and Mechanical Interfaces. Other Cost include: 1) Acceptance and Certification Testing. 2) Weapons Modification to support unique UAV Mission Profiles. 3) Mod Kits for Ground Assets. 4) Unique Support/Test Equipment. This enables the UAV to carry and employ weapons. |
| Justification: | FY 06 No Procurement  
FY07 procures installation/support kits for UAV systems weaponization. |
| Program Elements for Code B Items: | | Code: | Other Related Program Elements: |
| Appropriation/Budget Activity/Serial No: | | | |
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| Other Procurement, Army /2/Communications and Electronics Equipment | Viper Strike (B10307) | | |
| Date: | | | |
| February 2005 |

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- **Installation Kits /Support Test Equip**

**TOTAL COST**

14959
### Description:
This program provides funding to establish, modernize, expand or replace Army-owned industrial facilities used in production testing of Communications and Electronic materiel. 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 generally 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 Electronic Proving Ground (EPG), Fort Huachuca, AZ.

### Justification:
FY06/07 procures: A real-time graphics data display system and range intercommunications system for the Instrumented Test Range which allows test officers and customers to collect data for post-test analysis and viewing test related information on the graphics workstation displays in real-time; upgrades to the current position location system used to track multiple ground targets during communications and electronics testing including new Global Positioning System (GPS) remote receivers and interfaces to recently acquired transponders, upgrades to transponders to accept GPS receiver input, new GPS reference receivers for differential corrections to improve accuracy and new software to integrate GPS capability into the ground computer; replacement signal generators, antennas and power amplifiers for electromagnetic interference testing; and instrumentation to monitor and record GPS interference signal levels (both intentional and unintentional) during Electronic Warfare testing. The majority of the instrumentation being upgraded or replaced is obsolete and has met or exceeded it's 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.

### Exhibit P-40, Budget Item Justification Sheet

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<th>Program Elements for Code B Items:</th>
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**Date:** February 2005