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| RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit) | DATE February 1999 |
|--|------------------------------|

| | |
|---|--|
| BUDGET ACTIVITY 7 - Operational System Development | PE NUMBER AND TITLE 0303131F Minimum Essential Emergency Communications Network (MEECN) |
|---|--|

| COST (\$ In Thousands) | FY 1998 Actual | FY 1999 Estimate | FY 2000 Estimate | FY 2001 Estimate | FY 2002 Estimate | FY 2003 Estimate | FY 2004 Estimate | FY 2005 Estimate | Cost to Complete | Total Cost |
|---------------------------------|----------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------|
| Total Program Element (PE) Cost | 28,865 | 38,788 | 45,907 | 15,438 | 2,995 | 2,459 | 2,052 | 2,097 | Continuing | Continuing |
| 2832 VLF/LF System Improvements | 11,741 | 23,338 | 22,102 | 2,743 | 1,458 | 1,187 | 1,466 | 1,511 | Continuing | Continuing |
| 4521 DIRECT | 17,124 | 3,340 | 1,184 | 1,248 | 1,145 | 881 | 293 | 293 | Continuing | Continuing |
| 4610 MEECN EHF | 0 | 12,110 | 22,621 | 11,447 | 392 | 391 | 293 | 293 | Continuing | Continuing |
| Quantity of RDT&E Articles | 0 | 7* 2/0** | 7* 4/0** | 0/4** | 0 | 0 | 0 | 0 | 0 | 0 |

(U) NOTES:

- Project 4521, DIRECT, was established to consolidate efforts related to DIRECT planned for accomplishment in PE 0603851F, ICBM Modernization Dem/Val (BPAC 1024, ICBM C2 Applications), PE 0604851F, ICBM Modernization EMD (BPAC 13C4, Strategic C4 Program), PE 0101213F, Minuteman Squadrons, and PE 0303131F, MEECN (BPAC 2832, VLF/LF Systems Improvements).
- *MMRT units **ILES units/trainers

(U) A. Mission Description

(U) MEECN systems provide assured communications connectivity between the National Command Authorities (NCA) and the strategic deterrent forces. Past MEECN projects included the High Power Transmit Set (HPTS), Ground Wave Emergency Network (GWEN), and Dual Frequency MEECN Receiver (DFMR). Current projects include the Modified Miniature Receive Terminal (MMRT) with High Data Rate (HIDAR) mode, the Defense Improved Emergency Message Automated Transmission System (IEMATS) Replacement Command and Control Terminals (DIRECT), and the ICBM LCC Extremely High Frequency (EHF) System (ILES) component of MEECN EHF.

(U) B. Budget Activity Justification:

(U) This program is in Budget Activity 7 - Operational System Development, because it supports work on currently operating systems.

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| RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit) | | | | | DATE February 1999 |
| BUDGET ACTIVITY 7 - Operational System Development | | | PE NUMBER AND TITLE 0303131F Minimum Essential Emergency Communications Network (MEECN) | | |
| (U) C. <u>Program Change Summary (\$ in Thousands)</u> | | | | | |
| | <u>FY 1998</u> | <u>FY 1999</u> | <u>FY 2000</u> | <u>FY 2001</u> | <u>Total Cost</u> |
| (U) Previous President's Budget (FY 1999 PB) | 32,399 | 39,230 | 44,743 | 13,332 | Continuing |
| (U) Appropriated Value | 34,409 | 39,230 | | | |
| (U) Adjustments to Appropriated Value | | | | | |
| a. Cong Reductions | -1,236 | -442 | | | |
| b. SBIR | -778 | | | | |
| c. Actuals Reductions | -886 | | | | |
| d. Below Threshold Reprogramming | -2,644 | | | | |
| (U) Adjustments to Budget Years Since FY 1999 PB | | | 1,164 | 2,106 | |
| (U) Current Budget Submit/FY 2000 President's Budget | 28,865 | 38,788 | 45,907 | 15,438 | Continuing |
| (U) Significant Program Changes: | | | | | |
| FY98 E-4 cancelled bill reduced funds by \$2,644 deferring MMRT airborne airworthiness testing and certification. Deferred content moved to FY00/01. | | | | | |
| FY99 \$1,232 identified as a source for SBIR. | | | | | |

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| RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2A Exhibit) | | | | | | | | DATE February 1999 | | |
| BUDGET ACTIVITY 7 - Operational System Development | | | | PE NUMBER AND TITLE 0303131F Minimum Essential Emergency Communications Network (MEECN) | | | | | PROJECT 2832 | |
| <i>COST (\$ In Thousands)</i> | FY 1998 Actual | FY 1999 Estimate | FY 2000 Estimate | FY 2001 Estimate | FY 2002 Estimate | FY 2003 Estimate | FY 2004 Estimate | FY 2005 Estimate | Cost to Complete | Total Cost |
| 2832 VLF/LF System Improvements | 11,741 | 23,338 | 22,102 | 2,743 | 1,458 | 1,187 | 1,466 | 1,511 | Continuing | Continuing |
| <p>(U) A. <u>Mission Description</u></p> <p>(U) The Modified Miniature Receive Terminal (MMRT) Program will modify existing Miniature Receive Terminals (MRTs) and provide High Data Rate (HIDAR) capability for installation on the following platforms as a minimum: the E-4B, National Airborne Operations Center (NAOC); and the E-6B, Take Charge and Move Out (TACAMO). This program will make VLF/LF receivers fully interoperable. MRT is a Very Low Frequency/Low Frequency (VLF/LF) receiver without HIDAR already designed, developed, and installed on the B-1B and B-52H bombers. The MRTs for the MMRT program will be removed from the B-1Bs and some retired B-52s.</p> <p>(U) ICBM Launch Control Center (LCC) VLF/LF RDT&E and Production tasks are being combined with the MEECN EHF (ILES) effort contractually. The combined program will be referred to as the Minuteman MEECN Program (MMP). The ICBM Prime Integrating Contract (through OO-ALC) will be used as a contracting vehicle. Requirements, estimates and schedules remain the same as previously briefed.</p> <p>(U) HIDAR is a Joint Staff-directed effort to provide a fast and interoperable MEECN mode. This program will develop and test modifications required to retrofit current MEECN platforms with the HIDAR software and firmware.</p> <p>(U) High Power Transmit Set (HPTS) was a joint Air Force and Navy Program to provide the E-4B and the E-6B aircraft with an improved and supportable VLF transmission capability. HPTS completed development phase in 2Qtr FY95. Procurement for the E-4B is under Departmental review.</p> <p>(U) <u>FY 1998 (\$ in Thousands):</u></p> <ul style="list-style-type: none"> - (U) \$10,469 Continued common MMRT and airborne integration development - (U) \$204 Secondary VLF/LF Link study/analysis - (U) \$1,068 Continuing Evaluation Program (CEP)/Studies and Analysis - (U) \$11,741 Total | | | | | | | | | | |
| Project 2832 | | | Page 3 of 17 Pages | | | | Exhibit R-2A (PE 0303131F) | | | |

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| RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2A Exhibit) | | | | | | | DATE February 1999 | | | | | | | | | | | | | | | | | | | | | | | |
|---|----------------|----------------|--------------------|--|----------------|----------------------------|-------------------------------|----------------|---------------------------|-----------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|---------------------------|-----------------------------|---|---|---|--------|--------|-------|-------|---|---|---|--------|
| BUDGET ACTIVITY 7 - Operational System Development | | | | PE NUMBER AND TITLE 0303131F Minimum Essential Emergency Communications Network (MEECN) | | | PROJECT 2832 | | | | | | | | | | | | | | | | | | | | | | | |
| <p>(U) <u>FY 1999 (\$ in Thousands):</u></p> <ul style="list-style-type: none"> - (U) \$8,730 Continue common MMRT and airborne integration development - (U) \$3,100 MMRT Testing - (U) \$1,367 Continuing Evaluation Program (CEP)/Studies and Analysis - (U) \$9,400 Re-start ICBM LCCs VLF/LF integration and development (part of MMP) - (U) \$741 Identified as a source for SBIR - (U) \$23,338 Total <p>(U) <u>FY 2000 (\$ in Thousands):</u></p> <ul style="list-style-type: none"> - (U) \$5,000 Continue common MMRT and airborne integration development - (U) \$2,091 MMRT airworthiness and nuclear certification - (U) \$1,411 Continuing Evaluation Program (CEP)/Studies and Analysis - (U) \$13,600 ICBM LCC VLF/LF integration and development (part of MMP) - (U) \$22,102 Total <p>(U) <u>FY 2001 (\$ in Thousands):</u></p> <ul style="list-style-type: none"> - (U) \$1,433 MMRT airworthiness and nuclear certification - (U) \$1,310 Continuing Evaluation Program (CEP)/Studies and Analysis - (U) \$2,743 Total <p>(U) B. <u>Project Change Summary - Description of Significant Changes:</u></p> <p>(U) ICBM LCC VLF/LF integration and development was accelerated by one year to avoid the costs of continued Survivable Low Frequency Communications System (SLFCS) sustainment. FY99-03 adjusted accordingly. MMRT airworthiness and nuclear certifications were deferred in FY98 and funds were added in FY00-01.</p> <p>(U) C. <u>Other Program Funding Summary (\$ in Thousands):</u></p> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 60%;"></th> <th style="text-align: center;"><u>FY 1998</u></th> <th style="text-align: center;"><u>FY 1999</u></th> <th style="text-align: center;"><u>FY 2000</u></th> <th style="text-align: center;"><u>FY 2001</u></th> <th style="text-align: center;"><u>FY 2002</u></th> <th style="text-align: center;"><u>FY 2003</u></th> <th style="text-align: center;"><u>FY 2004</u></th> <th style="text-align: center;"><u>FY 2005</u></th> <th style="text-align: center;"><u>To</u> <u>Compl</u></th> <th style="text-align: center;"><u>Total</u> <u>Cost</u></th> </tr> </thead> <tbody> <tr> <td>(U) APPN 10, Aircraft Procurement - AF, (MEECN, PE 0303131F)</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td style="text-align: center;">10,047</td> <td style="text-align: center;">19,029</td> <td style="text-align: center;">7,441</td> <td style="text-align: center;">1,549</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td style="text-align: center;">38,066</td> </tr> </tbody> </table> | | | | | | | | | | <u>FY 1998</u> | <u>FY 1999</u> | <u>FY 2000</u> | <u>FY 2001</u> | <u>FY 2002</u> | <u>FY 2003</u> | <u>FY 2004</u> | <u>FY 2005</u> | <u>To</u> <u>Compl</u> | <u>Total</u> <u>Cost</u> | (U) APPN 10, Aircraft Procurement - AF, (MEECN, PE 0303131F) | 0 | 0 | 10,047 | 19,029 | 7,441 | 1,549 | 0 | 0 | 0 | 38,066 |
| | <u>FY 1998</u> | <u>FY 1999</u> | <u>FY 2000</u> | <u>FY 2001</u> | <u>FY 2002</u> | <u>FY 2003</u> | <u>FY 2004</u> | <u>FY 2005</u> | <u>To</u> <u>Compl</u> | <u>Total</u> <u>Cost</u> | | | | | | | | | | | | | | | | | | | | |
| (U) APPN 10, Aircraft Procurement - AF, (MEECN, PE 0303131F) | 0 | 0 | 10,047 | 19,029 | 7,441 | 1,549 | 0 | 0 | 0 | 38,066 | | | | | | | | | | | | | | | | | | | | |
| Project 2832 | | | Page 4 of 17 Pages | | | Exhibit R-2A (PE 0303131F) | | | | | | | | | | | | | | | | | | | | | | | | |

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|---|---|----------------|---|--------------------|---|---|---|----------------------------|---|----------------|---|------------------------------|---|----------------|---|---|
| RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2A EXHIBIT) | | | | | | | | | | | | DATE February 1999 | | | | |
| BUDGET ACTIVITY 7 - Operational System Development | | | | | | PE NUMBER AND TITLE 0303131F Minimum Essential Emergency Communications Network (MEECN) | | | | | | PROJECT 2832 | | | | |
| Related PEs: (U) None. | | | | | | | | | | | | | | | | |
| <p>Note: PE 0101213F, Minuteman Squadrons (MMIII Modifications), BA-07, P-013 contains the ICBM LCC VLF/LF Receiver procurement funds for the EMD tasks being combined with the MEECN EHF program (Previously identified with this project). Future references will be made in BPAC 4610 exclusively.</p> | | | | | | | | | | | | | | | | |
| (U) D. Acquisition Strategy: | | | | | | | | | | | | | | | | |
| <p>(U) Modified Miniature Receive Terminal (MMRT) Program. Program to satisfy both the Air Force and Navy requirements via a joint effort with the Air Force Electronics Systems Center, Hanscom AFB, MA, as the lead agency. Modifies existing Miniature Receive Terminals (MRTs). EMD contract awarded in FY96 for three platforms: the E-4B (National Airborne Operations Center (NAOC)); E-6B (Take Charge and Move Out (TACAMO)); and an option for the ICBM Launch Control Centers (LCCs). Airborne MMRT production contract award planned for FY00. Deployment of airborne Air Force and Navy MMRT units will be complete by 2003. Limited ICBM LCC EMD option was exercised in 2QtrFY97 with balance of EMD to be restarted in FY99. Remaining ICBM LCC VLF/LF EMD tasks and production will be coupled with the MEECN EHF (ILES) effort contractually. The combined program will be referred to as the Minuteman MEECN Program (MMP). The ICBM Prime Integrating Contract (through OO-ALC) will be used as a contracting vehicle. Requirements, estimates and schedules remain the same as previously briefed.</p> | | | | | | | | | | | | | | | | |
| (U) E. Schedule Profile | | | | | | | | | | | | | | | | |
| | | <u>FY 1998</u> | | | | <u>FY 1999</u> | | | | <u>FY 2000</u> | | | | <u>FY 2001</u> | | |
| | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 |
| (U) MMRT EMD | | | | | | | | | | | | | | | | |
| (U) EMD for Aircraft | | | | | | | | | | | | | | X | | |
| (U) EMD for ICBM LCCs (Phase 1) | | | | | | | | X | | | | | | | | |
| (U) CDR | X | | | | | | | | | | | | | | | |
| (U) A/C IOT&E | | | | | | | | * | | | | | | X | | |
| (U) Milestone III Decision | | | | | | | | | | | | | | X | | |
| (U) EMD for ICBM LCC VLF/LF(Phase 2)** | | | | | | | | * | | | | | | | | |
| * Indicates task start/X Indicates task completion | | | | | | | | | | | | | | | | |
| **VLF/LF tasks combined contractually with MEECN EHF (ILES). | | | | | | | | | | | | | | | | |
| Project 2832 | | | | Page 5 of 17 Pages | | | | Exhibit R-2A (PE 0303131F) | | | | | | | | |

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| RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3) | | | | | | | | | | DATE February 1999 | |
|--|---|--------------------------|-------------------------|--------------------|---|----------------|----------------|----------------|---------------------------|------------------------|---------------|
| BUDGET ACTIVITY 7 - Operational System Development | | | | | PE NUMBER AND TITLE 0303131F Minimum Essential Emergency Communications Network (MEECN) | | | | | PROJECT 2832 | |
| (U) A. <u>Project Cost Breakdown (\$ in Thousands)</u> | | | | | | | | | | | |
| | | | | | <u>FY 1998</u> | <u>FY 1999</u> | <u>FY 2000</u> | <u>FY 2001</u> | | | |
| (U) | Prime Contract | | | | 7,430 | 7,830 | 5,000 | 1,250 | | | |
| (U) | ICBM VLF/LF Development | | | | 0 | 9,400 | 13,600 | 0 | | | |
| (U) | Test | | | | | | | | | | |
| (U) | Air Force | | | | 204 | 0 | 0 | 0 | | | |
| (U) | Navy | | | | 1,564 | 3,100 | 1,100 | 0 | | | |
| (U) | Program Management Administration (PMA) | | | | 484 | 300 | 691 | 63 | | | |
| (U) | SE/TA | | | | 505 | 600 | 300 | 120 | | | |
| (U) | MITRE | | | | 131 | 0 | 0 | 0 | | | |
| (U) | CEP/Studies and Analysis | | | | 1,068 | 1,367 | 1,411 | 1,310 | | | |
| (U) | ALC Support | | | | 355 | 0 | 0 | 0 | | | |
| (U) | Identified as a source for SBIR | | | | 0 | 741 | 0 | 0 | | | |
| (U) | Total | | | | 11,741 | 23,338 | 22,102 | 2,743 | | | |
| (U) B. <u>Budget Acquisition History and Planning Information (\$ in Thousands)</u> | | | | | | | | | | | |
| Performing Organizations: | | | | | | | | | | | |
| Contractor or Government Performing Activity | Contract Method/Type or Funding Vehicle | Award or Obligation Date | Performing Activity EAC | Project Office EAC | Total Prior to FY 1998 | Budget FY 1998 | Budget FY 1999 | Budget FY 2000 | Budget FY 2001 | Budget to Complete | Total Program |
| Identified as a source for SBIR | | | | | | | 741 | | | | |
| Product Development Organizations | | | | | | | | | | | |
| Rockwell | CPAF | Aug 92 | 13,500 | 13,500 | 13,500 | 0 | 0 | 0 | 0 | 0 | 13,500 |
| Rockwell | CPAF | Jul 96 | 44,204 | 44,204 | 26,406 | 7,430 | 7,830 | 5,000 | 1,250 | Continuing | Continuing |
| TRW | CPAF | 2QtrFY99 | n/a | n/a | 0 | 0 | 9,400 | 13,600 | 0 | 0 | 23,000 |
| Project 2832 | | | | | Page 6 of 17 Pages | | | | Exhibit R-3 (PE 0303131F) | | |

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| RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3) | | | | | | | DATE February 1999 | | |
|--|---------|--------|--|----------------|----------------|----------------|-----------------------|---------------------------|----------------------|
| BUDGET ACTIVITY | | | PE NUMBER AND TITLE | | | | | PROJECT | |
| 7 - Operational System Development | | | 0303131F Minimum Essential Emergency Communications Network (MEECN) | | | | | 2832 | |
| <u>Support and Management Organizations</u> | | | | | | | | | |
| SE/TA [SRC, ASEC, MCR ATT, ANSER] | LOE | Annual | 1,437 | 505 | 600 | 300 | 120 | Continuing | Continuing |
| MITRE | LOE | Annual | | 131 | 0 | 0 | 0 | Continuing | Continuing |
| PMA | Various | Annual | | 484 | 300 | 691 | 63 | Continuing | Continuing |
| SPAWAR | MIPR | Annual | | 1,068 | 1,367 | 1,411 | 1,310 | Continuing | Continuing |
| SysCen (CEP) | | | | | | | | | |
| ALCs | MIPR | Annual | | 355 | 0 | 0 | 0 | 0 | 355 |
| <u>Test and Evaluation Organizations</u> | | | | | | | | | |
| NavAir Warfare Center | MIPR | Annual | 390 | 1,564 | 3,100 | 1,100 | 0 | 0 | 6,154 |
| Air Force | MIPR | Annual | | 204 | 0 | 0 | 0 | 0 | 204 |
| Government Furnished Property: None. | | | | | | | | | |
| | | | Total | | | | | | |
| | | | Prior to | | | | | | |
| | | | <u>FY 1998</u> | <u>FY 1998</u> | <u>FY 1999</u> | <u>FY 2000</u> | <u>FY 2001</u> | <u>Budget to Complete</u> | <u>Total Program</u> |
| Identified as a source for SBIR | | | | | 741 | | | | |
| Subtotal Product Development | | | 39,906 | 7,430 | 17,230 | 18,600 | 1,250 | Continuing | Continuing |
| Subtotal Support and Management | | | 1,437 | 2,543 | 2,267 | 2,402 | 1,493 | Continuing | Continuing |
| Subtotal Test and Evaluation | | | 390 | 1,768 | 3,100 | 1,100 | 0 | 0 | 6358 |
| Total Project | | | 41,733 | 11,741 | 23,338 | 22,102 | 2,743 | Continuing | Continuing |

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| RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2A EXHIBIT) | | | | | | | | DATE February 1999 | | |
| BUDGET ACTIVITY 7 - Operational System Development | | | | PE NUMBER AND TITLE 0303131F Minimum Essential Emergency Communications Network (MEECN) | | | | PROJECT 4521 | | |
| <i>COST (\$ In Thousands)</i> | FY 1998 Actual | FY 1999 Estimate | FY 2000 Estimate | FY 2001 Estimate | FY 2002 Estimate | FY 2003 Estimate | FY 2004 Estimate | FY 2005 Estimate | Cost to Complete | Total Cost |
| 4521 DIRECT | 17,124 | 3,340 | 1,184 | 1,248 | 1,145 | 881 | 293 | 293 | Continuing | Continuing |
| <p>NOTE: This project was established in Jan 96 to consolidate efforts related to DIRECT currently planned for accomplishment in PE 0603851F, ICBM Modernization Dem/Val (BPAC 1024, ICBM C2 Applications), PE 0604851F, ICBM Modernization EMD (BPAC 13C4, Strategic C4 Program), PE 0101213F, Minuteman Squadrons, and 0303131F, MEECN (BPAC 2832, VLF/LF System Improvements).</p> <p>(U) A. Mission Description</p> <p>(U) The Defense IEMATS Replacement Command and Control Terminals (DIRECT), which is the Improved Emergency Message Automated Transmission System (IEMATS) replacement program, is a Strategic Nuclear Command and Control (C2) system directly supporting the Chairman of the Joint Chiefs of Staff (CJCS) and the National Command Authorities (NCA). DIRECT will provide for all current IEMATS requirements, including the build, release, and transmission of Emergency Action Messages (EAM) to allow the CJCS and warfighters to remain responsive to NCA directives. This program will procure system hardware for seven unified command centers, a software maintenance facility and two alternate command centers. DIRECT will be compatible with the Defense Message System (DMS) when it supplants the Automated Digital Network (AUTODIN) and will interface with all other EAM distribution communications systems. AUTODIN is scheduled for closure not later than the end of calendar year 1999. The Director, Joint Staff, established an urgent and compelling need to field an IEMATS replacement system no later than second quarter FY99 to insure the orderly closure of AUTODIN Switching Centers (ASC).</p> <p>(U) Automated Codebook Module (ACM), a time-saving electronic version of current paper codebooks, is an unfunded objective requirement planned for development by the National Security Agency (NSA).</p> <p>(U) <u>FY 1998 (\$ in Thousands):</u></p> <ul style="list-style-type: none"> - (U) \$16,831 Continued DIRECT Engineering and Manufacturing Development (EMD) - (U) \$0 Automated Codebook Module - (U) \$293 Continuing Evaluation Program (CEP)/Studies and Analysis - (U) \$17,124 Total <p>(U) <u>FY 1999 (\$ in Thousands):</u></p> <ul style="list-style-type: none"> - (U) \$3,110 Continue DIRECT Engineering and Manufacturing Development (EMD) - (U) \$0 Automated Codebook Module (ACM) - (U) \$230 Continuing Evaluation Program (CEP)/Studies and Analysis - (U) \$3,340 Total | | | | | | | | | | |
| Project 4521 | | | Page 8 of 17 Pages | | | | Exhibit R-2A (PE 0303131F) | | | |

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| BUDGET ACTIVITY 7 - Operational System Development | | | | PE NUMBER AND TITLE 0303131F Minimum Essential Emergency Communications Network (MEECN) | | | PROJECT 4521 | | | | | | | | | | | | | | | | | | | | | | |
| <p>(U) <u>FY 2000 (\$ in Thousands):</u></p> <ul style="list-style-type: none"> - (U) \$934 DIRECT EMD - (U) \$250 Continuing Evaluation Program (CEP)/Studies and Analysis - (U) \$1,184 Total <p>(U) <u>FY 2001 (\$ in Thousands):</u></p> <ul style="list-style-type: none"> - (U) \$1,000 DIRECT/DMS Interface EMD - (U) \$248 Continuing Evaluation Program (CEP)/Studies and Analysis - (U) \$1,248 Total <p>(U) B. <u>Project Change Summary - Description of Significant Changes:</u></p> <p>(U) Automated Codebook Module work was indefinitely deferred due to reprogramming for higher priorities. Deferred DIRECT/DMS interface development was re-planned to begin in FY01.</p> <p>(U) C. <u>Other Program Funding Summary (\$ in Thousands):</u></p> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 70%;"></th> <th style="text-align: center;"><u>FY 1998</u></th> <th style="text-align: center;"><u>FY 1999</u></th> <th style="text-align: center;"><u>FY 2000</u></th> <th style="text-align: center;"><u>FY 2001</u></th> <th style="text-align: center;"><u>FY 2002</u></th> <th style="text-align: center;"><u>FY 2003</u></th> <th style="text-align: center;"><u>FY 2004</u></th> <th style="text-align: center;"><u>FY 2005</u></th> <th style="text-align: center;"><u>To</u> <u>Compl</u></th> <th style="text-align: center;"><u>Total</u> <u>Cost</u></th> </tr> </thead> <tbody> <tr> <td>(U) APPN 16, Other Procurement - AF, BA-63, P-052, Electronics and Telecommunications Equip (MEECN, PE 0303131F)</td> <td style="text-align: center;">11,546</td> <td style="text-align: center;">1,541</td> <td style="text-align: center;">5,168</td> <td style="text-align: center;">1,600</td> <td style="text-align: center;">2,100</td> <td style="text-align: center;">1,100</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td style="text-align: center;">23,055</td> </tr> </tbody> </table> <p><u>Related PEs:</u> (U) None.</p> | | | | | | | | | <u>FY 1998</u> | <u>FY 1999</u> | <u>FY 2000</u> | <u>FY 2001</u> | <u>FY 2002</u> | <u>FY 2003</u> | <u>FY 2004</u> | <u>FY 2005</u> | <u>To</u> <u>Compl</u> | <u>Total</u> <u>Cost</u> | (U) APPN 16, Other Procurement - AF, BA-63, P-052, Electronics and Telecommunications Equip (MEECN, PE 0303131F) | 11,546 | 1,541 | 5,168 | 1,600 | 2,100 | 1,100 | 0 | 0 | 0 | 23,055 |
| | <u>FY 1998</u> | <u>FY 1999</u> | <u>FY 2000</u> | <u>FY 2001</u> | <u>FY 2002</u> | <u>FY 2003</u> | <u>FY 2004</u> | <u>FY 2005</u> | <u>To</u> <u>Compl</u> | <u>Total</u> <u>Cost</u> | | | | | | | | | | | | | | | | | | | |
| (U) APPN 16, Other Procurement - AF, BA-63, P-052, Electronics and Telecommunications Equip (MEECN, PE 0303131F) | 11,546 | 1,541 | 5,168 | 1,600 | 2,100 | 1,100 | 0 | 0 | 0 | 23,055 | | | | | | | | | | | | | | | | | | | |
| Project 4521 | | Page 9 of 17 Pages | | | Exhibit R-2A (PE 0303131F) | | | | | | | | | | | | | | | | | | | | | | | | |

| | | |
|---|--|-------------------------------|
| RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2A Exhibit) | | DATE February 1999 |
| BUDGET ACTIVITY 7 - Operational System Development | PE NUMBER AND TITLE 0303131F Minimum Essential Emergency Communications Network (MEECN) | PROJECT 4521 |

D. Acquisition Strategy:

(U) DIRECT Program. A contract for EMD was awarded to GTE Government Systems, Needham, MA on 12 Jul 96. A contract modification for production was awarded 11 Aug 98.

(U) E. Schedule Profile

| | <u>FY 1998</u> | | | | <u>FY 1999</u> | | | | <u>FY 2000</u> | | | | <u>FY 2001</u> | | | |
|-------------------------------------|----------------|---|---|---|----------------|---|---|---|----------------|---|---|---|----------------|---|---|---|
| | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 |
| (U) DIRECT EMD | | | | | | | | | | | | | | | | |
| (U) Development Test and Evaluation | | | | | | | X | | | | | | | | | |
| (U) CDR | | X | | | | | | | | | | | | | | |
| (U) Functional Qual Test | | | | | | * | X | | | | | | | | | |
| (U) Required DIRECT RAA | | | | | | | | X | | | | | | | | |
| (U) DIRECT/DMS Interface EMD | | | | | | | | | | | | | * | | | |
| (U) DIRECT Procurement | | | | * | | | | | | | | | | | | |

* Indicates task start/X indicates task completion

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| RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3) | DATE February 1999 |
|---|------------------------------|

| | | |
|--|---|------------------------|
| BUDGET ACTIVITY 7 - Operational System Development | PE NUMBER AND TITLE 0303131F Minimum Essential Emergency Communications Network (MEECN) | PROJECT 4521 |
|--|---|------------------------|

(U) A. Project Cost Breakdown (\$ in Thousands)

| | <u>FY 1998</u> | <u>FY 1999</u> | <u>FY 2000</u> | <u>FY 2001</u> |
|---|----------------|----------------|----------------|----------------|
| (U) Prime Contract | 14,328 | 1,610 | 700 | 700 |
| (U) Test | 151 | 200 | 0 | 75 |
| (U) Program Management Administration (PMA) | 458 | 300 | 34 | 25 |
| (U) SE/TA | 927 | 400 | 0 | 0 |
| (U) MITRE | 967 | 600 | 200 | 200 |
| (U) CEP/Studies and Analysis | 293 | 230 | 250 | 248 |
| (U) Total | 17,124 | 3,340 | 1,184 | 1,248 |

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| RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3) | | | | | | | | | | DATE February 1999 | |
|---|---|--------------------------|-------------------------|---------------------|---|----------------|----------------|---------------------------|----------------|------------------------|---------------|
| BUDGET ACTIVITY 7 - Operational System Development | | | | | PE NUMBER AND TITLE 0303131F Minimum Essential Emergency Communications Network (MEECN) | | | | | PROJECT 4521 | |
| (U) B. Budget Acquisition History and Planning Information (\$ in Thousands) | | | | | | | | | | | |
| Performing Organizations: | | | | | | | | | | | |
| Contractor or Government Performing Activity | Contract Method/Type or Funding Vehicle | Award or Obligation Date | Performing Activity EAC | Project Office EAC | Total Prior to FY 1998 | Budget FY 1998 | Budget FY 1999 | Budget FY 2000 | Budget FY 2001 | Budget to Complete | Total Program |
| <u>Product Development Organizations</u> | | | | | | | | | | | |
| GTE | CPAF | Jul 96 | 23,879 | 23,879 | 13,152 | 14,328 | 1,610 | 700 | 700 | Continuing | Continuing |
| National Security Agency (NSA) | MIPR | Annually | 5,000 | 5,000 | 2,500 | 0 | 0 | 0 | 0 | 0 | 2,500 |
| <u>Support and Management Organizations</u> | | | | | | | | | | | |
| SE/TA [ASEC, ABACUS, MCR, ATT, ANSER] | LOE | Annual | n/a | | 1,100 | 927 | 400 | 0 | 0 | Continuing | Continuing |
| MITRE | LOE | Annual | n/a | | 1,101 | 967 | 600 | 200 | 200 | Continuing | Continuing |
| JHU-APL(CEP) | LOE | Annual | n/a | | 130 | 293 | 230 | 250 | 248 | Continuing | Continuing |
| PMA | Various | Annual | n/a | | 187 | 458 | 300 | 34 | 25 | Continuing | Continuing |
| <u>Test and Evaluation Organizations</u> | | | | | | | | | | | |
| Various | Various | Annual | n/a | 406 | 120 | 151 | 200 | 0 | 75 | 0 | 546 |
| Government Furnished Property: None | | | | | | | | | | | |
| | | | | | Total Prior to FY 1998* | FY 1998 | FY 1999 | FY 2000 | FY 2001 | Budget to Complete | Total Program |
| Subtotal Product Development | | | | | 15,652 | 14,328 | 1,610 | 700 | 700 | Continuing | Continuing |
| Subtotal Support and Management | | | | | 2,518 | 2,645 | 1,530 | 484 | 473 | Continuing | Continuing |
| Subtotal Test and Evaluation | | | | | 120 | 151 | 200 | 0 | 75 | 0 | 546 |
| Total Project | | | | | 18,290 | 17,124 | 3,340 | 1,184 | 1,248 | Continuing | Continuing |
| * Excludes prior year funding in VLF/LF System Improvements (BPAC 2832, this PE) | | | | | | | | | | | |
| Project 4521 | | | | Page 12 of 17 Pages | | | | Exhibit R-3 (PE 0303131F) | | | |

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| | | | | | | | | | | |
|---|-------------------|---------------------|---------------------|---|---------------------|---------------------|---------------------|------------------------------|------------------------|------------|
| RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2A EXHIBIT) | | | | | | | | DATE February 1999 | | |
| BUDGET ACTIVITY 7 - Operational System Development | | | | PE NUMBER AND TITLE 0303131F Minimum Essential Emergency Communications Network (MEECN) | | | | | PROJECT 4610 | |
| COST (\$ In Thousands) | FY 1998 Actual | FY 1999 Estimate | FY 2000 Estimate | FY 2001 Estimate | FY 2002 Estimate | FY 2003 Estimate | FY 2004 Estimate | FY 2005 Estimate | Cost to Complete | Total Cost |
| 4610 MEECN EHF | 0 | 12,110 | 22,621 | 11,447 | 392 | 391 | 293 | 293 | Continuing | Continuing |

(U) A. Mission Description

(U) This MEECN project will provide reliable, secure, and survivable communications in the Extremely High Frequency (EHF) band. Specifically, this effort is currently focused on replacing the satellite-based, ground communication links with Minuteman ICBM forces. It supplants the ICBM Super High Frequency (SHF) Satellite Terminal (ISST) receipt, providing force direction/execution, and the Ultra High Frequency (UHF) report-back links. ISST relies upon the Single Channel Transponder (SCT) package aboard the Defense Satellite Communications System (DSCS). The SCT will not be flown on the DSCS after 2003. Extending the use of SCT aboard DSCS is not practical. The UHF links depend upon the Air Force Satellite Communications (AFSATCOM) packages hosted aboard the Fleet Satellite Communications (FLTSATCOM) satellites. FLTSATCOM satellites are past their life expectancy. This integrated EHF system is called the ICBM Launch Control Center (LCC) Extremely High Frequency (EHF) System (ILES). ILES is required to meet redundancy standards established by national security directives. ILES will be combined contractually with the ICBM LCC VLF/LF tasks from BPAC 2832 and together may be referred to as the Minuteman MEECN Program (MMP).

(U) FY 1998 (\$ in Thousands):

- (U) \$0 Total - Program starts in FY99

(U) FY 1999 (\$ in Thousands):

- (U) \$11,571 Engineering and Manufacturing Development (EMD)
- (U) \$0 Test
- (U) \$48 Continuing Evaluation Program (CEP)/Studies and Analysis
- (U) \$491 Identified as a source for SBIR
- (U) \$12,110 Total

(U) FY 2000 (\$ in Thousands):

- (U) \$22,038 Continue EMD
- (U) \$450 Test
- (U) \$133 Continuing Evaluation Program (CEP)/Studies and Analysis
- (U) \$22,621 Total

Project 4610 Page 13 of 17 Pages Exhibit R-2A (PE 0303131F)

UNCLASSIFIED

| RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2A Exhibit) | | | | | | | DATE February 1999 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|----------------|----------------|---------------------|--|----------------|----------------------------|------------------------------|-------------------------------|--------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-----------|--------------|--|--|--|--|--|--|--|--|--|--------------|-------------|--|---|---|---|--------|--------|-------|-------|-------|------------|------------|----------------------------|--|--|--|--|--|--|--|--|--|--|--|---|---|---|--------|--------|--------|-------|---|---|--------|--|----------------|--|--|----------------|--|--|----------------|--|--|----------------|--|--|--|---|---|---|---|---|---|---|---|---|---|---|---|--------------------|--|--|--|--|--|---|--|--|--|--|--|--|
| BUDGET ACTIVITY 7 - Operational System Development | | | | PE NUMBER AND TITLE 0303131F Minimum Essential Emergency Communications Network (MEECN) | | | | PROJECT 4610 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>(U) <u>FY 2001 (\$ in Thousands):</u></p> <ul style="list-style-type: none"> – (U) \$11,297 Continue EMD – (U) \$0 Test – (U) \$150 Continuing Evaluation Program (CEP)/Studies and Analysis – (U) \$11,447 Total <p>(U) B. <u>Project Change Summary - Description of Significant Changes:</u></p> <p>(U) None</p> <p>(U) C. <u>Other Program Funding Summary (\$ in Thousands):</u></p> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 70%;"></th> <th style="text-align: center;"><u>FY 1998</u></th> <th style="text-align: center;"><u>FY 1999</u></th> <th style="text-align: center;"><u>FY 2000</u></th> <th style="text-align: center;"><u>FY 2001</u></th> <th style="text-align: center;"><u>FY 2002</u></th> <th style="text-align: center;"><u>FY 2003</u></th> <th style="text-align: center;"><u>FY 2004</u></th> <th style="text-align: center;"><u>FY 2005</u></th> <th style="text-align: center;"><u>To</u></th> <th style="text-align: center;"><u>Total</u></th> </tr> <tr> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th style="text-align: center;"><u>Compl</u></th> <th style="text-align: center;"><u>Cost</u></th> </tr> </thead> <tbody> <tr> <td>(U) APPN 16, Other Procurement - AF, BA-63, P-052, Electronics and Telecommunications Equip (MEECN, PE 0303131F)</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td style="text-align: center;">34,684</td> <td style="text-align: center;">21,278</td> <td style="text-align: center;">9,900</td> <td style="text-align: center;">7,647</td> <td style="text-align: center;">6,382</td> <td style="text-align: center;">Continuing</td> <td style="text-align: center;">Continuing</td> </tr> <tr> <td colspan="11"><u>Related PEs:</u></td> </tr> <tr> <td>(U) APPN 14, Missile Procurement - AF, BA-07, P-013 (Minuteman Squadrons, PE 0101213F)</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td style="text-align: center;">13,557</td> <td style="text-align: center;">26,074</td> <td style="text-align: center;">11,466</td> <td style="text-align: center;">1,140</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td style="text-align: center;">52,237</td> </tr> </tbody> </table> <p><u>Note:</u> PE 0101213F, Minuteman Squadrons (MMIII Modifications), BA-07, P-013 contains the ICBM LCC VLF/LF Receiver procurement funds for the EMD tasks being combined with the MEECN EHF program. This was previously identified in BPAC 2832. Future references will be made in this BPAC exclusively.</p> <p>(U) D. <u>Acquisition Strategy:</u></p> <p>(U) ILES Program. ILES was combined with the ICBM VLF/LF (BPAC 2832) tasks contractually. The ICBM Prime Integrating Contract (through OO-ALC) will be used as a contracting vehicle. Requirements, estimates and schedules remain the same as previously briefed.</p> <p>(U) E. <u>Schedule Profile</u></p> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 20%;"></th> <th colspan="3" style="text-align: center;"><u>FY 1998</u></th> <th colspan="3" style="text-align: center;"><u>FY 1999</u></th> <th colspan="3" style="text-align: center;"><u>FY 2000</u></th> <th colspan="3" style="text-align: center;"><u>FY 2001</u></th> </tr> <tr> <th></th> <th style="text-align: center;">1</th> <th style="text-align: center;">2</th> <th style="text-align: center;">3</th> <th style="text-align: center;">4</th> <th style="text-align: center;">1</th> <th style="text-align: center;">2</th> <th style="text-align: center;">3</th> <th style="text-align: center;">4</th> <th style="text-align: center;">1</th> <th style="text-align: center;">2</th> <th style="text-align: center;">3</th> <th style="text-align: center;">4</th> </tr> </thead> <tbody> <tr> <td>(U) Contract Award</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td style="text-align: center;">*</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p>* indicates task start/X indicates task completion</p> | | | | | | | | | | <u>FY 1998</u> | <u>FY 1999</u> | <u>FY 2000</u> | <u>FY 2001</u> | <u>FY 2002</u> | <u>FY 2003</u> | <u>FY 2004</u> | <u>FY 2005</u> | <u>To</u> | <u>Total</u> | | | | | | | | | | <u>Compl</u> | <u>Cost</u> | (U) APPN 16, Other Procurement - AF, BA-63, P-052, Electronics and Telecommunications Equip (MEECN, PE 0303131F) | 0 | 0 | 0 | 34,684 | 21,278 | 9,900 | 7,647 | 6,382 | Continuing | Continuing | <u>Related PEs:</u> | | | | | | | | | | | (U) APPN 14, Missile Procurement - AF, BA-07, P-013 (Minuteman Squadrons, PE 0101213F) | 0 | 0 | 0 | 13,557 | 26,074 | 11,466 | 1,140 | 0 | 0 | 52,237 | | <u>FY 1998</u> | | | <u>FY 1999</u> | | | <u>FY 2000</u> | | | <u>FY 2001</u> | | | | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | (U) Contract Award | | | | | | * | | | | | | |
| | <u>FY 1998</u> | <u>FY 1999</u> | <u>FY 2000</u> | <u>FY 2001</u> | <u>FY 2002</u> | <u>FY 2003</u> | <u>FY 2004</u> | <u>FY 2005</u> | <u>To</u> | <u>Total</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | <u>Compl</u> | <u>Cost</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (U) APPN 16, Other Procurement - AF, BA-63, P-052, Electronics and Telecommunications Equip (MEECN, PE 0303131F) | 0 | 0 | 0 | 34,684 | 21,278 | 9,900 | 7,647 | 6,382 | Continuing | Continuing | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <u>Related PEs:</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (U) APPN 14, Missile Procurement - AF, BA-07, P-013 (Minuteman Squadrons, PE 0101213F) | 0 | 0 | 0 | 13,557 | 26,074 | 11,466 | 1,140 | 0 | 0 | 52,237 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <u>FY 1998</u> | | | <u>FY 1999</u> | | | <u>FY 2000</u> | | | <u>FY 2001</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (U) Contract Award | | | | | | * | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Project 4610 | | | Page 14 of 17 Pages | | | Exhibit R-2A (PE 0303131F) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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| RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3) | | DATE February 1999 | | |
|---|---|------------------------------|------------------------|----------------|
| BUDGET ACTIVITY 7 - Operational System Development | PE NUMBER AND TITLE 0303131F Minimum Essential Emergency Communications Network (MEECN) | | PROJECT 4610 | |
| (U) A. <u>Project Cost Breakdown (\$ in Thousands)</u> | | | | |
| | <u>FY 1998</u> | <u>FY 1999</u> | <u>FY 2000</u> | <u>FY 2001</u> |
| (U) Prime Contract | 0 | 10,771 | 21,338 | 10,597 |
| (U) Test | 0 | 0 | 450 | 0 |
| (U) Program Management Administration (PMA) | 0 | 200 | 100 | 100 |
| (U) SE/TA | 0 | 400 | 400 | 400 |
| (U) MITRE | 0 | 200 | 200 | 200 |
| (U) CEP | 0 | 48 | 133 | 150 |
| (U) Identified as a source for SBIR | 0 | 491 | 0 | 0 |
| (U) Total | 0 | 12,110 | 22,621 | 11,447 |
| Project 4610 | | | | |
| Page 16 of 17 Pages | | | | |
| Exhibit R-3 (PE 0303131F) | | | | |

DATE
February 1999

BUDGET ACTIVITY
7 - Operational System Development

PE NUMBER AND TITLE
**0303131F Minimum Essential Emergency
Communications Network (MEECN)**

(U) B. Budget Acquisition History and Planning Information (\$ in Thousands)

Performing Organizations:

| Contractor or Government Performing <u>Activity</u> | Contract Method/Type or Funding <u>Vehicle</u> | Award or Obligation <u>Date</u> | Performing Activity <u>EAC</u> | Project Office <u>EAC</u> | Total Prior to <u>FY 1998</u> | Budget <u>FY 1998</u> | Budget <u>FY 1999</u> | Budget <u>FY 2000</u> | Budget <u>FY 2001</u> | Budget to <u>Complete</u> | Total <u>Program</u> |
|--|---|---------------------------------------|--------------------------------------|---------------------------------|-------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|------------------------------|-------------------------|
| Identified as a source for SBIR | | | | | | | 491 | | | | |
| <u>Product Development Organizations</u> | | | | | | | | | | | |
| TRW | CPAF | 2QtrFY99 | | | 0 | 0 | 10,771 | 21,338 | 10,597 | Continuing | Continuing |
| <u>Support and Management Organizations</u> | | | | | | | | | | | |
| SE/TA [SRC, MCR, ATT, ANSER] | LOE | Annual | | | 0 | 0 | 400 | 400 | 400 | Continuing | Continuing |
| MITRE | LOE | Annual | | | 0 | 0 | 200 | 200 | 200 | Continuing | Continuing |
| PMA | Various | Annual | | | 0 | 0 | 200 | 100 | 100 | Continuing | Continuing |
| CEP | LOE | Annual | | | 0 | 0 | 48 | 133 | 150 | Continuing | Continuing |
| <u>Test and Evaluation Organizations</u> | | | | | | | | | | | |
| Various | Various | Annual | | | 0 | 0 | 0 | 450 | 0 | 0 | 450 |

UNCLASSIFIED

| RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3) | | | | | | DATE February 1999 | |
|---|-------------------|--|----------------|----------------|----------------|------------------------------|----------------|
| BUDGET ACTIVITY | | PE NUMBER AND TITLE | | | | PROJECT | |
| 7 - Operational System Development | | 0303131F Minimum Essential Emergency Communications Network (MEECN) | | | | 4610 | |
| Government Furnished Property: None | | | | | | | |
| | Total Prior to | | | | | Budget to | Total |
| | <u>FY 1998</u> | <u>FY 1998</u> | <u>FY 1999</u> | <u>FY 2000</u> | <u>FY 2001</u> | <u>Complete</u> | <u>Program</u> |
| Identified as a source for SBIR | | | 491 | | | | |
| Subtotal Product Development | 0 | 0 | 10,771 | 21,338 | 10,597 | Continuing | Continuing |
| Subtotal Support and Management | 0 | 0 | 848 | 833 | 850 | Continuing | Continuing |
| Subtotal Test and Evaluation | 0 | 0 | 0 | 450 | 0 | 0 | 450 |
| Total Project | | | 12,110 | 22,621 | 11,447 | Continuing | Continuing |

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