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|--|-------------------|---------------------|---------------------|--|---------------------|---------------------|------------------------------|-------------------------------|------------|
| RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit) | | | | | | | DATE February 1998 | | |
| BUDGET ACTIVITY 5 - Engineering and Manufacturing Development | | | | PE NUMBER AND TITLE 0604754F Joint Tactical Information Distribution System | | | | PROJECT P771 | |
| <i>COST (\$ In Thousands)</i> | FY 1997 Actual | FY 1998 Estimate | FY 1999 Estimate | FY 2000 Estimate | FY 2001 Estimate | FY 2002 Estimate | FY 2003 Estimate | Cost to Complete | Total Cost |
| P771 JTIDS | 29,127 | 7,374 | 7,956 | 8,863 | 8,989 | 9,116 | 9,439 | Continuing | TBD |
| Quantity of RDT&E Articles | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(U) A. Mission Description and Budget Item Justification
 Joint Tactical Information Distribution System (JTIDS) is a communications component of the Tactical Digital Information Link (TADIL) designated Link-16, and is synonymous with the TADIL-J message standard. The Link-16 System provides the Air Force, Army, Navy, and Marine Corps Theater Command and Control (C2) elements, weapons platforms, and sensors with a secure, jam-resistant, high-capacity data link for use in a tactical combat environment. Link-16 permits rapid and secure exchange of essential C2 and status information through a network with all Link-16 terminals in the tactical theater.

The number of Air Force platforms hosting Link-16 is expanding, from C² aircraft (E-3, E-8, etc.) into the fighter, bomber, sensor, tanker, and other tactical fleets (F-15, F-16, RJ, ABCCC, B-2, B-52, etc.). Utilization of Link-16 in a joint environment requires the integration of terminals into these host platforms, and interoperability of Link-16 nets across all deployed joint and allied platforms. Integration encompasses hardware, software, operational, and logistics development activities for common platform requirements and for specific host platforms. Cross-platform activities include certification of individual Link-16 implementations to joint and allied standards, establishment of Service-wide net management procedures and operations, and test and sustainment activities.

This program is in budget activity 5 (Engineering Manufacturing and Development) because it supports development, integration and interoperability solutions, sustainment capabilities, and support of special projects.

(U) Acquisition Strategy
 The JTIDS program office continues to manage the acquisition for the JTIDS family of terminals (Class 2/2H for the Air Force, Navy, and Marine Corps; Class 2M for the Army). Future acquisition of the Link 16 communications component (MIDS family) is now the responsibility of the Navy's Multifunctional Information Distribution System (MIDS) Joint International Program Office. Host platforms program and budget for JTIDS, MIDS (Fighter Data Link (FDL) and Low Volume Terminal derivatives) production terminals and for installation into operational units.

The Air Force Link 16 System Integration Office (SIO) provides for common development of integration and interoperability across all Air Force platforms and ensures that Link 16 is procured and maintained as a joint, end-to-end, command and control system.

Project P771 Page 1 of 17 Pages Exhibit R-2 (PE 0604754F)

UNCLASSIFIED

| RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit) | | DATE |
|---|---|---------------------------|
| BUDGET ACTIVITY 5 - Engineering and Manufacturing Development | | February 1998 |
| PE NUMBER AND TITLE 0604754F Joint Tactical Information Distribution System | | PROJECT P771 |
| <u>FY1997</u> | (\$ in thousands) | |
| - (U) 100 | PROGRAMS: Efforts associated with Acquisition and Integration of Class 2/2H and Fighter Data Link. -- (U) Class 2/2H Terminals for E-3, E-8, F-15, RIVET JOINT, COBRA BALL, ABCCC, MAOC, and MCE platforms. -- (U) Command and Control (C2) Terminal Acquisition Support. --- Determined Terminal Technical and Configuration Requirements. --- Established delivery schedule. --- Coordinated Spare Requirements. --- Established Maintenance Plans. --- Established Maintenance Training Schedules. | |
| - (U) 24,423 | INTEGRATION: Continued efforts associated with integration of terminals into the various platforms. -- (U) Ongoing integration support to AWACS, RIVET JOINT, ABCCC, MAOC, MCE, JSTARS, and F-22. -- (U) Technical Improvements: --- Technical support to AF Platforms to integrate Pre-Planned Product Improvements (P3I). --- Assisted in processing P3I efforts. -- (U) Field Support for F-15 Operations. --- Provided two SJSs to Nellis AFB. --- Supported flight training, exercises, and scenario development/demonstrations. --- Supported Data Link Utility Evaluation through Operational Special Project (OSP) and follow-on activities. --- Supported F-15 Electronic Combat Identification (CID) DT&E and Follow-on Activities. -- (U) Provided technical assistance to Boost Phase Intercept Programs. --- High Gear Program: Tested sensor tracking of Theater Missile. --- Airborne Interceptor: Established procedures for intercepting Theater Missile. -- (U) Purchased MIDS terminals for early integration, testing, and prototype activity. -- (U) Continued engineering studies for Link 16 into the F-16. -- (U) Began Link 16 engineering studies for platform development/upgrade on F-15. -- (U) Conducted Link 16 engineering studies on secondary platforms: Joint Stars, AWACS, ABCCC, Rivet Joint, AFMSS, A-10, and B-1. -- (U) Investigated approaches to implementing a modern, COTS-based, open systems architecture processor between Link 16 host system processors and Link 16 terminals through a generic interface processor study and demonstration. | |
| Project P771 | Page 2 of 17 Pages | Exhibit R-2 (PE 0604754F) |

UNCLASSIFIED

| RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit) | | DATE February 1998 |
|---|--|------------------------------|
| BUDGET ACTIVITY | PE NUMBER AND TITLE | PROJECT |
| 5 - Engineering and Manufacturing Development | 0604754F Joint Tactical Information Distribution System | P771 |
| <ul style="list-style-type: none"> - (U) 3,515 INTEROPERABILITY: Efforts associated with ensuring Link-16 operates effectively across all Host Platforms. <ul style="list-style-type: none"> -- (U) AF Platform Interoperability. <ul style="list-style-type: none"> --- Supported multi-service interoperability tests. --- Supported All Service Combat Identification Evaluation Team (ASCIET) tests. --- Supported to Engineering Interoperability Review Groups (IORGS US/UK bilateral). --- Supported definition of Link-16 network structures to support Interoperability. --- Developed Enhanced Position Location Radio System (EPLRS)/Link-16 gateway. -- (U) Network Support. <ul style="list-style-type: none"> --- Air Force Network Design. <ul style="list-style-type: none"> ---- Provided network design expertise. ---- Determined network design for integration testing. ---- Provided network design for integration testing. ---- Maintained AF network design aid for operations. ---- Evaluated Navy network design aid for Air Combat Command (ACC) users. --- Investigated internet-networking of JTIDS and transport control internet protocol networks. - (U) 200 SUSTAINMENT: Efforts associated with ensuring fielded terminals are supported. <ul style="list-style-type: none"> -- (U) ISSA technical engineering software support at Warner Robins AFB. -- (U) Maintained and upgraded the SJSs, Link-16 Winnebagos. -- (U) Maintained and upgraded the MULTI-LINK Translator and Display System (MTDS) prototype hardware. - (U) 889 TEST: Efforts associated with fielding terminals. <ul style="list-style-type: none"> -- (U) Support provided by the 46th Test Squadron. <ul style="list-style-type: none"> --- Software support. --- Platform integration support. --- Product improvement and special projects support. --- Regression test and integration. --- Product improvement/development support. - (U) \$ 29,127 TOTAL | | |
| Project P771 | Page 3 of 17 Pages | Exhibit R-2 (PE 0604754F) |

UNCLASSIFIED

| RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit) | | DATE |
|--|--------------------|---------------------------|
| BUDGET ACTIVITY 5 - Engineering and Manufacturing Development | | February 1998 |
| PE NUMBER AND TITLE 0604754F Joint Tactical Information Distribution System | | PROJECT P771 |
| <p>– (U) FY1998 (\$ in thousands)</p> <p>JTIDS PROGRAMS: Efforts associated with Acquisition and Integration of Class 2/2H terminals</p> <p>– (U) 200 ACQUISITION SUPPORT</p> <ul style="list-style-type: none"> -- (U) Write, execute and administer contracts for E-3, E-8, F-15, F-22, AWACS, JSTARS, RIVET JOINT, ABCCC, MAOC and MCE platforms. -- (U) Command and Control Terminal Acquisition Support <ul style="list-style-type: none"> --- Determine technical and configuration requirements for existing and prospective platforms --- Establish hardware delivery schedules --- Establish maintenance plans --- Establish maintenance training schedules --- Coordinate spare requirements <p>– (U) 350 TECHNICAL SUPPORT</p> <ul style="list-style-type: none"> -- (U) Ongoing technical and programmatic support to for JTIDS users - AWACS, JSTARS, RIVET JOINT, ABCCC, MAOC MCE and F-22 platforms. -- (U) Technical Improvements: <ul style="list-style-type: none"> --- Technical support to AF platforms for the purpose of integrating Pre-Planned Product Improvements (P3I) --- Assist in executing P3I requirements -- (U) Assist in technical trouble shooting for platforms utilizing Class 2/2H terminals -- (U) Coordinate hardware availability and support equipment for interoperability certifications -- (U) Provide acquisition support to Time Slot Reallocation (TSR) software efforts -- (U) Manage Pre-Operational support of Class 2/2H hardware -- (U) Develop and coordinate terminal usage schedules for platforms developing JTIDS capability <p>– (U) 100 DIMINISHING MANUFACTURING RESOURCES</p> <ul style="list-style-type: none"> -- (U) Investigate Diminishing Manufacturing Sources <ul style="list-style-type: none"> --- Identify problem electronic parts --- Assess impacts to fielded hardware test support equipment --- Develop resolution plans | | |
| Project P771 | Page 4 of 17 Pages | Exhibit R-2 (PE 0604754F) |

| RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit) | | DATE |
|--|--------------------|---------------------------|
| BUDGET ACTIVITY 5 - Engineering and Manufacturing Development | | February 1998 |
| PE NUMBER AND TITLE 0604754F Joint Tactical Information Distribution System | | PROJECT P771 |
| <u>SYSTEM INTEGRATION</u> | | |
| <ul style="list-style-type: none"> - (U) 3,246 LINK-16 INTEGRATION: Efforts associated with hardware and software integration of Link 16 terminals into Air Force platforms. <ul style="list-style-type: none"> -- (U) On-going engineering integration support to F-15C, AWACS, RIVET JOINT, ABCCC, MAOC, MCE, and JSTARS. -- (U) Engineering integration support. <ul style="list-style-type: none"> --- New platforms to include F-15E, F-16, F-22, B-1, B-2, B-52, A-10, F-117, and Joint Strike Fighter. --- Perform initial evaluation for new mission areas. --- Integration cost reduction initiatives for interface processor. -- (U) Technical Improvements: <ul style="list-style-type: none"> --- Technical support for integration of Class 2 terminal P3I efforts. --- Technical support and demos for Link 16 capacity enhancements. --- Support development of Joint VMF/Link-16 gateway. -- (U) Field Support. <ul style="list-style-type: none"> --- Support special exercises and tests. -- (U) Provide technical assistance to Link 16 Demonstration programs to include Project Strike (Link 16 delivery of information to support strikes on time critical targets). -- (U) Generic Integration/Common Operating Environment (COE) support. <ul style="list-style-type: none"> --- Integration cost reduction initiatives (Hardware/Software) across multiple platforms. --- Provide support to ASC2A in developing common operating picture --- Provide support in providing Link-16 capability (data in cockpit) for Expeditionary Force Experiment'98. | | |
| Project P771 | Page 5 of 17 Pages | Exhibit R-2 (PE 0604754F) |

UNCLASSIFIED

| RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit) | | DATE February 1998 |
|---|--|------------------------------|
| BUDGET ACTIVITY 5 - Engineering and Manufacturing Development | PE NUMBER AND TITLE 0604754F Joint Tactical Information Distribution System | PROJECT P771 |
| <p>– (U) 1,623</p> | <p>LINK-16 INTEROPERABILITY: Efforts associated with ensuring Link-16 operates effectively across all host platforms.</p> <ul style="list-style-type: none"> -- (U) Support CAF/Joint certification testing. -- (U) Support development of interoperability matrixes. -- (U) Support development of distributive interoperability testing initiatives. -- (U) Provide engineering support to interoperability working groups. (IORGS, US/UK bilateral, MIDS) -- (U) Support operational contingencies, multi-service operational tests, and exercises and evaluations (ASCIET, Roving Sands, Air Expeditionary Force Experiment, etc). -- (U) Network Support: <ul style="list-style-type: none"> --- Engineering Support to Air Force Network Design Facility <ul style="list-style-type: none"> ---- Provide network design engineering expertise and training. ---- Provide network design guidelines. --- Assist customers with network design problems. --- Evaluate/Develop Air Force and Joint Network Design Aids. -- (U) Communication Support: <ul style="list-style-type: none"> --- Evaluate/develop communications design aids, including tools for Joint Interface Control Officer/Service Interface Control Officer (JICO/SICO). --- Provide Engineering Support for Air Force Communications planning. -- (U) Crypto Support: <ul style="list-style-type: none"> --- Support Air Force Electronic Key Management Plan System support and joint key management plan development. --- Provide support to Joint Crypto working groups and planning efforts. -- Spectrum Support: <ul style="list-style-type: none"> --- Provide engineering support for Air Force Spectrum and Electromagnetic Compatibility (EMC) issues and tests. -- Link-16 Gateways/Interfaces: <ul style="list-style-type: none"> --- Interface to Various DII systems (GCCS). --- Interface via network protocols (TCP/IP, ATM, etc). --- Interface to Intel/COTS Products (NTM platforms). | |
| Project P771 | Page 6 of 17 Pages | Exhibit R-2 (PE 0604754F) |

UNCLASSIFIED

| RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit) | | DATE February 1998 |
|--|--|------------------------------|
| BUDGET ACTIVITY | PE NUMBER AND TITLE | PROJECT |
| 5 - Engineering and Manufacturing Development | 0604754F Joint Tactical Information Distribution System | P771 |
| <ul style="list-style-type: none"> - (U) 1,855 LINK-16 EMD SUPPORT: Efforts associated with fielding terminals. <ul style="list-style-type: none"> -- (U) Support Operations Support Working Groups. -- (U) Maintenance of Developmental Equipment: <ul style="list-style-type: none"> --- Maintain and upgrade the SJS and Link-16 Winnebagos. --- Maintain suite of developmental terminals. --- Maintain and Upgrade the Multi-Link Translator and Display System (MTDS) prototype hardware and software. -- (U) Test Support: <ul style="list-style-type: none"> --- Platform integration support. --- Special/Unique test support. --- Operational Link-16 problem investigation support. -- (U) Fielding/Non-Recurring Training: <ul style="list-style-type: none"> --- Initial/non-recurring training support. --- Initial fielding support. - (U) \$ 7,374 TOTAL | | |

UNCLASSIFIED

| RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit) | | DATE |
|---|--------------------|---------------------------|
| BUDGET ACTIVITY 5 - Engineering and Manufacturing Development | | February 1998 |
| PE NUMBER AND TITLE 0604754F Joint Tactical Information Distribution System | | PROJECT P771 |
| <p>– (U) FY1999 (\$ in thousands) JTIDS PROGRAMS: Efforts associated with Acquisition and Integration of Class 2/2H terminals</p> <p>– (U) 200 ACQUISITION SUPPORT</p> <ul style="list-style-type: none"> -- (U) Write, execute and administer contracts for E-3, E-8, F-15, F-22, AWACS, JSTARS, RIVET JOINT, ABCCC, MAOC and MCE platforms. -- (U) Command and Control Terminal Acquisition Support <ul style="list-style-type: none"> --- Determine technical and configuration requirements for existing and prospective platforms --- Establish hardware delivery schedules --- Establish maintenance plans --- Establish maintenance training schedules --- Coordinate spare requirements <p>– (U) 300 TECHNICAL SUPPORT</p> <ul style="list-style-type: none"> -- (U) Ongoing technical and programmatic support to for JTIDS users - AWACS, JSTARS, RIVET JOINT, ABCCC, MAOC MCE and F-22 platforms. -- (U) Technical Improvements: <ul style="list-style-type: none"> --- Technical support to AF platforms for the purpose of integrating Pre-Planned Product Improvements (P3I) --- Assist in executing P3I requirements -- (U) Assist in technical trouble shooting for platforms utilizing Class 2/2H terminals -- (U) Coordinate hardware availability and support equipment for interoperability certifications -- (U) Provide acquisition support to Time Slot Reallocation (TSR) software efforts -- (U) Manage Pre-Operational support of Class 2/2H hardware -- (U) Develop and coordinate terminal usage schedules for platforms developing JTIDS capability <p>– (U) 100 DIMINISHING MANUFACTURING RESOURCES</p> <ul style="list-style-type: none"> -- (U) Investigate Diminishing Manufacturing Sources <ul style="list-style-type: none"> --- Identify problem electronic parts --- Assess impacts to fielded hardware test support equipment --- Develop resolution plans | | |
| Project P771 | Page 8 of 17 Pages | Exhibit R-2 (PE 0604754F) |

UNCLASSIFIED

| RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit) | | DATE |
|--|--------------------|---------------------------|
| BUDGET ACTIVITY 5 - Engineering and Manufacturing Development | | February 1998 |
| PE NUMBER AND TITLE 0604754F Joint Tactical Information Distribution System | | PROJECT P771 |
| <p align="center"><u>SYSTEM INTEGRATION</u></p> <ul style="list-style-type: none"> - (U) 3,578 LINK-16 INTEGRATION: Efforts associated with integration of Link 16 terminals into Air Force platforms. <ul style="list-style-type: none"> -- (U) On-going engineering integration support to F-15C, AWACS, RIVET JOINT, ABCCC, MAOC, MCE, and JSTARS. -- (U) Engineering integration support. <ul style="list-style-type: none"> --- New platforms to include F-15E, F-16, F-22, B-1, B-2, B-52, A-10, F-117, and Joint Strike Fighter. --- Perform initial evaluation for new mission areas. --- Integration cost reduction initiatives for interface processor. -- (U) Technical Improvements: <ul style="list-style-type: none"> --- Technical support for integration of Class 2 terminal P3I efforts. --- Technical support and demos for Link 16 capacity enhancements. --- Support development of Joint VMF/Link-16 gateway. -- (U) Field Support. <ul style="list-style-type: none"> --- Support special exercises and tests. -- (U) Provide technical assistance to Link 16 Demonstration programs to include Project Strike (Link 16 delivery of information to support strikes on time critical targets). -- (U) Generic Integration/Common Operating Environment (COE) support. <ul style="list-style-type: none"> --- Integration cost reduction initiatives (Hardware/Software) across multiple platforms. --- Provide support to ASC2A in developing common operating picture --- Provide support in providing Link-16 capability (data in cockpit) for Expeditionary Force Experiment'98. | | |
| Project P771 | Page 9 of 17 Pages | Exhibit R-2 (PE 0604754F) |

UNCLASSIFIED

| RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit) | | DATE February 1998 |
|---|--|------------------------------|
| BUDGET ACTIVITY 5 - Engineering and Manufacturing Development | PE NUMBER AND TITLE 0604754F Joint Tactical Information Distribution System | PROJECT P771 |
| <p>– (U) 1,735</p> | <p>LINK-16 INTEROPERABILITY: Efforts associated with ensuring Link-16 operates effectively across all host platforms.</p> <ul style="list-style-type: none"> -- (U) Support CAF/Joint certification testing. -- (U) Support development of interoperability matrixes. -- (U) Support development of distributive interoperability testing initiatives. -- (U) Provide engineering support to interoperability working groups. (IORGS, US/UK bilateral, MIDS) -- (U) Support operational contingencies, multi-service operational tests, and exercises and evaluations (ASCIET, Roving Sands, Air Expeditionary Force Experiment, etc). -- (U) Network Support: <ul style="list-style-type: none"> --- Engineering Support to Air Force Network Design Facility <ul style="list-style-type: none"> ---- Provide network design engineering expertise and training. ---- Provide network design guidelines. --- Assist customers with network design problems. --- Evaluate/Develop Air Force and Joint Network Design Aids. -- (U) Communication Support: <ul style="list-style-type: none"> --- Evaluate/develop communications design aids, including tools for Joint Interface Control Officer/Service Interface Control Officer (JICO/SICO). --- Provide Engineering Support for Air Force Communications planning. -- (U) Crypto Support: <ul style="list-style-type: none"> --- Support Air Force Electronic Key Management Plan System support and joint key management plan development. --- Provide support to Joint Crypto working groups and planning efforts. -- Spectrum Support: <ul style="list-style-type: none"> --- Provide engineering support for Air Force Spectrum and Electromagnetic Compatibility (EMC) issues and tests. -- Link-16 Gateways/Interfaces: <ul style="list-style-type: none"> --- Interface to Various DII systems (GCCS). --- Interface via network protocols (TCP/IP, ATM, etc). --- Interface to Intel/COTS Products (NTM platforms). | |
| Project P771 | Page 10 of 17 Pages | Exhibit R-2 (PE 0604754F) |

UNCLASSIFIED

| RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit) | | DATE February 1998 |
|---|--|------------------------------|
| BUDGET ACTIVITY | PE NUMBER AND TITLE | PROJECT |
| 5 - Engineering and Manufacturing Development | 0604754F Joint Tactical Information Distribution System | P771 |
| <p>– (U) 2,043 LINK-16 EMD SUPPORT: Efforts associated with fielding terminals.</p> <ul style="list-style-type: none"> -- (U) Support Operations Support Working Groups. -- (U) Maintenance of Developmental Equipment: <ul style="list-style-type: none"> --- Maintain and upgrade the SJS and Link-16 Winnebagos. --- Maintain suite of developmental terminals. --- Maintain and Upgrade the Multi-Link Translator and Display System (MTDS) prototype hardware and software. -- (U) Test Support: <ul style="list-style-type: none"> --- Platform integration support. --- Special/Unique test support. --- Operational Link-16 problem investigation support. -- (U) Fielding/Non-Recurring Training: <ul style="list-style-type: none"> -- Initial/non-recurring training support. -- Initial fielding support. <p>-- (U) \$ 7,956 TOTAL</p> | | |
| Project P771 | Page 11 of 17 Pages | Exhibit R-2 (PE 0604754F) |

UNCLASSIFIED

| | | | | | | | | | |
|---|----------------|----------------|----------------|--|---------------------------|----------------|-------------------------------|--------------|--|
| RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit) | | | | | | | DATE February 1998 | | |
| BUDGET ACTIVITY 5 - Engineering and Manufacturing Development | | | | PE NUMBER AND TITLE 0604754F Joint Tactical Information Distribution System | | | PROJECT P771 | | |
| (U) B. <u>Program Change Summary (\$ in Thousands)</u> | | | | | | | | | |
| | <u>FY 1997</u> | <u>FY 1998</u> | <u>FY 1999</u> | <u>Total</u> | | | | | |
| | | | | <u>Cost</u> | | | | | |
| (U) Previous President's Budget (FY 1998) | 29,321 | 8,557 | 8,616 | TBD | | | | | |
| (U) Appropriated Value | 30,875 | 8,557 | | | | | | | |
| (U) Adjustments to Appropriated Value | | | | | | | | | |
| a. General Congressional Reduction | -786 | -991 | | | | | | | |
| b. Small Business Innovative Research | -768 | -192 | | | | | | | |
| c. Omnibus and Other Above Threshold Reprogrammings | | | | | | | | | |
| d. Below Threshold Reprogrammings | -146 | | | | | | | | |
| e. Recissions | -48 | | | | | | | | |
| (U) Adjustments to Budget Years Since FY 1998 PB | | | -660 | | | | | | |
| (U) Current Budget Submit/FY 1999 President's Budget | 29,127 | 7,374 | 7,956 | TBD | | | | | |
| (U) Change Summary Explanation: | | | | | | | | | |
| Funding: FY98 CGR and SBIR reductions (\$ -1,183) eliminates or significantly reduces specific platform support to the F-16, the Bombers and EFX exercise. Integration costs for these platforms expected to increase 25-50%. FY98 \$50K on withhold pending reprogramming for higher priorities. FY99 adjustment to fund other service priorities (-\$660K). | | | | | | | | | |
| Schedule: Above reductions put F-16 delivery schedule at risk, could slip two years based on operational flight program cycles and required deadlines. | | | | | | | | | |
| Technical: Eliminates B-1B, B-2, and B-52 generic integration solution work. | | | | | | | | | |
| (U) C. <u>Other Program Funding Summary (\$ in Thousands)</u> | | | | | | | | | |
| | <u>FY 1997</u> | <u>FY 1998</u> | <u>FY 1999</u> | <u>FY 2000</u> | <u>FY 2001</u> | <u>FY 2002</u> | <u>To</u> | <u>Total</u> | |
| | | | | | | | <u>Complete</u> | <u>Cost</u> | |
| (U) Other Proc AF, PE 27417F (AWACS), BA 7 | 16,100 | 3,400 | 300 | 0 | 0 | 0 | 0 | 50,900 | |
| (U) Other Proc AF, PE 27581F (JSTARS), BA 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 15,800 | |
| Project P771 | | | | | | | | | |
| Page 12 of 17 Pages | | | | | Exhibit R-2 (PE 0604754F) | | | | |

UNCLASSIFIED

| RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit) | | | | | | | DATE February 1998 | |
|---|----------------|----------------|----------------|---|----------------|----------------|------------------------|----------------------|
| BUDGET ACTIVITY 5 - Engineering and Manufacturing Development | | | | PE NUMBER AND TITLE 0604754F Joint Tactical Information Distribution System | | | PROJECT P771 | |
| | <u>FY 1997</u> | <u>FY 1998</u> | <u>FY 1999</u> | <u>FY 2000</u> | <u>FY 2001</u> | <u>FY 2002</u> | To <u>Complete</u> | Total <u>Cost</u> |
| (U) Other Proc AF, PE 27412F (MCE), BA 7 | 0 | 22,100 | 15,000 | 0 | 0 | 0 | 0 | 143,900 |
| (U) Other Proc AF, PE 35154F (AIA), BA 7 | 3,400 | 4,800 | 4,900 | 5,000 | 5,700 | 0 | 0 | 33,300 |
| | | | | | | | | |
| - (U) <u>Related RDT&E:</u> | | | | | | | | |
| (U)- Program Element 0604770F / 0207581F E-8 (Joint STARS) | | | | | | | | |
| (U)- Program Element 0207417F E-3 (AWACS) | | | | | | | | |
| (U)- Program Element 0207412F Modular Control Equipment (MCE) | | | | | | | | |
| (U)- Program Element 0207419F Airborne Battlefield Command and Control Center (ABCCC) | | | | | | | | |
| (U)- Program Element 0305154F AIA. | | | | | | | | |
| | | | | | | | | |
| (U) D. <u>Schedule Profile</u> | | | | | | | | |
| | | <u>FY 1997</u> | | <u>FY 1998</u> | | <u>FY 1999</u> | | |
| | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 |
| (U) Acquisition Milestones | | | | | | | | |
| - Milestone III FRP 2M | | X | | | | | | |
| (U) T&E Milestones | | | | | | | | |
| - F-15 OSP Complete | | | X | | | | | |
| - MCE IOT&E | | | X | | | | | |
| - MS OT-III | X | | | | | | | |
| - IOT&E Class 2M | X | | | | | | | |
| (U) FDL Testing | | | | | | | | |
| - Initial Operational Assessment | | | X | | | | | |
| - QT&E/QOT&E Complete | | | | | X | | | |
| - Flight QOT&E Complete | | | | | | X | | |

UNCLASSIFIED

| RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit) | | | | | | | | | | | DATE February 1998 | | | |
|--|---|----------------|---|---|---|--|----------------|---|---|---|-----------------------|----------------|---|--|
| BUDGET ACTIVITY | | | | | | PE NUMBER AND TITLE | | | | | | PROJECT | | |
| 5 - Engineering and Manufacturing Development | | | | | | 0604754F Joint Tactical Information Distribution System | | | | | | P771 | | |
| | | <u>FY 1997</u> | | | | | <u>FY 1998</u> | | | | | <u>FY 1999</u> | | |
| | | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | |
| (U) Contract Milestones | | | | | | | | | | | | | | |
| - FRP Class 2M | | | | X | | | | | | | | | | |
| - FRP II | | | X | | | | | | | | | | | |
| - FDL Award | X | | | | | | | | | | | | | |
| - FDL Pilot Production Start | | | | | | X | | | | | | | | |
| - FDL Initial Rate Production | | | | | | | | | | X | | | | |
| - FDL Full Rate Production | | | | | | | | | | | | | X | |
| (U) Host Platform Integration Start | | | | | | | | | | | | | | |
| - F-15E | | | | | | X | | | | | | | | |
| - F-16 | | | | | | X | | | | | | | | |
| - F-22 (1992) | | | | | | | | | | | | | | |
| - B-1 (FY00 POM) | | | | | | | | | | | | | | |
| - B-2 (FY00 POM) | | | | | | | | | | | | | | |
| - B-52 (FY00 POM) | | | | | | | | | | | | | | |
| - A-10 (FY03) | | | | | | | | | | | | | | |
| - F-117 (FY04) | | | | | | | | | | | | | | |
| - Airborne Laser (ABL) | | | | | | X | | | | | | | | |
| (U) Command and Control Platforms | | | | | | | | | | | | | | |
| - AWACS Link 16 Qual Complete | | | | | | | | | | | | | X | |
| - JSTARS | | | | | | | | | | | | | | |
| Start Baseline Integration | | | | | X | | | | | | | | | |
| Complete Baseline Integration | | | | | | | | | | | X | | | |
| - RIVET JOINT | | | | | | | | | | | | | | |
| First Install | | | | X | | | | | | | | | | |
| Complete (FY02) | | | | | | | | | | | | | | |
| - ABCCC | | | | | | | | | | | | | | |
| - MCE (P3I) | | | | | | | | | | | | | | |
| Installation Start | | | | | | | | X | | | | | | |
| Installation Complete (FY00) | | | | | | | | | | | | | | |

UNCLASSIFIED

| RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3) | | DATE | |
|---|---------------------|---------------------------|----------------|
| BUDGET ACTIVITY 5 - Engineering and Manufacturing Development | | February 1998 | |
| PE NUMBER AND TITLE 0604754F Joint Tactical Information Distribution System | | PROJECT P771 | |
| (U) A. <u>Project Cost Breakdown (\$ in Thousands)</u> | | | |
| | <u>FY 1997</u> | <u>FY 1998</u> | <u>FY 1999</u> |
| (U) Programs | 100 | | |
| (U) Integration | 24,423 | | |
| (U) Interoperability | 3,515 | | |
| (U) Sustainment | 200 | | |
| (U) Test | 889 | | |
| (U) JTIDS PROGRAMS | | | |
| (U) Acquisition Support | | 200 | 200 |
| (U) Technical Support | | 350 | 300 |
| (U) Diminshing Manufacturing Resources | | 100 | 100 |
| (U) SYSTEM INTEGRATION (Link 16) | | | |
| (U) Link-16 Integration | | 3,246 | 3,578 |
| (U) Link-16 Interoperability | | 1,623 | 1,735 |
| (U) EMD Activities | | 1,855 | 2,043 |
| (U) TOTAL | 29,127 | 7,374 | 7,956 |
| NOTE 1: ESC reorganization resulted in a split between JTIDS and Link-16 efforts. Sustainment and parts of other efforts are now included under JTIDS PROGRAMS. The ongoing Link 16 integration functions are included under SYSTEM INTEGRATION. In future Descriptive Summaries, another BPAC will be used to facilitate separate tracking of the Link 16 SYSTEM INTEGRATION activities. | | | |
| Project P771 | Page 15 of 17 Pages | Exhibit R-3 (PE 0604754F) | |

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|--|--|-------------------------------|
| RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3) | | DATE February 1998 |
| BUDGET ACTIVITY 5 - Engineering and Manufacturing Development | PE NUMBER AND TITLE 0604754F Joint Tactical Information Distribution System | PROJECT P771 |

(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 1997 | Budget FY 1997 | FY 1998 | FY 1999 | Budget to Complete | Total Program |
|--|---|--------------------------|-------------------------|--------------------|------------------------|----------------|---------|---------|--------------------|---------------|
| <u>Product Development Organizations</u> | | | | | | | | | | |
| GEC-MARCONI | FFP | DEC 85 | 80,727 | 80,727 | 80,527 | 200 | 0 | 0 | 0 | 80,727 |
| LOCKHEED | FFP | JUN 93 | 6,761 | 6,761 | 4,661 | 2100 | 0 | 0 | 0 | 6,761 |
| GEC-MARCONI | FFP | JUN 93 | 850 | 850 | 850 | 0 | 0 | 0 | 0 | 850 |
| CACD | FFP | JUN 93 | 1,072 | 1,072 | 1,072 | 0 | 0 | 0 | 0 | 1,072 |
| MCAIR | CPFF | MAR 94 | 2,434 | 2,434 | 2,434 | 0 | 0 | 0 | 0 | 2,434 |
| RADC | PO/616 | Various | Various | Various | 2,867 | 200 | 0 | 0 | 0 | 3,067 |
| WR-ALC | PO/616 | Various | Various | Various | 2,966 | 0 | 0 | 0 | 0 | 2,966 |
| NADEP | MIPR | Various | Various | Various | 795 | 0 | 235 | 0 | 0 | 1,030 |
| ACSI | FFP | SEP 94 | 492 | 492 | 492 | 0 | 0 | 0 | 0 | 492 |
| VIASAT, INC. | FFP | Various | 815 | 815 | 0 | 815 | 0 | 0 | 0 | 815 |
| AF Platforms | PO/616 | Various | Various | Various | 0 | 169 | 0 | 0 | 0 | 169 |
| NORTHROP GR | FFP | AUG 97 | 500 | 500 | 0 | 500 | 0 | 0 | 0 | 500 |
| ROCKWELL | FFP | Various | 2,080 | 2,080 | 0 | 2,080 | 0 | 0 | 0 | 2,080 |
| HUGHES | FFP | Various | 133 | 133 | 0 | 133 | 0 | 0 | 0 | 133 |
| DRC | FFP | MAY 97 | 213 | 213 | 0 | 213 | 0 | 0 | 0 | 213 |
| MIDSCO, Inc | MIPR | Various | 4,251 | 4,251 | 0 | 3,850 | 0 | | | 4,250 |
| MOTOROLA INC | FFP | Various | 1,800 | 1,800 | 0 | 1,800 | 0 | 0 | 0 | 1,800 |
| ALLIED SIGNAL | CPFF | Various | 75 | 75 | 0 | 75 | 0 | 0 | 0 | 75 |
| MCDONNELL DG | FFP | Various | 2,582 | 2,582 | 0 | 2,582 | 0 | 0 | 0 | 2,582 |
| BOEING | FFP | Various | 869 | 869 | 0 | 869 | 0 | 0 | 0 | 869 |

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| RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3) | | | | | | | | | | DATE February 1998 |
|---|--|---------------------------------|--------------------------------|---------------------------|---|-----------------------|----------------|----------------|---------------------------|------------------------------|
| BUDGET ACTIVITY 5 - Engineering and Manufacturing Development | | | | | PE NUMBER AND TITLE 0604754F Joint Tactical Information Distribution System | | | | | PROJECT P771 |
| <u>Contractor or Government Performing Activity</u> | <u>Contract Method/Type or Funding Vehicle</u> | <u>Award or Obligation Date</u> | <u>Performing Activity EAC</u> | <u>Project Office EAC</u> | <u>Total Prior to FY 1997</u> | <u>Budget FY 1997</u> | <u>FY 1998</u> | <u>FY 1999</u> | <u>Budget to Complete</u> | <u>Total Program</u> |
| <u>Support and Management Organizations</u> | | | | | | | | | | |
| ESC | Various | Various | 26,969 | 26,969 | 19,214 | 2,211 | 738 | 966 | Continue | TBD |
| CONTRACTOR SUPPORT | Various | Various | 52,457 | 52,457 | 39,765 | 2,783 | 855 | 1,440 | Continue | TBD |
| MITRE | FPLOE | Various | 89,900 | 89,900 | 77,340 | 7,619 | 4,546 | 4,550 | Continue | TBD |
| <u>Test and Evaluation Organizations</u> | | | | | | | | | | |
| MT HOME AFB | PO/616 | Various | Various | Various | 416 | | | | | 416 |
| EGLIN AFB | PO/616 | Various | Various | Various | 826 | 928 | 1,000 | 1,000 | Continue | TBD |
| Government Furnished Property: NOT APPLICABLE | | | | | | | | | | |
| Subtotal Product Development | | | | | 96,664 | 15,586 | 235 | 0 | Continue | TBD |
| Subtotal Support and Management | | | | | 136,319 | 12,613 | 6,139 | 6,956 | Continue | TBD |
| Subtotal Test and Evaluation | | | | | 1,242 | 928 | 1,000 | 1,000 | Continue | TBD |
| Total Project | | | | | 234,225 | 29,127 | 7,374 | 7,956 | Continue | TBD |

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