CLASSIFICATION:

UNCLASSIFIED

| EXHII | EXHIBIT R-2, RDT&E Budget Item Justification | | | | | | | | | | |
|-------------------------------------|--|-----------------------|---------|---------|---------|---------|---------|---------|---------|------------------|---------|
| | | _ | | | | | | | Jui | ne 2001 | |
| APPROPRIATION/BUDGET ACTIVITY | | R-1 ITEM NOMENCLATURE | | | | | | | | | |
| RESEARCH DEVELOPMENT TEST & EVALUAT | BA-7 0204136N F/A-18 SQUADI | | | | | RONS | | | | | |
| | Prior | | | | | | | | | | Total |
| COST (\$ in Millions) | Years Cost | FY 2000 | FY 2001 | FY 2002 | FY 2003 | FY 2004 | FY 2005 | FY 2006 | FY 2007 | Cost to Complete | Program |
| Total PE Cost | 8,509.247 | 307.589 | 234.490 | 253.257 | | | | | | | |
| | * | *** | | | | | | | | | |
| E1662 F/A-18 Improvements | 2,799.625 | 172.039 | 114.155 | 136.556 | | | | | | | |
| E2065 F/A-18 RADAR Upgrade | ** 299.116 | 3.652 | 102.987 | 115.455 | | | | | | | |
| LZ003 1/A-18 KADAK Opgiade | 299.110 | 3.032 | 102.907 | 113.433 | | | | | | | |
| E2130 F/A-18 Follow-On Variant | 5,410.506 | 131.898 | 17.348 | 1.246 | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| Quantity of RDT&E Articles | 10 | | | | | | | | | | |

^{*}FY92 & Prior: \$2511.304; FY93-FY95: \$55.765; FY96-FY99: \$232.556

(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION: The F/A-18 is capable of using external equipment to perform either fighter or attack missions. The capabilities of the F/A-18 weapon system can be upgraded to accommodate and incorporate new or enhanced weapons as well as advances in technology to respond effectively to emerging future threats. Continued development capability is required to successfully optimize new F/A-18 weapon system capabilities in the Fleet. Additionally, continued improvements in reliability and maintainability are necessary to ensure maximum benefit is achieved through reduced cost of ownership and to provide enhanced availability.

F/A-18 Improvements: The F/A-18 Naval Strike Fighter program transitioned from full-scale engineering development to operational systems development during FY 1983. As F/A-18 squadrons report discrepancies and new requirements, a continuing capability is needed to perform technical evaluations, investigative flight testing, software support, and incorporate Pre-Planned Product Improvements (P3I) (i.e., capability enhancements).

F/A-18 Radar Upgrade: The F/A-18 Radar Upgrade, Active Electronically Scanned Array (AESA) development program, beginning in FY 1999, is the last of three pre-planned upgrades to the F/A-18 Type/Model/Series radar. The AESA corrects operational test deficiencies noted in the AN/APG-73. It provides for multi-target tracking, Synthetic Aperture Radar (SAR) imagery, SAR Target Location Error (TLE), and improved spotlight map resolution. In addition, it provides for greater lethality than previous F/A-18 radars by allowing for full tactical support of existing and planned air-to-air (A/A) and air-to-ground (A/G) weapons significantly increases A/A and A/G detection and tracking ranges. The AESA provides greater survivability through self-protection and standoff jamming capabilities, while its greater range allows for reduced detection by enemy radar. The AESA is also more affordable than previous radars. Significant savings in operating and support costs can be realized through a five fold increase in reliability over the AN/APG-73 as well as incorporating open architecture and Higher Order Language software. Additionally, savings can be realized by avoiding parts obsolescence redesign costs that will be experienced on the AN/APG-65 and AN/APG-73.

^{**}FY 1991 through FY 1999 = \$272.228. Adding RUG Phase I and RUG Phase II

^{***}The FY 2000 budget reflects a \$5.000M Congressional add for Radar ECCM Improvements, executed under E2803, which has been decreased by \$.028M for a Congressional Rescission and \$.061M for a SBIR Assessment. The FY 2000 budget also includes a \$2.000M Congressional add for Bol Chaff which is requested for reprogramming to the F-14 RDT&E,N program.

CLASSIFICATION:

| EXHIBIT R-2, RDT&E Budge | et Item Justification | | DATE: |
|--|--|--|--|
| | | | June 2001 |
| APPROPRIATION/BUDGET ACTIVITY | | R-1 ITEM NOMENCLATURE | |
| RESEARCH DEVELOPMENT TEST & EVALUATION, NAVY / | BA-7 | 0204136N F/A-18 SQUAD | RONS |
| F/A-18 Follow-On Variant: The follow-on F/A-18 (E/F version) is increase in range over the C/D in the high-low-low-high attack/interdiction missic internal fuel capacity, increased weapons carriage capability, increased carrier renhancements developed for the earlier night attack C/D version of the aircraft. (U) JUSTIFICATION FOR BUDGET ACTIVITY: This program is funded und | on carrying three 480 gallon drop tanks, for ecovery payload, enhanced survivability/vo | ur 1,000 pound bombs, and tw ulnerability, increased growth | to AIM-9 air-to-air missiles. The E/F version has increased capacity, and increased engine thrust. It retains all of the P3I |
| of existing operational systems. | | | |
| | | | |
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CLASSIFICATION:

| E | EXHIBIT R-2a, RDT&E Project Justification | | | | | | | | | | |
|---|---|-------------|-------------|---------|---------|------------|--------------|---------|---------|------------------|---------|
| | | | | | | | | | | | |
| APPROPRIATION/BUDGET ACTIVITY | PROGRAM EL | EMENT NUME | BER AND NAM | E | | PROJECT NU | IMBER AND N | AME | | | |
| RDT&E, N / BA-7 | 0204136N/F/A- | -18 SQUADRO | NS | | | E1662 F | /A-18 IMPROV | EMENTS | | | |
| | Prior | | | | | | | | | | Total |
| COST (\$ in Millions) | Years Cost | FY 2000 | FY 2001 | FY 2002 | FY 2003 | FY 2004 | FY 2005 | FY 2006 | FY 2007 | Cost to Complete | Program |
| | | *** | | | | | | | | | |
| Project Cost | 2,799.625 | 172.039 | 114.155 | 136.556 | | | | | | | |
| | | | | | | | | | | | |
| Quantity of RDT&E Articles Not Applicable | | | | | | | | | | | |

^{***}The FY 2000 budget reflects a \$5.000M Congressional add for Radar ECCM Improvements, executed under E2803, which has been decreased by \$.028M for a Congressional Rescission and \$.061M for a SBIR Assessment. The FY 2000 budget also includes a \$2.000M Congressional add for Bol Chaff which is requested for reprogramming to the F-14 RDT&E,N program.

⁽U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION: The F/A-18 is a multi-mission strike fighter aircraft that is used in both fighter and attack roles through selected use of external equipment (fuel tanks, targeting/navigation, Forward Looking Infrared (FLIR) pods, and various bomb/missile launching racks). In order to respond effectively to emerging future threats, F/A-18 aircraft capabilities are being upgraded to incorporate new/enhanced weapons systems and avionics including the Positive Identification System (PIDS) (incorporates Congressionally mandated Combined Interrogator Transponder (CIT) Identification Friend or Foe (IFF) System, Digital Communications System (DCS), Joint Helmet Mounted Cueing System (JHMCS), Advanced Targeting Forward Looking Infrared (ATFLIR), development and integration of the Multifunctional Information Distributions System (MIDS), conversion of the System Configuration Set (SCS) to a Higher Order Language (HOL), development of the F/A-18 E/F Advanced Crew Station (ACS), and upgrade of the existing Global Positioning System/Inertial Navigation System in order to meet precision strike/precision approach requirements. Continued hardware/software development is required to successfully optimize fleet F/A-18 weapons systems. As F/A-18 Squadrons report system problems/requirements, a continuing capability is needed to perform technical evaluations/investigative flight testing, provide software support and integrate selected improvements

CLASSIFICATION:

| | | EXHIBIT R-2a, RDT&E Project Justification | | | DATE: | |
|----------------------|------------|---|--------------|-------------|---------|-----------|
| | | | | | | June 2001 |
| APPROPRIATION/BUDGET | T ACTIVITY | PROGRAM ELEMENT NUMBER AND NAME | PROJECT NUME | BER AND NAM | ME | |
| RDT&E, N / B. | A-7 | 0204136N/ F/A-18 SQUADRONS | E1662 F | A-18 IMPRO | VEMENTS | |
| | | | | | | |

(U) PROGRAM ACCOMPLISHMENTS AND PLANS:

1. FY 2000 ACCOMPLISHMENTS:

- * (U) (\$2.756) Conducted engineering analysis and developed improvements to existing systems and subsystems for deficiencies identified during development of the aircraft. Provided technical support for the integration of new weapons and systems.
- * (U) (\$3.117) Developed and integrated enhancements to the effectiveness, operability, and safety of the F/A-18 Weapon System (airframe, avionics, and weapons) and subsystems to include (MIDS), AIM-9X, and Tactical Aircraft Moving Map Capability (TAMMAC). Continued to investigate deficiencies and develop corrective action. Successfully completed LRIP II decision in support of Lot 24 Airborne Launch Control System (ALCs). Continued DT evaluation and OPEVAL for subsystems.
- *(U) (\$18.328) Continued development of DCS, PIDS, and JHMCS.
- *(U) (\$1.989) Congressional add for BOL CHAFF development (Funds being reprogrammed).
- *(U) (\$86.140) Continued ATFLIR development, DT-IIA testing and start DT-IIB testing.
- *(U) (\$54.798) Continued conversion of the System Configuration Set (SCS) to a High Order Language (HOL). Commenced development of ACS to enable Independent Weapon System Operator functionalities.
- * (U) (\$4.911) Initiated development studies and software improvements for Radar Electronic Counter- Counter Measures (ECCM) and ID techniques.

CLASSIFICATION:

| EXHIB | IT R-2a, RDT&E Project Justification | | DATE: |
|-------------------------------|--------------------------------------|----------------------|--------|
| | June 2001 | | |
| APPROPRIATION/BUDGET ACTIVITY | PROJECT NUMBER AND NA | AME | |
| RDT&E, N / BA-7 | 02014136N F/A-18 SQUADRONS | E1662 F/A-18 IMPROVE | EMENTS |

2. FY 2001 PLANS:

- * (U) (\$.786) Continue to conduct engineering analysis and develop improvements to existing systems and subsystems for deficiencies identified during development of the aircraft. Provide technical support for the integration of new weapons and systems.
- * (U) (\$7.080) Continue to develop and integrate enhancements to the effectiveness, operability, and safety of the F/A-18 Weapon System (airframe, avionics, and weapons) and subsystems to include MIDS, AIM-9X, and TAMMAC. Continue to investigate deficiencies and develop corrective action.
- * (U) (\$9.178) Complete development of DCS and PIDS. Continue development of JHMCS.
- * (U) (\$29.553) Continue ATFLIR development, DT-IIA and DT-IIB. Commence DT-IIC testing.
- * (U) (\$64.978) Continue software conversion from assembly language SCS to a Higher Order Language for load H1E. Continue development of Advanced Crew Station (ACS). Operational Assessment (OA) testing is planned to commence upon completion of DT testing.
- * (U) (\$2.580) Portion of extramural program reserved for Small Business Innovation Research assessment in accordance with 15 USC 68.
- 3. FY 2002 PLANS:
- * (U) (\$1.455) Continue to conduct engineering analysis and develop improvements to existing systems and subsystems for deficiencies identified during development of the aircraft. Provide technical support for the integration of new weapons and systems.
- * (U) (\$11.739) Continue to develop and integrate enhancements to the effectiveness, operability, and safety of the F/A-18 Weapon System (airframe, avionics, and weapons) and subsystems to include MIDS, and completion of AIM-9X and TAMMAC development. Continue to investigate deficiencies and develop corrective action.
- * (U) (\$.398) Complete development of JHMCS.
- * (U) (\$43.651) Continue ATFLIR development, DT-IIC testing and commence TECHEVAL and OTRR testing.
- * (U) (\$79.281) Continue software conversion from assembly language SCS to a Higher Order Language for load H1E. Commence HOL software development load H2E. Continue Advanced Crew Station (ACS).

CLASSIFICATION:

| | EXHIBIT R-2a, R | RDT&E P | roject Justific | ation | | | DATE: |
|--------------------------------|-----------------|----------|-----------------|------------|---------|---------------|-----------|
| | | | | | | | June 2001 |
| APPROPRIATION/BUDGET A | CTIVITY PROGR | RAM ELEN | MENT NUMBER | R AND NAME | PROJECT | NUMBER AND N | AME |
| RDT&E, N / BA-7 | 020141 | 136N F/A | -18 SQUADRO | NS | E1662 | F/A-18 IMPROV | EMENTS |
| (I) D DDOODANA OHANOE OI | I IMMA A DV | | | | | | |
| (U) B. PROGRAM CHANGE SU | UMMARY: | | | | | | |
| | <u>FY</u> | Y2000 | FY2001 | FY2002 | | | |
| (U) FY 2001 President's Budge | et: 17 | 75.130 | 124.842 | 89.444 | | | |
| (U) Adjustments from the Presi | ident's Budget: | -3.091 | -10.687 | 47.112 | | | |
| (U) FY 2002 President's Budge | et Submit: 17 | 72.039 | 114.155 | 136.556 | | | |
| CHANGE SUMMARY EXPLANAT | TION: | | | | | | |

(U) Funding: The FY 2000 net decrease of \$3.091 million consists of a decrease of \$.686 million for a Congressional Rescission, a decrease of \$3.066 million for a Small Business Innovation Research assessment, an increase of \$4.0 million for Higher Order Language (HOL) development efforts, a decrease of \$.012 million for a Federal Technology Transfer, and a decrease of \$3.327 million for reprioritization of requirements within the Navy. *(Note 1) The FY 2001 net decrease of \$10.687 million is due to a decrease of \$.839 million for a Congressional Reduction, a \$4.0 million Congressional reduction against ATFLIR, a \$1.0 million Congressional reduction against Joint Helmet Mounted Cueing System (JHMCS), a decrease of \$.261 million for a Congressional Rescission, and a decrease of \$4.587 million for reprioritization of requirements within the Navy. The FY 2002 net increase of \$47.080 million consists of an increase of \$39.400 million for ATFLIR restructure (from APN-1), a decrease of \$.147 million for economic assumptions, an increase of \$18.150 million for Higher Order Language (HOL) development, and a decrease of \$10.323 million for reprioritization of requirements within the Navy.

*Note 1: BOL CHAFF Funding reported under E1662, however the funds remain on OSD deferral pending Congressional approval of a reprogramming action.

(U) Schedule: Not applicable.

(U) Technical: Not applicable

(U) C. OTHER PROGRAM FUNDING SUMMARY:

| Line Item No. & Name | FY 2000 | FY 2001 | FY 2002 | FY 2003 | FY 2004 | FY 2005 | FY 2006 | FY 2007 | To Complete |
|----------------------|---------|----------|----------|---------|---------|---------|---------|---------|-------------|
| APN-1 (E/F) | 2832.64 | 2850.619 | 3156.398 | | | | | | |
| APN-5 | 317.666 | 261.789 | 193.206 | | | | | | |

Related RDT&E

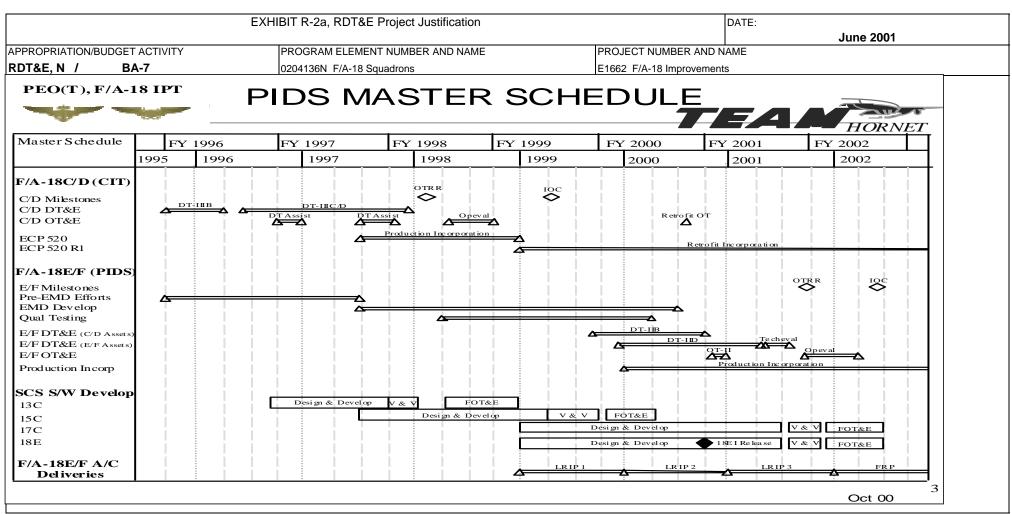
- (U) P.E. 0207163N Advanced Medium Range Air-to-Air Mis (U) P.E. 0604777N Navigation ID System, project X0921, NAVSTAR GPS equipment
- (U) P.E. 0604727N Joint Stand-off Weapon (JSOW) System(U) P.E. 0404215N Standards Development

(U) P.E. 0604270N EW Development (U) P.E. 0204136N Radar Upgrade (AESA)

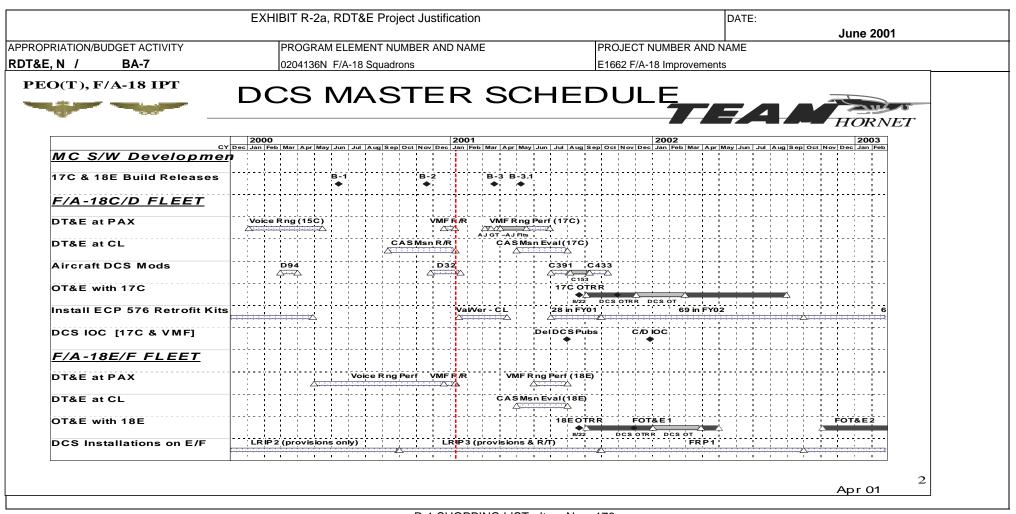
CLASSIFICATION:

| | EXHIBIT R-2a, RDT&E Project Justification | | DATE: |
|--|--|--|---|
| | EXTIBIT IN 24, INDIAL Project dustilled from | | JUNE 2001 |
| APPROPRIATION/BUDGET ACTIVITY | PROGRAM ELEMENT NUMBER AND NAME | PROJECT NUMB | BER AND NAME |
| RDT&E, N / BA-7 | 0204136N/ F/A-18 SQUADRONS | E1662 F/A | A-18 IMPROVEMENTS |
| incorporation onto the F/A-18C/D as the lead The major programs within the F/A-18 Imp *PIDS. PIDS is a sole source cost plus fixe *ATFLIR. The ATFLIR development was a * Higher Order Language (HOL). The conv. Software Support Activity for the F/A-18. The Lake. As the Prime contractor for the aircraft * Advanced Crew Station. The design and c * DCS. DCS is a sole source cost plus fixed. | rovements Line are as follows: d fee contract on an R&D Basic Ordering Agreement. Will be bought as CF sole source incentive fee contract to Boeing. Boeing competed the developersion of the System Configuration Set software to HOL will be accomplished design of the software will be accomplished by Boeing under sole source it, Boeing is the design agent for software of aircraft in production. Revelopment of the Advanced Crew Station modification is sole source to Be fee contract on an R&D Basic Ordering Agreement. Equipment is GFE. It supported by SPAWAR (PMW-159), MIDS is being developed by a consoler Joint Air Force contract to Boeing. | FE through the prime contractor pment contract. The procuremed by the F/A-18 Advanced We contracts. CY2000, the controlling as the Prime aircraft contracts. | r. pent supplier is sole source to Boeing. leapons Laboratory at China Lake as the designated ract vehicle is a Technical Direction Letter contract at China tractor. |

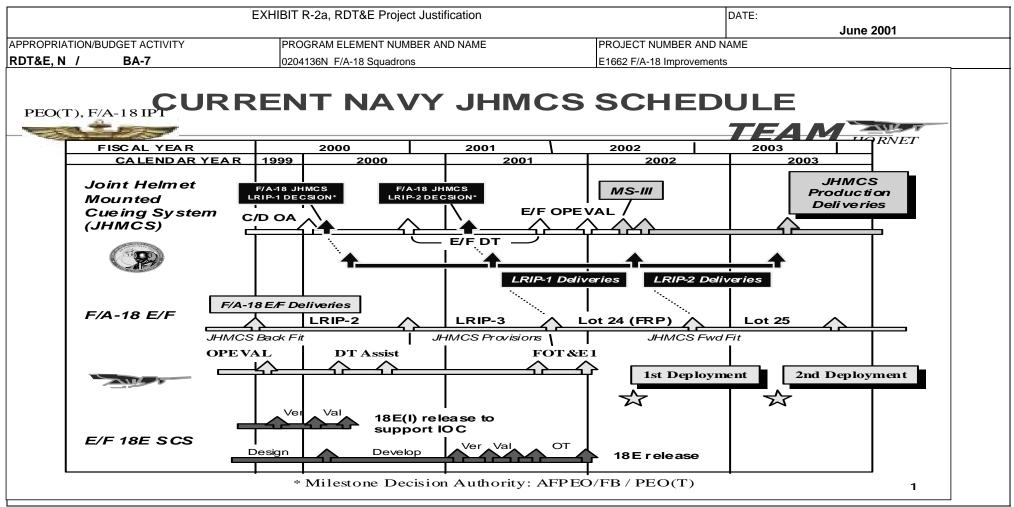
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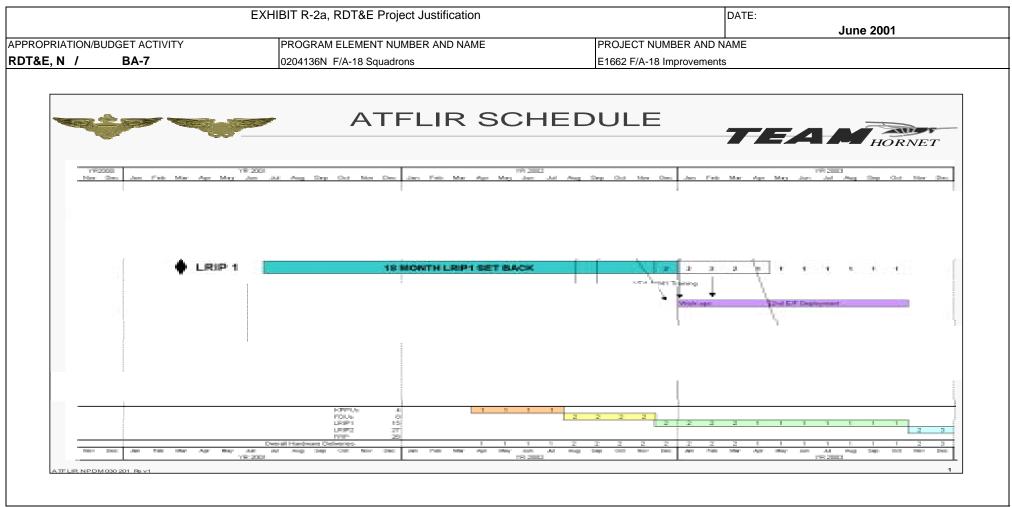
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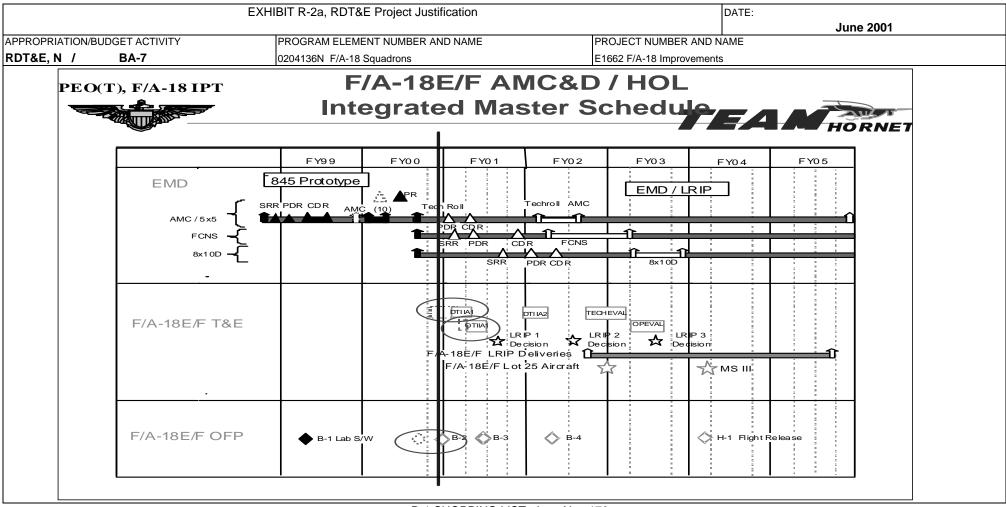
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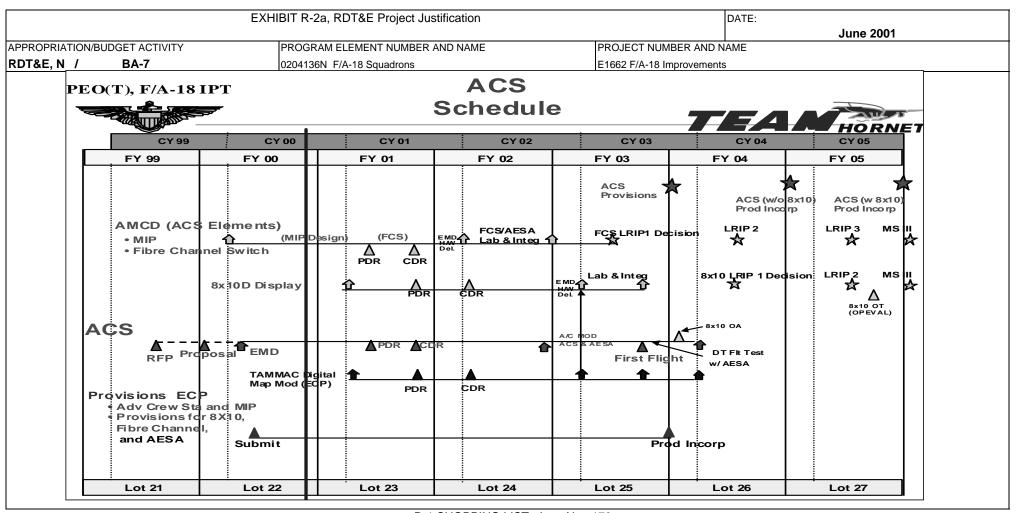
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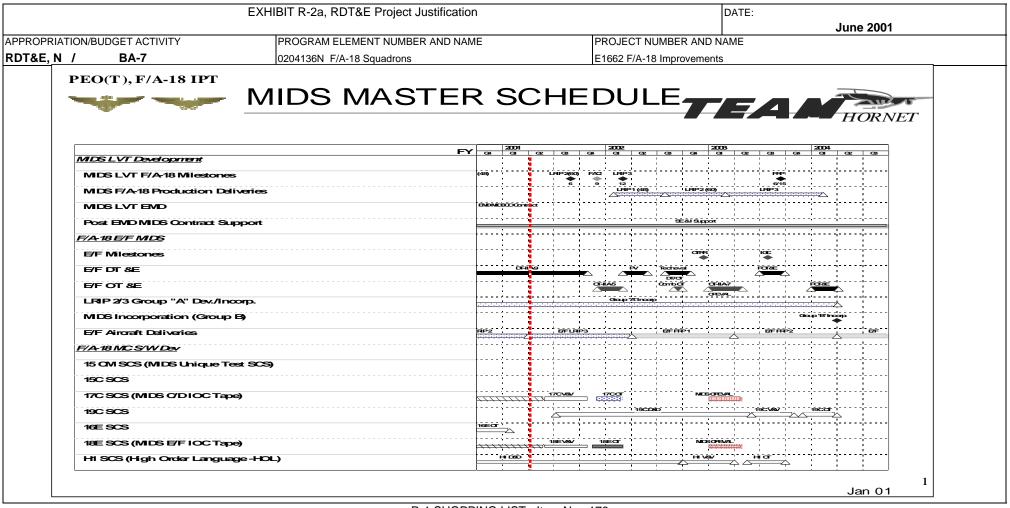
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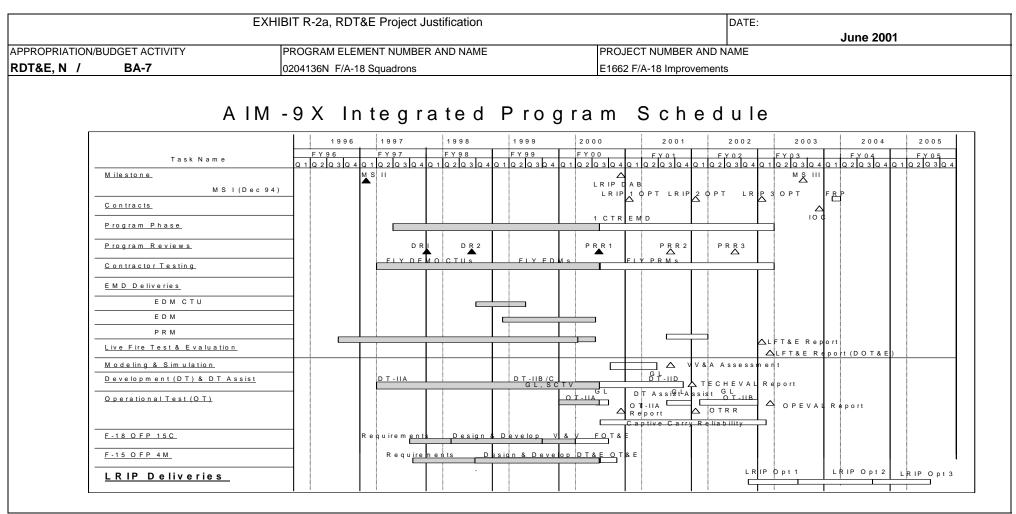
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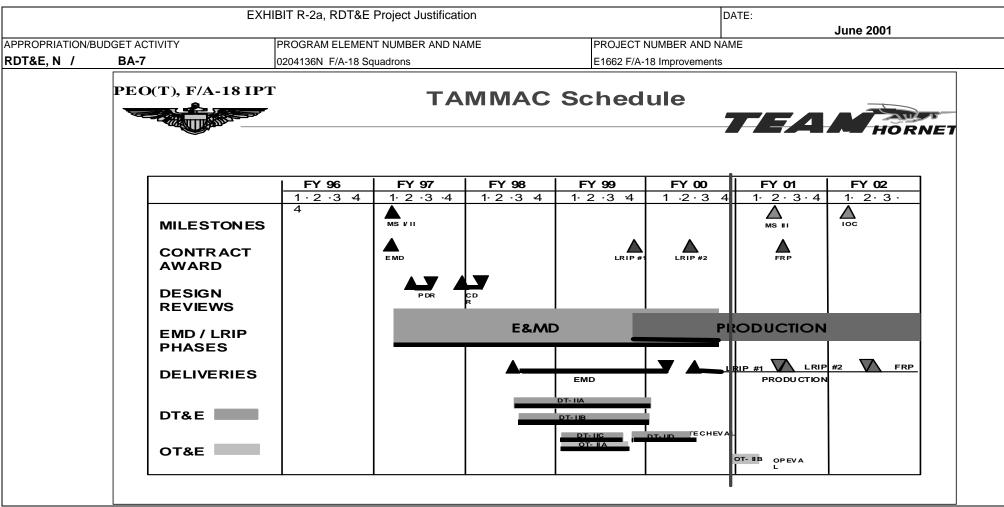
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| | | | | | | | | DATE: | | | | | |
|-------------------------------------|------------------------------|--------------------------------|-----------------------|---------------|------------------------|--------------|------------------------|--------|---------------------|---------------|--------------------------|--|--|
| Exhibit R-3 Cost Analysis (page 1 | 1) | | | | | | | | June | 2001 | | | |
| APPROPRIATION/BUDGET ACTIVITY | | PROGRAM ELEM | | | | PROJECT NU | | | | | | | |
| RDT&E, N / BA-7 | | 0204136N F/A-18 | | | | E1662 F/A-18 | | EMENTS | | | | | |
| Cost Categories | Contract Method & Type | Performing Activity & Location | Total PY s Cost | FY 01 Cost | FY 01 Award Date | FY 02 | FY 02 Award Date | | Cost to Complete | Total Cost | Target Value of Contract | | |
| PIDS/DCS Development/integration | SS/CPFF/FFP | MDA-ST LOUIS,MO | 70.245 | 3.190 | 01/01 | | | | | | | | |
| DCS E&MD | SS/FFP | Rockwell-Collins C.Rapids, IA | 16.196 | | | | | | | | | | |
| ATFLIR E&MD (Basic Contract) note 1 | SS/CPIF/AF | MDA-ST LOUIS,MO | 39.949 | | | | | | | | | | |
| ATFLIR AWARD FEE (note 1) | | | 0.803 | | | | | | | | | | |
| ATFLIR EMD (OPTION CONTRACT) | SS/CPIF/AF | MDA-ST LOUIS, MO | 62.703 | 20.000 | 10/00 | 39.555 | 06/02 | | | | | | |
| ATFLIR AWARD FEE (note 1) | | | 0.773 | | | | | | | | | | |
| ATFLIR SUPPORT EQUIPMENT | WX | NAWCAD-LAKEHURST NJ | 9.003 | 2.500 | 11/00 | | | | | | | | |
| ADVANCED CREW STATION | SS/CPIF | MDA-ST LOUIS, MO | 4.081 | 16.946 | 11/00 | 18.739 | 11/01 | | | | | | |
| HOL CONVERSION | TDL | NAWCWD-CHINA LAKE | 38.085 | 32.629 | 11/00 | 25.122 | 11/01 | | | | | | |
| HOL CONVERSION | SS/CPIF | NAWCWD-CHINA LAKE | 13.802 | 2.229 | 11/00 | 4.545 | 11/01 | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| JHMCS E&MD | MIPR | WPAFB DAYTON, OHIO | 13.876 | 2.968 | 11/00 | | | | | | | | |
| MISCELLANEOUS DEVELOPMENT | VARIOUS | VARIOUS | 22.315 | 0.240 | 10/00 | 0.253 | 11/01 | | | | | | |
| SOFTWARE DEVELOPMENT | WX | NAWCWD-CHINA LAKE | 63.241 | 19.633 | 10/00 | 30.111 | 11/01 | | | | | | |
| MISC. PRODUCT DEVELOPMENT | WX | OTHER FIELD ACTIVITIES | 2.219 | 2.978 | 10/00 | 8.993 | 11/01 | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| Prior Year Costs (Note 2) | Various | Various | 2,567.069 | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| Subtotal Product Development | | | 2,924.360 | 103.313 | | 127.318 | | | | | | | |

Remarks: Note 1: FY99 and prior year award fee earned is 74.7% (ATFLIR)

Note 2: Prior year costs (FY95 & prior) not broken out into separate categories.

CLASSIFICATION:

| | | | | | | | | DATE: | | | |
|---------------------------------|------------------|-----------------------|--------------|---------------|---------------|---------------|---------------|----------|---------------------|--|--------------------------|
| Exhibit R-3 Cost Analysis (pa | ge 2) | | | | | | | | June 2001 | | |
| APPROPRIATION/BUDGET ACTIV | /ITY | PROGRAM E | LEMENT | | | PROJECT N | JMBER AND | NAME | | | |
| RDT&E, N / BA-7 | | | F/A-18 SQUAD | RONS | | E1662 | F/A-18 IMPR | OVEMENTS | | | |
| Cost Categories | Contract | | Total | | FY 01 | | FY 02 | | | L | |
| | Method & Type | | PY s Cost | FY 01 Cost | Award Date | FY 02 Cost | Award Date | | Cost to Complete | Total Cost | Target Value of Contract |
| Developmental Test & Evaluation | WX | NAWCAD, PAX RIVER, MD | 1 | | 1 | 5.195 | | | Complete | Cost | or Contract |
| Operational Test & Evaluation | WX | OPTEVFOR, NORFOLK, VA | | 1 | • | 2.436 | | | | | + |
| Operational Test & Evaluation | VVA | OPTEVFOR, NORFOLK, VA | 1.713 | 1.232 | 11/00 | 2.430 | 11/01 | | | + | _ |
| | | | | | | | | | | | |
| Subtotal T&E | | | 39.201 | 7.057 | , | 7.631 | 1 | | | | |
| | * | | • | • | • | | • | - | • | - | - |
| Remarks: | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| CONTRACT SUPP/TRL/MISC | VARIOUS | NAVAIR, PAX RIVER, MD | 8.103 | 1.205 | 11/00 | 1.575 | 11/01 | | | | T |
| SBIR Assessment | | | | 2.580 | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| Subtotal Management | | | 8.103 | 3.785 | 5 | 1.575 | 5 | | | | |
| | | | | | | | | | | | |
| Remarks: | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| Total Cost | | | 2,971.664 | 114.155 | 5 | 136.524 | 1 | 0.000 | 0.000 | 3,222.343 | 3 |
| 10101 0001 | | | 2,01 1.00 1 | | <u> </u> | 100.02 | .1 | 0.000 | 0.000 | | <u>-1</u> |
| | | | | | | | | | | | |
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CLASSIFICATION:

| E | EXHIBIT R-2a, RDT&E Project Justification | | | | | | | | | | |
|-----------------------------------|---|------------|--------------|---------|---------|------------|------------|---------|---------|------------------|---------|
| | | Ju | ne 2001 | | | | | | | | |
| APPROPRIATION/BUDGET ACTIVITY | PROGRAM EL | EMENT NUME | BER AND NAME | E | | PROJECT NU | MBER AND N | AME | | | |
| RDT&E, N / BA-7 | 0204136N/ F | F/A-18 SQU | ADRONS | | | E2065 RAD | AR UPGRADE | | | | |
| | Prior | | | | | | | | | | Total |
| COST (\$ in Millions) | Years Cost | FY 2000 | FY 2001 | FY 2002 | FY 2003 | FY 2004 | FY 2005 | FY 2006 | FY 2007 | Cost to Complete | Program |
| Project Cost | 299.116 | 3.652 | 102.987 | 115.455 | | | | | | | |
| RDT&E Articles Qty Not applicable | | | | | | | | | | | |

(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION: The Active Electronically Scanned Array (AESA) development program, began in FY 1999. It is the last of three pre-planned upgrades to the F/A-18 Type/Model/Series radar. The AESA corrects operational test deficiencies noted in the AN/APG-73. It provides for multi-target tracking, SAR imagery, SAR TLE, and improved spotlight map resolution. In addition, it provides for greater lethality than previous F/A-18 radars by allowing for full tactical support of existing and planned air-to-air (A/A) and air-to-ground (A/G) weapons, significantly increasing A/A and A/G detection and tracking ranges. The AESA provides greater survivability through self-protection and standoff jamming capabilities, while its greater range allows for reduced detection by enemy radar. The AESA is also more affordable than previous radars. Significant savings in operation and support costs can be realized through a five fold increase in reliability over the AN/APG-73 as well as incorporating open architecture and Higher Order Language software. Additionally, savings can be realized by avoiding parts obsolescence redesign costs that will be experienced on the AN/APG-65 and AN/APG-73.

(U) PROGRAM ACCOMPLISHMENTS AND PLANS:

- 1. FY 2000 ACCOMPLISHMENTS:
 - (U) (\$2.300) Continued Pre-EMD AESA radar development activities.
 - (U) (\$.422) Commenced software development and systems integration efforts.
 - (U) (\$.865) Commenced radar development/planning and prepared Milestone II documentation.
 - (U) (\$.065) Started Integrated Logistics Support Efforts.
- 2. FY 2001 PLANS:
 - (U) (\$79.600) Commence EMD. Conduct Critical Design Reviews (CDR's), Integrated Forebody testing, and radar cross-section assessments. Conduct Preliminary Design Review (PDR). Conduct Integrated Baseline Review and Quarterly Program Review.
 - (U) (\$3.408) Pre-EMD component procurement.
 - (U) (\$.140) Commence Applied Physics Laboratory workload.

CLASSIFICATION:

| | EXHIBIT R-2a, RDT&E Project Justification | DATE: | |
|-------------------------------|---|-------------------------|--|
| | | June 2001 | |
| APPROPRIATION/BUDGET ACTIVITY | PROGRAM ELEMENT NUMBER AND NAME | PROJECT NUMBER AND NAME | |
| RDT&E, N / BA-7 | 0204136N F/A-18 SQUADRONS | E2065 RADAR UPGRADE | |
| | | | |

- (U) PROGRAM ACCOMPLISHMENTS AND PLANS: (Con't)
 - 2. FY 2001 PLANS (Con't):
 - (U) (\$4.500) Continue software development and systems integration efforts.
 - (U) (\$12.204) Continue radar development/planning and prepare Milestone II decision documentation.
 - (U) (\$.417) Continue Integrated Logistics Support Efforts.
 - (U) (\$2.718) Portion of extramural program reserved for Small Business Innovation Research assessment in accordance with 15 USC 68.
 - 3. FY 2002 PLANS:
 - (U) (\$87.987) Continue EMD efforts and radar cross-section assessments. Conduct Quarterly Program Review.
 - (U) (\$7.000) Continue software development and systems integration efforts.
 - (U) (\$19.875) Continue radar development/planning.
 - (U) (\$.572) Continue Integrated Logistics Support Efforts.

CLASSIFICATION:

| | EXHIE | IT R-2a, RDT&E | Project Justi | fication | | DATE: |
|---|--|--|----------------------------------|--|--------------------------------------|--|
| | | | | | | June 2001 |
| APPROPRIATION/BUDG | SET ACTIVITY | PROGRAM EL | EMENT NUMB | ER AND NAME | PROJECT NUMBER AND N | NAME |
| RDT&E, N / | BA-7 | 0204136N | F/A-18 SQL | JADRONS | E2065 RADAR UPGRAD | E |
| (U) B. PROGRAM CHAN | CE CLIMMADV: | | | | | |
| (U) B. PROGRAM CHAN | GE SUMMART. | | | | | |
| | | FY2000 | FY2001 | FY2002 | | |
| (U) FY 2001 President's | | 3.920 | 104.098 | 106.936 | | |
| (U) Adjustments from the | o o | -0.268 | -1.111 | 8.519 | | |
| (U) FY 2002 President's | Budget Submit: | 3.652 | 102.987 | 115.455 | | |
| CHANGE SUMMARY | EXPI ANATION: | | | | | |
| OT IT WAS E SOLVINITY WATER | EXI EXIVITION. | | | | | |
| Congressional reduction consists of an increase | n, a decrease of \$.155 million for of \$15.300 million due to a crease of \$6.794 million for rep | or reprioritization of rorogram restructure/ | equirements w funding realign | ithin the Navy, and a ment from Procurem | decrease of \$.227 million for Congr | 61.111 million consists of a decrease of \$.729 million for a ressional Rescission. The FY 2002 increase of \$8.498 million te Risk Program, a decrease of \$.008 million for economic |
| (U) Technical: 1 | Not Applicable. | | | | | |
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CLASSIFICATION:

| EXHIBIT F | EXHIBIT R-2a, RDT&E Project Justification | | | | | | | | | | |
|---|--|--------------------------|---------|---------|-------------|--------------|-----------|-------------|--------------------------------------|--|--|
| | | | | | | | June 2001 | | | | |
| APPROPRIATION/BUDGET ACTIVITY | PROGRAM ELEMENT NUMBER AND NAME PROJECT NUMBER A | | | | | | AME | | | | |
| RDT&E, N / BA-7 | 0204136N F/A-18 SQUADRONS E2065 RADAR UPGRAD | | | | | | Ī | | | | |
| (U) C. OTHER PROGRAM FUNDING SUMMARY: <u>Line Item No. & Name</u> FY 2000 (2) Line Item 2 E/F APN-1 0 (1) Line Item 25 APN-5 F/18 (OSIP 38-94) 52.560 | 0 | FY 2002 32.3 3.697 | FY 2003 | FY 2004 | <u>FY 2</u> | 2005 FY 2006 | FY 2007 | To Complete | <u>Total Cost</u> 32.3 183.255 | | |

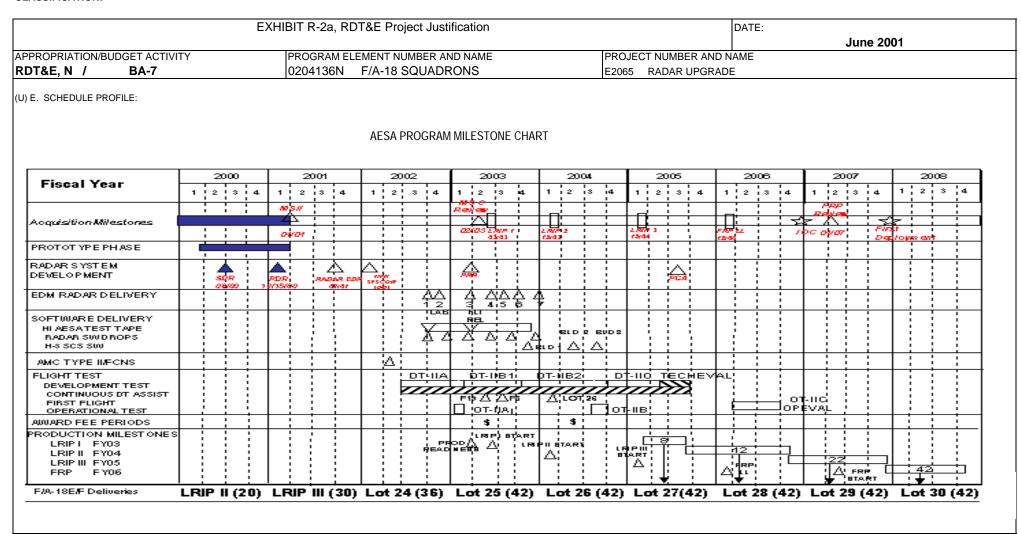
- (1) RUG Phase I and Phase II (retrofit)
- (2) RUG Phase I and AESA (production incorporated)

Related RDT&E

- (U) P.E. 0204136N F/A-18 Squadrons (Project R1662: F/A-18 Improvements High Order Language, Aft Crew Station Upgrade
- (U) P.E. 0603261N Tactical Airborne Reconnaissance
- (U) D. ACQUISITION STRATEGY: The AESA program employs a two-phase approach with sole source contracts to Boeing, the airframe prime manufacturer. Phase I is a moderate risk reduction phase conducted in FY 1999 and FY 2000. During this phase, Boeing conducted competitive source selection at the radar system subcontract level. A BOA order for RFP development and subcontractor selection was made to conduct this effort. It includes an "845" agreement for prototype development, which includes commercial development/amortization provisions. Conducting the competition early in the program allowed for focused risk reduction and contractor investment.

Phase II will consist of a typical E&MD program and development contract. The program transitions to Phase II with a successful Milestone II Decision in FY 2001. Once the program enters production, the "845" agreement allows the contractor to amortize unreimbursed development costs into the production unit cost. This strategy fully utilizes acquisition reform initiatives such as: early partnering with industry; alpha contracting; leveraging industry investment; optimizing use of Commercial Off-the Shelf software and Non-Developmental Item; Cost as an Independent Variable; and Electronic Data Deliverables.

CLASSIFICATION:



CLASSIFICATION:

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|------------------------------------|----------------------------------|-------------------------|-----------|---------|-------|------------|-------------|--------|--|-----------|-------|--------------|
| Exhibit R-3 Cost Analysis (page | e 1) | | | | | | | 271.2. | | June 2001 | | |
| APPROPRIATION/BUDGET ACTIVIT | | PROGRAM E | LEMENT | | | PROJECT NU | IMBER AND N | IAME | | | | |
| RDT&E, N / BA-7 | | 0204136N | F/A-18 SQ | UADRONS | | E2065 R/ | ADAR UPGI | RADE | | | | |
| | Contract | Performing | Total | | FY 01 | | FY 02 | | | | | |
| | Method | | | FY 01 | Award | | Award | | | Cost to | Total | Target Value |
| | & Type | | Cost | Cost | Date | | Date | | | Complete | Cost | of Contract |
| | SS/CPFF | BOEING, St Louis | 4.300 | 79.600 | | 87.987 | 11/01 | | | | | |
| AESA Radar Software Dev/Integratio | | NAWCWD, China Lake, CA | 0.822 | 4.780 | | 7.000 | 11/01 | | | | | |
| | WX | NAWCAD, Pax River, MD | 0.904 | 14.588 | 11/00 | 16.173 | 11/01 | | | | | |
| RUG Phase I | SS/LTR(FPIF) | BOEING, St Louis | 171.000 | | | | | | | | | |
| RUG Phase II | CPIF | BOEING, St Louis | 51.729 | | | | | | | | | |
| RUG Phase II Integration | CPFF | BOEING, St Louis | | | | | | | | | | |
| SBIR Assessment | | | | 2.718 | | | | | | | | |
| Subtotal Product Development | | | 239.755 | 101.686 | | 111.160 | | | | | | |
| | | | | | | | | | | | | |
| AESA Integrated Support | WX | NADEP, North Island, Ca | 0.065 | 0.108 | 11/00 | 0.146 | 11/01 | | | | | |
| | WX | NAWCAD, Lakehurst, NJ | 0.000 | | | 0.425 | 11/01 | | | | | |
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| | | | | | | | | | | | | |
| Subtotal Support | | | 0.065 | 0.417 | | 0.571 | | | | | | |
| Remarks: | | | | | | | | | | | | |
| | P-1 SHODDING LIST - Itom No. 176 | | | | | | | | | | | |

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| | | | | | | | | DATE: | | | |
|---------------------------------|----------|------------------------|-----------|---------|-------|------------|-------------|-------|----------|--------|-------------|
| Exhibit R-3 Cost Analysis (pa | ge 2) | | | | | | | | June 200 |)1 | |
| APPROPRIATION/BUDGET ACTIV | | PROGRAM E | LEMENT | | | PROJECT NU | JMBER AND I | NAME | | | |
| RDT&E, N / BA-7 | | 0204136N | F/A-18 SQ | UADRONS | | E2065 RAI | | | | | |
| Cost Categories | Contract | Performing | Total | | FY 01 | | FY 02 | | | | |
| ŭ | Method | Activity & | | FY 01 | Award | FY 02 | Award | | Cost to | Total | Target Valu |
| | & Type | Location | Cost | Cost | Date | Cost | Date | | Complete | Cost | of Contract |
| AESA Test & Evaluation | WX | NAWCAD, Pax River, MD | | 2.273 | 11/00 | 2.800 | 11/01 | | | | |
| AESA Test & Evaluation | WX | NAWCWD, China Lake, CA | | | | | | | | | |
| RUG Upgrade Test & Evaluation | WX | NAWCWD, China Lake, CA | 52.956 | | | | | | | | |
| RUG Lab Asset | WX | NAWCWD, China Lake, CA | 1.370 | | | | | | | | |
| RUG OPEVAL | WX | OPTEVFOR, Norfolk, VA | 1.799 | | | | | | | | |
| RUG Upgrade Test & Evaluation | Various | Other Field Activities | 4.795 | | | | | | | | |
| Subtotal T&E | | | 60.920 | | | 2.800 |) | | | | |
| RUG Contractor Sprt/Travel/Misc | Various | NAVAIR Pax River, MD | 2.028 | 0.884 | 12/00 | 0.903 | 3 12/01 | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| Subtotal Management | | | 2.028 | 0.884 | | 0.903 | 3 | 1 | | | |
| Damada | | | | | | | | | | | |
| Remarks: | | | | | | | | | | | |
| Total Cost | | | 302.768 | 102.987 | | 115.434 | 4 | 0.000 | 155.9 | o14 67 | 7.103 |
| | 1 | I | 302.768 | 102.987 | | 115.434 | 4 | 0.000 | 155.9 | 914 67 | 7.103 |

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| | EXHIBIT R-2a, | RDT&E Pro | ject Justificat | tion | | | | DATE: | | | | |
|-------------------------------|---|------------|-----------------|---------|---------|------------|---------------------------|-----------|---------|------------------|---------|--|
| | | | | | | | | June 2001 | | | | |
| APPROPRIATION/BUDGET ACTIVITY | PROGRAM EL | EMENT NUME | BER AND NAMI | E | | PROJECT NU | MBER AND N | ÂME | | | | |
| RDT&E, N / BA-7 | CALC 18 Squadrons 0204136N/ F/A-18 Squadrons | | | | | | E2130/ Follow -On Variant | | | | | |
| | Prior | | | | | | | | | | Total | |
| COST (\$ in Millions) | Years Cost | FY 2000 | FY 2001 | FY 2002 | FY 2003 | FY 2004 | FY 2005 | FY 2006 | FY 2007 | Cost to Complete | Program | |
| Project Cost | 131.898 | 17.348 | 1.246 | | | | | | | 5,560.998 | | |
| DT&E Articles Qty 10 | | | | | | | | | | | 10 | |

(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

The F/A-18 is a twin-engine, mid-wing multi-mission, tactical aircraft employed Navy and Marine Corps strike fighter squadrons. The F/A-18 through selected use of external equipment is designed for flexibility in fighter, attack, fleet air defense, and close air support roles. The F/A-18E/F variant is an upgrade to the night attack "C" and "D" models. The F/A-18E/F will be the second major upgrade since the program's inception. The F/A-18 continues to adapt its strike fighter role to evolving threats into the next century. The F/A-18E/F E&MD program is under a Congressional mandated cost cap of \$4.883B FY90 dollars. Pre-development efforts of \$36.6M (in FY90 base year dollars), previously funded under the F/A-18C/D program, is reflected in the RDT&E total, but is not included in the approved \$4,883B development cap.

(U) PROGRAM ACCOMPLISHMENTS AND PLANS:

1. FY 2000 ACCOMPLISHMENTS:

- (U) (\$86.920) Completed engineering and manufacturing design activity in support of developmental flight test and successfully completed Milestone-III (MS-III) Defense Acquisition Board (DAB) approval for Full Rate Production.
- (U) (\$ 4.160) Continued to develop and integrate mission software.
- (U) (\$36.818) Completed DT-IIE and OT-IIC (OPEVAL) and continued integration and testing of avionics subsystems.
- (U) (\$ 4.000) Continued Test Program Set (TPS) development.

2. FY 2001 PLANS:

- (U) (\$3.228) Continue to develop and integrate mission software.
- (U) (\$7.964) Complete integration and testing of avionics subsystems.
- (U) (\$4.250) Continue Test Program Set (TPS) development.
- -(U) (\$1.729) Weapon System Integration Wind Tunnel Testing .
- (U) (\$0.177) Portion of extramural program reserved for Small Business Inovation Research Assessment in accordance with 15 USC 68.

CLASSIFICATION:

| | | EXHIBIT R-2a, RDT&E Project Justification | 1 | DATE: |
|-----------------|------------------------------|---|---------------------------|-----------|
| | | | | June 2001 |
| APPROPRIATION/E | | PROGRAM ELEMENT NUMBER AND NAME | PROJECT NUMBER AND NAM | ME |
| RDT&E, N / | BA-7 | 0204136N/ F/A-18 Squadrons | E2130/ Follow -On Variant | |
| | | | | |
| 3. FY 2 | 2002 PLANS: | | | |
| - | (U) (\$.287) Complete integ | gration and testing of avionics subsystems. | | |
| - | (U) (\$.959) Continue Test F | Program Set (TPS) development. | | |
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| | | EXHIBIT R- | 2a, RDT&E | Project Justif | fication | | | D | ATE: | | |
|---|---|--------------------------------------|------------------------------------|-------------------------------------|--------------------|--|------------------------------------|------------------------------------|-------------------------------------|---|--|
| | | | | | | | | | June 20 | 001 | |
| APPROPRIATION/BU | DGET ACTIVITY | P | ROGRAM ELE | MENT NUMBE | R AND NAME | P | ROJECT NUM | BER AND NAN | ΛE | | |
| RDT&E, N / | BA-7 | 0 | 204136N/ F/A- | 18 Squadrons | | E | 2130/ Follow -C | On Variant | | | |
| (U) B. PROGRAM CH | ANGE SUMMARY: | | FY2000 | FY2001 | FY2002 | | | | | | |
| (U) FY 2001 Presiden | t's Rudget | | 141.834 | 19.153 | 1.290 | | | | | | |
| | the President's Budget: | | -9.936 | -1.805 | -0.044 | | | | | | |
| (U) FY 2002 Presiden | 9 | | 131.898 | 17.348 | 1.246 | | | | | | |
| CHANGE SUMMAR | RY EXPLANATION: | | | | | | | | | | |
| million realignment to FY2001 net decrease | | r Higher Order I a decrease of \$ | _anguge (HOL) i.134 million due | development effort to a Congression | orts for the F/A-1 | 18E/F aircraft, a a decrease of \$. | nd a decrease of 042 million for a | \$2.451 million Congressional F | reduction for re Rescission, and | prioritization of requir a decrease of \$1.62 | rements within the Navy. The 9 million for reprioritization of |
| (U) Schedule | e: Not Applicable. | | | | | | | | | | |
| (U) Technica | al: Not Applicable. | | | | | | | | | | |
| (U) C. OTHER PROG Line Item No. | RAM FUNDING SUMMAR <u>& Name</u> | RY: <u>FY 2000</u> | FY 2001 | FY 2002 | FY 2003 | FY 2004 | FY 2005 | FY 2006 | FY 2007 | To Complete | Total Cost |
| APN-1 (Prior \$ APN-6 (Prior \$23 | · · · · | 2,832.640 80.916 | 2,850.619 117.416 | 3,156.398 108.397 | | | | | | | |
| (U) PE 060427 (U) PE 060477 (U) PE 030514 (U) PE 060326 (U) PE 020416 | | n) connaissance) s) | , | | | | | | | | |

CLASSIFICATION:

| | | EXHIBIT R-2a, RDT&E P | roject Justification | DATE: | | |
|---|---|---|--|--|---|--|
| | | | | | | June 2001 |
| APPROPRIATION/BL | | PROGRAM ELEMENT | NUMBER AND NAME | PROJECT NUMBER | AND NAME | |
| RDT&E, N / | BA-7 | 0204136N/ F/A-18 Squ | adrons | E2130/ Follow -On Va | ariant | |
| 18E/F E&MD program Production (LRIP) ph LRIP II contract. The 18E/F LRIP contract: | m. The airframe and engine ase. The airframe and engine LRIP II/III contract possess include: 1) a measurable p | contracts are incrementally funded ne contracts for this phase are Costes a common incentive profit structure. | d through FY00 and FY99, respect Plus Incentive Fee (CPIF) for ture which affords contractors midd of performance; 2) commerce | neral Electric (engine), both sole sour ectively. In March 1997, the F/A-18E/I LRIP I and Fixed Price Incentive Fee aximum opportunity to implement qua ial-like long time relationship with con | F program received approva (FPIF) for LRIP II and LRIP ality, reliability, and producit | al to enter the Low Rate Initial III. LRIP III is a priced option to the iility improvements. Benefits of the F/A- |
| (U) C. Schedule Profi | le: | | | | | |
| | | <u>FY 2000</u> | FY 2001 | <u>FY 2002</u> | FY 2003 | TO COMPLETE |
| (U) Program N | lilestones | MS-III 2Q/00 IOC 4Q/00 | | | | |
| (U) Engineerin | g Milestones | | | | | |
| (U) T&E Milest | ones | | | | | |
| (U) Contract M | lilestones | | | | | |
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|-----------------------------------|-------------|---------------------------|----------------|-------------|-------|---------------|---------------------------|-------|--|----------|-------|---------------|--|
| Exhibit R-3 Cost Analysis (page | e 1) | | | | | | | | | June 20 | 001 | | |
| APPROPRIATION/BUDGET ACTIVIT | | PROGRAM | ELEMENT NUM | BER AND NAM | E | PROJECT NU | JMBER AND N | IAME | | | | | |
| RDT&E, N / BA-7 | | 0204136N/ F | /A-18 Squadron | s | | F2130/ Folloy | E2130/ Follow -On Variant | | | | | | |
| Cost Categories | Contract | Performing | Total | Ī | FY 01 | E2100/101101 | IFY 02 | | | | | | |
| Cost Catogories | Method | Activity & | PY s | FY 01 | Award | FY 02 | Award | | | Cost to | Total | Target Value | |
| | & Type | Location | Cost | Cost | Date | Cost | Date | | | Complete | Cost | of Contract | |
| Pre-E&MD Activity | SS/CPFF | MDA, St Louis, MO | 81.785 | | 2410 | 000. | 24.0 | | | Complete | 000. | - Cr Communic | |
| Airframe E&MD | SS/CPIF/AF | MDA, St Louis, MO | 3.579.420 | | | | | | | | | | |
| Airframe E&MD Award Fee (Note 1) | | ,, - | 292.943 | | | | | | | | | | |
| Contrat OPEVAL Support | SS/CPFF/BOA | MDA, St Louis, MO | 12.084 | | | | | | | | | | |
| Pre-E&MD Activity | SS/CPFF | GE Lynn, MA | 51.500 | | | | | | | | | | |
| Engine E&MD | SS/CPFF/AF | GE Lynn, MA | 767.655 | | | | | | | | | | |
| Engine E&MD Award Fee (Note 1) | | | 48.378 | | | | | | | | | | |
| Radar Integration | SS/CPFF | Hughes California, LA, CA | 9.887 | • | | | | | | | | | |
| Miscellaneous Development Efforts | Various | Other | 22.144 | | | | | | | | | | |
| Materials Development | WX | NAWCAD, Warminister, PA | 20.302 | | | | | | | | | | |
| Software Development | WX | NAWCWD, China Lake, CA | 59.523 | 3.228 | 10/00 | | | | | | | | |
| Support Equipment Development | WX | NAWCAD, Lakehurst, NJ | 39.101 | 3.250 | | 0.959 | 10/01 | | | | | | |
| Maintenance Support Planning | WX | NADEP, North Island, CA | 10.930 | | 10/00 | | | | | | | | |
| Avionics Support | WX | NAWCAD, Indianapolis, IN | 9.502 | | | | | | | | | | |
| Misc Product Development/GFE | WX | Other Field Activities | 151.961 | | | 0.087 | 7 10/01 | | | | | | |
| SBIR Assessment | | | | 0.177 | | | | | | | | | |
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| 0.144418-1-4-8-4-4-4-4-4 | | | 5 457 115 | 40.000 | | | | 1 | | | | | |
| Subtotal Product Development | | | 5,157.115 | 13.952 | | 1.046 | o | | | | | | |

Remarks

Note 1: Award Fees included in the total contract value. FY00 and prior year award fee earned is 96.4%

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| Exhibit R-3 Cost Analysis (pa | | Innontin | . = = | 050 4110 114 | | Inno Inno | | 1445 | June 20 | 101 | |
| APPROPRIATION/BUDGET ACT | VIIY | | LEMENT NUM | | ME | | UMBER AND N | NAME | | | |
| RDT&E, N / BA-7 | | | A-18 Squadron | S | _ | E2130/ Folly | | | | | |
| Cost Categories | Contract | | Total | | FY 01 | | FY 02 | | | | |
| | Method | Activity & | PY s | FY 01 | Award | FY 02 | Award | | Cost to | Total | Target Value |
| | & Type | Location | Cost | Cost | Date | Cost | Date | | Complete | Cost | of Contract |
| Flying Qualities and Performance | MIPR | NASA Langley, AFB | 7.306 | | | | | | | | |
| Operational Test & Evaluation | WX | COMOPTEVFOR Norfolk, V | | | 8 10/00 | | | | | | |
| Integrated Test Team | WX | NAWCAD, Pax River MD | 253.228 | | | | | | | | |
| Wind Tunnel Testing | MIPR | AEDC, TN | 44.410 | | 1 10/00 | | | | | | |
| Misc Test & Evaluation | Various | | 7.108 | | | | | | | | |
| | | | | | | | | | | | |
| Subtotal T&E | | | 323.060 | 1.72 | 9 | | | | | | |
| Contractor Support/Misc. | RX | Various | 58.908 | 0.92 | 7 10/00 | | | | | | |
| Travel | WX | NAVAIR, Maryland | 2.972 | | | 0.20 | 0 10/01 | | | | |
| Transportation | WX | NAVAIR, Maryland | 0.349 | | | 0.20 | 10/01 | | | | |
| Transportation. | | Turvi mit, maryiana | 0.0.0 | 0.10 | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| Subtotal Management | | | 62.229 | 1.66 | 7 | 0.20 | 00 | | | | |
| Remarks: | | | | | | | | | | | |
| Total Cost | | | 5,542.404 | 17.34 | 8 | 1.24 | -6 | 0.000 | 0 | .000 | |
| Remarks: There are no Support | Costs. | | | | | | | | | | |