

CLASSIFICATION:

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[illegible]

U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

The EA-18G is designed to replace the EA-6B aircraft. The EA-18G's electronic attack upgrades will meet EA-6B (with LR-700, ALQ-99, USQ-113) Airborne Electronic Attack (AEA) capability to detect, identify, locate and suppress hostile emitters; provide enhanced connectivity to National, Theater and Strike assets; and provide organic precision emitter targeting for employment of onboard suppression weapons High-speed Anti-Radiation Missile (HARM) to fulfill operational requirements. The EA-18G will have the capability to operate autonomously or as a major node in a network-centric operation. The performance of the aircraft is compatible with the primary strike/fighter aircraft projected to be in the inventory in the 2010 time period, allowing it to be fully integrated into specific strike packages. It will also have the capacity to provide broad area coverage for extended periods of time to support numerous strikes or other air operations in a federated context. The EA-18G is a scaleable, flexible solution that facilitates "Task Organized" force structures. The task organized force structures employ adequate forces to accomplish a specific task while maintaining the operation and personnel tempo at acceptable levels. The EA-18G is being designed to perform a range of Electronic Warfare/Electronic Attack functions either simultaneously or independently. The man in the loop operation and advanced information display system will allow real time assessment of the tactical situation and the appropriate response executed in accordance with the rules of engagement.

* The FY 2004 funding was executed under PE 0604270N PU 3063.

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| EXHIBIT R-2a, RDT&E Project Justification | | | | | | | DATE: February 2005 | |
| APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-5 | | PROGRAM ELEMENT NUMBER AND NAME 0604269N EA-18G | | | PROJECT NUMBER AND NAME 3063 EA-18G DEVELOPMENT | | | |
| COST (\$ in Millions) | FY 2004 | FY 2005 | FY 2006 | FY 2007 | FY 2008 | FY 2009 | FY 2010 | FY 2011 |
| Project Cost | [*] 203.737 | 353.679 | 409.097 | 372.023 | 268.309 | 82.264 | 84.089 | 85.738 |
| RDT&E Articles Qty | | | | | | | | |

A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

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| EXHIBIT R-2a, RDT&E Project Justification | | | DATE: February 2005 | | | | | | | | | | | | | | | | |
| APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-5 | PROGRAM ELEMENT NUMBER AND NAME 0604269N EA-18G | PROJECT NUMBER AND NAME 3063 EA-18G DEVELOPMENT | | | | | | | | | | | | | | | | | |
| B. Accomplishments/Planned Program | | | | | | | | | | | | | | | | | | | |
| <table border="1" style="width: 100%; border-collapse: collapse;"><tr><td style="width: 30%;">AEA Follow On</td><td style="width: 15%;">FY 04</td><td style="width: 15%;">FY 05</td><td style="width: 15%;">FY 06</td><td style="width: 15%;">FY 07</td></tr><tr><td>Accomplishments/Effort/Subtotal Cost</td><td>173.270</td><td>302.793</td><td>320.268</td><td>268.242</td></tr><tr><td>RDT&E Articles Quantity</td><td></td><td></td><td></td><td></td></tr></table> <div style="border: 1px solid black; height: 60px; margin-top: 10px; padding: 5px;">- Continue Air Vehicle Design and Integration of ICAP III Avionics into the EA-18G.</div> | | | | | AEA Follow On | FY 04 | FY 05 | FY 06 | FY 07 | Accomplishments/Effort/Subtotal Cost | 173.270 | 302.793 | 320.268 | 268.242 | RDT&E Articles Quantity | | | | |
| AEA Follow On | FY 04 | FY 05 | FY 06 | FY 07 | | | | | | | | | | | | | | | |
| Accomplishments/Effort/Subtotal Cost | 173.270 | 302.793 | 320.268 | 268.242 | | | | | | | | | | | | | | | |
| RDT&E Articles Quantity | | | | | | | | | | | | | | | | | | | |
| <table border="1" style="width: 100%; border-collapse: collapse;"><tr><td style="width: 30%;">AEA Follow On</td><td style="width: 15%;">FY 04</td><td style="width: 15%;">FY 05</td><td style="width: 15%;">FY 06</td><td style="width: 15%;">FY 07</td></tr><tr><td>Accomplishments/Effort/Subtotal Cost</td><td>24.069</td><td>43.219</td><td>49.939</td><td>45.734</td></tr><tr><td>RDT&E Articles Quantity</td><td></td><td></td><td></td><td></td></tr></table> <div style="border: 1px solid black; height: 60px; margin-top: 10px; padding: 5px;">- Continue Software Development of the EA-18G.</div> | | | | | AEA Follow On | FY 04 | FY 05 | FY 06 | FY 07 | Accomplishments/Effort/Subtotal Cost | 24.069 | 43.219 | 49.939 | 45.734 | RDT&E Articles Quantity | | | | |
| AEA Follow On | FY 04 | FY 05 | FY 06 | FY 07 | | | | | | | | | | | | | | | |
| Accomplishments/Effort/Subtotal Cost | 24.069 | 43.219 | 49.939 | 45.734 | | | | | | | | | | | | | | | |
| RDT&E Articles Quantity | | | | | | | | | | | | | | | | | | | |
| <table border="1" style="width: 100%; border-collapse: collapse;"><tr><td style="width: 30%;">AEA Follow On</td><td style="width: 15%;">FY 04</td><td style="width: 15%;">FY 05</td><td style="width: 15%;">FY 06</td><td style="width: 15%;">FY 07</td></tr><tr><td>Accomplishments/Effort/Subtotal Cost</td><td>6.398</td><td>7.667</td><td>38.890</td><td>58.047</td></tr><tr><td>RDT&E Articles Quantity</td><td></td><td></td><td></td><td></td></tr></table> <div style="border: 1px solid black; height: 60px; margin-top: 10px; padding: 5px;">- Start developmental testing/operational testing and planning for the EA-18G.</div> | | | | | AEA Follow On | FY 04 | FY 05 | FY 06 | FY 07 | Accomplishments/Effort/Subtotal Cost | 6.398 | 7.667 | 38.890 | 58.047 | RDT&E Articles Quantity | | | | |
| AEA Follow On | FY 04 | FY 05 | FY 06 | FY 07 | | | | | | | | | | | | | | | |
| Accomplishments/Effort/Subtotal Cost | 6.398 | 7.667 | 38.890 | 58.047 | | | | | | | | | | | | | | | |
| RDT&E Articles Quantity | | | | | | | | | | | | | | | | | | | |

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| EXHIBIT R-2a, RDT&E Project Justification | | | DATE: February 2005 | |
| APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-5 | PROGRAM ELEMENT NUMBER AND NAME 0604269N EA-18G | PROJECT NUMBER AND NAME 3063 EA-18G DEVELOPMENT | | |

C. PROGRAM CHANGE SUMMARY:

| Funding: | FY 04 | FY 05 | FY 06 | FY 07 |
|--|---------|---------|---------|---------|
| Previous President's Budget: | 215.431 | 357.502 | 407.106 | 368.688 |
| Current BES/President's Budget | 203.737 | 353.679 | 409.097 | 372.023 |
| Total Adjustments | -11.694 | -3.823 | 1.991 | 3.335 |
| Summary of Adjustments | | | | |
| Congressional program reductions | | | | |
| Congressional undistributed reductions | | -3.347 | | |
| Congressional rescissions | | | | |
| SBIR/STTR Transfer | | | | |
| Other adjustments | | -0.476 | -2.313 | -1.903 |
| Economic Assumptions | -0.200 | | 4.304 | 5.238 |
| Reprogrammings | -11.494 | | | |
| Congressional increases | | | | |
| Subtotal | -11.694 | -3.823 | 1.991 | 3.335 |

Schedule:

PDR and CDR was moved at MS B decision to account for subsystem PDR and IBR schedule.

Technical:

Not Applicable

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Exhibit R-2, RD TEN Budget Item Justification
(Exhibit R-2, page 4 of 10)

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| EXHIBIT R-2a, RDT&E Project Justification | | | | | | | DATE: February 2005 | | |
| APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-5 | | | PROGRAM ELEMENT NUMBER AND NAME 0604269N EA-18G | | | PROJECT NUMBER AND NAME 3063 EA-18G DEVELOPMENT | | | |

D. OTHER PROGRAM FUNDING SUMMARY:

| <u>Line Item No. & Name</u> | <u>FY 2004</u> | <u>FY 2005</u> | <u>FY 2006</u> | <u>FY 2007</u> | <u>FY 2008</u> | <u>FY 2009</u> | <u>FY 2010</u> | <u>FY 2011</u> | <u>To Complete</u> | <u>Total Cost</u> |
|--|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|--------------------|-------------------|
| P-1 LINE ITEM 2 & 3: EA-18G | | 8.211 | 336.661 | 891.507 | 1,308.289 | 1,627.333 | 1,469.445 | 1,083.602 | 0.000 | 6,725.048 |
| APN-1 (EA-18G Weapons System Cost) | | | | | | | | | | |
| Related RDT&E | | | | | | | | | | |
| (U) 0604270N E0556 EW Counter Repsonse | | | | | | | | | | |
| (U) 0604270N E3063 AEA Follow On | | | | | | | | | | |

E. ACQUISITION STRATEGY:

Development of EA-18G is based on the findings of an OSD sponsored Analysis of Alternatives and a Navy sponsored Refinement of Alternatives study. A sole source contract has been awarded to Boeing (the platform manufacturer) for system design and development. Boeing is under contract with Northrop Grumman to incorporate Electronic Warfare/Electronic Attack systems into the Super Hornet. The contract has been structured to minimize the Navy's up-front investment and cancellation penalty while reducing costs for the total program life cycle. The Cost-Plus Award Fee (CPAF) contract arrangement provides incentives based on cost, schedule, and technical performance. Starting in FY05 two F/A-18F's will be modified with RDT&E to incorporate the Electronic Warfare/Electronic Attack systems for further development, integration, and testing.

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| Exhibit R-3 Cost Analysis (page 1) | | | | | | | | DATE: February 2005 | | | | |
|--|------------------------|--------------------------------|-----------------|------------|------------------|-------------------------|------------------|----------------------------|------------------|------------------|------------|--------------------------|
| APPROPRIATION/BUDGET ACTIVITY | | | PROGRAM ELEMENT | | | PROJECT NUMBER AND NAME | | | | | | |
| RDT&E, N / BA-5 | | | 0604269N EA-18G | | | 3063 EA-18G DEVELOPMENT | | | | | | |
| Cost Categories | Contract Method & Type | Performing Activity & Location | Total PY s Cost | FY 05 Cost | FY 05 Award Date | FY 06 Cost | FY 06 Award Date | FY 07 Cost | FY 07 Award Date | Cost to Complete | Total Cost | Target Value of Contract |
| Primary Hdw Development(Aircraft) | SS/CPAF | MDA- ST LOUIS | 159.155 | 229.149 | 10/04 | 244.085 | 10/05 | 165.519 | 10/06 | 209.840 | 1,007.748 | 1,007.748 |
| SDD Award Fee | SS/CPAF | MDA- ST LOUIS | | 13.100 | 10/04 | 12.200 | 12/05 | 19.180 | 12/06 | 42.718 | 87.198 | 87.198 |
| Primary Hdw Development(Aircraft) | Various | Various | 0.320 | 0.922 | 12/04 | 0.600 | 12/05 | 0.675 | 12/06 | 0.300 | 2.817 | |
| Primary Hdw Development(ALQ-99) | WX | NSWC CRANE | 3.028 | 8.403 | 11/04 | 8.096 | 11/05 | 8.766 | 11/06 | 8.095 | 36.388 | |
| Systems Engineering | WX | NAWCWD-CHINA LAKE | 6.822 | 11.157 | 10/04 | 14.129 | 10/05 | 29.873 | 10/06 | 39.791 | 101.772 | |
| Systems Engineering | WX | NSWC CRANE | 1.242 | 6.848 | 11/04 | 5.530 | 11/05 | 3.500 | 11/06 | 5.156 | 22.276 | |
| Systems Engineering | WX | NAWCWD-POINT MUGU | 4.878 | 8.640 | 11/04 | 10.673 | 11/05 | 11.332 | 11/06 | 15.535 | 51.058 | |
| System Engineering | WX | NAWCAD- PAX RIVER | 2.081 | 9.200 | 11/04 | 9.200 | 11/05 | 8.400 | 11/06 | 20.304 | 49.185 | |
| System Engineering | WX | NAWCAD- LAKEHURST | 2.198 | 0.600 | 12/04 | 0.200 | 11/05 | 3.200 | 11/06 | 3.780 | 9.978 | |
| GFE | Various | Various | 1.308 | 0.600 | Various | 0.100 | 12/05 | 0.200 | 11/06 | 0.150 | 2.358 | |
| | | | | | | | | | | | | |
| Subtotal Product Development | | | 181.032 | 288.619 | | 304.813 | | 250.645 | | 345.669 | 1,370.778 | |
| Remarks: | | | | | | | | | | | | |
| | | | | | | | | | | | 0.000 | |
| Software Development | SS/CPFF | MDA- ST LOUIS | 25.569 | 43.219 | 10/04 | 49.939 | 10/05 | 45.734 | 10/06 | 42.951 | 207.412 | 207.412 |
| Integrated Logistics | WX | Various | 0.498 | 0.860 | 11/04 | 0.908 | 11/05 | 0.902 | 11/06 | 2.686 | 5.854 | |
| | | | | | | | | | | | 0.000 | |
| | | | | | | | | | | | 0.000 | |
| | | | | | | | | | | | 0.000 | |
| | | | | | | | | | | | 0.000 | |
| Subtotal Support | | | 26.067 | 44.079 | | 50.847 | | 46.636 | | 45.637 | 213.266 | |
| Remarks: Note 1: FY02 costs were under PE 0604270N, E0556, EW Counter Response Note2: FY03 and FY04 costs were under PE 0604270N, E3063 AEA Follow On. | | | | | | | | | | | | |

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| Exhibit R-3 Cost Analysis (page 2) | | | | | | | | | DATE: February 2005 | | | |
|--|------------------------|--------------------------------|-----------------|------------|------------------|-------------------------|------------------|------------|----------------------------|------------------|------------|--------------------------|
| APPROPRIATION/BUDGET ACTIVITY | | | PROGRAM ELEMENT | | | PROJECT NUMBER AND NAME | | | | | | |
| RDTE&E, N / BA-5 | | | 0604269N EA-18G | | | 3063 EA-18G DEVELOPMENT | | | | | | |
| Cost Categories | Contract Method & Type | Performing Activity & Location | Total PY s Cost | FY 05 Cost | FY 05 Award Date | FY 06 Cost | FY 06 Award Date | FY 07 Cost | FY07 Award Date | Cost to Complete | Total Cost | Target Value of Contract |
| Developmental Test & Evaluation | WX | NAWCAD-PAX RIVER | 2.034 | 6.427 | 10/04 | 38.350 | 11/05 | 48.186 | 11/06 | 57.972 | 152.969 | |
| Developmental Test & Evaluation | WX | NAWCWD-CHINA LAKE | | | | | | 9.046 | 11/06 | 11.216 | 20.262 | |
| Developmental Test & Evaluation | MIPR | AEDC, TN | 0.750 | 1.000 | 11/04 | | | | | | 1.750 | |
| Developmental Test & Evaluation | MIPR | NASA AMES | 3.016 | | | | | | | | 3.016 | |
| Operational Test & Evaluation | WX | OPTEVFOR , NORFOLK VA | 0.598 | 0.240 | 12/04 | 0.540 | 11/05 | 0.815 | 11/06 | 11.987 | 14.180 | |
| | | | | | | | | | | | 0.000 | |
| | | | | | | | | | | | 0.000 | |
| Subtotal T&E | | | 6.398 | 7.667 | | 38.890 | | 58.047 | | 81.175 | 192.177 | |
| Remarks: | | | | | | | | | | | | |
| Contractor Engineering Support | Various | Various | 2.673 | 2.175 | 12/04 | 2.095 | 11/05 | 2.148 | 11/06 | 9.042 | 18.133 | |
| Program Management Support | WX | NAWCAD-PAX RIVER | 3.238 | 3.831 | 11/04 | 5.152 | 11/05 | 5.247 | 11/06 | 13.789 | 31.257 | |
| Government Engineering Support | WX | NAWCAD-PAX RIVER | 1.627 | 6.968 | 12/04 | 6.800 | 11/05 | 8.800 | 11/06 | 23.733 | 47.928 | |
| Travel | WX | NAVAIR, PAX RIVER MD | 0.458 | 0.340 | VAR | 0.500 | VAR | 0.500 | VAR | 1.355 | 3.153 | |
| Non-Add | | | | | | | | | | | 0.000 | |
| | | | | | | | | | | | 0.000 | |
| Subtotal Management | | | 7.996 | 13.314 | | 14.547 | | 16.695 | | 47.919 | 100.471 | |
| Remarks: | | | | | | | | | | | | |
| Total Cost | | | 221.493 | 353.679 | | 409.097 | | 372.023 | | 520.400 | 1,876.692 | |
| Remarks: Note 1: FY02 costs were under PE 0604270N, E0556, EW Counter Response Note2: FY03 and FY04 costs were under PE 0604270N, E3063 AEA Follow On. | | | | | | | | | | | | |

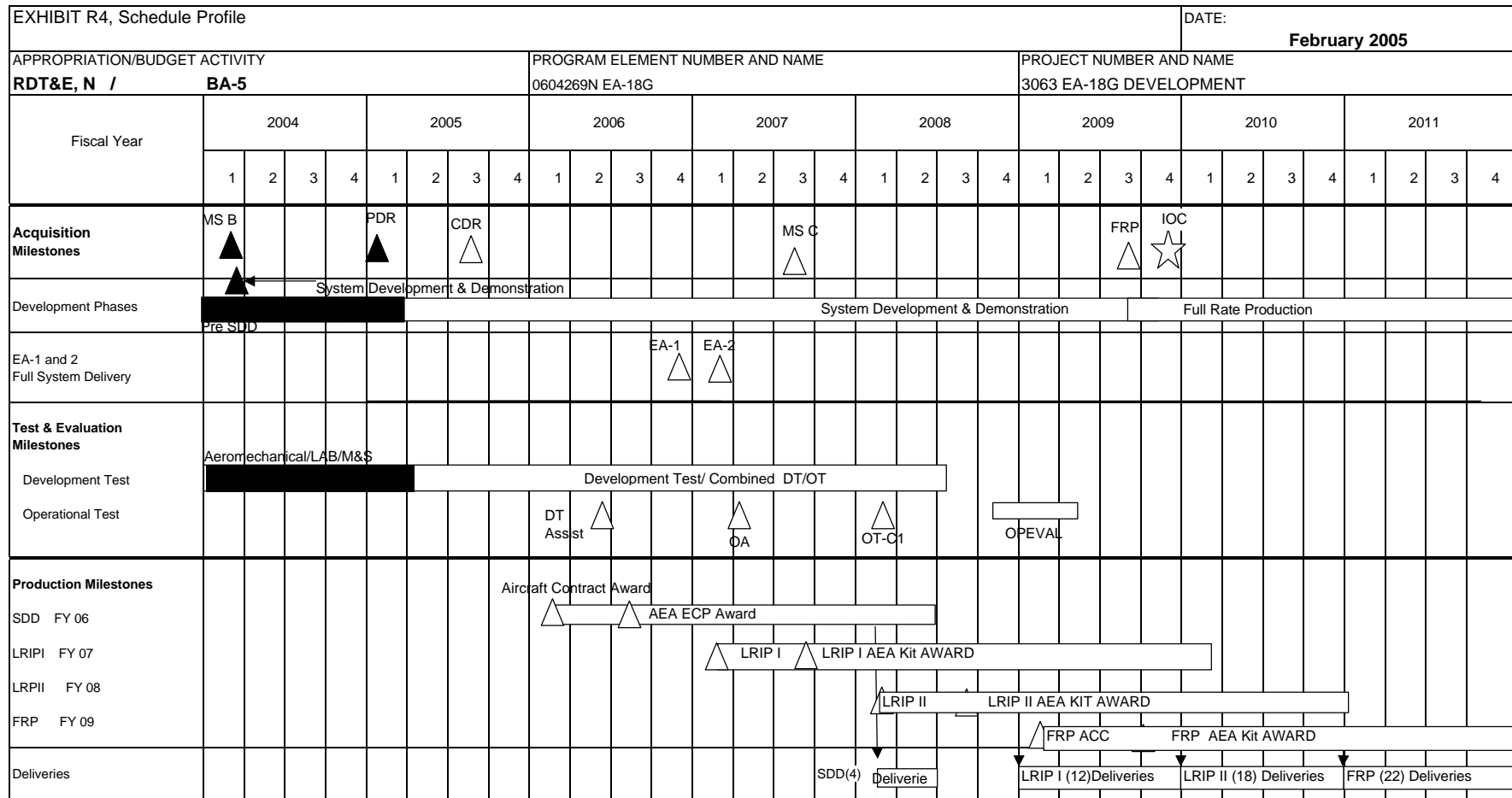
R-1 SHOPPING LIST - Item No. 97

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Exhibit R-2, RDTE Budget Item Justification
(Exhibit R-2, page 7 of 10)

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R-1 SHOPPING LIST - Item No. 97

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Exhibit R-2, RD TEN Budget Item Justification
(Exhibit R-2, page 8 of 10)

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| Exhibit R-4a, Schedule Detail | | | | | | DATE: February 2005 | | |
|---|-----------------|---------|---------|---------|-------------------------|----------------------------|---------|---------|
| APPROPRIATION/BUDGET ACTIVITY | PROGRAM ELEMENT | | | | PROJECT NUMBER AND NAME | | | |
| RDT&E, N / BA-5 | 0604269N EA-18G | | | | 3063 EA-18G DEVELOPMENT | | | |
| Schedule Profile | FY 2004 | FY 2005 | FY 2006 | FY 2007 | FY 2008 | FY 2009 | FY 2010 | FY 2011 |
| Pre System Development & Demonstration Phase(Pre-SDD) | 1Q | | | | | | | |
| System Development & Demonstration Phase(SDD) | 1Q-4Q | 1Q-4Q | 1Q-4Q | 1Q-4Q | | | | |
| Developmental Testing | 1Q-4Q | 1Q-4Q | 1Q-4Q | 1Q-4Q | | | | |
| Milestone B (MSB) | 1Q | | | | | | | |
| Preliminary Design Review (PDR) | | 1Q | | | | | | |
| Critical Design Review (CDR) | | 3Q | | | | | | |
| SDD Aircraft & Contract Award | 1Q | | 1Q | | | | | |
| Development Test(DT) Assist | | | 2Q | | | | | |
| SDD Production (AEA) Contract Award | | | 3Q | | | | | |
| EA-1 Delivery | | | 4Q | | | | | |
| EA-2 Delivery | | | | 1Q | | | | |
| LRIP I Aircraft Contract Award (Funded in APN-1) | | | | 1Q | | | | |
| Operational Assessment (OA) | | | | 2Q | | | | |
| Milestone C (MSC) | | | | 3Q | | | | |
| Start Low-Rate Initial Production II (LRIPII) | | | | | | | | |
| Operational Testing (OT-C1) | | | | | | | | |
| SDD Production Delivery (funded in APN-1) | | | | | | | | |
| Operational Evaluation (OPEVAL) | | | | | | | | |
| FRP Aircraft Contract Award | | | | | | | | |
| Low-Rate Initial Production I Delivery | | | | | | | | |
| Full Rate Production (FRP) Decision | | | | | | | | |
| FRP AEA Contract Award | | | | | | | | |
| IOC | | | | | | | | |
| Low-Rate Initial Production II Delivery | | | | | | | | |
| Full Rate Production (FRP) Delivery | | | | | | | | |
| | | | | | | | | |

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Exhibit R-2, RD TEN Budget Item Justification
(Exhibit R-2, page 9 of 10)

UNCLASSIFIED
Termination Liability Funding
For Major Defense Acquisition Programs,
RDT&E Funding
(\$000)

| Program | FY 2004 | FY 2005 | FY 2006 | FY 2007 | FY 2008 | FY 2009 | FY 2010 | FY 2011 |
|-------------------------|---------|---------|---------|---------|---------|---------|---------|---------|
| 3063 EA-18G Development | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

This program does not budget/fund termination liability separately. A Limitation of Funds (LoF) clause (FAR 52.232-22) is inserted in all incrementally funded R&D contracts. This clause is designed to limit the government's legal liability to the amount obligated.

Instructions:

1. For all ACAT I programs with RDT&E funding, indicate the funds, by year, budgeted for termination liability.
2. If not budgeted, provide the appropriate waiver authority.
3. For programs with waiver authority, identify the amounts on the contract, by year.