A. Mission Description and Budget Item Justification

This program provides RDT&E funding for the B-1B Conventional Mission Upgrade Program (CMUP). Funding in the FYDP includes integration of advanced conventional weapons, including (but not limited to) variants of the Joint Direct Attack Munition (JDAM), Wind Corrected Munitions Dispenser (WCMD), Joint Stand-Off Weapon (JSOW), and Joint Air to Surface Stand-Off Missile (JASSM). FYDP funding also includes upgrades to the Electronic Countermeasures (ECM) suite. Additional efforts include an upgrade to the avionics computers to enable simultaneous carriage of multiple weapon types, provide growth capability, and reduce support costs; development of the B-1B mission planning interface to the Air Force Mission Support System (AFMSS) and related mission planning systems; and upgrades to the B-1B training systems to keep them current with the aircraft's configuration. Funding is provided for development efforts to improve the display of threat situational awareness (S/A) information (to include datalink) to the aircrew and to record mission information. ALQ-161 defensive system upgrades to address reliability, maintainability, diminishing manufacturing sources (DMS) and performance deficiencies on selected line replaceable units (LRUs) are also included. Reliability and DMS deficiencies and performance improvements to the on-board maintenance diagnostics system and radar subsystem are addressed in this program also. Funding is provided for engineering efforts and engineering and planning studies for potential future weapon system enhancements (weapons, targeting, sensors, and avionics) and for weapon system operational/safety, supportability, maintainability, reliability, and Total Ownership Cost (TOC) improvements. Also included are the B-1 platform unique development items for integration of Link 16 and Beyond Line of Sight Datalinks, and associated weapons management enhancements. Development of enhancements to the ALE-50 decoy is also funded to address new threats. The Defensive System Upgrade Program (DSUP) has been terminated; FY03 funds will be applied to DSUP termination.

The B-1 CMUP program is included in Budget Activity 5, System Demonstration and Development. The CMUP program provides new capabilities to the B-1B weapon system, including GPS, Near-Precision Weapons, enhanced computers, datalink, and upgraded ECM. These capabilities require significant software development and testing.
### B. Program Change Summary ($ in Millions)

<table>
<thead>
<tr>
<th></th>
<th>FY 2003</th>
<th>FY 2004</th>
<th>FY 2005</th>
</tr>
</thead>
<tbody>
<tr>
<td>Previous President's Budget</td>
<td>157.173</td>
<td>88.703</td>
<td>76.918</td>
</tr>
<tr>
<td>Current PBR/President's Budget</td>
<td>150.427</td>
<td>87.933</td>
<td>59.462</td>
</tr>
<tr>
<td>Total Adjustments</td>
<td>-6.746</td>
<td>-0.770</td>
<td></td>
</tr>
<tr>
<td>Congressional Program Reductions</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Congressional Rescissions</td>
<td></td>
<td></td>
<td>-0.770</td>
</tr>
<tr>
<td>Congressional Increases</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Reprogrammings</td>
<td></td>
<td>-3.370</td>
<td></td>
</tr>
<tr>
<td>SBIR/STTR Transfer</td>
<td></td>
<td></td>
<td>-3.376</td>
</tr>
</tbody>
</table>

### Significant Program Changes:
- FY03 funds to be used for termination of DSUP project. Congress notified of DSUP termination 30 Dec '02.
- FY05 realigned to match rephasing of B-1 development. Computer upgrade; WCMD; JSOW/JASSM ending with new development efforts (On-board diagnostics system upgrade in FY05; and other efforts) beginning later in the FYDP.
**A. Mission Description and Budget Item Justification**

This program provides RDT&E funding for the B-1B Conventional Mission Upgrade Program (CMUP). Funding in the FYDP includes integration of advanced conventional weapons, including (but not limited to) variants of the Joint Direct Attack Munition (JDAM), Wind Corrected Munitions Dispenser (WCMD), Joint Stand-Off Weapon (JSOW), and Joint Air to Surface Stand-Off Missile (JASSM). FYDP funding also includes upgrades to the Electronic Countermeasures (ECM) suite. Additional efforts include an upgrade to the avionics computers to enable simultaneous carriage of multiple weapon types, provide growth capability, and reduce support costs; development of the B-1B mission planning interface to the Air Force Mission Support System (AFMSS) and related mission planning systems; and upgrades to the B-1B training systems to keep them current with the aircraft's configuration. Funding is provided for development efforts to improve the display of threat situational awareness (S/A) information (to include datalink) to the aircrew and to record mission information. ALQ-161 defensive system upgrades to address reliability, maintainability, diminishing manufacturing sources (DMS) and performance deficiencies on selected line replaceable units (LRUs) are also included. Reliability and DMS deficiencies and performance improvements to the on-board maintenance diagnostics system and radar subsystem are addressed in this program also. Funding is provided for engineering efforts and engineering and planning studies for potential future weapon system enhancements (weapons, targeting, sensors, and avionics) and for weapon system operational/safety, supportability, maintainability, reliability, and Total Ownership Cost (TOC) improvements. Also included are the B-1 platform unique development items for integration of Link 16 and Beyond Line of Sight Datalinks, and associated weapons management enhancements. Development of enhancements to the ALE-50 decoy is also funded to address new threats. The Defensive System Upgrade Program (DSUP) has been terminated; FY03 funds will be applied to DSUP termination.

The B-1 CMUP program is included in Budget Activity 5, System Demonstration and Development. The CMUP program provides new capabilities to the B-1B weapon system, including GPS, Near-Precision Weapons, enhanced computers, datalink, and upgraded ECM. These capabilities require significant software development and testing.

**B. Accomplishments/Planned Program ($ in Millions)**

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>4596 Conventional Mission Upgrades</td>
<td>150.427</td>
<td>87.933</td>
<td>59.462</td>
<td>107.061</td>
<td>74.751</td>
<td>56.518</td>
<td>44.737</td>
<td>Continuing</td>
</tr>
</tbody>
</table>

0.000 0.000 0.000

107.669 60.906 52.167

0.000 0.000 0.000

37.195 21.425 2.940

4.278 4.352 4.064

1.285 1.250 0.291

150.427 87.933 59.462

Project 4596 R-1 Shopping List - Item No. 65-4 of 65-10

Exhibit R-2a (PE 0604226F)
UNCLASSIFIED

Exhibit R-2a, RDT&E Project Justification

February 2004

BUDGET ACTIVITY
05 System Development and Demonstration (SDD)

PE NUMBER AND TITLE
0604226F B-1B

PROJECT NUMBER AND TITLE
4596 Conventional Mission Upgrades

(U) C. Other Program Funding Summary ($ in Millions)

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Appn 10, PE 0101126F, B-1B, Aircraft Procurement BP11, Mods</td>
<td>101.445</td>
<td>102.953</td>
<td>8.825</td>
<td>31.267</td>
<td>53.430</td>
<td>82.533</td>
<td>27.860</td>
<td>777.830</td>
</tr>
<tr>
<td>Appn 10, PE 0101126F, B-1B, Aircraft Procurement BP12, Common Support Equipment</td>
<td>18.703</td>
<td>26.519</td>
<td>4.969</td>
<td>4.929</td>
<td>4.954</td>
<td>5.297</td>
<td>5.242</td>
<td>0.000</td>
</tr>
<tr>
<td>Appn 10, PE 0207446F, Bomber TDL Core BP11, Aircraft Procurement BP13, Post Production Charges</td>
<td>1.909</td>
<td>8.385</td>
<td>11.733</td>
<td>13.218</td>
<td>9.951</td>
<td>0.000</td>
<td>0.000</td>
<td>10.000</td>
</tr>
<tr>
<td>Appn 36, PE 0207446F, Bomber TDL Core</td>
<td>0.000</td>
<td>0.000</td>
<td>0.000</td>
<td>0.000</td>
<td>21.754</td>
<td>12.520</td>
<td>12.906</td>
<td>84.325</td>
</tr>
</tbody>
</table>

(U) D. Acquisition Strategy

(U) Key elements of the overall CMUP acquisition strategy include: use of a sole source contract with a prime/integrating contractor (Boeing); assignment of Total System Installed Performance Responsibility (TSIPR) to the integrating contractor; use of cost plus award fee (CPAF) development contracts; and combining developmental upgrades with software sustainment blocks to minimize the number of software releases, aircraft downtime and differences in fielded configurations.
### Exhibit R-3, RDT&E Project Cost Analysis

#### BUDGET ACTIVITY
05 System Development and Demonstration (SDD)

#### PE NUMBER AND TITLE
0604226F B-1B

#### PROJECT NUMBER AND TITLE
4596 Conventional Mission Upgrades

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Cost</td>
<td>Award</td>
<td>Cost</td>
<td>Date</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(U)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(U) DSUP*</td>
<td></td>
<td></td>
<td>0.000</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(U) TBC</td>
<td>SS/CPAF</td>
<td></td>
<td>31.918</td>
<td></td>
<td></td>
<td>31.918</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(U) TBC</td>
<td>SS/CPAF</td>
<td></td>
<td>209.994</td>
<td>49.953 Sep-04</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>* FY03 funds to be applied to DSUP termination</td>
<td>0.000</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(U) Mission Planning System</td>
<td>C/CPAF</td>
<td>0.545</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(U) Lockheed-Sanders</td>
<td>C/CPAF</td>
<td></td>
<td>51.299</td>
<td>5.771 Dec-04</td>
<td>1.722 Apr-04</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(U) Northrup Grumman</td>
<td>C/CPAF</td>
<td></td>
<td>13.284</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(U) Training Systems</td>
<td>C/CPAF</td>
<td></td>
<td>21.139</td>
<td>6.022 Mar-04</td>
<td>7.588 Jan-05</td>
<td>1.834 Jan-06</td>
<td>6.645</td>
<td>43.228</td>
<td></td>
</tr>
<tr>
<td>(U) INLX</td>
<td>C/CPAF</td>
<td></td>
<td>16.314</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(U) Weapons</td>
<td>C/CPAF</td>
<td></td>
<td>4.960</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(U) TBC - CBUs</td>
<td>SS/CPFF</td>
<td></td>
<td>16.314</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(U) TBC - CBUs</td>
<td>SS/CPFF</td>
<td></td>
<td>3.866</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(U) TBC - FWEP</td>
<td>SS/T&amp;M</td>
<td></td>
<td>5.727</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(U) TBC - EFX</td>
<td>SS/T&amp;M</td>
<td></td>
<td>72.223</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(U) TBD - INS/GSS</td>
<td>TBD</td>
<td></td>
<td>56.466</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(U) TBD - RADAR Improvements</td>
<td>TBD</td>
<td>68.762</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(U) AIL - ALQ-161 R&amp;M/DMS</td>
<td>SS/CPFF</td>
<td>9.608 Sep-03</td>
<td>22.372 Feb-04</td>
<td>16.773 Feb-05</td>
<td>40.315</td>
<td>89.068</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(U) ATU Modification</td>
<td>TBD</td>
<td></td>
<td>6.035</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(U) Raytheon - ALE-50 Upgrade</td>
<td>TBD</td>
<td>3.624</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(U) TBC - TSAS/AVTR Improvements</td>
<td>SS/CPFF</td>
<td>11.004 Apr-04</td>
<td>6.954 May-04</td>
<td>17.958</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(U) TBD - VSD Improvements</td>
<td>TBD</td>
<td>25.948</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(U) TBD - CITS/R&amp;M/DMS</td>
<td>TBD</td>
<td>22.265</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(U) TBC - FIDL</td>
<td>SS/CPFF</td>
<td></td>
<td>50.584</td>
<td>20.793 Feb-05</td>
<td>72.493</td>
<td>18.040</td>
<td>291.225</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(U) TBC- JDAM/GPS SDD</td>
<td>SS/CPAF</td>
<td>272.404</td>
<td>0.781 Feb-04</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(U) TBC-ACBM</td>
<td>SS/CPAF</td>
<td></td>
<td>1.900</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(U) TBC-Wing Sweep</td>
<td>SS/T&amp;M</td>
<td></td>
<td>1.089</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Project 4596

R-1 Shopping List - Item No. 65-6 of 65-10

Exhibit R-3 (PE 0604226F)
<table>
<thead>
<tr>
<th>BUDGET ACTIVITY</th>
<th>PE NUMBER AND TITLE</th>
<th>PROJECT NUMBER AND TITLE</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>05 System Development and Demonstration (SDD)</td>
<td>0604226F B-1B</td>
<td>4596 Conventional Mission Upgrades</td>
<td></td>
</tr>
<tr>
<td>(U) TBC- Computer</td>
<td>SS/CPAF</td>
<td></td>
<td>172,652</td>
</tr>
<tr>
<td>(U) TBC-WCMD</td>
<td>SS/CPAF</td>
<td></td>
<td>41,325</td>
</tr>
<tr>
<td>(U) Lockheed-Martin - WCMD</td>
<td>SS/CPAF</td>
<td></td>
<td>1,801</td>
</tr>
<tr>
<td>(U) TBC- JSOW/ JASSM</td>
<td>SS/CPAF</td>
<td></td>
<td>17,983 24.734 Aug-04 16.749 Aug-04 59,466</td>
</tr>
<tr>
<td>(U) Lockheed- Martin - JASSM</td>
<td>SS/T&amp;M</td>
<td></td>
<td>9,499</td>
</tr>
<tr>
<td>(U) Raytheon - JSOW</td>
<td>SS/T&amp;M</td>
<td></td>
<td>2,510</td>
</tr>
<tr>
<td>(U) TBD - Future CMUP Related SDD</td>
<td>TBD</td>
<td></td>
<td>Continuing TBD 0.000</td>
</tr>
<tr>
<td>Subtotal Product Development</td>
<td>951,855 107.669 60,906 52.167</td>
<td></td>
<td>Continuing TBD</td>
</tr>
<tr>
<td>Remarks:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(U) Support</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(U) Studies &amp; Analyses / Modeling &amp; Sim</td>
<td>Various</td>
<td></td>
<td>24,689 1.285 Dec-03 1.250 Dec-04 0.291 Dec-05 6.000 33.515</td>
</tr>
<tr>
<td>(U) Program Mgmt &amp; Admin</td>
<td>Various</td>
<td></td>
<td>32,124</td>
</tr>
<tr>
<td>Subtotal Support</td>
<td>85,603 5.563 5.602 4.355</td>
<td></td>
<td>27.725 128.848 0.000</td>
</tr>
<tr>
<td>Remarks:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(U) Test &amp; Evaluation</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(U) Modernization/DataLinks</td>
<td></td>
<td></td>
<td>0.000</td>
</tr>
<tr>
<td>(U) AFFTC</td>
<td>P.O.</td>
<td></td>
<td>74,348 74,348</td>
</tr>
<tr>
<td>(U) DSUP*</td>
<td></td>
<td></td>
<td>0.000</td>
</tr>
<tr>
<td>* FY03 funds to be applied to DSUP termination</td>
<td></td>
<td></td>
<td>0.000</td>
</tr>
<tr>
<td>(U) AFFTC</td>
<td>P.O.</td>
<td></td>
<td>17,761 10.993 Dec-03</td>
</tr>
<tr>
<td>(U) Weapons</td>
<td></td>
<td></td>
<td>0.000</td>
</tr>
<tr>
<td>Subtotal Test &amp; Evaluation</td>
<td>105,746 37.195 21.425 2.940</td>
<td></td>
<td>98,406 265.712 0.000</td>
</tr>
<tr>
<td>Remarks:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(U) Management</td>
<td></td>
<td></td>
<td>0.000</td>
</tr>
<tr>
<td>Subtotal Management</td>
<td>0.000 0.000 0.000 0.000</td>
<td></td>
<td>0.000 0.000 0.000</td>
</tr>
<tr>
<td>Remarks:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(U) Total Cost</td>
<td></td>
<td></td>
<td>1,143,204 150.427 87,933 59.462</td>
</tr>
</tbody>
</table>

UNCLASSIFIED
## Exhibit R-4, RDT&E Schedule Profile

**Project Number and Title:** 0604226F B-1B

### FY 03

<table>
<thead>
<tr>
<th>Project</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>JDAM (GBU-38)</td>
<td>Computer Upgrade</td>
</tr>
<tr>
<td>JSOW/JASSM Integ</td>
<td>AFMSS</td>
</tr>
<tr>
<td>Simulator</td>
<td>ALE-50 Upgrade</td>
</tr>
<tr>
<td>ALQ-161 Upgrades</td>
<td>DRF Upgrade</td>
</tr>
<tr>
<td>Jammer Alloc Logic</td>
<td>DF Encoder</td>
</tr>
<tr>
<td>Tail/Warning Upgrade</td>
<td>PACU Replacement</td>
</tr>
<tr>
<td>PACU Mod</td>
<td>Waveform Gen Update</td>
</tr>
<tr>
<td>TSAS</td>
<td>FIDL</td>
</tr>
<tr>
<td>CITS Upgrade</td>
<td>Gen Flt Test Support</td>
</tr>
<tr>
<td>Gen Flt Test Support</td>
<td>Adv Dig Tst Sys (ADTS)</td>
</tr>
<tr>
<td>VSD Upgrade</td>
<td>INS/GSS Replacement</td>
</tr>
<tr>
<td>INS/GSS Replacement</td>
<td>Radar Improvement</td>
</tr>
</tbody>
</table>

**Forecast Activity:**
- **Completed**
- **Development**
- **Production**

---

**UNCLASSIFIED**

February 2004

---

Project 4596

R-1 Shopping List - Item No. 65-8 of 65-10

Exhibit R-4 (PE 0604226F)
<table>
<thead>
<tr>
<th>BUDGET ACTIVITY</th>
<th>PE NUMBER AND TITLE</th>
<th>PROJECT NUMBER AND TITLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>05 System Development and Demonstration (SDD)</td>
<td>0604226F B-1B</td>
<td>4596 Conventional Mission Upgrades</td>
</tr>
</tbody>
</table>

**EXHIBIT R-4A, RDT&E SCHEDULE DETAIL**

**DISTRIBUTION A**

**BUDGET ACTIVITY:**
- 05 System Development and Demonstration (SDD)

**PE NUMBER AND TITLE:**
- 0604226F B-1B

**PROJECT NUMBER AND TITLE:**
- 4596 Conventional Mission Upgrades

**SCHEDULE PROFILE**

<table>
<thead>
<tr>
<th>Activity Description</th>
<th>FY 2003</th>
<th>FY 2004</th>
<th>FY 2005</th>
</tr>
</thead>
<tbody>
<tr>
<td>DEFENSIVE SYSTEM UPGRADE PROGRAM: Program in Termination</td>
<td>1Q</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Avionics Computers/WCMD -- Computer/WCMD System FCA/PCA</td>
<td>1Q</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Avionics Computers/WCMD-- (T&amp;E) Complete Computer/WCMD OT&amp;E</td>
<td>1Q</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Avionics Computers/WCMD-- Computer - Installation Blk E Kit on A/C 075 (Test A/C)</td>
<td>3Q</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Avionics Computers/WCMD-- Computer - Ejector Rack (14&quot;) Testing</td>
<td>3Q</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Avionics Computers/WCMD-- Complete Computer/WCMD Milestone III</td>
<td>3Q</td>
<td></td>
<td></td>
</tr>
<tr>
<td>JSOW/JASSM Integration-- FCA/PCA</td>
<td>3Q</td>
<td></td>
<td></td>
</tr>
<tr>
<td>JSOW/JASSM Integration -- Software Fielding Decision</td>
<td>3Q</td>
<td></td>
<td></td>
</tr>
<tr>
<td>JSOW/JASSM Integration (T&amp;E)-- DT/OT Complete</td>
<td>2Q</td>
<td></td>
<td></td>
</tr>
<tr>
<td>JSOW/JASSM Integration (T&amp;E)-- FDE Complete</td>
<td>3Q</td>
<td></td>
<td></td>
</tr>
<tr>
<td>JSOW/JASSM Integration-- RAA</td>
<td>4Q</td>
<td></td>
<td></td>
</tr>
<tr>
<td>JSOW/JASSM Integration-- EOC</td>
<td>4Q</td>
<td></td>
<td></td>
</tr>
<tr>
<td>JSOW/JASSM Integration-- Award Fee Period #13</td>
<td>4Q</td>
<td></td>
<td></td>
</tr>
<tr>
<td>JSOW/JASSM Integration-- Delivery Order 007 Complete</td>
<td>4Q</td>
<td></td>
<td></td>
</tr>
<tr>
<td>JSOW/JASSM Integration-- Contract -2075 CLIN 16 Closeout</td>
<td>4Q</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mission Planning System-- S/W Release 2.02 Delivery</td>
<td>2Q</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mission Planning System-- S/W Release 2.10 Delivery</td>
<td>3Q</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mission Planning System-- S/W Release 2.20 Delivery</td>
<td>2Q</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mission Planning System-- In-Flight Replanner (IFR) Spiral 1 Delivery</td>
<td>1Q</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mission Planning System-- IFR Spiral 2 Delivery</td>
<td>2Q</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mission Planning System-- Award Fee Period 10</td>
<td>1Q</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mission Planning System (T&amp;E)-- S/W Release 2.10 DT/OT</td>
<td>2Q</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mission Planning System (T&amp;E)-- IFR DT/OT</td>
<td>4Q</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mission Planning System (T&amp;E)-- S/W Release 2.20 DT/OT</td>
<td>1Q</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Trainer/Simulator System-- WST Rehost FCA/PCA</td>
<td>3Q</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Trainer/Simulator System-- SB-10 SSR</td>
<td>3Q</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Trainer/Simulator System-- CPT E1 FCA/PCA</td>
<td>2Q</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Trainer/Simulator System-- WST Blk E/E1 FCA/PCA</td>
<td>3Q</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Trainer/Simulator System (T&amp;E) -- WST Rehost FMT Kit-Proof</td>
<td>3Q</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Trainer/Simulator System (T&amp;E) -- CPT E1 Kit-Proof FMT</td>
<td>2Q</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Trainer/Simulator System (T&amp;E) -- WST Blk E/E1 Kit-Proof FMT</td>
<td>3Q</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Trainer/Simulator System (T&amp;E) -- Mission Trainer Blk E/E1 Kit-Proof FMT</td>
<td>4Q</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Trainer/Simulator System (Contract) -- Award Fee (FY03)</td>
<td>2Q</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BUDGET ACTIVITY</td>
<td>PE NUMBER AND TITLE</td>
<td>PROJECT NUMBER AND TITLE</td>
<td>DATE</td>
</tr>
<tr>
<td>--------------------------------------------------</td>
<td>---------------------------</td>
<td>--------------------------------</td>
<td>------------</td>
</tr>
<tr>
<td>05 System Development and Demonstration (SDD)</td>
<td>0604226F B-1B</td>
<td>4596 Conventional Mission Upgrades</td>
<td>February 2004</td>
</tr>
<tr>
<td>(U) Trainer/ Simulator System (Contract) -- Award Fee (FY04)</td>
<td></td>
<td></td>
<td>2Q</td>
</tr>
<tr>
<td>(U) ALE-50 Upgrade Program -- Contract Award</td>
<td></td>
<td></td>
<td>4Q</td>
</tr>
<tr>
<td>(U) ALQ-161A Digital Radio Frequency Memory (DRFM) -- PDR</td>
<td></td>
<td></td>
<td>2Q</td>
</tr>
<tr>
<td>(U) ALQ-161A Digital Radio Frequency Memory (DRFM) -- CDR</td>
<td></td>
<td></td>
<td>3Q</td>
</tr>
<tr>
<td>(U) ALQ-161A Digital Radio Frequency Memory (DRFM) -- Lab Testing</td>
<td></td>
<td></td>
<td>2Q</td>
</tr>
<tr>
<td>(U) ALQ-161A Digital Radio Frequency Memory (DRFM) -- QT&amp;E/FDE</td>
<td></td>
<td></td>
<td>4Q</td>
</tr>
<tr>
<td>(U) ALQ-161A Digital Radio Frequency Memory (DRFM) -- EMD Phase II</td>
<td></td>
<td></td>
<td>2Q</td>
</tr>
<tr>
<td>(U) ALQ-161A Digital Radio Frequency Memory (DRFM) -- EMD Test/Support</td>
<td></td>
<td></td>
<td>2Q</td>
</tr>
<tr>
<td>(U) ALQ-161A Jammer Allocation Logic Sys (JALS) -- Lab Testing</td>
<td></td>
<td></td>
<td>4Q</td>
</tr>
<tr>
<td>(U) ALQ-161A Jammer Allocation Logic Sys (JALS) -- QT&amp;E/FDE</td>
<td></td>
<td></td>
<td>1Q</td>
</tr>
<tr>
<td>(U) ALQ-161A Jammer Allocation Logic Sys (JALS) -- EMD Phase II</td>
<td></td>
<td></td>
<td>2Q</td>
</tr>
<tr>
<td>(U) ALQ-161A Tail Warning Function (TWF) -- QT&amp;E/FDE</td>
<td></td>
<td></td>
<td>3Q</td>
</tr>
<tr>
<td>(U) ALQ-161A Preprocessor Avionics Control Unit (PACU) -- PDR/CDR</td>
<td></td>
<td></td>
<td>3Q</td>
</tr>
<tr>
<td>(U) ALQ-161A Preprocessor Avionics Control Unit (PACU) -- Lab Testing</td>
<td></td>
<td></td>
<td>4Q</td>
</tr>
<tr>
<td>(U) ALQ-161A Preprocessor Avionics Control Unit (PACU) -- HDWE/SW EMD Phase I</td>
<td></td>
<td></td>
<td>2Q</td>
</tr>
<tr>
<td>(U) ALQ-161A Preprocessor Avionics Control Unit (PACU) -- HDWE/SW EMD Phase II</td>
<td></td>
<td></td>
<td>2Q</td>
</tr>
<tr>
<td>(U) ALQ-161A Advanced Tracker Unit (ATU) -- PDR</td>
<td></td>
<td></td>
<td>4Q</td>
</tr>
<tr>
<td>(U) ALQ-161A Advanced Tracker Unit (ATU) -- EMD Phase I</td>
<td></td>
<td></td>
<td>2Q</td>
</tr>
<tr>
<td>(U) Threat Situational Awareness System (TSAS) -- PDR</td>
<td></td>
<td></td>
<td>3Q</td>
</tr>
<tr>
<td>(U) Threat Situational Awareness System (TSAS) -- CDR</td>
<td></td>
<td></td>
<td>1Q</td>
</tr>
<tr>
<td>(U) Threat Situational Awareness System (TSAS) -- Lab Testing</td>
<td></td>
<td></td>
<td>1Q</td>
</tr>
<tr>
<td>(U) Threat Situational Awareness System (TSAS) -- TSAS Spiral I</td>
<td></td>
<td></td>
<td>2Q</td>
</tr>
<tr>
<td>(U) Threat Situational Awareness System (TSAS) -- Contract Award</td>
<td></td>
<td></td>
<td>4Q</td>
</tr>
<tr>
<td>(U) Threat Situational Awareness System (TSAS) -- Undef Contractual Action Definitization</td>
<td></td>
<td></td>
<td>3Q</td>
</tr>
<tr>
<td>(U) Fully Integrated Data Link (FIDL) -- PDR</td>
<td></td>
<td></td>
<td>3Q</td>
</tr>
<tr>
<td>(U) Fully Integrated Data Link (FIDL) -- FIDL Milestone B</td>
<td></td>
<td></td>
<td>1Q</td>
</tr>
<tr>
<td>(U) Fully Integrated Data Link (FIDL) -- FIDL Pre-SDD Complete</td>
<td></td>
<td></td>
<td>2Q</td>
</tr>
<tr>
<td>(U) Fully Integrated Data Link (FIDL) -- FIDL Pre-SDD Contract Award</td>
<td></td>
<td></td>
<td>3Q</td>
</tr>
<tr>
<td>(U) Fully Integrated Data Link (FIDL) -- FIDL SDD Contract Award</td>
<td></td>
<td></td>
<td>2Q</td>
</tr>
<tr>
<td>(U) Central Integrated Test System (CITS) -- PDR</td>
<td></td>
<td></td>
<td>4Q</td>
</tr>
<tr>
<td>(U) Central Integrated Test System (CITS) -- Proposal Receipt</td>
<td></td>
<td></td>
<td>1Q</td>
</tr>
<tr>
<td>(U) Central Integrated Test System (CITS) -- Milestone II Contract Award</td>
<td></td>
<td></td>
<td>2Q</td>
</tr>
</tbody>
</table>