

UNCLASSIFIED

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| RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit) | DATE February 2002 |
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| | | |
|---|--|-------------------------------|
| BUDGET ACTIVITY 05 - Engineering and Manufacturing Development | PE NUMBER AND TITLE 0604727F Joint Standoff Weapons Systems | PROJECT 1000 |
|---|--|-------------------------------|

| COST (\$ in Thousands) | FY 2001 Actual | FY 2002 Estimate | FY 2003 Estimate | FY 2004 Estimate | FY 2005 Estimate | FY 2006 Estimate | FY 2007 Estimate | Cost to Complete | Total Cost |
|-------------------------------------|----------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------|
| 1000 Joint Standoff Weapons Systems | 1,412 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 194,340 |
| Quantity of RDT&E Articles | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(U) A. Mission Description

The Joint Standoff Weapon (JSOW) is a joint USAF/USN program with the USN as the lead service. JSOW is a Global Position System aided Inertial Navigation System (GPS/INS) precision glide weapon with a stealthy, kinematically efficient airframe. JSOW provides all-weather launch/leave standoff capability to attack a variety of targets from outside enemy defenses. JSOW uses a common vehicle (truck) to deliver three different payloads. JSOW/A uses 145 BLU-97 Combined Effects Munitions for soft and area targets, JSOW/B uses 6 BLU-108 submunitions for attacking massed/mobile land-combat vehicles, and JSOW/C has a unitary BROACH warhead for harder/point targets (AF is not buying JSOW/C). The AF accepted its first JSOW in Nov 99. The F-16 (Block 50) is the threshold AF aircraft. JSOW will also be integrated on the B-1B, B-2, B-52, F-16C/D Blocks 40 and 30, F-15E, and JSF. The B-2 and F-16 are now JSOW capable. The B-52 and F-15E will be JSOW capable in FY02. JSOW/A is in Full Rate Production (FRP) and JSOW/B is in Low Rate Initial Production (LRIP). Both are purchased concurrently on the same JSOW contract. AF has over 100 JSOW in inventory. The current program is based on an USN buy of 13,000 (8,800 As, 1,200 Bs, 3,000 Cs) and an AF buy of 6,114 (3,000 As / 3,114 Bs). FY01 was the last year for JSOW AF RDT&E funds.

This program also includes the development of the JSOW Common Munitions Built-in Test Reprogramming Equipment (CMBRE) and software. The JSOW mission planning module and Precision Guided Munition Planning System (PGMPS) continues to be developed with the Air Force Mission Planning Support System (AFMSS) Aircraft/Weapons/Electronics (AWE) development. Through FY01, efforts included aircraft integration and JSOW/B BLU-108P3I testing.

JSOW AGM-154A&B are ACAT IC programs; AGM-154C (Navy only) is ACAT 1D.

(U) FY 2001 (\$ in Thousands)

- (U) \$1,000** Completed JSOW software improvements/upgrades; completed development/testing of AFMSS module for B-1B, F-15E, and F-16
- (U) \$412** Completed AGM-154B tests, including P3I Improved BLU-108 (IBLU) test, F-16 DT/OT and flight tests
- (U) \$1,412** Total

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|---|--|-------------------------------|----------------|-------------------|----------------|----------------|-------------------|---------------------------------|-------|--|--|---------|------------------------|-------|--|--|--|---------------------------------------|--|--|--|--|-------------------------------------|-----|--|--|--|---------------------------------------|-----|--|--|--|---|--|--|--|--|------------------------------|-----|--|--|--|----------------|--|--|--|--|---|--|--|--|--|---------------------------------------|-------|--|--|---------|
| BUDGET ACTIVITY 05 - Engineering and Manufacturing Development | PE NUMBER AND TITLE 0604727F Joint Standoff Weapons Systems | PROJECT 1000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>(U) <u>A. Mission Description Continued</u></p> <p>(U) <u>FY 2002 (\$ in Thousands)</u></p> <p>(U) \$0 No Activity</p> <p>(U) \$0 Total</p> <p>(U) <u>FY 2003 (\$ in Thousands)</u></p> <p>(U) \$0 No Activity</p> <p>(U) \$0 Total</p> <p>(U) <u>B. Budget Activity Justification</u> The RDT&E program element is in Budget Activity 5, EMD, because it supports the development of Air Force JSOW and BRU-57 and associated software, flight testing, and other developmental efforts.</p> <p>(U) <u>C. Program Change Summary (\$ in Thousands)</u></p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 55%;"></th> <th style="width: 10%; text-align: center;"><u>FY 2001</u></th> <th style="width: 10%; text-align: center;"><u>FY 2002</u></th> <th style="width: 10%; text-align: center;"><u>FY 2003</u></th> <th style="width: 15%; text-align: center;"><u>Total Cost</u></th> </tr> </thead> <tbody> <tr> <td>(U) Previous President's Budget</td> <td style="text-align: center;">1,485</td> <td></td> <td></td> <td style="text-align: center;">194,340</td> </tr> <tr> <td>(U) Appropriated Value</td> <td style="text-align: center;">1,498</td> <td></td> <td></td> <td></td> </tr> <tr> <td>(U) Adjustments to Appropriated Value</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td style="padding-left: 20px;">a. Congressional/General Reductions</td> <td style="text-align: center;">-13</td> <td></td> <td></td> <td></td> </tr> <tr> <td style="padding-left: 20px;">b. Small Business Innovative Research</td> <td style="text-align: center;">-53</td> <td></td> <td></td> <td></td> </tr> <tr> <td style="padding-left: 20px;">c. Omnibus or Other Above Threshold Reprogram</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td style="padding-left: 20px;">d. Below Threshold Reprogram</td> <td style="text-align: center;">-20</td> <td></td> <td></td> <td></td> </tr> <tr> <td style="padding-left: 20px;">e. Rescissions</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>(U) Adjustments to Budget Years Since FY 2002 PBR</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>(U) Current Budget Submit/FY 2003 PBR</td> <td style="text-align: center;">1,412</td> <td></td> <td></td> <td style="text-align: center;">194,340</td> </tr> </tbody> </table> <p>(U) <u>Significant Program Changes:</u> No significant changes.</p> | | | | <u>FY 2001</u> | <u>FY 2002</u> | <u>FY 2003</u> | <u>Total Cost</u> | (U) Previous President's Budget | 1,485 | | | 194,340 | (U) Appropriated Value | 1,498 | | | | (U) Adjustments to Appropriated Value | | | | | a. Congressional/General Reductions | -13 | | | | b. Small Business Innovative Research | -53 | | | | c. Omnibus or Other Above Threshold Reprogram | | | | | d. Below Threshold Reprogram | -20 | | | | e. Rescissions | | | | | (U) Adjustments to Budget Years Since FY 2002 PBR | | | | | (U) Current Budget Submit/FY 2003 PBR | 1,412 | | | 194,340 |
| | <u>FY 2001</u> | <u>FY 2002</u> | <u>FY 2003</u> | <u>Total Cost</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (U) Previous President's Budget | 1,485 | | | 194,340 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (U) Appropriated Value | 1,498 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (U) Adjustments to Appropriated Value | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| a. Congressional/General Reductions | -13 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| b. Small Business Innovative Research | -53 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| c. Omnibus or Other Above Threshold Reprogram | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| d. Below Threshold Reprogram | -20 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| e. Rescissions | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (U) Adjustments to Budget Years Since FY 2002 PBR | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (U) Current Budget Submit/FY 2003 PBR | 1,412 | | | 194,340 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Project 1000 | Page 2 of 5 Pages | Exhibit R-2 (PE 0604727F) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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|---|----------------|-----------------|-----------------|--|-----------------|-----------------|-----------------|-----------------------|-------------------|
| BUDGET ACTIVITY 05 - Engineering and Manufacturing Development | | | | PE NUMBER AND TITLE 0604727F Joint Standoff Weapons Systems | | | | PROJECT 1000 | |
| (U) D. Other Program Funding Summary (\$ in Thousands) | | | | | | | | | |
| | <u>FY 2001</u> | <u>FY 2002</u> | <u>FY 2003</u> | <u>FY 2004</u> | <u>FY 2005</u> | <u>FY 2006</u> | <u>FY 2007</u> | <u>Cost to</u> | <u>Total Cost</u> |
| | <u>Actual</u> | <u>Estimate</u> | <u>Estimate</u> | <u>Estimate</u> | <u>Estimate</u> | <u>Estimate</u> | <u>Estimate</u> | <u>Complete</u> | |
| (U) Missile Procurement, AF P-1 Line Item 5, JSOW | | | | | | | | | |
| (U) JSOW | 52,893 | 53,609 | 72,805 | 119,686 | 237,094 | 256,427 | 250,886 | 954,012 | 1,997,412 |
| (U) SEEK EAGLE | 0 | 1,032 | 0 | 1,010 | 0 | 1,013 | 0 | 0 | 3,055 |
| (U) E. Acquisition Strategy | | | | | | | | | |
| JSOW awarded a joint service contract to Raytheon for EMD. A Cost Plus Incentive Fee (CPIF) contract was awarded for AGM-154A Low Rate Initial Production (LRIP) I. For AGM-154A LRIP II, a Fixed Price Incentive Fee (FPIF) contract was awarded. Both LRIP contracts were conducted in a sole source environment. A sole source AGM-154A Full Rate Production (FRP) and AGM-154B LRIP contract (FFP) was awarded on Dec 98. A sole source AGM-154A FRP contract (FFP) was awarded on Dec 99. No FRP contract was awarded in FY01 due to JSOW control section problems. The control section problem has also caused a delay in AGM-154B MOT&E and Milestone III. | | | | | | | | | |
| (U) F. Schedule Profile | | | | | | | | | |
| | | | | <u>FY 2001</u> | | <u>FY 2002</u> | | <u>FY 2003</u> | |
| | | | 1 | 2 3 | 4 | 1 2 3 | 4 | 1 2 3 | 4 |
| (U) Acquisition Milestones | | | | | | | | | |
| (U) BRU-57 Production Contract Award (Lot 3) | | | | | * | | | | |
| (U) AGM 154A/B Production Contract Awards | | | | | | X | | | |
| (U) T&E Milestones | | | | | | | | | |
| (U) AGAGM-154B MOT&E | | | | | | | | X | |
| (U) AGM-154B Milestone III/FRP | | | | | | | | | X |
| (U) | | | | | | | | | |

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| RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3) | | | | | | | DATE February 2002 | | | | |
|---|---|-----------------------------|----------------------------|--|-----------------------|-------------------------------|-----------------------|-----------------------|-----------------------|---------------------------|----------------------|
| BUDGET ACTIVITY | | | | PE NUMBER AND TITLE | | | PROJECT | | | | |
| 05 - Engineering and Manufacturing Development | | | | 0604727F Joint Standoff Weapons Systems | | | 1000 | | | | |
| (U) A. Project Cost Breakdown (\$ in Thousands) | | | | | | | | | | | |
| | | | | | | <u>FY 2001</u> | | <u>FY 2002</u> | | <u>FY 2003</u> | |
| (U) | Major Contracts | | | | | 1,000 | | 0 | | | |
| (U) | Support Contracts | | | | | 0 | | 0 | | | |
| (U) | Program Office Support/Other Government Support | | | | | 412 | | 0 | | | |
| (U) | Test and Evaluation | | | | | 0 | | 0 | | | |
| (U) | BRU-57 | | | | | 0 | | 0 | | | |
| (U) | Total | | | | | 1,412 | | 0 | | | |
| (U) B. Budget Acquisition History and Planning Information (\$ in Thousands) | | | | | | | | | | | |
| (U) Performing Organizations: | | | | | | | | | | | |
| | <u>Contractor or Government</u> | <u>Contract Method/Type</u> | <u>Award or Obligation</u> | <u>Performing Activity</u> | <u>Project Office</u> | <u>Total Prior to FY 2001</u> | <u>Budget FY 2001</u> | <u>Budget FY 2002</u> | <u>Budget FY 2003</u> | <u>Budget to Complete</u> | <u>Total Program</u> |
| | <u>Activity</u> | <u>Vehicle</u> | <u>Date</u> | <u>EAC</u> | <u>EAC</u> | | | | | | |
| <u>Product Development Organizations</u> | | | | | | | | | | | |
| | Raytheon Sys. Co. | SS/CPIF | Jun 95 | 134,310 | 134,310 | 133,310 | 1,000 | | | 0 | 134,310 |
| | Lockheed | FP/CPIF | Feb 95 | 16,750 | 16,750 | 16,750 | 0 | | | 0 | 16,750 |
| | EDO/M Tech | FP/CPIF | Oct 95 | 7,447 | 7,447 | 7,447 | 0 | | | 0 | 7,447 |
| <u>Support and Management Organizations</u> | | | | | | | | | | | |
| | China Lake NWC | MIPR | | N/A | N/A | 5,925 | 0 | | | 0 | 5,925 |
| | AAC/YH & Other | | | N/A | N/A | 16,857 | 412 | | | 0 | 17,269 |
| <u>Test and Evaluation Organizations</u> | | | | | | | | | | | |
| | AAC, Eglin AFB | REO | | N/A | N/A | 7,714 | 0 | | | 0 | 7,714 |
| | BRU-57 Misc. | REO/Other | | N/A | N/A | 562 | 0 | | | 0 | 562 |

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| RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3) | | | | | | | DATE February 2002 | | |
|---|--------------------|-------------------|-----------------|--|----------------|----------------|-----------------------|------------------|----------------|
| BUDGET ACTIVITY | | | | PE NUMBER AND TITLE | | | PROJECT | | |
| 05 - Engineering and Manufacturing Development | | | | 0604727F Joint Standoff Weapons Systems | | | 1000 | | |
| (U) Government Furnished Property: | | | | | | | | | |
| | <u>Contract</u> | <u>Award or</u> | | | | | | | |
| <u>Item</u> | <u>Method/Type</u> | <u>Obligation</u> | <u>Delivery</u> | <u>Total Prior</u> | <u>Budget</u> | <u>Budget</u> | <u>Budget</u> | <u>Budget to</u> | <u>Total</u> |
| <u>Description</u> | <u>or Funding</u> | <u>Date</u> | <u>Date</u> | <u>to FY 2001</u> | <u>FY 2001</u> | <u>FY 2002</u> | <u>FY 2003</u> | <u>Complete</u> | <u>Program</u> |
| | <u>Vehicle</u> | | | | | | | | |
| <u>Product Development Property</u> | | | | | | | | | |
| Textron | FPIF | Mar 96 | Various | 4,363 | 0 | | | 0 | 4,363 |
| <u>Support and Management Property</u> | | | | | | | | | |
| <u>Test and Evaluation Property</u> | | | | | | | | | |
| | | | | <u>Total Prior</u> | <u>Budget</u> | <u>Budget</u> | <u>Budget</u> | <u>Budget to</u> | <u>Total</u> |
| <u>Subtotals</u> | | | | <u>to FY 2001</u> | <u>FY 2001</u> | <u>FY 2002</u> | <u>FY 2003</u> | <u>Complete</u> | <u>Program</u> |
| Subtotal Product Development | | | | 161,870 | 1,000 | | | 0 | 162,870 |
| Subtotal Support and Management | | | | 22,782 | 412 | | | 0 | 23,194 |
| Subtotal Test and Evaluation | | | | 8,276 | 0 | | | 0 | 8,276 |
| Total Project | | | | 192,928 | 1,412 | | | 0 | 194,340 |