PE NUMBER: 0604329F
PE TITLE: Small Diameter Bomb

| | E. Oman Blameter Bemb | | | | | | | | | | |
|--------|--|-----------|----------|-------------|----------|----------|----------|----------|----------|----------|--|
| | Exhibit R-2, RDT&E Budget Item Justification | | | | | | | | | | |
| BUDGE | BUDGET ACTIVITY PE NUMBER AND TITLE | | | | | | | | | | |
| 05 Sys | stem Development and Demonstrat | ion (SDD) | 0 | 604329F Sma | | | | | | | |
| | Cost (\$ in Millions) | FY 2005 | FY 2006 | FY 2007 | FY 2008 | FY 2009 | FY 2010 | FY 2011 | Cost to | Total | |
| | Cost (\$ in Millions) | Actual | Estimate | Estimate | Estimate | Estimate | Estimate | Estimate | Complete | | |
| | Total Program Element (PE) Cost | 73.573 | 63.521 | 104.080 | 143.723 | 123.533 | 128.009 | 76.895 | 322.743 | 1,281.66 | |
| 5006 | Small Diameter Bomb | 73.573 | 38.381 | 13.362 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 370.90 | |
| 5191 | Small Diameter Bomb Increment II | 0.000 | 25.140 | 90.718 | 143.723 | 123.533 | 128.009 | 76.895 | 322.743 | 910.76 | |

(U) A. Mission Description and Budget Item Justification

Small Diameter Bomb (SDB) is an Air Force ACAT 1D program providing increased kills per sortie on current and future aircraft platforms. SDB addresses the following warfighter requirements: multiple kills per pass; multiple ordnance carriage; adverse weather operations, near-precision munitions capability; capability against fixed targets; reduced munitions footprint; increased weapons effectiveness; minimized potential for collateral damage; and reduced susceptibility of munitions to countermeasures. Threshold aircraft is the F-15E. Objective aircraft include the B-1, B-2, A-10, Joint Strike Fighter (JSF), F-22A, F-117, F-16, B-52, and the Predator B. SDB is currently in the IOT&E Phase of a combined System Development Demonstration (SDD) and Low Rate Initial Production (LRIP) with FRP planned for the fourth quarter of 2006. SDB will continue multiple incremental development activities to attack moving targets, further reduce collateral damage, investigate allternate aircraft integration platforms, incorporate Anti-Jam Improvements and pursue network CENTRIC interoperability (Increment 2,3). SDB is a key component of the Air Force's Global Strike Task Force CONOPS.

The government is buying the SDB based on a contractor-developed, government-approved System Performance Specification (SPS) which became contractually binding at contract award. The contractor will assume performance responsibility as defined in the SPS and warrants system performance for 20 years. Accordingly, the contractor is responsible not only for the design of the missile system, but also for planning and executing the seamless verification program to verify the system performance. In its role as facilitator and advisor to the contractor, the government formally arranges and funds the use of government flight test support for testing. Although funded by the government, flight test support funds are part of the negotiated commitment between the contractor and the government ensuring the contractor is able to execute the test program according to the scope of the SDD contract.

This program is in Budget Activity 5 - System Development and Demonstration (SDD) because this RDT&E effort develops the Small Diameter Bomb weapon system.

R-1 Shopping List - Item No. 75-1 of 75-12

| | Exhibit R-2, RDT&E Bud | DATE Februa | ary 2006 | |
|-----|--|---|--------------------------|---------------|
| | GET ACTIVITY system Development and Demonstration (SDD) | PE NUMBER AND TITLE 0604329F Small Diameter Bomb | • | • |
| (U) | B. Program Change Summary (\$ in Millions) | | | |
| | | <u>FY 2005</u> | FY 2006 | FY 2007 |
| (U) | Previous President's Budget | 75.815 | 85.988 | 85.209 |
| (U) | Current PBR/President's Budget | 73.573 | 63.521 | 104.080 |
| (U) | Total Adjustments | -2.242 | -22.467 | |
| (U) | Congressional Program Reductions | | -21.550 | |
| | Congressional Rescissions | -0.058 | -0.917 | |
| | Congressional Increases | | | |
| | Reprogrammings | -0.524 | | |
| | SBIR/STTR Transfer | -1.660 | | |
| (U) | Significant Program Changes: | | | |
| | SDB II RDT&E funding had a congressional decrease of \$21.55M in | FY06. To fully fund Development, the AF realigned \$15.8M c | of SDB I Procurement fur | nds to SDB II |
| | RDT&E in FY07. | | | |

| | Exh | DATE | DATE February 2006 | | | | | | | | |
|---|----------------------------|-------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|--|---------|--|
| BUDGET ACTIVITY 05 System Development and Demonstration (SDD) | | | | | | | | | T NUMBER AND TITLE mall Diameter Bomb | | |
| | Cost (\$ in Millions) | FY 2005 Actual | FY 2006 Estimate | FY 2007 Estimate | FY 2008 Estimate | FY 2009 Estimate | FY 2010 Estimate | FY 2011 Estimate | Cost to Complete | Total | |
| 5006 | | | | | | 0.000 | 0.000 | | 0.000 | 370.901 | |
| | Quantity of RDT&E Articles | 0 | 0 | (| 0 | 0 | 0 | 0 | | | |

(U) A. Mission Description and Budget Item Justification

Small Diameter Bomb (SDB) is an Air Force ACAT 1D program providing increased kills per sortie on current and future aircraft platforms. SDB addresses the following warfighter requirements: multiple kills per pass; multiple ordnance carriage; adverse weather operations, near-precision munitions capability; capability against fixed targets; reduced munitions footprint; increased weapons effectiveness; minimized potential for collateral damage; and reduced susceptibility of munitions to countermeasures. Threshold aircraft is the F-15E. Objective aircraft include the B-1, B-2, A-10, Joint Strike Fighter (JSF), F-22A, F-117, F-16, B-52, and the Predator B. SDB is currently in the IOT&E Phase of a combined System Development Demonstration (SDD) and Low Rate Initial Production (LRIP) with FRP planned for the fourth quarter of 2006.

The government is buying the SDB based on a contractor-developed, government-approved System Performance Specification (SPS) which became contractually binding at contract award. The contractor will assume performance responsibility as defined in the SPS and warrants system performance for 20 years. Accordingly, the contractor is responsible not only for the design of the missile system, but also for planning and executing the seamless verification program to verify the system performance. In its role as facilitator and advisor to the contractor, the government formally arranges and funds the use of government flight test support for testing. Although funded by the government, flight test support funds are part of the negotiated commitment between the contractor and the government ensuring the contractor is able to execute the test program according to the scope of the SDD contract.

This program is in Budget Activity 5 - System Development and Demonstration (SDD) because this RDT&E effort develops the Small Diameter Bomb weapon system.

| (U) | B. Accomplishments/Planned P | rogram (\$ in Mill | lions) | | | | FY | 2005 | FY 2006 | FY 2007 |
|-----|---|---------------------|-----------------|-------------------|-----------------|-----------------|-----------------|-----------------|-----------------|------------|
| (U) | Continue aircraft integration. | | | | | | | 8.724 | 1.095 | 1.078 |
| (U) | Continue program office support. | • | | 0.811 | 0.720 | 0.236 | | | | |
| (U) | Continue mission support. | | | 0.456 | 0.512 | 0.359 | | | | |
| (U) | Continue System Development a | nd Demonstration | (SDD) phase for | r fixed target va | riant. | | 5 | 6.017 | 36.054 | 11.689 |
| (U) | Continue SDD testing and contin | ue test support. | 7.565 | | 0.000 | 0.000 | | | | |
| (U) | Total Cost | | | | | | 7 | 3.573 | 38.381 | 13.362 |
| (U) | C. Other Program Funding Sun | ımary (\$ in Millio | ons) | | | | | | | |
| | | FY 2005 | FY 2006 | FY 2007 | FY 2008 | FY 2009 | FY 2010 | FY 2011 | Cost to | Total Cost |
| | | <u>Actual</u> | Estimate | Estimate | Estimate | Estimate | Estimate | Estimate | Complete | Total Cost |
| (U) | Missile Procurement, AF, 0207327F, App 3020 | 29.122 | 53.336 | 99.062 | 96.386 | 148.230 | 164.543 | 137.449 | 481.092 | 1,209.220 |

(U) D. Acquisition Strategy

All major contracts within this Program Element have been awarded through full and open competition. Two contractors were selected for the 24 month CAD phase

Project 5006

R-1 Shopping List - Item No. 75-3 of 75-12

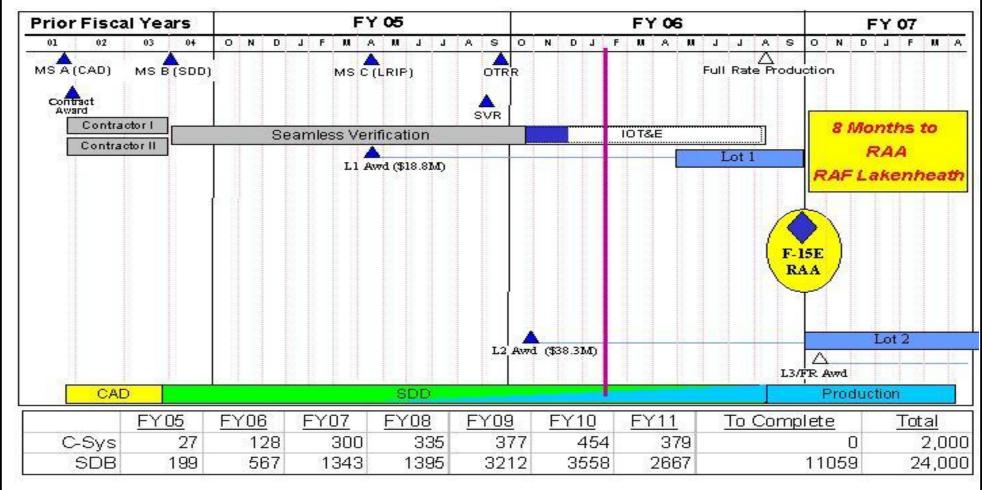
Exhibit R-2a (PE 0604329F)

| Exhibit R-2a, RDT&E | DATE February 2006 | |
|--|---|---|
| BUDGET ACTIVITY 05 System Development and Demonstration (SDD) | PE NUMBER AND TITLE 0604329F Small Diameter Bomb | PROJECT NUMBER AND TITLE 5006 Small Diameter Bomb |
| using Firm Fixed Price contracts. The Air Force downselected to Bo effectiveness. SDD is a Cost Plus Award Fee contract. | being in August 2003. SDD is a fixed target variant with near | precision and significant weapon |
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| Project 5006 R | 1 Shopping List - Item No. 75-4 of 75-12 | Exhibit R-2a (PE 0604329F) |

| | E | xhibit R- | 3, RDT&E F | Project Co | st Anal | ysis | | | | D | ATE Feb i | ruary 20 | 006 |
|--------------|--|---|-----------------------------------|------------------------------|-------------------------|--------------------------|-------------------------|--------------------------|-------------------------|--------------------------|-------------------------|--------------------------|-----------------------------|
| | DUDGET ACTIVITY PE NUMBER AND TITLE PROJECT NUMBER AND TITLE 5 System Development and Demonstration (SDD) PROJECT NUMBER AND TITLE 5006 Small Diameter Bomb | | | | | | | | | | | | |
| (| Cost Categories Tailor to WBS, or System/Item Requirements) \$ in Millions) | Contract Method & Type | Performing Activity & Location | Total Prior to FY 2005 Cost | FY 2005 Cost | FY 2005 Award Date | FY 2006 Cost | FY 2006 Award Date | FY 2007 Cost | FY 2007 Award Date | Cost to Complete | Total Cost | Target Value of Contract |
| | Product Development CAD Contract 1 | FFP | Lockheed Martin, Orlando FL | 53.616 | 0.000 | N/A | | | | | 0.000 | 53.616 | 53.616 |
| (| CAD Contract 2 | FFP | Boeing, St Louis MO | 53.616 | 0.000 | N/A | | | | | 0.000 | 53.616 | 53.616 |
| 5 | SDD Baseline Contract | CPAF | Boeing, St Louis MO | 109.804 | 56.016 | Oct-03 | 36.054 | Oct-03 | 11.034 | Oct-03 | 0.000 | 212.908 | 212.908 |
| (U) <u>S</u> | Subtotal Product Development Remarks: <u>Support</u> F-15 SPO | PO (In-House) | Wright Patterson AFB, | 217.036 | 56.016 8.519 | N/A | 36.054 0.592 | N/A | 11.034 | N/A | 0.000 | 320.140 17.157 | 320.140 17.157 |
| (| Other A/C SPOs | PO (In-House) | OH Wright Patterson AFB, OH | 1.460 | 0.205 | N/A | 0.503 | N/A | 0.194 | N/A | 0.000 | 2.362 | |
| (S | Sverdrup Inc. Other Subtotal Support Remarks: | C/CPAF Misc | Eglin AFB, FL Various | 6.049 5.299 19.315 | 0.624 0.456 9.804 | Jun-01 N/A | 0.720 0.212 2.027 | Jun-01 N/A | 0.236 0.059 2.028 | Jun-01 N/A | 0.000 0.000 0.000 | 7.629 6.026 33.174 | 7.629 6.026 33.174 |
| | Fest & Evaluation 46 TW | PO (In-House) | Eglin AFB, FL | 7.757 | 7.565 | N/A | 0.000 | N/A | 0.000 | N/A | 0.000 | 15.322 | 15.322 |
| I | Subtotal Test & Evaluation Remarks: Management | (====================================== | | 7.757 | 7.565 | | 0.000 | | 0.000 | | 0.000 | 15.322 | 15.322 |
| (| COLSA Subtotal Management | C/CPAF | Eglin AFB, FL | 1.477 1.477 | 0.188 0.188 | Jun-01 | 0.300 0.300 | Aug-05 | 0.300 0.300 | Aug-05 | 0.000 0.000 | 2.265 2.265 | 2.265 2.265 |
| | Remarks: Fotal Cost | | | 245.585 | 73.573 | | 38.381 | | 13.362 | | 0.000 | 370.901 | 370.901 |
| | | | | | | | | | | | | | |
| Pro | ject 5006 | | | R-1 Shopping Lis | st - Item No | . 75-5 of <u>75</u> - | 12 | | | | Exh | bit R-3 (PE | 0604329F) |

Exhibit R-4, RDT&E Schedule Profile BUDGET ACTIVITY 05 System Development and Demonstration (SDD) PROJECT NUMBER AND TITLE 0604329F Small Diameter Bomb DATE February 2006 February 2006 5006 Small Diameter Bomb

SDB I Schedule



 Project 5006
 R-1 Shopping List - Item No. 75-6 of 75-12
 Exhibit R-4 (PE 0604329F)

| Exhibit R-4a, RDT& | E Schedule Detail | DATE Fobruary 2006 |
|--|--|--|
| BUDGET ACTIVITY 05 System Development and Demonstration (SDD) | PE NUMBER AND TITLE PRO | February 2006 JECT NUMBER AND TITLE 6 Small Diameter Bomb |
| (U) Schedule Profile (U) Milestone C (U) Low Rate Initial Production (LRIP) Contract Award (U) Lot 2 Award | FY 2005 3Q 3Q | FY 2006 FY 2007 |
| (U) F-15E RAA (U) Lot 3 FRP Award | | 1Q 4Q 1Q |
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| Project 5006 R- | 1 Shopping List - Item No. 75-7 of 75-12 | Exhibit R-4a (PE 0604329F) |

| | Exh | DATE | February | 2006 | | | | | | |
|------|--|-------------------|---------------------|---------------------|---------------------|---------------------|--|---------------------|--|---------|
| | | | | | | | BER AND TITLE Diameter Bomb Increment | | | |
| | Cost (\$ in Millions) | FY 2005 Actual | FY 2006 Estimate | FY 2007 Estimate | FY 2008 Estimate | FY 2009 Estimate | FY 2010 Estimate | FY 2011 Estimate | Cost to Complete | Total |
| 5191 | 5191 Small Diameter Bomb Increment II 0.000 25.140 90. | | | | | 123.533 | 128.009 | 76.895 | | 910.761 |
| | Quantity of RDT&E Articles 0 0 | | | | | 0 | 0 | 0 | | |

(U) A. Mission Description and Budget Item Justification

9.513

9.999

Small Diameter Bomb II (SDB II) is a joint interest program providing the warfighter a capability to attack mobile targets from stand-off in weather. SDB II addresses the following warfighter requirements: attack mobile targets, adverse weather operations, multiple kills per pass, multiple ordnance carriage, near-precision munitions capability, capability against fixed targets, reduced munitions footprint, increased weapons effectiveness, minimized potential for collateral damage, and provides a migration path to net-centric ops capability. Threshold aircraft are the F-15E for the US Air Force and the Joint Strike Fighter (JSF) for the US Navy (RAA TBD). Objective aircraft include: F-22A, B-1, B-2, F-117, F-16, B-52, and the Predator B. SDB II begins Technology Development/Risk Reduction in FY06 and Milestone B is scheduled in FY10. Milestone C is planned for FY13 followed by RAA on the F-15E in FY14. SDB will continue incremental development to pursue network Centric interoperability. SDB is a key component of the Air Force's Global Strike Task Force CONOP.

| (U) | B. Accomplishments/Planned Pro | gram (\$ in Mil | lions) | | | | FY | 2005 | FY 2006 | FY 2007 |
|-----|--------------------------------------|-------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|------------|
| (U) | Initiate Increment II Risk Reduction | | <u> </u> | | | | | 0.000 | 20.299 | 84.836 |
| (U) | Initiate Aircraft Integration | | | | | | | | 1.260 | 1.921 |
| (U) | Continue Program Office Support | | | | | | | | 3.581 | 3.961 |
| (U) | Total Cost | | | | | | | 0.000 | 25.140 | 90.718 |
| (U) | C. Other Program Funding Summ | ary (\$ in Millio | ons) | | | | | | | |
| | | FY 2005 Actual | FY 2006 Estimate | FY 2007 Estimate | FY 2008 Estimate | FY 2009 Estimate | FY 2010 Estimate | FY 2011 Estimate | Cost to Complete | Total Cost |

29.911

(U) D. Acquisition Strategy

(U) RDT&E.N

All major contracts within this Program Element will be awarded through full and open competition. Up to two contractors will be selected for the 42 month Risk Reduction phase using Cost Plus Fixed Fee contracts. Downselect to one contractor will occur prior to System Development and Demonstration (SDD). SDD will be a Cost Plus Fixed Fee with performance incentives. This approach allows higher risk, less mature technologies to be fielded in an evolutionary fashion. Limited US Navy funding and resources may support the Risk Reduction phase.

10.018

The Government is buying the SDB II based on contractor-developed, Government-approved System Performance Specification (SPS) which will become contractually binding at downselect. The contractor will be accountable for system performance as defined in the SPS may include a system warranty. Accordingly, the contractor is responsible not only for the design of the weapon system, but also for planning and executing the Development Test and Evaluation (DT&E) program to verify the system performance. The Government formally arranges and funds the use of Government flight test support for DT&E. Although funded by the

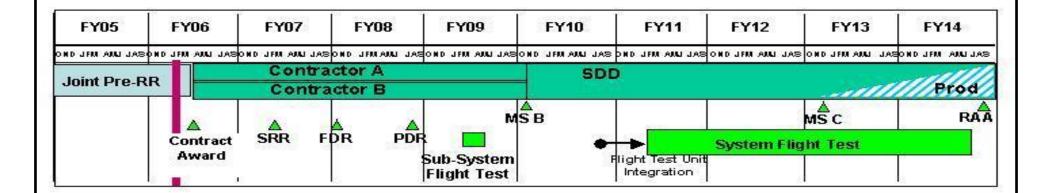
Project 5191 R-1 Shopping List - Item No. 75-8 of 75-12 Exhibit R-2a (PE 0604329F

| E 1 11 1 D 0 DDT0 E 1 | Exhibit R-2a, RDT&E Project Justification | | | | | | | | | |
|--|--|--------------|---|--|--|--|--|--|--|--|
| Exhibit R-2a, RDT&E F | Project Justification | | February 2006 | | | | | | | |
| BUDGET ACTIVITY 05 System Development and Demonstration (SDD) | PE NUMBER AND TITLE 0604329F Small Diameter Bomb | | T NUMBER AND TITLE mall Diameter Bomb Increment | | | | | | | |
| Government, flight test support funds are part of the negotiated comm DT&E Program according to the scope of the RR/SDD contract. | nitment between the contractor and the Government ensuring | g the contra | ctor is able to execute the | | | | | | | |
| Note: SDB II program Acquisition Strategy and funding adjusted to i | incorporate GAO recommendation. (B295402, 18 Feb 05) | | | | | | | | | |
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| Project 5191 R-1 | 1 Shonning List - Item No. 75-9 of 75-12 | | Exhibit R-2a (PE 0604329F) | | | | | | | |

| | E | xhibit R- | 3, RDT&E F | Project Co | st Anal | ysis | | | | | | ruary 20 | 006 | |
|-----|---|------------------------------|--------------------------------------|-----------------------------|----------------------------------|--------------------------|----------------------------|--------------------------|-------------------------------|--|--|--|--|--|
| | DIGET ACTIVITY S System Development and Demonstration (SDD) PE NUMBER AND TITLE 0604329F Small Diameter Bomb | | | | | | | | | PROJECT NUMBER AND TITLE 5191 Small Diameter Bomb Increment II | | | | |
| | Cost Categories (Tailor to WBS, or System/Item Requirements) (\$ in Millions) | Contract Method & Type | Performing Activity & Location | Total Prior to FY 2005 Cost | FY 2005 Cost | FY 2005 Award Date | FY 2006 Cost | FY 2006 Award Date | <u>FY 2007</u> <u>Cost</u> | FY 2007 Award Date | Cost to Complete | Total Cost | Target Value of Contract | |
| (U) | Product Development Risk Reduction Contract 1 Risk Reduction Contract 2 SDD Subtotal Product Development | CPFF CPFF CPIF | TBD TBD TBD | 0.000 | 0.000 0.000 0.000 0.000 | N/A N/A N/A | 10.149 10.149 20.298 | Apr-06 Apr-06 | 42.418 42.418 84.836 | Apr-06 Apr-06 | 128.222 128.222 466.876 723.320 | 180.789 180.789 466.876 828.454 | 180.789 180.789 466.876 828.454 | |
| (U) | Remarks: Support F-15 SPO | PO (In-House) | Wright Patterson AFB, | | 0.000 | N/A | 1.260 | N/A | 1.921 | N/A | 11.913 | 15.094 | 15.094 | |
| | Other A/C SPO's | PO (In-House) | OH Wright Patterson AFB, OH | | 0.000 | N/A | 0.000 | N/A | 0.000 | N/A | 0.000 | 0.000 | 0.000 | |
| | BRU-61/A | PO (In-House) | St. Louis, MO | | 0.000 | N/A | 0.500 | Apr-06 | 0.096 | Apr-06 | 0.000 | 0.596 | 0.596 | |
| | TEAS (Sverdrup Inc.) Other Subtotal Support Remarks: | C/CPAF Misc. | Eglin AFB, FL Various | 0.000 | 0.000 0.000 0.000 | N/A N/A | 1.549 1.223 4.532 | Feb-06 N/A | 1.581 1.968 5.566 | Feb-06 N/A | 8.418 13.228 33.559 | 11.548 16.419 43.657 | 11.548 16.419 43.657 | |
| (U) | Test & Evaluation 46 TW | PO (In-House) | Eglin AFB, FL | | 0.000 | N/A | 0.000 | N/A | 0.000 | N/A | 36.341 | 36.341 | 36.341 | |
| | Subtotal Test & Evaluation Remarks: | (III-House) | | 0.000 | 0.000 | | 0.000 | | 0.000 | | 36.341 | 36.341 | 36.341 | |
| (U) | Management TAMS Subtotal Management | C/CPAF | Eglin AFB, FL | 0.000 | 0.000 0.000 | N/A | 0.310 0.310 | Aug-05 | 0.316 0.316 | Aug-05 | 1.683 1.683 | 2.309 2.309 | 2.309 2.309 | |
| (U) | Remarks: Total Cost | | | 0.000 | 0.000 | | 25.140 | | 90.718 | | 794.903 | 910.761 | 910.761 | |
| | | | | | | | | | | | | | | |
| Pro | oject 5191 | | R | -1 Shopping Lis | t - Item No. | 75-10 of 75 | -12 | | | | Fxh | ibit R-3 (PE | 0604329F) | |

Exhibit R-4, RDT&E Schedule Profile BUDGET ACTIVITY 05 System Development and Demonstration (SDD) Exhibit R-4, RDT&E Schedule Profile PE NUMBER AND TITLE 0604329F Small Diameter Bomb 5191 Small Diameter Bomb Increment II

SDB II Notional Schedule



Project 5191

R-1 Shopping List - Item No. 75-11 of 75-12

Exhibit R-4 (PE 0604329F)

| Exhibit R-4a, RDT&E | DAT | February 2006 | | |
|---|---|---------------|---|--|
| BUDGET ACTIVITY 05 System Development and Demonstration (SDD) | PE NUMBER AND TITLE 0604329F Small Diameter Bomb | | MBER AND TITLE Diameter Bomb Increment | |
| (U) Schedule Profile (U) Contract Award (Risk Reduction) | FY 2005 | FY 2 | 3Q | |
| (U) System Requirements Review (SRR) | | | 2Q | |
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| Project 5191 R-1 S | Shopping List - Item No. 75-12 of 75-12 | | Exhibit R-4a (PE 0604329F) | |