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PE NUMBER: 0604604F
PE TITLE: Submunitions

Exhibit R-2, RDT&E Budget Item Justification								DATE February 2006																																					
BUDGET ACTIVITY 05 System Development and Demonstration (SDD)					PE NUMBER AND TITLE 0604604F Submunitions																																								
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																																				
Total Program Element (PE) Cost	5.682	5.397	5.759	1.983	1.741	1.838	1.707	Continuing	TBD																																				
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<p>The FY03 National Defense Authorization Act language directed Test & Evaluation (T&E) centers to charge only direct costs beginning in FY06. This resulted in a zero balance transfer (ZBT) of funding over the FYDP from the customer accounts (for indirect test costs) to T&E support, PE 65807F. For this PE, the T&E funding alignment begins in FY08.</p> <p>(U) A. Mission Description and Budget Item Justification</p> <p>This program element provides support for smart munitions and related technologies test and evaluation (T&E) activities, including T&E support for programs in engineering and manufacturing development. Project 3166 is a joint US Air Force/US Army project which provides RDT&E support for developmental smart munitions acquisition programs. Project 3166 (project Chicken Little) evaluates developmental smart munitions and related emerging technology with applications against vehicle targets and Theater Air Defense units by determining performance against actual foreign targets in realistic environments and in the presence of countermeasures. Data gathered is used to meet developmental decision points requiring highly reliable, realistic performance data. The project is a major focal point for joint Air Force and Army target signature collection and dissemination for development and exploitation purposes. The program provides best value test and evaluation support for submunition development and weaponization studies and modeling and simulation capabilities to augment a limited number of measurement and open air tests of smart weapons and related technologies.</p> <p>This program is funded in BA5 - System Development and Demonstration (SDD) because it supports development programs prior to full rate production decision.</p> <p>(U) B. Program Change Summary (\$ in Millions)</p> <table style="width: 100%; margin-top: 10px;"> <thead> <tr> <th></th> <th style="text-align: center;"><u>FY 2005</u></th> <th style="text-align: center;"><u>FY 2006</u></th> <th style="text-align: center;"><u>FY 2007</u></th> </tr> </thead> <tbody> <tr> <td>(U) Previous President's Budget</td> <td style="text-align: center;">5.772</td> <td style="text-align: center;">5.475</td> <td style="text-align: center;">5.728</td> </tr> <tr> <td>(U) Current PBR/President's Budget</td> <td style="text-align: center;">5.682</td> <td style="text-align: center;">5.397</td> <td style="text-align: center;">5.759</td> </tr> <tr> <td>(U) Total Adjustments</td> <td style="text-align: center;">-0.090</td> <td style="text-align: center;">-0.078</td> <td></td> </tr> <tr> <td>(U) Congressional Program Reductions</td> <td style="text-align: center;">0.000</td> <td style="text-align: center;">0.000</td> <td></td> </tr> <tr> <td>Congressional Rescissions</td> <td style="text-align: center;">-0.004</td> <td style="text-align: center;">-0.078</td> <td></td> </tr> <tr> <td>Congressional Increases</td> <td style="text-align: center;">0.000</td> <td style="text-align: center;">0.000</td> <td></td> </tr> <tr> <td>Reprogrammings</td> <td style="text-align: center;">-0.070</td> <td style="text-align: center;">0.000</td> <td></td> </tr> <tr> <td>SBIR/STTR Transfer</td> <td style="text-align: center;">-0.016</td> <td style="text-align: center;">0.000</td> <td></td> </tr> </tbody> </table> <p>(U) Significant Program Changes: FUNDING: None</p>											<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>	(U) Previous President's Budget	5.772	5.475	5.728	(U) Current PBR/President's Budget	5.682	5.397	5.759	(U) Total Adjustments	-0.090	-0.078		(U) Congressional Program Reductions	0.000	0.000		Congressional Rescissions	-0.004	-0.078		Congressional Increases	0.000	0.000		Reprogrammings	-0.070	0.000		SBIR/STTR Transfer	-0.016	0.000	
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Exhibit R-2a, RDT&E Project Justification								DATE February 2006	
BUDGET ACTIVITY 05 System Development and Demonstration (SDD)				PE NUMBER AND TITLE 0604604F Submunitions			PROJECT NUMBER AND TITLE 3166 Joint Smart Munitions Test and Evaluation		
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
3166 Joint Smart Munitions Test and Evaluation	5.682	5.397	5.759	1.983	1.741	1.838	1.707	Continuing	TBD
Quantity of RDT&E Articles	0	0	0	0	0	0	0		
<p>(U) <u>A. Mission Description and Budget Item Justification</u></p> <p>This program element provides support for smart munitions and related technologies test and evaluation (T&E) activities, including T&E support for programs in engineering and manufacturing development. Project 3166 is a joint US Air Force/US Army project which provides RDT&E support for developmental smart munitions acquisition programs. Project 3166 (project Chicken Little) evaluates developmental smart munitions and related emerging technology with applications against vehicle targets and Theater Air Defense units by determining performance against actual foreign targets in realistic environments and in the presence of countermeasures. Data gathered is used to meet developmental decision points requiring highly reliable, realistic performance data. The project is a major focal point for joint Air Force and Army target signature collection and dissemination for development and exploitation purposes. The program provides best value test and evaluation support for submunition development and weaponization studies and modeling and simulation capabilities to augment a limited number of measurement and open air tests of smart weapons and related technologies.</p> <p>This program is funded in BA5 - System Development and Demonstration (SDD) because it supports development programs prior to full rate production decision.</p>									
(U) <u>B. Accomplishments/Planned Program (\$ in Millions)</u>						<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>	
(U) Continue weapon effectiveness evaluation and weaponization studies						0.994	0.762	0.813	
(U) Develop, validate, and accredit improved models and simulation for assessment of alternatives and force on force studies						0.515	0.336	0.360	
(U) Increase utility of lethality/vulnerability and signature database through addition of modern threat systems and secure datalink						0.756	1.571	1.677	
(U) Plan and conduct captive carry flight tests and signature collection for seeker/sensor evaluations and algorithm development						1.776	1.307	1.397	
(U) Characterize performance of advanced and programmable warheads to access potential for increasing lethality of weapons						0.304	0.263	0.280	
(U) Perform vulnerability analysis of upgraded/advanced Suppression of Enemy Air Defense (SEAD) and Advanced Hardened Targets (AHT)						0.350	1.158	1.232	
(U) Design a retrofit for the CBU-87 submunition (BLU-97) fuze to reduce unexploded ordnance						0.987	0.000	0.000	
(U) Total Cost						5.682	5.397	5.759	

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Exhibit R-2a, RDT&E Project Justification

DATE

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BUDGET ACTIVITY

05 System Development and Demonstration (SDD)

PE NUMBER AND TITLE

0604604F Submunitions

PROJECT NUMBER AND TITLE

3166 Joint Smart Munitions Test and
Evaluation(U) C. Other Program Funding Summary (\$ in Millions)

<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>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) None

(U) D. Acquisition Strategy

Funds are executed organically in support of test and evaluation activities including studies, analyses, flight tests, model building and simulation. There are two contracts supporting the program office in executing the testing activities.

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Exhibit R-3, RDT&E Project Cost Analysis										DATE February 2006			
BUDGET ACTIVITY 05 System Development and Demonstration (SDD)					PE NUMBER AND TITLE 0604604F Submunitions					PROJECT NUMBER AND TITLE 3166 Joint Smart Munitions Test and Evaluation			
(U) <u>Cost Categories</u> (Tailor to WBS, or System/Item Requirements) (\$ in Millions)	<u>Contract Method & Type</u>	<u>Performing Activity & Location</u>	<u>Total Prior to FY 2005 Cost</u>	<u>FY 2005 Cost</u>	<u>FY 2005 Award Date</u>	<u>FY 2006 Cost</u>	<u>FY 2006 Award Date</u>	<u>FY 2007 Cost</u>	<u>FY 2007 Award Date</u>	<u>Cost to Complete</u>	<u>Total Cost</u>	<u>Target Value of Contract</u>	
(U) <u>Support</u> Macaulay Brown/ANSTEC	FFP	Technical Analysis and Test Support, Eglin AFB, FL	1.706	0.100	Apr-05	0.080	Apr-05	0.000	N/A	Continuing	TBD	TBD	
Other (several small contracts)	CPIF	Technical/Cost Analysis, Eglin AFB, FL and Arlington, VA	0.191	0.300	Jan-05	0.300	Jan-06	0.300	Jan-07	Continuing	TBD	TBD	
Subtotal Support			1.897	0.400		0.380		0.300		Continuing	TBD	TBD	
Remarks:	For support contractors, once the contract is awarded, we continue funding via annual additions and do not award new contracts each year. CPIF = Cost Plus Incentive Fee; FFP = Firm Fixed Price												
(U) <u>Test & Evaluation</u> Sverdrup	CPIF	Technical Analysis and Test Support, Eglin AFB, FL	10.904	0.412	Jun-01	0.433	Jun-01	0.454	Jun-01	Continuing	TBD		
46th Test Wing (46 OG)	N/A	Conducting Tests and Analysis, Eglin AFB, FL	76.897	3.633	N/A	4.334	N/A	4.730	N/A	Continuing	TBD	TBD	
Subtotal Test & Evaluation			87.801	4.045		4.767		5.184		Continuing	TBD	TBD	
Remarks:	46th Test Wing is the Program Office which conducts inhouse testing. Contract type and award date is N/A.												
(U) <u>Management</u> 46th Test Wing (46 OG)	N/A	Planning and Conducting Tests, Eglin AFB, FL	6.613	0.250	N/A	0.250	N/A	0.275	N/A	Continuing	TBD	TBD	
AFRL/MN	N/A	Contract Mgt and Technical Review Eglin AFB, FL	0.000	0.087	N/A	0.000	N/A	0.000	N/A	Continuing	TBD		
Subtotal Management			6.613	0.337		0.250		0.275		Continuing	TBD	TBD	
Remarks:	46th Test Wing is the Program Office which conducts inhouse testing. Contract type and award date is N/A.												
(U) <u>(U) Research and Development</u> UXO Contracts (2) through AFRL/MN	N/A	Eglin AFB, FL	0.000	0.900	Aug-05	0.000	N/A	0.000	N/A	Continuing	TBD		
Subtotal (U) Research and Development			0.000	0.900		0.000		0.000		Continuing	TBD	0.000	
Remarks:													
(U) Total Cost			96.311	5.682		5.397		5.759		Continuing	TBD	TBD	
Project 3166			R-1 Shopping List - Item No. 84-4 of 84-6						Exhibit R-3 (PE 0604604F)				

Exhibit R-4, RDT&E Schedule Profile		DATE February 2006
BUDGET ACTIVITY 05 System Development and Demonstration (SDD)	PE NUMBER AND TITLE 0604604F Submunitions	PROJECT NUMBER AND TITLE 3166 Joint Smart Munitions Test and Evaluation
<p>SCHEDULE</p> <p>Project 3166, Joint Smart Munition Test and Evaluation program (project Chicken Little) does not execute in accordance with established acquisition milestones. Chicken Little is a continuing test effort: Target/warhead evaluation/analysis, signature tests, and captive carry flight tests are ongoing throughout the year and continue through the FYDP. This project is also funded by the Army and other Services on a case by case basis. The type of activities is given in Section B. The timing, duration, and level of effort is decided at the annual Steering Committee meetings.</p>		
Project 3166	R-1 Shopping List - Item No. 84-5 of 84-6	Exhibit R-4 (PE 0604604F)

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Exhibit R-4a, RDT&E Schedule Detail

DATE

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05 System Development and Demonstration (SDD)

PE NUMBER AND TITLE

0604604F Submunitions

PROJECT NUMBER AND TITLE

3166 Joint Smart Munitions Test and
Evaluation(U) Schedule ProfileFY 2005FY 2006FY 2007

(U) Target/warhead evaluation/analysis, signature test, captive carry flight tests

1-4Q

1-4Q

1-4Q

(U) Design a retrofit for CBU-87 submunition fuze

2-4Q

1-4Q