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PE NUMBER: 0604604F
 PE TITLE: Submunitions

Exhibit R-2, RDT&E Budget Item Justification	DATE February 2004
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BUDGET ACTIVITY 05 System Development and Demonstration (SDD)	PE NUMBER AND TITLE 0604604F Submunitions
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	FY 2003 Actual	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	Cost to Complete	Total
Cost (\$ in Millions)									
Total Program Element (PE) Cost	4.376	4.677	4.824	5.444	5.627	5.717	5.806	Continuing	TBD
3166 Joint Smart Munitions Test and Evaluation	4.376	4.677	4.824	5.444	5.627	5.717	5.806	Continuing	TBD

(U) A. Mission Description and Budget Item Justification

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.

This program is funded in BA5 - System Development and Demonstration (SDD) because it supports development programs prior to full rate production decision.

(U) B. Program Change Summary (\$ in Millions)

	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>
(U) Previous President's Budget	4.588	4.717	4.837
(U) Current PBR/President's Budget	4.376	4.677	4.824
(U) Total Adjustments	-0.212	-0.040	
(U) Congressional Program Reductions	0.000	0.000	
Congressional Rescissions	0.000	-0.040	
Congressional Increases	0.000	0.000	
Reprogrammings	-0.076	0.000	
SBIR/STTR Transfer	-0.136	0.000	
(U) <u>Significant Program Changes:</u>			
None			

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Exhibit R-2a, RDT&E Project Justification

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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			
Cost (\$ in Millions)		FY 2003 Actual	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	Cost to Complete	Total
3166	Joint Smart Munitions Test and Evaluation	4.376	4.677	4.824	5.444	5.627	5.717	5.806	Continuing	TBD
	Quantity of RDT&E Articles	0	0	0	0	0	0	0		

(U) A. Mission Description and Budget Item Justification

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.

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(U) B. Accomplishments/Planned Program (\$ in Millions)

	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>
(U) Continue weapon effectiveness evaluation and weaponization studies	1.225	1.296	1.275
(U) Develop, validate, and accredit improved models and simulation for assessment of alternatives and force on force studi	1.003	0.614	0.769
(U) Increase utility of lethality/vulnerability and signature database through addition of modern threat systems and secure datalink	0.400	0.429	0.445
(U) Plan and conduct captive carry flight tests and signature collection for seeker/sensor evaluations and algorithm development	1.143	1.850	1.829
(U) Characterize performance of advanced and programmable warheads to access potential for increasing lethality of weapons	0.313	0.244	0.253
(U) Perform vulnerability analysis of upgraded/advanced Suppression of Enemy Air Defense (SEAD) and Advanced Hardened Targets (AHT)	0.292	0.244	0.253
(U) Total Cost	4.376	4.677	4.824

Exhibit R-2a, RDT&E Project Justification

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05 System Development and Demonstration (SDD)

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3166 Joint Smart Munitions Test and Evaluation**(U) C. Other Program Funding Summary (\$ in Millions)****(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 several small contracts supporting the program office.

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Exhibit R-3, RDT&E Project Cost Analysis										DATE February 2004		
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) Cost Categories (Tailor to WBS, or System/Item Requirements) (\$ in Millions)	<u>Contract Method & Type</u>	<u>Performing Activity & Location</u>	<u>Total</u> Prior to FY 2003 <u>Cost</u>	<u>FY</u>	<u>FY</u>	<u>FY</u>	<u>FY</u>	<u>FY</u>	<u>FY</u>	<u>Cost to Complete</u>	<u>Total Cost</u>	<u>Target Value of Contract</u>
				2003 <u>Cost</u>	2003 <u>Award</u> Date	2004 <u>Cost</u>	2004 <u>Award</u> Date	2005 <u>Cost</u>	2005 <u>Award</u> Date			
(U) <u>Support</u> Sverdrup	CPIF	Technical Analysis and Test Support, Eglin AFB, FL	10.408	0.225	Jun-01	0.205	Jun-01	0.210	Jun-01	Continuing	TBD	TBD
Macaulay Brown/ANSTEC	FFP	Technical Analysis and Test Support, Eglin AFB, FL	1.428	0.220	Apr-02	0.095	Apr-02	0.098	Apr-05	Continuing	TBD	TBD
Other (A-Team)	CPIF	Technical/Cost Analysis, Eglin AFB, FL and Arlington, VA	0.000	0.119	Jan-00	0.127	Jan-04	0.130	Jan-04	Continuing	TBD	TBD
Subtotal Support			11.836	0.564		0.427		0.438		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> 46 OG/OGML	N/A	Conducting Tests and Analysis, Eglin AFB, FL	69.510	3.587	N/A	4.000	N/A	4.119	N/A	Continuing	TBD	TBD
Subtotal Test & Evaluation			69.510	3.587		4.000		4.119		Continuing	TBD	TBD
Remarks:	46 OG/OGML is the Program Office which conducts inhouse testing. Contract type and award date is N/A.											
(U) <u>Management</u> 46 OG/OGML	N/A	Planning and Conducting Tests, Eglin AFB, FL	6.138	0.225	N/A	0.250	N/A	0.267	N/A	Continuing	TBD	TBD
Subtotal Management			6.138	0.225		0.250		0.267		Continuing	TBD	TBD
Remarks:	46 OG/OGML is the Program Office which conducts inhouse testing. Contract type and award date is N/A.											
(U) Total Cost			87.484	4.376		4.677		4.824		Continuing	TBD	TBD

Exhibit R-4, RDT&E Schedule Profile

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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

SCHEDULE

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.

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Exhibit R-4a, RDT&E Schedule Detail		DATE February 2004
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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
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(U) <u>Schedule Profile</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>
(U) Target/warhead evaluation/analysis, signature test, captive carry flight tests	1-4Q	1-4Q	1-4Q