

UNCLASSIFIED

RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)								DATE February 2000		
BUDGET ACTIVITY 05 - Engineering and Manufacturing Development				PE NUMBER AND TITLE 0604604F Submunitions				PROJECT 653166		
COST (\$ in Thousands)		FY 1999 Actual	FY 2000 Estimate	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	Cost to Complete	Total Cost
653166	Joint Smart Munitions Test and Evaluation	4,477	7,698	4,775	4,782	4,720	4,815	4,911	Continuing	TBD
	Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0
<p>(U) <u>A. Mission Description</u> This PE 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. Phase IV (FY96-98) emphasized providing best value test and evaluation support for submunition development and weaponization studies and Phase V (FY99-01) will provide modeling and simulation capabilities to augment a limited number of measurement and open air tests of smart weapons and related technologies.</p>										
<p>(U) <u>FY 1999 (\$ in Thousands)</u></p>										
(U)	\$1,158	Initiated Phase V of the weapon effectiveness evaluation								
(U)	\$480	Developed and validated improved models and simulation for assessment of alternatives and force-on-force studies								
(U)	\$480	Increased utility of lethality/vulnerability and signature database through conversion to migration system and addition of new threat system data								
(U)	\$1,149	Conducted captive carry flight tests and signature collection for seeker/sensor evaluations and algorithm development								
(U)	\$580	Characterized performance of advanced and programmable warheads to access potential for increasing lethality of weapons								
(U)	\$630	Performed vulnerability analysis of upgraded/advanced Suppression of Enemy Air Defense (SEAD) and Theater Missile Defense (TMD) targets								
(U)	\$4,477	Total								
<p>(U) <u>FY 2000 (\$ in Thousands)</u></p>										
(U)	\$882	Continue Phase V of the weapon effectiveness evaluation								
(U)	\$491	Develop, validate, and accredit improved models and simulation for assessment of alternatives and force on force studies								
(U)	\$491	Increase utility of lethality/vulnerability and signature database through addition of modern threat systems and secure datalink								
(U)	\$1,325	Plan and conduct captive carry flight tests and signature collection for seeker/sensor evaluations and algorithm development								
(U)	\$723	Characterize performance of advanced and programmable warheads to access potential for increasing lethality of weapons								
Project 653166		Page 1 of 5 Pages					Exhibit R-2 (PE 0604604F)			

UNCLASSIFIED

RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)		DATE February 2000		
BUDGET ACTIVITY	PE NUMBER AND TITLE	PROJECT		
05 - Engineering and Manufacturing Development	0604604F Submunitions	653166		
(U) <u>A. Mission Description Continued</u>				
(U) <u>FY 2000 (\$ in Thousands) Continued</u>				
(U) \$786	Perform vulnerability analysis of upgraded/advanced Suppression of Enemy Air Defense (SEAD) and Theater Missile Defense (TMD) targets			
(U) \$3,000	Develop, procure, install and test an imaging infrared (IIR) instrumentation for multiobject target space position information for accurate tracking of smart weapon submunitions required for precise analysis of weapons test data			
(U) \$7,698	Total			
(U) <u>FY 2001 (\$ in Thousands)</u>				
(U) \$938	Continue Phase V of the weapon effectiveness evaluation			
(U) \$490	Develop, validate, and accredit improved models and simulation for assessment of alternatives and force on force studies			
(U) \$490	Increase utility of lethality/vulnerability and signature database through addition of modern threat systems and secure datalink			
(U) \$1,345	Plan and conduct captive carry flight tests and signature collection for seeker/sensor evaluations and algorithm development			
(U) \$726	Characterize performance of advanced and programmable warheads to access potential for increasing lethality of weapons			
(U) \$786	Perform vulnerability analysis of upgraded/advanced Suppression of Enemy Air Defense (SEAD) and Theater Missile Defense (TMD) targets			
(U) \$4,775	Total			
(U) <u>B. Budget Activity Justification</u>				
This program is funded in BA 5 - Engineering and Manufacturing Development because this program supports development programs prior to production decision.				
(U) <u>C. Program Change Summary (\$ in Thousands)</u>				
	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>Total Cost</u>
(U) Previous President's Budget (FY 2000 PBR)	4,791	4,798	4,817	TBD
(U) Appropriated Value	4,805	7,798		
(U) Adjustments to Appropriated Value				
a. Congressional/General Reductions				
b. Small Business Innovative Research	-230			
c. Omnibus or Other Above Threshold Reprogram		-52		
d. Below Threshold Reprogram	-59			
e. Rescissions	-39	-48		
f. Other				
(U) Adjustments to Budget Years Since FY 2000 PBR			-42	
(U) Current Budget Submit/FY 2001 PBR	4,477	7,698	4,775	TBD
Project 653166	Page 2 of 5 Pages	Exhibit R-2 (PE 0604604F)		

RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)	DATE February 2000
--	------------------------------

BUDGET ACTIVITY 05 - Engineering and Manufacturing Development	PE NUMBER AND TITLE 0604604F Submunitions	PROJECT 653166
--	---	--------------------------

(U) **C. Program Change Summary (\$ in Thousands) Continued**

(U) **Significant Program Changes:**
 In FY00, Congress added \$3,000 to develop, procure, install and test an imaging infrared (IIR) instrumentation for multiobject target space position information for accurate tracking of smart weapon submunitions required for precise analysis of weapons test data

(U) **D. Other Program Funding Summary (\$ in Thousands)**

	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</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) Not Applicable.

(U) **E. 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.

(U) **F. Schedule Profile**

	<u>FY 1999</u>				<u>FY 2000</u>				<u>FY 2001</u>			
	1	2	3	4	1	2	3	4	1	2	3	4

(U) 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, 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 A but the timing, duration and level of effort is decided at the semi-annual Steering Committee meetings.

UNCLASSIFIED

RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)							DATE February 2000			
BUDGET ACTIVITY 05 - Engineering and Manufacturing Development					PE NUMBER AND TITLE 0604604F Subunits			PROJECT 653166		
(U) A. Project Cost Breakdown (\$ in Thousands)										
						<u>FY 1999</u>		<u>FY 2000</u>		<u>FY 2001</u>
(U)	Program Support					1,108		1,032		1,095
(U)	Target Support					420		468		470
(U)	Warhead Range Operations					292		313		313
(U)	Captive Flight Tests					570		595		596
(U)	Database Support (MILES)					257		270		271
(U)	Vulnerability/Effectiveness Analysis					600		632		638
(U)	Warhead Evaluation					296		342		342
(U)	Target Signature Tests					470		580		582
(U)	Models and Simulation Tools					464		466		468
(U)	Develop and Install Imaging Infrared Instrumentation					0		3,000		0
(U)	Total					4,477		7,698		4,775
(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 1999</u>	<u>Budget FY 1999</u>	<u>Budget FY 2000</u>	<u>Budget FY 2001</u>	<u>Budget to Complete</u>	<u>Total Program</u>
	<u>or Funding Vehicle</u>	<u>Date</u>	<u>EAC</u>	<u>EAC</u>						
<u>Product Development Organizations</u>										
USArmy (Msl Command)	TBD	Mar 00	6,000	6,000	0	0	3,000	0	3,000	6,000
<u>Support and Management Organizations</u>										
Sverdrup	C/CPIF	Jun 96	N/A	N/A	7,825	1,266	1,317	1,320	Continuing	TBD
ANSTEC	C/FFP	Apr 96	N/A	N/A	1,035	192	201	204	Continuing	TBD
46 OG/OGML	N/A	Annual	N/A	N/A	4,766	589	610	618	Continuing	TBD
<u>Test and Evaluation Organizations</u>										
46 OG/OGML		Annual	N/A	N/A	64,816	2,430	2,570	2,633	Continuing	TBD

UNCLASSIFIED

RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)							DATE February 2000		
BUDGET ACTIVITY 05 - Engineering and Manufacturing Development				PE NUMBER AND TITLE 0604604F Subunits			PROJECT 653166		
(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 1999</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>Complete</u>	<u>Program</u>
	<u>Vehicle</u>								
<u>Product Development Property</u>									
Not Applicable	N/A	N/A	N/A	0	0	0	0	0	0
<u>Support and Management Property</u>									
Not Applicable	N/A	N/A	N/A	0	0	0	0	0	0
<u>Test and Evaluation Property</u>									
Not Applicable	N/A	N/A	N/A	0	0	0	0	0	0
				<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 1999</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>Complete</u>	<u>Program</u>
Subtotal Product Development				0	0	3,000	0	3,000	6,000
Subtotal Support and Management				13,626	2,047	2,128	2,142	TBD	TBD
Subtotal Test and Evaluation				64,816	2,430	2,570	2,633	TBD	TBD
Total Project				78,442	4,477	7,698	4,775	TBD	TBD