

# UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2014 Air Force										DATE: April 2013		
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 5: System Development & Demonstration (SDD)					R-1 ITEM NOMENCLATURE PE 0604604F: Submunitions							
COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO <sup>##</sup>	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
Total Program Element	-	2.427	2.567	2.564	-	2.564	2.574	2.647	2.682	2.731	Continuing	Continuing
653166: Joint Smart Munitions Test and Evaluation	-	2.427	2.567	2.564	-	2.564	2.574	2.647	2.682	2.731	Continuing	Continuing
Quantity of RDT&E Articles		0	0	0		0	0	0	0	0		
<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012 <sup>##</sup> The FY 2014 OCO Request will be submitted at a later date												
A. Mission Description and Budget Item Justification												
Project Chicken Little (PCL) continues providing superior rapid reaction signature exploitation capabilities for use on both the traditional and the asymmetrical battlefield. PCL delivers vital one-of-a-kind research, development, test and evaluation (RDT&E) expertise directly to the warfighter, capability developer, and allied/coalition forces.												
From its inception in 1985, PCL constantly advances the state-of-the-art for developmental smart munitions, seekers/sensors and their platforms. PCL also focuses its capability against today's networked weapons, emerging weapon concepts, and helps develop innovative targeting technologies to be employed against a wide variety of vehicle targets, theater air defense units, and an extensive array of associated equipment.												
Combat systems and support equipment exhibit physical characteristics (i.e. signatures), and present certain vulnerabilities, which can be exploited by various targeting technologies leading to the elimination or incapacitation of the threat through the application of force (e.g. smart munitions or directed energy) or application of intelligence, surveillance, reconnaissance (ISR) methods. PCL collects physical, functional, and signature attributes of real foreign threat systems and related equipment; these data feed high-fidelity models used to predict detection, classification, vulnerability and effectiveness performance for ISR sensor and weapon system design. PCL collects high resolution signature data using a variety of ground, air, and space-based sensors against both new and existing (obtained, sustained, and maintained to be signature representative) foreign targets; with and without the presence of camouflage, concealment, and deception materials; and operated using enemy tactics/CONOPS. The resulting highly reliable, realistic data directly supports munitions/targeting development programs and helps mitigate overall acquisition risk. PCL serves as a major focal point for joint signature exploitation, collection, and dissemination amongst the DoD and intelligence community (IC). PCL is a prime contributor in the time critical process to rapidly exploit, assess, and determine US and allied weapon/targeting performance against high value targets. Customers include: the major Defense and Service Intelligence Centers, all Services, the Joint Technical Coordinating Group (JTCG) who develop the Joint Munitions Effectiveness Manuals (JMEMs), Combatant Commands, AF Major Commands, US Air Force Weapons School curriculum support, and others. Current projects include, but are not limited to: target signature exploitation, target geometric modeling (for identifying vulnerabilities), improving air capabilities against protected structures (specifically hard and deeply buried targets), and the testing of multiple seekers, sensors, and targeting technologies in representative environments against COCOM/MAJCOM/IC high value targets.												

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This program is in Budget Activity 5, System Development and Demonstration (SDD) because it has passed Milestone B approval and is conducting engineering and manufacturing development tasks aimed at meeting validated requirements prior to full-rate production.						
B. Program Change Summary (\$ in Millions)		FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total
Previous President's Budget		2.427	2.567	2.564	-	2.564
Current President's Budget		2.427	2.567	2.564	-	2.564
Total Adjustments		0.000	0.000	0.000	-	0.000
• Congressional General Reductions		-	0.000			
• Congressional Directed Reductions		-	0.000			
• Congressional Rescissions		0.000	0.000			
• Congressional Adds		-	0.000			
• Congressional Directed Transfers		-	0.000			
• Reprogrammings		0.000	0.000			
• SBIR/STTR Transfer		0.000	0.000			
• Other Adjustments		0.000	0.000	0.000	-	0.000
Change Summary Explanation						
No Significant Changes						
C. Accomplishments/Planned Programs (\$ in Millions)				FY 2012	FY 2013	FY 2014
Title: Model Development and Vulnerability Analysis				0.365	0.375	0.150
Description: Develop, validate, and accredit improved models for target vulnerability and weapons effectiveness in support of Combatant Commands' (CoCOMs) requirements.						
FY 2012 Accomplishments: Constructed two geometric models based on CoCOMs' requirements.						
FY 2013 Plans: Develop, validate, and accredit improved models for target vulnerability and weapons effectiveness in support of warfighter requirements.						
No OCONUS requirements.						
FY 2014 Plans: Develop, validate, and accredit improved computer models to determine target vulnerability and weapons effectiveness in support of warfighter requirements.						

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<b>C. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>
No OCONUS requirements.				
<b>Title:</b> System Exploitation  <b>Description:</b> Provide the DoD community accurate multi-spectral signatures obtained from high-value, signature representative modern threat systems using advanced collection technologies.  Exploitations typically occur CONUS; however, Project Chicken Little is postured to support OCONUS collections as dictated by mission requirements.  <b>FY 2012 Accomplishments:</b> Exploit 4 high value threat systems. Provided signature data from multiple threat systems in various environments using advanced and developmental seeker/sensor technologies.  The 2012 EUCOM Focused Collection Operation highlighted the project's capabilities, both CONUS and OCONUS, to support immediate COCOM signature exploitation requirements.  <b>FY 2013 Plans:</b> Exploit high value threat systems (typically 4 per year). Provide signature data from multiple threat systems in various environments using advanced and developmental seeker/sensor technologies  No OCONUS requirements.  <b>FY 2014 Plans:</b> Exploit high value threat systems (typically 4 per year) and other targets of warfighter interest using multi-spectral collection technologies, national technical means, and developmental seeker/sensor technologies.  In even calendar years, this effort is scaled-back considerably to redirect funding for the bi-annual Sensor Week.		1.026	1.035	0.450
<b>Title:</b> Bi-Annual Sensor Week  <b>Description:</b> A critical underpinning of the System Exploitation major thrust area, Sensor Week occurs in even years and provides a unique air, ground, and NTM demonstration/validation of candidate Seeker/Sensor/ISR technologies.  Sensor Week is a specialized venue of the System Exploitation Major Thrust area; therefore, in even calendar years this major thrust receives the majority of the program element funding. During odd calendar years this major thrust area receives funding for planning the next Sensor Week.		0.000	0.020	0.950

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<b>C. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>
<b><i>FY 2012 Accomplishments:</i></b> Previously included in the System Exploitation line. Provides unique air/ground demo of candidate seekers/sensors/ISR assets.  <b><i>FY 2013 Plans:</i></b> (Note: Not a new start, previously addressed within System Exploitation, delineated here for improved traceability.) Sensor Week (SW) provides a singularly unique forum for joint service demonstration of developmental and operational seekers/sensors/ISR assets against a wide array of US, coalition, and foreign national ground targets.  No OCONUS requirements.  <b><i>FY 2014 Plans:</i></b> (Note: Not a new start, previously addressed within System Exploitation, delineated here for improved traceability.) Sensor Week (SW) provides a singularly unique forum for joint service demonstration of developmental and operational seekers/sensors/ISR assets against a wide array of US, coalition, and foreign national ground targets.				
<b><i>Title:</i></b> ISR Exploitation  <b><i>Description:</i></b> Plan and conduct captive carry flight tests and signature collection for seeker/sensor technology evaluations.  <b><i>FY 2012 Accomplishments:</i></b> Investigated components of the following technologies for utility in ISR activities: Hyper Spectral Imagery (HSI), shortwave IR and Polarmetric Imaging.  <b><i>FY 2013 Plans:</i></b> Exploit the signatures of ISR targets; conduct rapid reaction performance analysis & evaluations in support of COCOM/MAJCOM immediate/urgent warfighter needs; optimize current project methods to support ISR testing  No OCONUS requirements.  <b><i>FY 2014 Plans:</i></b> Exploit the signatures of high priority targets for use in ISR direct combat support and filling capability gaps; conduct rapid reaction performance analysis & evaluations in support of COCOM/MAJCOM immediate/urgent warfighter needs; optimize current project methods to support ISR testing		0.250	0.337	0.214
<b><i>Title:</i></b> Fleet Relevance  <b><i>Description:</i></b> Obtain/maintain high value signature quality threat assets.		0.786	0.800	0.800

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<b>C. Accomplishments/Planned Programs (\$ in Millions)</b>										<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>
Project Chicken Little manages this major thrust area by ensuring Chicken Little, DoD Major Test Range Facility Base (MTRFB), and other government threat capabilities remain current and representative for RDT&E. This funding ensures Project Chicken Little provides combat representative signatures.												
<b><i>FY 2012 Accomplishments:</i></b> Attained new emerging threat assets and decoys. Sustained and maintained existing foreign threat assets to ensure proper "signature representative" nature for systems development and testing.												
<b><i>FY 2013 Plans:</i></b> Assist in obtaining relevant, high value, and emergent threat assets and/or decoys. Ensure the fleet foreign threat assets remain properly "signature representative" for systems development and testing.												
No OCONUS requirements.												
<b><i>FY 2014 Plans:</i></b> Assist in obtaining relevant, high value, and emergent threat assets and/or decoys. Ensure the fleet foreign threat assets remain properly "signature representative" for systems development and testing. Combat representative signatures are critical when supporting the development of 5th generation fighter weapon systems, TTPs, next generation ISR capabilities, and rapid reaction COCOM exploitation efforts.												
<b>Accomplishments/Planned Programs Subtotals</b>										2.427	2.567	2.564
<b>D. Other Program Funding Summary (\$ in Millions)</b>												
<u>Line Item</u>	<u>FY 2012</u>	<u>FY 2013</u>	<u>FY 2014</u> <u>Base</u>	<u>FY 2014</u> <u>OCO</u>	<u>FY 2014</u> <u>Total</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>	
• None: N/A	0.000	0.000	0.000		0.000	0.000	0.000	0.000	0.000	Continuing	Continuing	
<b>Remarks</b>												
<b>E. Acquisition Strategy</b> Funds are executed organically in support of test and evaluation activities including studies, analyses, flight & ground tests, model building and simulation. Virtually all of the work is performed in-house by the 46th Test Wing.												
<b>F. Performance Metrics</b> Please refer to the Performance Base Budget Overview Book for information on how Air Force resources are applied and how those resources are contributing to Air Force performance goals and most importantly, how they contribute to our mission.												

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<b>Exhibit R-3, RDT&amp;E Project Cost Analysis: PB 2014 Air Force</b>													<b>DATE:</b> April 2013		
<b>APPROPRIATION/BUDGET ACTIVITY</b> 3600: Research, Development, Test & Evaluation, Air Force BA 5: System Development & Demonstration (SDD)							<b>R-1 ITEM NOMENCLATURE</b> PE 0604604F: Submunitions				<b>PROJECT</b> 653166: Joint Smart Munitions Test and Evaluation				

  

<b>Product Development (\$ in Millions)</b>				<b>FY 2012</b>		<b>FY 2013</b>		<b>FY 2014 Base</b>		<b>FY 2014 OCO</b>		<b>FY 2014 Total</b>			
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>All Prior Years</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
<b>Subtotal</b>			0.000	0.000		0.000		0.000		0.000		0.000	0.000	0.000	0.000

  

<b>Support (\$ in Millions)</b>				<b>FY 2012</b>		<b>FY 2013</b>		<b>FY 2014 Base</b>		<b>FY 2014 OCO</b>		<b>FY 2014 Total</b>			
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>All Prior Years</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
46th Test Wing	PO	Keeping Fleet Relevant:.,	-	0.786	Nov 2011	0.800	Nov 2012	0.800	Nov 2013	-		0.800	Continuing	Continuing	
<b>Subtotal</b>			0.000	0.786		0.800		0.800		0.000		0.800			

  

**Remarks**  
Fleet relevance addresses the acquisition of new and emerging threat vehicles, acquisition of high fidelity decoys, and sustainment of fleet signature quality.

  

<b>Test and Evaluation (\$ in Millions)</b>				<b>FY 2012</b>		<b>FY 2013</b>		<b>FY 2014 Base</b>		<b>FY 2014 OCO</b>		<b>FY 2014 Total</b>			
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>All Prior Years</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
46th Test Wing (46 OG and 46 TW)	TBD	Conducting Tests and Analysis:Eglin AFB, FL	-	1.591	Nov 2011	1.712	Nov 2012	1.709	Nov 2013	-		1.709	Continuing	Continuing	TBD
<b>Subtotal</b>			0.000	1.591		1.712		1.709		0.000		1.709			

  

**Remarks**  
46th Test Wing is the Program Office which conducts inhouse testing.

  

<b>Management Services (\$ in Millions)</b>				<b>FY 2012</b>		<b>FY 2013</b>		<b>FY 2014 Base</b>		<b>FY 2014 OCO</b>		<b>FY 2014 Total</b>			
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>All Prior Years</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
46 Test Wing (46 OG)	TBD	TBD:TBD,	-	0.050	Dec 2011	0.055	Nov 2012	0.055	Nov 2013	-		0.055	Continuing	Continuing	TBD
<b>Subtotal</b>			0.000	0.050		0.055		0.055		0.000		0.055			

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<b>Exhibit R-3, RDT&amp;E Project Cost Analysis:</b> PB 2014 Air Force												<b>DATE:</b> April 2013		
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<b>Management Services (\$ in Millions)</b>				<b>FY 2012</b>		<b>FY 2013</b>		<b>FY 2014 Base</b>		<b>FY 2014 OCO</b>		<b>FY 2014 Total</b>			
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>All Prior Years</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
<b>Remarks</b> 46th Test Wing is the Program Office which conducts inhouse testing.															
			<b>All Prior Years</b>	<b>FY 2012</b>		<b>FY 2013</b>		<b>FY 2014 Base</b>		<b>FY 2014 OCO</b>		<b>FY 2014 Total</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
<b>Project Cost Totals</b>				0.000	2.427		2.567		2.564		0.000	2.564			
<b>Remarks</b>															

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Exhibit R-4, RDT&E Schedule Profile: PB 2014 Air Force		DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 5: System Development & Demonstration (SDD)	R-1 ITEM NOMENCLATURE PE 0604604F: Submunitions	PROJECT 653166: Joint Smart Munitions Test and Evaluation
<p><b>SCHEDULE</b></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. 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>		



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Exhibit R-4A, RDT&E Schedule Details: PB 2014 Air Force		DATE: April 2013
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Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Target/warhead evaluation/analysis, signature test, captive carry flight tests.	1	2012	4	2018