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Exhibit R-2, RDT&E Budget Item Justification: PB 2014 Air Force	DATE: April 2013
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APPROPRIATION/BUDGET ACTIVITY					R-1 ITEM NOMENCLATURE							
3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 5: <i>System Development & Demonstration (SDD)</i>					PE 0604222F: <i>Nuclear Weapons Support</i>							
COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013[#]	FY 2014 Base	FY 2014 OCO ^{##}	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
Total Program Element	-	22.170	25.713	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
654236: <i>Engineering Analysis</i>	-	4.096	3.813	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
654807: <i>Nuclear Weapons & CP Technologies</i>	-	6.332	6.717	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
655708: <i>Nuclear Weapons Support</i>	-	11.742	15.183	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing

[#] FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

^{##} The FY 2014 OCO Request will be submitted at a later date

Note

Efforts FY14 and beyond are now documented under O&M PE 14222.

A. Mission Description and Budget Item Justification

The Air Force Nuclear Weapons Center, Kirtland AFB, NM, is the executing agency for this program. The Air Force is tasked with maintaining and providing technical expertise on all AF nuclear weapons and weapon systems and with developing and maintaining counter-chemical, biological, radiological, and nuclear (C-CBRN) capabilities. This program provides resources for technical and programmatic activities which includes performing independent analyses on all AF nuclear weapons systems activities including weapons development and sustainment; interoperability; compatibility; safety, security, and reliability; Air Force legacy nuclear stockpile management/retirement; C-CBRN assessments; and nuclear certification and nuclear certification management.

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.

UNCLASSIFIED

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APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 5: <i>System Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0604222F: <i>Nuclear Weapons Support</i>
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B. Program Change Summary (\$ in Millions)	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total
Previous President's Budget	18.475	25.713	27.226	-	27.226
Current President's Budget	22.170	25.713	0.000	-	0.000
Total Adjustments	3.695	0.000	-27.226	-	-27.226
• 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	3.695	0.000			
• SBIR/STTR Transfer	0.000	0.000			
• Other Adjustments	0.000	0.000	-27.226	-	-27.226

Change Summary Explanation

FY12 funding increased by \$3.695M for reprogrammings covering Nuclear Surety and Certification and Legacy Nuclear Stockpile Management.

FY14 realigned and documented in PE 0104222 (O&M).

UNCLASSIFIED

Exhibit R-2A, RDT&E Project 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 0604222F: Nuclear Weapons Support				PROJECT 654236: Engineering Analysis			
COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 [#]	FY 2014 Base	FY 2014 OCO ^{##}	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
654236: Engineering Analysis	-	4.096	3.813	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
Quantity of RDT&E Articles		0	0	0		0	0	0	0	0		
# FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012												
## The FY 2014 OCO Request will be submitted at a later date												
Note												
In FY2014, the engineering analysis project is documented in O&M PE 0104222.												
A. Mission Description and Budget Item Justification												
Provide for the technical oversight of all Air Force (AF) nuclear weapons, delivery systems, and support systems to include all phases of acquisition. Provide the engineering and technical management expertise required in critical areas of nuclear weapons safety, security, reliability, operations, modernization, testing, certification, and counter proliferation.												
Analyze and document nuclear weapons issues related to risk assessment, data collection, model development, model validation, and weapon effectiveness in support of the DoD-DoE Annual Surety Report; DoE Stockpile Stewardship Plan; DoD-DoE Nuclear Weapon Annual Assessment; and DoD-DoE nuclear stockpile planning and requirements assessment.												
Air Force Legacy Nuclear Stockpile: In accordance with DoDI 5030.55 and AFI 63-103, funding is used for scheduled, planned, and unplanned activities that support current active and inactive stockpile. Activities include stockpile maintenance; exploratory testing associated with significant finding investigations; DoD leadership, management, and oversight of the Air Force-led, joint DoD-DoE Nuclear Project Officer and Life Extension Groups to manage the B61, B83, W78, W87, W80 and W84 nuclear warheads and associated weapons; testing in support of DoE; associated AF components, and independent technical reviews of DoE National Laboratory processes.												
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. Accomplishments/Planned Programs (\$ in Millions)									FY 2012	FY 2013	FY 2014	
Title: W78 LEP									0.585	0.000	0.000	
Description: Execute W78 Life Extension Program (LEP), specifically identifying, assessing, and integrating design features, to both extend W78 service life and enhance the nuclear security of Minuteman III (MM III) and MMIII follow-on missile systems, to include engineering and production development through First Production Unit.												

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2014 Air Force		DATE: April 2013	
APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 5: <i>System Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0604222F: <i>Nuclear Weapons Support</i>	PROJECT 654236: <i>Engineering Analysis</i>	
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2012	FY 2013
FY 2012 Accomplishments: Provided DoD leadership, management, and oversight of the Air Force-led ICBM Warheads Project Officer's Group (POG) and W78/W87 stockpile. Prepared for the future W78 Life Extension Program via the W78 Joint Life Extension Study (JLES). Effort transfers to PE 0604933F, ICBM Fuze Modernization, project number 655082 in FY13. FY 2013 Plans: N/A FY 2014 Plans: N/A			
Title: Air Force Legacy Nuclear Stockpile Description: In accordance with DoDI 5030.55 and AFI 63-103, funding is used for scheduled, planned, and unplanned activities that support current active and inactive stockpile activities to include, but not limited to, stockpile maintenance, exploratory testing associated with significant finding investigations, DoD leadership, management, and oversight of the Air Force-led, joint DoD-DOE Nuclear Project Officer and Life Extension Groups to manage the B61, B83, W78, W87, W80 and W84 nuclear weapon active and inactive stockpile, conduct ground and flight tests in support of DOE, independent technical reviews of National Laboratory process with stakeholders, and studies and analyses. FY 2012 Accomplishments: Conducted oversight responsibilities for the Air Force Legacy Nuclear Stockpile in accordance with DoDI 5030.55 and AFI 63-103. Performed activities supporting current active and inactive stockpile including: stockpile maintenance analysis, stockpile logisitcs planning; provided DoD leadership, management, and oversight of the Air Force-led, joint DoD-DOE Nuclear Project Officer and Life Extension Groups to manage the B61, B83, W78, W87, W80 and W84 nuclear weapon active and inactive stockpile; conducted independent technical reviews of National Laboratory process with stakeholders; performed nuclear data management; and conducted studies and analyses as required to meet stockpile planning needs. FY 2013 Plans: Conduct oversight responsibilities for the Air Force Legacy Nuclear Stockpile in accordance with DoDI 5030.55 and AFI 63-103. Perform activities supporting current active and inactive stockpile including: stockpile maintenance analysis; stockpile logisitcs planning; providing DoD leadership, management, and oversight of the Air Force-led, joint DoD-DOE Nuclear Project Officer and Life Extension Groups to manage the B61, B83, W78, W87, W80 and W84 nuclear weapon active and inactive stockpile; conducting independent technical reviews of National Laboratory process with stakeholders; performing nuclear data management; and conducting studies and analyses as required to meet stockpile planning needs. Activity will increase over prior		2.126	3.271
			0.000

UNCLASSIFIED

Exhibit R-2A, RDT&E Project 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 0604222F: Nuclear Weapons Support		PROJECT 654236: Engineering Analysis
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2012	FY 2013	FY 2014
year as Lead Project Officers support ongoing life extension activities (B61-12 and W78-1) and prepare for future life extension activities. FY 2014 Plans: *The following Accomplishments will be continued in O&M PE 0104222 beginning FY14* Conduct oversight responsibilities for the Air Force Legacy Nuclear Stockpile in accordance with DoDI 5030.55 and AFI 63-103. Perform activities supporting current active and inactive stockpile including: stockpile maintenance analysis; stockpile logisitcs planning; providing DoD leadership, management, and oversight of the Air Force-led, joint DoD-DOE Nuclear Project Officer and Life Extension Groups to manage the B61, B83, W78, W87, W80 and W84 nuclear weapon active and inactive stockpile; conducting independent technical reviews of National Laboratory process with stakeholders; performing nuclear data management; and conducting studies and analyses as required to meet stockpile planning needs. Activity will increase over prior year due to expected ramp-up in Lead Project Officer support to ongoing life extension programs and increased support for aging active and inactive stockpile weapons.				
Title: Technical Analysis Description: Provide leadership to and managment of the AF-led Project Officer's Group (POG) for the Air Force legacy nuclear active and inactive stockpile. Includes technical analysis and studies in support of nuclear sustainment and Life Extension Programs. FY 2012 Accomplishments: Worked with national laboratories to recode legacy software so it will operate on modern computing systems. Developed Nuclear Weapons support tools and models. Effort combined with AF Legacy Nuclear Stockpile in FY13. FY 2013 Plans: N/A FY 2014 Plans: N/A		0.843	0.000	0.000
Title: PMA Description: Travel, supplies, and program management administration. FY 2012 Accomplishments: Travel, supplies, and program management administration. FY 2013 Plans:		0.542	0.542	0.000

UNCLASSIFIED

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APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 5: System Development & Demonstration (SDD)				R-1 ITEM NOMENCLATURE PE 0604222F: Nuclear Weapons Support				PROJECT 654236: Engineering Analysis				
B. Accomplishments/Planned Programs (\$ in Millions)										FY 2012	FY 2013	FY 2014
Travel, supplies, and program management administration.												
FY 2014 Plans: *Efforts will be continued in O&M PE 0104222 beginning FY14*												
Accomplishments/Planned Programs Subtotals										4.096	3.813	0.000
C. Other Program Funding Summary (\$ in Millions)												
Line Item	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost	
• RDT&E: BA05: PE 0101125F: Nuclear Weapons Modernization	91.269	80.200	67.874		67.874	200.634	215.976	210.200	155.121	Continuing	Continuing	
• RDT&E: BA05: PE 0604933F: ICBM Fuze Modernization	0.000	73.512	129.411		129.411	214.836	275.952	353.256	396.568	Continuing	Continuing	
• RDT&E: BA05: PE 0604932F: Long Range Standoff Weapon	0.000	2.004	5.000		5.000	40.500	203.600	349.300	440.300	Continuing	Continuing	
Remarks												
D. Acquisition Strategy Cost Plus Award Fee (CPAF) and Military Interdepartmental Purchase Requests (MIPRs) are/will be used to obtain technical analyses and technical support for safety, operations and counterproliferation assessments. Supporting activities are contracted separately using contract strategies deemed most appropriate to the effort. All contracts will be openly competed.												
E. Performance Metrics 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.												

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: 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 0604222F: Nuclear Weapons Support						PROJECT 654236: Engineering Analysis			
Product Development (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Stockpile Analysis Engineering Support	C/CPAF	SURVIAC:Albuquerque, NM	-	2.969	Feb 2012	2.891	Feb 2013	0.000		-		0.000	Continuing	Continuing	TBD
Subtotal			0.000	2.969		2.891		0.000		0.000		0.000			
Support (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Life Extension/Modernization Programs	Various	*See Remarks:Various,	-	0.585	Feb 2012	0.380	Feb 2013	0.000		-		0.000	Continuing	Continuing	TBD
Subtotal			0.000	0.585		0.380		0.000		0.000		0.000			
Remarks *ITT Systems, Albuquerque, NM; Los Alamos National Labs, Los Alamos, NM; SAIC, Arlington, VA; ANSER, Arlington, VA															
Test and Evaluation (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Subtotal			0.000	0.000		0.000		0.000		0.000		0.000	0.000	0.000	0.000
Management Services (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Program Management Administration	Various	Various,;	-	0.542	Nov 2011	0.542	Nov 2012	0.000		-		0.000	Continuing	Continuing	TBD
Subtotal			0.000	0.542		0.542		0.000		0.000		0.000			

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: 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 0604222F: Nuclear Weapons Support				PROJECT 654236: Engineering Analysis				
	All Prior Years	FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	0.000	4.096		3.813		0.000		0.000		0.000			

Remarks

UNCLASSIFIED

Exhibit R-4, RDT&E Schedule Profile: PB 2014 Air Force		DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 5: <i>System Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0604222F: <i>Nuclear Weapons Support</i>	PROJECT 654236: <i>Engineering Analysis</i>

BPAC 654236

- W78
- AF Legacy Nuclear Stockpile
- Technical Analysis

FY12				FY13*			

*AF Legacy Nuclear Stockpile effort continues and is documented in PE 14222

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Exhibit R-4A, RDT&E Schedule Details: PB 2014 Air Force		DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 5: <i>System Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0604222F: <i>Nuclear Weapons Support</i>	PROJECT 654236: <i>Engineering Analysis</i>

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
W78 LEP	1	2012	4	2012
AF Legacy Nuclear Stockpile Support	1	2012	4	2013
Technical Analysis	1	2012	4	2012

UNCLASSIFIED

Exhibit R-2A, RDT&E Project 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 0604222F: Nuclear Weapons Support				PROJECT 654807: Nuclear Weapons & CP Technologies			
COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 [#]	FY 2014 Base	FY 2014 OCO ^{##}	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
654807: Nuclear Weapons & CP Technologies	-	6.332	6.717	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
Quantity of RDT&E Articles		0	0	0		0	0	0	0	0		
# FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012												
## The FY 2014 OCO Request will be submitted at a later date												
Note												
In FY2014, radiological and nuclear (RN) efforts were transferred from project 654807 to the Engineering Analysis project in O&M PE 0104222.												
A. Mission Description and Budget Item Justification												
Perform engineering analyses across the counter chemical and biological (C-CB) pillars for countering Weapons of Mass Destruction (WMD) with emphasis on asymmetric threats, specifically C-CB, and other difficult to attack targets. Execute technical & operational analysis support for system specific programs, using commands, and leadership as directed.												
Develop proposed materiel solutions. Transition selected nuclear and non-nuclear concepts into an acquisition development effort to include identifying funding, and developing technical, schedule, and programmatic content.												
Prepare the necessary acquisition-related documentation to support program and/or decision reviews.												
Develop, evaluate, and utilize tools required for the employment of current inventory and new concepts for combating WMD weapons to include intelligence, surveillance, and reconnaissance; battle damage assessment; and target defeat and collateral effects predictions for current and future operations.												
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. Accomplishments/Planned Programs (\$ in Millions)									FY 2012	FY 2013	FY 2014	
Title: Strategic System Capabilities Assessments (SSCA)									1.008	1.063	0.000	
Description: This effort was previously identified Air-Delivered Studies. Strategic System Capabilities Assessments (SSCA) of warheads and their associated air delivered and/or ground based weapon systems to analyze current and future capabilities and vulnerabilities to provide recommendations for system level implementation to maintain the Air Force portion of our nuclear deterrent.												

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Air Force			DATE: April 2013		
APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 5: <i>System Development & Demonstration (SDD)</i>		R-1 ITEM NOMENCLATURE PE 0604222F: <i>Nuclear Weapons Support</i>		PROJECT 654807: <i>Nuclear Weapons & CP Technologies</i>	
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2012	FY 2013	FY 2014
<i>FY 2012 Accomplishments:</i> Assessed threats to air delivered strategic weapon systems to include warheads, cruise missiles, direct attack munitions and their associated platforms risks and shortfalls in order to assure system viability. Continued evaluation of the gaps that currently exist in their Air Force current capabilities, and analyzed future technologies and capabilities to address these gaps. This effort evaluated, directed, and integrated warhead efforts, platform integration, and operational suitability.					
<i>FY 2013 Plans:</i> Continuation of FY12 efforts addressing threats air delivered and/or ground based strategic weapon systems' risks and shortfalls, to include warheads, delivery vehicles and and their associated launch systems, to assure system viability. Continue evaluation of the gaps that currently exist in their Air Force current capabilities, and analyzed future technologies and capabilities to address these gaps. This effort will evaluate, direct, and integrate warhead efforts, platform integration, and operational suitability.					
<i>FY 2014 Plans:</i> *Efforts will be continued in O&M PE 0104222 beginning FY14*					
<i>Title:</i> Counter-Chemical and Biological (C-CB)			4.682	5.004	0.000
<i>Description:</i> Note: Radiological and nuclear activities from this effort transferred to project 654236, Engineering Analysis, in FY2014.					
The Counter Chemical and Biological (C-CB) studies and evaluation effort will address capability gaps, and conduct concept studies and technical assessments for countering CB threats from state and non-state entities to provide recommendations for system level implementation to maintain the nuclear deterrent. Additionally, the effort will address the evaluation of warhead and associated system capabilities relative to vulnerabilities, weapon effects, and hardness assessments to enable US forces to survive and operate efficiently and effectively.					
<i>FY 2012 Accomplishments:</i> Continued comprehensive review of the Counter-Chemical and Biological (C-CB) counterforce technologies that were currently being pursued by the Air Force. Completed the evaluation of their effectiveness and operational value to the warfighter and helped develop an incremental investment strategy to achieve counterforce capability goals. Continued to update assessments of current capabilities to C-CB threats based on current and future threat environments with identification of gaps that currently exist in our required capabilities, and an analysis of potential technologies and capabilities to address these gaps. Continued collaborations with Headquarters Air Force, Air Combat Command, Air Force Global Strike Command, the Defense Threat Reduction Agency (DTRA) and United Kingdom's Ministry of Defense in order to address identified gaps and leverage their robust capabilities to evaluate Weapons of Mass Destruction (WMD). Conducted intelligence and technical evaluations to support					

UNCLASSIFIED

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APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 5: System Development & Demonstration (SDD)					R-1 ITEM NOMENCLATURE PE 0604222F: Nuclear Weapons Support					PROJECT 654807: Nuclear Weapons & CP Technologies		
B. Accomplishments/Planned Programs (\$ in Millions)										FY 2012	FY 2013	FY 2014
national level decision making in the direction of real world operations. Initiated C-CB counterforce requirement validation project; draft briefing accomplished, initial data call information collected. Worked with USSTRATCOM FY14-18 Integrated Priority List (IPL).												
FY 2013 Plans: Continue and update comprehensive review of the Counter-Chemical and Biological (C-CB) counterforce technologies that are being pursued. Complete the evaluation of their effectiveness and operational value to the warfighter and help develop an incremental investment strategy to achieve counterforce capability goals. Continue update of assessments of current capabilities to C-CB threats based on current and future threat environments, evaluation of gaps that currently exist in our required capabilities, and an analysis of technologies and capabilities to address these gaps. Continue collaborations with the United Kingdom's Ministry of Defense in order to address identified gaps and leverage their robust capabilities to evaluate Weapons of Mass Destruction (WMD). Continue efforts to upgrade, develop, and manage a comprehensive data base system mission planning tool and associated models, to verify the nuclear air-delivered system safe-escape certification criteria, profiles, and planning tables for effective weapon employment.												
FY 2014 Plans: *Efforts will be continued in O&M PE 0104222 beginning FY14*												
Title: PMA										0.642	0.650	0.000
Description: TDY, Supply, and A&AS Support												
FY 2012 Accomplishments: TDY, Supply, and A&AS Support												
FY 2013 Plans: TDY, Supply, and A&AS Support												
FY 2014 Plans: *Activities will be continued in O&M PE 0104222 beginning FY14*												
Accomplishments/Planned Programs Subtotals										6.332	6.717	0.000
C. Other Program Funding Summary (\$ in Millions)												
Line Item	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost	
• None: N/A	0.000	0.000	0.000		0.000	0.000	0.000	0.000	0.000	0.000	0.000	

UNCLASSIFIED

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APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 5: <i>System Development & Demonstration (SDD)</i>					R-1 ITEM NOMENCLATURE PE 0604222F: <i>Nuclear Weapons Support</i>			PROJECT 654807: <i>Nuclear Weapons & CP Technologies</i>			
C. Other Program Funding Summary (\$ in Millions)											
			<u>FY 2014</u>	<u>FY 2014</u>	<u>FY 2014</u>					<u>Cost To</u>	
<u>Line Item</u>	<u>FY 2012</u>	<u>FY 2013</u>	<u>Base</u>	<u>OCO</u>	<u>Total</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>Complete</u>	<u>Total Cost</u>
<u>Remarks</u>											
D. Acquisition Strategy											
Multiple Cost Plus Fixed Fee (CPFF) and/or Time and Materials (T&M) contracts (the emphasis is minimal use), and Military Interdepartmental Purchase Requests (MIPRs) are/will be used to obtain technical analyses and technical support for safety, operations and counterproliferation assessments. All contracts will be competed.											
E. Performance Metrics											
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.											

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Air Force												DATE: April 2013			
APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 5: <i>System Development & Demonstration (SDD)</i>						R-1 ITEM NOMENCLATURE PE 0604222F: <i>Nuclear Weapons Support</i>						PROJECT 654807: <i>Nuclear Weapons & CP Technologies</i>			
Product Development (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
SSCA	MIPR	SNL:Albuquerque, NM	-	1.062	Dec 2011	1.069	Dec 2012	0.000		-		0.000	Continuing	Continuing	TBD
RN Engineering Analysis	C/CPFF	*See Remarks:Various,	-	2.082	Nov 2011	2.248	Nov 2012	0.000		-		0.000	Continuing	Continuing	TBD
CB Engineering Analysis	C/CPFF	**See Remarks:Various,	-	2.546	Jan 2012	2.750	Jan 2013	0.000		-		0.000	Continuing	Continuing	TBD
Subtotal			0.000	5.690		6.067		0.000		0.000		0.000			
Remarks *Exelis (formerly ITT/AES), Albuquerque, NM; Development Test & Evaluation: ELM, SERPENT C-CBRN modeling codes; DTRA, Ft Belvoir VA, Survivability and Vulnerability Information Analysis Center, Dayton Ohio **Operational Test & Evaluation: AFLCMC/MIT Lincoln Labs, Boston, MA; AFRL, Albuquerque, NM; AFLCMC Wright-Patterson AFB, OH; AFLCMC, Eglin AFB, FL; White Sands Missile Range, Alamagordo, NM															
Support (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Subtotal			0.000	0.000		0.000		0.000		0.000		0.000	0.000	0.000	0.000
Test and Evaluation (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Subtotal			0.000	0.000		0.000		0.000		0.000		0.000	0.000	0.000	0.000

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Air Force												DATE: April 2013			
APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 5: <i>System Development & Demonstration (SDD)</i>								R-1 ITEM NOMENCLATURE PE 0604222F: <i>Nuclear Weapons Support</i>				PROJECT 654807: <i>Nuclear Weapons & CP Technologies</i>			

Management Services (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Program Management Administration (SSCA)	Various	Various:Various,	-	0.088	Nov 2011	0.090	Nov 2012	0.000		-		0.000	Continuing	Continuing	TBD
Program Management Administration (CBRN)	Various	Various:Various,	-	0.554	Nov 2011	0.560	Nov 2012	0.000		-		0.000	Continuing	Continuing	TBD
Subtotal			0.000	0.642		0.650		0.000		0.000		0.000			

	All Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	0.000	6.332	6.717	0.000	0.000	0.000			

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2014 Air Force		DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 5: <i>System Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0604222F: <i>Nuclear Weapons Support</i>	PROJECT 654807: <i>Nuclear Weapons & CP Technologies</i>

BPAC 654807

- Strategic System Capabilities Assessment (SSCA)
- Counter-Chemical and Biological (C-CB)

FY12	FY13*
▲ ◆	▲ ◆
▲ ◆	▲ ◆

▲ Contract Award ◆ Study and Evaluation Report Delivered

*Efforts continue after FY13 and are documented in PE 14222

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Exhibit R-4A, RDT&E Schedule Details: PB 2014 Air Force		DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 5: <i>System Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0604222F: <i>Nuclear Weapons Support</i>	PROJECT 654807: <i>Nuclear Weapons & CP Technologies</i>

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Strategic System Capability Assessments (SSCA)	1	2012	4	2013
C-CB Engineering Analysis	1	2012	4	2013

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Exhibit R-2A, RDT&E Project 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 0604222F: Nuclear Weapons Support				PROJECT 655708: Nuclear Weapons Support			
COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 [#]	FY 2014 Base	FY 2014 OCO ^{##}	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
655708: Nuclear Weapons Support	-	11.742	15.183	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
Quantity of RDT&E Articles		0	0	0		0	0	0	0	0		
# FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012												
## The FY 2014 OCO Request will be submitted at a later date												
Note												
In FY2014 the Nuclear Surety and Certification effort was transferred to the Engineering Analysis program code in O&M PE 0104222.												
A. Mission Description and Budget Item Justification												
Provides civilian pay for acquisition professional functional expertise in support of Air Force Nuclear Weapons Center nuclear warhead capability efforts. Prepare nuclear surety design criteria, standards, specifications, and related requirements documents for all nuclear capable Air Force ground launched missile, cruise missile, and gravity bomb systems; including nuclear certification program management.												
B. Accomplishments/Planned Programs (\$ in Millions)										FY 2012	FY 2013	FY 2014
Title: Nuclear Surety and Certification										2.953	5.014	0.000
Description: Prepare nuclear surety design criteria, standards, specifications, and related requirements documents for all nuclear capable Air Force ground launched missile, cruise missile, and gravity bomb systems. Includes nuclear certification program management.												
FY 2012 Accomplishments:												
Continued to perform the engineering and surety analysis role by continuing studies and analyses. Continued to study issues and implement improvements to Air Force nuclear weapons, facilities, and support equipment.												
FY 2013 Plans:												
Continued to perform the engineering and surety analysis role by continuing studies and analyses. Continued to study issues and implement improvements to Air Force nuclear weapons, facilities, and support equipment.												
FY 2014 Plans:												
In FY14, this effort moves to the Engineering Analysis project in O&M PE 0104222.												
Title: Nuclear Surety Support										8.789	10.169	0.000

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Air Force										DATE: April 2013	
APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 5: <i>System Development & Demonstration (SDD)</i>					R-1 ITEM NOMENCLATURE PE 0604222F: <i>Nuclear Weapons Support</i>			PROJECT 655708: <i>Nuclear Weapons Support</i>			

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2012	FY 2013	FY 2014
Description: Provides civilian pay for acquisition professional functional expertise in support of Air Force Nuclear Weapons Center nuclear warhead capability efforts. FY 2012 Accomplishments: Provided civilian pay for acquisition professional functional expertise in support of the Nuclear Warhead Capability efforts as new systems and items are introduced or existing systems and items were modified. FY 2013 Plans: Provide civilian pay for acquisition professional functional expertise in support of the Nuclear Warhead Capability efforts as new systems and items are introduced or existing systems and items are modified. FY 2014 Plans: In FY2014, this effort continues in O&M PE 0104222.			
Accomplishments/Planned Programs Subtotals	11.742	15.183	0.000

C. Other Program Funding Summary (\$ in Millions)												
	<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>
• 0: N/A		0.000	0.000	0.000		0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
Remarks												
D. Acquisition Strategy Research, Development, Test, and Evaluation (RDT&E) projects performed by AF organizations are direct funded, other DoD and government agencies by Military Interdepartmental Purchase Request (MIPR) or other appropriate means. Contractor efforts are accomplished via cost plus award fee (CPAF) contracts awarded as a result of open competition.												
E. Performance Metrics 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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Exhibit R-3, RDT&E Project Cost Analysis: 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 0604222F: Nuclear Weapons Support				PROJECT 655708: Nuclear Weapons Support					
Product Development (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Nuclear Surety and Certification	C/CPAF	Technical Engineering Analysis Support:Albuquerque, NM	-	2.953	Nov 2011	2.000	Nov 2012	0.000		-		0.000	Continuing	Continuing	TBD
Studies, Analyses, & Evaluations	Various	*See Remarks:*See Remarks,	-	0.000	Feb 2012	1.764	Feb 2013	0.000		-		0.000	Continuing	Continuing	TBD
Subtotal			0.000	2.953		3.764		0.000		0.000		0.000			
Remarks															
* Defense Threat Reduction Agency (DTRA), Ft Belvoir, VA; DOE national laboratories such as Sandia National Laboratories (SNL), Kirtland AFB, NM & Livermore, CA, & Lawrence Livermore National Laboratory (LLNL), Livermore, CA; others as needed															
Support (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Subtotal			0.000	0.000		0.000		0.000		0.000		0.000	0.000	0.000	0.000
Test and Evaluation (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Subtotal			0.000	0.000		0.000		0.000		0.000		0.000	0.000	0.000	0.000
Management Services (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Nuclear Surety Support/ Civilian Payroll	TBD	AFNWC:Kirtland AFB, NM	-	8.789	Oct 2011	10.169	Oct 2012	0.000		-		0.000	Continuing	Continuing	TBD
Program Management Administration	Various	Various:,	-	0.000		0.725	Nov 2012	0.000		-		0.000	Continuing	Continuing	TBD

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Air Force												DATE: April 2013			
APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 5: <i>System Development & Demonstration (SDD)</i>							R-1 ITEM NOMENCLATURE PE 0604222F: <i>Nuclear Weapons Support</i>					PROJECT 655708: <i>Nuclear Weapons Support</i>			

Management Services (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Management and Professional Support Services	C/CPAF	MacAulay Brown:Albuquerque, NM	-	0.000		0.525	Dec 2012	0.000		-		0.000	Continuing	Continuing	TBD
Subtotal			0.000	8.789		11.419		0.000		0.000		0.000			

	All Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	0.000	11.742	15.183	0.000	0.000	0.000			

Remarks

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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 0604222F: Nuclear Weapons Support	PROJECT 655708: Nuclear Weapons Support

BPAC 655708

- Nuclear Surety and Certification
- Civilian Pay

FY12	FY13*

*Efforts continue after FY13 and are documented in PE 14222

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Exhibit R-4A, RDT&E Schedule Details: PB 2014 Air Force		DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 5: <i>System Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0604222F: <i>Nuclear Weapons Support</i>	PROJECT 655708: <i>Nuclear Weapons Support</i>

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Nuclear Surety/Certification Support	1	2012	4	2013
Civilian Pay	1	2012	4	2013