Exhibit R-2, RDT&E Budget Item Justification: PB 2014 Air Force

DATE: April 2013

APPROPRIATION/BUDGET ACTIVITY

R-1 ITEM NOMENCLATURE

3600: Research, Development, Test & Evaluation, Air Force

PE 0604222F: Nuclear Weapons Support

BA 5: System Development & Demonstration (SDD)

		` ,												
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: Engineering Analysis	-	4.096	3.813	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing		
654807: Nuclear Weapons & CP Technologies	-	6.332	6.717	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing		
655708: Nuclear Weapons Support	-	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

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.

PE 0604222F: Nuclear Weapons Support

Air Force

UNCLASSIFIED
Page 1 of 24

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

Exhibit R-2, RDT&E Budget Item Justification: PB 2014 Air Force

DATE: April 2013

APPROPRIATION/BUDGET ACTIVITY

R-1 ITEM NOMENCLATURE

3600: Research, Development, Test & Evaluation, Air Force

PE 0604222F: Nuclear Weapons Support

BA 5: System Development & Demonstration (SDD)

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).

PE 0604222F: Nuclear Weapons Support

Air Force Page 2 of 24

DATE: April 2013 Exhibit R-2A, RDT&E Project Justification: PB 2014 Air Force APPROPRIATION/BUDGET ACTIVITY **R-1 ITEM NOMENCLATURE PROJECT**

3600: Research, Development, Test & Evaluation, Air Force PE 0604222F: Nuclear Weapons Support

654236: Engineering Analysis BA 5: System Development & Demonstration (SDD)

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

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.			

PE 0604222F: Nuclear Weapons Support

Air Force

UNCLASSIFIED Page 3 of 24

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

Exhibit R-2A, RDT&E Project Justification: PB 2014 Air Force			DATE: A	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		
FY 2012 Accomplishments: Provided DoD leadership, management, and oversight of the Air Force-led W78/W87 stockpile. Prepared for the future W78 Life Extension Program variansfers to PE 0604933F, ICBM Fuze Modernization, project number 6550	via the W78 Joint Life Extension Study (JLES). Ef						
FY 2013 Plans: N/A							
FY 2014 Plans: N/A							
Title: Air Force Legacy Nuclear Stockpile			2.126	3.271	0.000		
Description: In accordance with DoDI 5030.55 and AFI 63-103, funding is that support current active and inactive stockpile activities to include, but no associated with significant finding investigations, DoD leadership, manager Nuclear Project Officer and Life Extension Groups to manage the B61, B83 and inactive stockpile, conduct ground and flight tests in support of DOE, in process with stakeholders, and studies and analyses.	esting D-DOE ve						
FY 2012 Accomplishments: Conducted oversight responsibilities for the Air Force Legacy Nuclear Stoc Performed activities supporting current active and inactive stockpile includi planning; provided DoD leadership, management, and oversight of the Air and Life Extension Groups to manage the B61, B83, W78, W87, W80 and conducted independent technical reviews of National Laboratory process wand conducted studies and analyses as required to meet stockpile planning	sitcs e;						
FY 2013 Plans: Conduct oversight responsibilities for the Air Force Legacy Nuclear Stockp 63-103. Perform activities supporting current active and inactive stockpile i logisites planning; providing DoD leadership, management, and oversight of Officer and Life Extension Groups to manage the B61, B83, W78, W87, W8 stockpile; conducting independent technical reviews of National Laboratory management; and conducting studies and analyses as required to meet stockpile.	ncluding: stockpile maintenance analysis; stockpi of the Air Force-led, joint DoD-DOE Nuclear Proje 80 and W84 nuclear weapon active and inactive of process with stakeholders; performing nuclear d	ct ata					

PE 0604222F: Nuclear Weapons Support

Air Force Page

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: Engineeri	PROJECT 54236: Engineering Analysis					
B. Accomplishments/Planned Programs (\$ in Millions) year as Lead Project Officers support ongoing life extension activities activities.	s (B61-12 and W78-1) and prepare for future life extens	FY 2012	FY 2013	FY 2014				
*The following Accomplishments will be continued in O&M PE 01042 the Air Force Legacy Nuclear Stockpile in accordance with DoDI 503 active and inactive stockpile including: stockpile maintenance analys management, and oversight of the Air Force-led, joint DoD-DOE Nuclear, B83, W78, W87, W80 and W84 nuclear weapon active and inactive and inac	30.55 and AFI 63-103. Perform activities supporting curris; stockpile logisitcs planning; providing DoD leadershiclear Project Officer and Life Extension Groups to manactive stockpile; conducting independent technical review lata management; and conducting studies and analyses prior year due to expected ramp-up in Lead Project Officer.	rent p, ge the vs of s as						
Title: Technical Analysis Description: Provide leadership to and managment of the AF-led Practive and inactive stockpile. Includes technical analysis and studies Programs.		0.843 clear	0.000	0.00				
FY 2012 Accomplishments: Worked with national laboratories to recode legacy software so it will Weapons support tools and models. Effort combined with AF Legacy FY 2013 Plans:		uclear						
N/A FY 2014 Plans: N/A								
Title: PMA		0.542	0.542	0.00				
Description: Travel, supplies, and program management administra	ation.							
FY 2012 Accomplishments: Travel, supplies, and program management administration.								
ravel, supplies, and program management daministration.								

UNCLASSIFIED

PE 0604222F: Nuclear Weapons Support

Air Force Page 5 of 24 R-1 Line #60

Exhibit R-2A, RDT&E Project Justification: PB 2014 Air Force	DATE: April 2013		
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJECT	
3600: Research, Development, Test & Evaluation, Air Force	PE 0604222F: Nuclear Weapons Support	654236: <i>Ei</i>	ngineering Analysis
BA 5: System Development & Demonstration (SDD)			

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)

		-	FY 2014	FY 2014	FY 2014					Cost To	
<u>Line Item</u>	FY 2012	FY 2013	Base	OCO	<u>Total</u>	FY 2015	FY 2016	FY 2017	FY 2018	Complete	Total Cost
• RDT&E: BA05: PE 0101125F:	91.269	80.200	67.874		67.874	200.634	215.976	210.200	155.121	Continuing	Continuing
Nuclear Weapons Modernization											
• RDT&E: BA05: PE 0604933F:	0.000	73.512	129.411		129.411	214.836	275.952	353.256	396.568	Continuing	Continuing
ICBM Fuze Modernization											
• RDT&E: BA05: PE 0604932F:	0.000	2.004	5.000		5.000	40.500	203.600	349.300	440.300	Continuing	Continuing
Long Range Standoff Weapon											

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.

PE 0604222F: Nuclear Weapons Support

Air Force

UNCLASSIFIED
Page 6 of 24

Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Air Force

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

DATE: April 2013

Product Development (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		4 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:Albuquerqu NM	e, -	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 Million	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	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	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 Service	Management Services (\$ in Millions)					FY 2	2013	FY 2 Ba	2014 ise	FY 2		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			

PE 0604222F: Nuclear Weapons Support

Air Force

Exhibit R-3, RDT&E Project Cost Analysis: PB 2	2014 Air F	orce					DATE	: April 20	13	
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, BA 5: System Development & Demonstration (SDE			R-1 ITEM NOME PE 0604222F: <i>N</i>	ENCLATURE Juclear Weapons S	Support	PROJE 654236:		ring Analy	/sis	
		_								Target

	All Prior				FY 2014	FY 2014	FY 2014	Cost To	Total	Target Value of
	Years	FY 20	012	Y 2013	Base	oco	Total	Complete	Cost	Contract
Project Cost Totals	0.000	4.096	3.	313	0.000	0.000	0.000			

Remarks

PE 0604222F: Nuclear Weapons Support

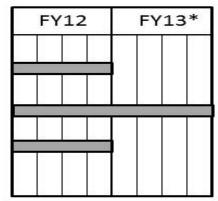
Air Force

UNCLASSIFIED Page 8 of 24

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

BPAC 654236

- W78
- AF Legacy Nuclear Stockpile
- Technical Analysis



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

PE 0604222F: Nuclear Weapons Support

Air Force

Page 9 of 24 R-1 Line #60

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

DATE: April 2013

APPROPRIATION/BUDGET ACTIVITY R-1 ITEM NOMENCLATURE PROJECT

3600: Research, Development, Test & Evaluation, Air Force PE 0604222F: Nuclear Weapons Support 654236: Engineering Analysis

BA 5: System Development & Demonstration (SDD)

Schedule Details

	St	art	Eı	nd
Events	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

PE 0604222F: *Nuclear Weapons Support* Air Force

UNCLASSIFIED
Page 10 of 24

Exhibit R-2A, RDT&E Project Justification: PB 2014 Air Force

APPROPRIATION/BUDGET ACTIVITY

3600: Research, Development, Test & Evaluation, Air Force
BA 5: System Development & Demonstration (SDD)

COST (\$ in Millions)

All Prior

DATE: April 2013

R-1 ITEM NOMENCLATURE
PE 0604222F: Nuclear Weapons Support
FY 2014

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

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.			

UNCLASSIFIED

PE 0604222F: Nuclear Weapons Support

Air Force

Page 11 of 24

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

Exhibit R-2A, RDT&E Project Justification: PB 2014 Air Force			DATE:	April 2013	
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJE			
3600: Research, Development, Test & Evaluation, Air Force BA 5: System Development & Demonstration (SDD)	PE 0604222F: Nuclear Weapons Support	654807: Technol		eapons & CF	•
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2012	FY 2013	FY 2014
FY 2012 Accomplishments: Assessed threats to air delivered strategic weapon systems to include associated platforms risks and shortfalls in order to assure system viab their Air Force current capabilities, and analyzed future technologies are directed, and integrated warhead efforts, platform integration, and open	oility. Continued evaluation of the gaps that currently end capabilities to address these gaps. This effort eva	exist in			
FY 2013 Plans: Continuation of FY12 efforts addressing threats air delivered and/or gr shortfalls, to include warheads, delivery vehicles and and their associate evaluation of the gaps that currently exist in their Air Force current capato address these gaps. This effort will evaluate, direct, and integrate was suitability.	ted launch systems, to assure system viability. Conti- abilities, and analyzed future technologies and capab				
FY 2014 Plans: *Efforts will be continued in O&M PE 0104222 beginning FY14*					
Title: Counter-Chemical and Biological (C-CB)			4.682	5.004	0.000
Description: Note: Radiological and nuclear activities from this effort to FY2014.	ransferred to project 654236, Engineering Analysis, in	1			
The Counter Chemical and Biological (C-CB) studies and evaluation ef studies and technical assessments for countering CB threats from state system level implementation to maintain the nuclear deterrent. Addition and associated system capabilities relative to vulnerabilities, weapon e survive and operate efficiently and effectively.	e and non-state entities to provide recommendations ally, the effort will address the evaluation of warhead	for			
FY 2012 Accomplishments: Continued comprehensive review of the Counter-Chemical and Biolog being pursued by the Air Force. Completed the evaluation of their effect helped develop an incremental investment strategy to achieve counterful of current capabilities to C-CB threats based on current and future three exist in our required capabilities, and an analysis of potential technolog collaborations with Headquarters Air Force, Air Combat Command, Air Reduction Agency (DTRA) and United Kingdom's Ministry of Defense in capabilities to evaluate Weapons of Mass Destruction (WMD). Conductive Control of their effective control of their effective counterful control of control of their effective counterful control of their effective counterful control of current capabilities to C-CB threats based on current and future three exists in our required capabilities, and an analysis of potential technology collaborations with Headquarters Air Force, Air Combat Command, Air Reduction Agency (DTRA) and United Kingdom's Ministry of Defense in capabilities to evaluate Weapons of Mass Destruction (WMD).	ctiveness and operational value to the warfighter and force capability goals. Continued to update assessment environments with identification of gaps that currencies and capabilities to address these gaps. Continued Force Global Strike Command, the Defense Threat in order to address identified gaps and leverage their	ents htly			

PE 0604222F: *Nuclear Weapons Support* Air Force

UNCLASSIFIED
Page 12 of 24

				UNCLAS	SII ILD						
Exhibit R-2A, RDT&E Project Ju	stification: PB 2	2014 Air Fo	rce						DATE:	April 2013	
APPROPRIATION/BUDGET ACT 3600: Research, Development, To BA 5: System Development & De	est & Evaluation,				EM NOMEN 04222F: <i>Nu</i>	ICLATURE clear Weapo	ns Support			/eapons & CP	,
B. Accomplishments/Planned F	rograms (\$ in N	lillions)							FY 2012	FY 2013	FY 2014
national level decision making in draft briefing accomplished, initial (IPL).											
FY 2013 Plans: Continue and update comprehensare being pursued. Complete the an incremental investment strates capabilities to C-CB threats base capabilities, and an analysis of te Kingdom's Ministry of Defense in of Mass Destruction (WMD). Corplanning tool and associated modplanning tables for effective weap	e evaluation of the gy to achieve cou d on current and chnologies and c order to address atinue efforts to u lels, to verify the	eir effective interforce ca future threa capabilities t identified g pgrade, dev	ness and op apability goa at environme to address th gaps and leve velop, and m	erational valuals. Continue onts, evaluationese gaps. Cerage their roanage a con	ue to the wa update of a on of gaps the ontinue colla obust capab oprehensive	rfighter and lessessments and currently aborations wellities to evaludate base s	nelp develop of current exist in our r ith the United uate Weapor ystem mission	required d ns			
FY 2014 Plans: *Efforts will be continued in O&M	PE 0104222 beg	jinning FY1	4*								
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 b	eginning F	Y14*								
				Accon	nplishment	s/Planned P	rograms Su	ıbtotals	6.332	6.717	0.000
C. Other Program Funding Sum	mary (\$ in Millio	ons)									
Line Item • None: N/A	FY 2012 0.000	FY 2013 0.000	FY 2014 Base 0.000	FY 2014 OCO	FY 2014 Total 0.000	FY 2015 0.000	FY 2016 0.000	FY 201		Cost To Complete 0 0.000	Total Cost

PE 0604222F: Nuclear Weapons Support

Air Force

UNCLASSIFIED

Page 13 of 24 R-1 Line #60

Exhibit R-2A, RDT&E Project Justification: PB 2014 Air Force DATE: April 2013

APPROPRIATION/BUDGET ACTIVITY **R-1 ITEM NOMENCLATURE PROJECT**

654807: Nuclear Weapons & CP 3600: Research, Development, Test & Evaluation, Air Force PE 0604222F: Nuclear Weapons Support

BA 5: System Development & Demonstration (SDD)

Technologies

C. Other Program Funding Summary (\$ in Millions)

Cost To FY 2014 FY 2014 FY 2014

Line Item FY 2012 FY 2013 OCO FY 2015 FY 2016 FY 2017 FY 2018 Complete Total Cost Base Total

Remarks

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.

PE 0604222F: Nuclear Weapons Support

Air Force Page 14 of 24

Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Air Force

R-1 ITEM NOMENCLATURE

PROJECT

APPROPRIATION/BUDGET ACTIVITY

BA 5: System Development & Demonstration (SDD)

3600: Research, Development, Test & Evaluation, Air Force

PE 0604222F: Nuclear Weapons Support

654807: Nuclear Weapons & CP

DATE: April 2013

Technologies

Product Developmen	nt (\$ in Mi	illions)		FY 2	2012	FY 2	2013	FY 2 Ba	2014 ise	FY 2	2014 CO	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	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

^{**}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	upport (\$ 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)								1					-		
Test and Evaluation	(\$ in Milli	ons)		FY 2	2012	FY 2	2013	1	2014 Ise	FY 2		FY 2014 Total			
Test and Evaluation Cost Category Item	(\$ in Milli Contract Method & Type	Performing Activity & Location	All Prior Years	FY 2	2012 Award Date	FY 2	2013 Award Date	1				1	Cost To	Total Cost	Target Value of Contract

PE 0604222F: *Nuclear Weapons Support* Air Force

UNCLASSIFIED

Page 15 of 24 R-1 Line #60

^{*}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

Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Air Force

R-1 ITEM NOMENCLATURE

APPROPRIATION/BUDGET ACTIVITY

3600: Research, Development, Test & Evaluation, Air Force

BA 5: System Development & Demonstration (SDD)

PROJECT

PE 0604222F: Nuclear Weapons Support 654807: Nuclear Weapons & CP

Technologies

DATE: April 2013

Management Servic		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	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			
															Target

													Target
	All Prior					FY 2	2014	FY 2	2014	FY 2014	Cost To	Total	Value of
	Years	FY 2	2012	FY 2	2013	Ва	se	00	co	Total	Complete	Cost	Contract
Project Cost Totals	0.000	6.332		6.717		0.000		0.000		0.000			

Remarks

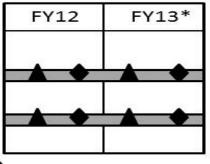
PE 0604222F: Nuclear Weapons Support Air Force

Page 16 of 24

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

BPAC 654807

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



Contract Award Study and Evaluation Report Delivered

*Efforts continue after FY13 and are documented in PE 14222

PE 0604222F: Nuclear Weapons Support

Air Force

Page 17 of 24 R-1 Line #60

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

DATE: April 2013

APPROPRIATION/BUDGET ACTIVITY R-1 ITEM NOMENCLATURE PROJECT

3600: Research, Development, Test & Evaluation, Air Force PE 0604222F: Nuclear Weapons Support 654807: Nuclear Weapons & CP

BA 5: System Development & Demonstration (SDD)

Technologies

Schedule Details

	St	art	E	nd
Events	Quarter	Year	Quarter	Year
Strategic System Capability Assessments (SSCA)	1	2012	4	2013
C-CB Engineering Analysis	1	2012	4	2013

PE 0604222F: Nuclear Weapons Support

Air Force Page 18 of 24

Exhibit R-2A, RDT&E Project Justification: PB 2014 Air Force

APPROPRIATION/BUDGET ACTIVITY

3600: Research, Development, Test & Evaluation, Air Force

R-1 ITEM NOMENCLATURE
PE 0604222F: Nuclear Weapons Support
655708: Nuclear Weapons Support

BA 5: System Development & Demonstration (SDD)

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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

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

PE 0604222F: Nuclear Weapons Support

Air Force

Page 19 of 24

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

Exhibit R-2A, RDT&E Project Justification: PB 2014 Air Force			DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJECT	
	PE 0604222F: Nuclear Weapons Support	655708: No	uclear Weapons Support
BA 5: System Development & Demonstration (SDD)			

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)

			FY 2014	FY 2014	FY 2014					Cost To	
<u>Line Item</u>	FY 2012	FY 2013	Base	000	<u>Total</u>	FY 2015	FY 2016	FY 2017	FY 2018	Complete	Total Cost
• 0: <i>N/A</i>	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.

UNCLASSIFIED

PE 0604222F: Nuclear Weapons Support

Air Force Page 20 of 24 R-1 Line #60

Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Air Force

R-1 ITEM NOMENCLATURE

PROJECT

APPROPRIATION/BUDGET ACTIVITY

BA 5: System Development & Demonstration (SDD)

3600: Research, Development, Test & Evaluation, Air Force

PE 0604222F: Nuclear Weapons Support

655708: Nuclear Weapons Support

DATE: April 2013

Product Developmen	nt (\$ in M	illions)		FY 2	2012	FY 2	2013	FY 2 Ba	2014 ise	FY 2	2014 CO	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	Total Cost	Target Value of Contract
Nuclear Surety and Certfication	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

Air Force

^{*} 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 Million	ıs)			FY 2	2012	FY 2	2013	FY 2 Ba	-	FY 2	2014 CO	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	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 Milli	ons)		FY 2	2012	FY 2	2013	FY 2 Ba	-	FY 2	2014 CO	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	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 Service	es (\$ in M	illions)		FY 2	2012	FY 2	2013	FY 2 Ba	-	FY 2	2014 CO	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	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

PE 0604222F: Nuclear Weapons Support

UNCLASSIFIED

Page 21 of 24 R-1 Line #60

Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Air Force

DATE: April 2013

APPROPRIATION/BUDGET ACTIVITY

11

R-1 ITEM NOMENCLATURE

PROJECT

3600: Research, Development, Test & Evaluation, Air Force BA 5: System Development & Demonstration (SDD)

PE 0604222F: Nuclear Weapons Support

655708: Nuclear Weapons Support

Management Servic	es (\$ in M	illions)		FY 2	2012	FY:	2013	FY 2 Ba			2014 CO	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 2	2012	FY	2013	FY 2 Ba		FY 2	2014 CO	FY 2014 Total	Cost To	Total Cost	Target Value of Contract
		Project Cost Totals	0.000	11.742		15.183		0.000		0.000		0.000			

Remarks

PE 0604222F: Nuclear Weapons Support

Air Force

3600: Research, Development, Test & Evaluation, Air Force BA 5: System Development & Demonstration (SDD) PE 0604222F: Nuclear Weapons Support 655708: Nuclear Weapons Support			ι	JNCLASSIFIED	
3600: Research, Development, Test & Evaluation, Air Force BA 5: System Development & Demonstration (SDD) PE 0604222F: Nuclear Weapons Support 655708: Nuclear Weapons Support	Exhibit R-4, RDT&E Schedule Profile:	: PB 2014 Air Ford	 ce		DATE: April 2013
		Evaluation, Air For	rce		
	-	•		1	
FY12 FY13*		FY12	FY13*		
BPAC 655708	BPAC 655708				
Nuclear Surety and Certification	 Nuclear Surety and Certification 				
		te:	*		
Civilian Pay	Civilian Pay	124 104 104 104 104			
*Efforts continue after FY13 and are documented in PE 14222	*Efforts continue after FY1	LI 13 and are do	cumented in P	PE 14222	

PE 0604222F: *Nuclear Weapons Support* Air Force

UNCLASSIFIED
Page 23 of 24

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

DATE: April 2013

APPROPRIATION/BUDGET ACTIVITY R-1 ITEM NOMENCLATURE PROJECT

3600: Research, Development, Test & Evaluation, Air Force PE 0604222F: Nuclear Weapons Support 655708: Nuclear Weapons Support

BA 5: System Development & Demonstration (SDD)

Schedule Details

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

PE 0604222F: *Nuclear Weapons Support* Air Force

UNCLASSIFIED
Page 24 of 24