

Exhibit R-2, RDT&E Budget Item Justification	DATE February 2007
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BUDGET ACTIVITY 05 System Development and Demonstration (SDD)	PE NUMBER AND TITLE 0604222F Nuclear Weapons Support
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Cost (\$ in Millions)	FY 2006 Actual	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	Cost to Complete	Total
Total Program Element (PE) Cost	13.952	14.839	20.319	20.295	20.464	20.485	20.900	21.337	Continuing	TBD
4236 Engineering Analysis	4.094	4.511	6.707	6.567	6.545	6.451	6.581	6.719	Continuing	TBD
4807 Nuclear Weapons & CP Technologies	5.092	5.393	6.346	6.481	6.644	6.776	6.908	7.049	Continuing	TBD
5708 Nuclear Weapons Support	4.766	4.935	7.266	7.247	7.275	7.258	7.411	7.569	Continuing	TBD

(U) A. Mission Description and Budget Item Justification

The Air Force Nuclear Weapons & Counterproliferation Agency (AFNWCA) and the Air Force Materiel Command Nuclear Weapons Center (AFMC NWC) are tasked with maintaining and providing technical expertise on all Air Force (AF) nuclear weapons and nuclear weapon systems. AFNWCA also provides technical expertise on combating weapons of mass destruction (WMD). These organizations provide technical and programmatic guidance as well as performing independent analyses on all AF nuclear weapons; nuclear weapon systems activities including weapons development/sustainment, interoperability, compatibility, safety/security/reliability, stockpile management/retirement; combating WMD offensive capability assessments; and nuclear certification and nuclear certification management.

Specific mission tasking includes:

- Support AF, Department of Defense (DoD) and Joint DoD-Department of Energy (DOE) weapons acquisition activities for the sustainment and/or development of nuclear weapons, delivery systems, logistics/handling support systems, weapon storage facilities, maintenance/trainer/test equipment, and technical orders to include nuclear certification as required.
- Analyze and document nuclear weapons issues related to risk assessment, data collection, model development, and weapon effectiveness in support of the DoD-DOE Annual Surety Report, DOE Stockpile Stewardship Plan, the DoD-DOE Weapon Annual Assessment, and DoD-DOE nuclear stockpile planning/requirements assessment.
- Identify, evaluate, and assess current and projected combating WMD capabilities to include participating in the pre-acquisition process as appropriate for those projects being evaluated for possible development and/or supporting current elimination and offensive operations related to chemical, biological, radiological, and nuclear (CBRN) weapons and manufacturing/bulk storage storage facilities.

This program is essential to maintaining the current and future safety, security, and reliability of weapons in the AF nuclear stockpile as well as their delivery and support systems. This program also addresses current and future AF nuclear deterrence and combating WMD needs.

These efforts are Budget Activity 5, System Development and Demonstration, because they include system specific programs leading to approved life extension programs for and/or modifications to AF nuclear weapons, weapon systems, and support systems as well as developing new weapons or modifications to existing weapons and/or weapon systems to meet evolving combating WMD mission requirements.

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

	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
(U) Previous President's Budget	13.951	14.895	20.121	20.046
(U) Current PBR/President's Budget	13.952	14.839	20.319	20.295
(U) Total Adjustments	0.001	-0.056		
(U) Congressional Program Reductions				
Congressional Rescissions		-0.055		
Congressional Increases				
Reprogrammings	0.001	-0.001		
SBIR/STTR Transfer				
(U) <u>Significant Program Changes:</u>				
None.				

Exhibit R-2a, RDT&E Project Justification

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BUDGET ACTIVITY 05 System Development and Demonstration (SDD)				PE NUMBER AND TITLE 0604222F Nuclear Weapons Support				PROJECT NUMBER AND TITLE 4236 Engineering Analysis		
Cost (\$ in Millions)	FY 2006 Actual	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	Cost to Complete	Total
4236 Engineering Analysis	4.094	4.511	6.707	6.567	6.545	6.451	6.581	6.719	Continuing	TBD
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0		

(U) A. Mission Description and Budget Item Justification

Perform engineering analysis for all Air Force (AF) nuclear weapons, delivery systems, support systems, and elimination and offensive operations to combat weapons of mass destruction (WMD). Provide the engineering and technical management expertise required in critical areas of nuclear weapons safety, security, and reliability; operations; modernization; testing; certification; and counterproliferation.

Budget Activity Justification: These efforts are Budget Activity 5, System Development and Demonstration, because they include system specific programs to identify and develop life extension programs for as well as solutions to problems and/or deficiencies in AF nuclear weapons, nuclear weapon systems, and the supporting infrastructure.

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

	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
(U) Nuclear Weapons Program Support. Provide leadership to and management of the AF-led Project Officers Groups for the nuclear weapons in AF active and inactive stockpile. This includes technical analysis to support life extension programs for nuclear weapons in the AF stockpile, inactive stockpile, use control, long term storage, and retirement/dismantlement issues.	2.672	2.968	4.448	4.390
(U) Combating WMD Support. Provide pre-acquisition technical, engineering, and management support/expertise for candidate weapons to counter future threats from WMD to include conducting assessments of elimination and offensive operational concepts as well as developing new analytical methodologies needed to conduct these assessments and/or support Unified/Specified Combatant Command operations.	1.422	1.543	2.259	2.177
(U) Total Cost	4.094	4.511	6.707	6.567

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

	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013</u>	<u>Cost to</u>	<u>Total Cost</u>
	<u>Actual</u>	<u>Estimate</u>	<u>Complete</u>							
(U) Not Applicable										

(U) D. Acquisition Strategy

Multiple Cost Plus Award Fee (CPAF) and/or Time and Materials (T&M) contracts, and Military Interdepartmental Purchase Requests (MIPRs) are/will be used for technical analyses and technical support in safety, operations and counterproliferation assessments.

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Exhibit R-3, RDT&E Project Cost Analysis

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BUDGET ACTIVITY										PE NUMBER AND TITLE		PROJECT NUMBER AND TITLE			
05 System Development and Demonstration (SDD)										0604222F Nuclear Weapons Support		4236 Engineering Analysis			
<u>(U) Cost Categories</u> (Tailor to WBS, or System/Item Requirements) (\$ in Millions)	<u>Contract Method & Type</u>	<u>Performing Activity & Location</u>	<u>Total Prior to FY 2006 Cost</u>	<u>FY 2006 Cost</u>	<u>FY 2006 Award Date</u>	<u>FY 2007 Cost</u>	<u>FY 2007 Award Date</u>	<u>FY 2008 Cost</u>	<u>FY 2008 Award Date</u>	<u>FY 2009 Cost</u>	<u>FY 2009 Award Date</u>	<u>Cost to Complete</u>	<u>Total Cost</u>	<u>Target Value of Contract</u>	
<u>(U) Product Development</u>															
In-House Studies/Analysis and Engineering Activities	Government Civilian Payroll	AFNWCA (Kirtland AFB, NM)	11.454	1.284	Oct-05	1.296	Oct-06	1.210	Oct-07	1.205	Oct-08	Continuing	TBD	TBD	
Studies, Analysis, & Evaluations	CPAF/T&M	Multiple*	3.882	0.584	Feb-06	0.761	Jan-07	1.692	Jan-08	1.645	Jan-09	Continuing	TBD	TBD	
Engineering & Technical Services	CPAF	RhinoCorp (Albuquerque, NM)	3.491	1.357	Jan-06	1.756	Feb-07	2.761	Oct-07	2.638	Oct-08	Continuing	TBD	TBD	
Subtotal Product Development			18.827	3.225		3.813		5.663		5.488		Continuing	TBD	TBD	
Remarks:	* - ITT Systems (Albuquerque, NM, & Colorado Springs, CO), Applied Sciences Labs (Albuquerque, NM); SAIC (Arlington, VA)														
<u>(U) Support</u>															
Management & Professional Support Services	T&M	ANSER (Arlington, VA); SAIC (Arlington, VA)	1.755	0.475	Jan-06	0.475	Jan-07	0.584	Jan-08	0.590	Jan-09	Continuing	TBD	TBD	
Subtotal Support			1.755	0.475		0.475		0.584		0.590		Continuing	TBD	TBD	
Remarks:															
<u>(U) Test & Evaluation</u>															
Various Test Centers	MIPR	Multiple	1.910	0.250	Mar-06	0.078	Mar-07	0.245	Mar-08	0.274	Mar-09	Continuing	TBD	TBD	
Subtotal Test & Evaluation			1.910	0.250		0.078		0.245		0.274		Continuing	TBD	TBD	
Remarks:															
<u>(U) Management</u>															
In-House Programmatic/Financial Management	Government Civilian Payroll	AFNWCA (Kirtland AFB, NM)	1.286	0.144	Oct-05	0.145	Oct-06	0.215	Oct-07	0.215	Oct-08	Continuing	TBD	TBD	
Subtotal Management			1.286	0.144		0.145		0.215		0.215		Continuing	TBD	TBD	
Remarks:															
<u>(U) Total Cost</u>			23.778	4.094		4.511		6.707		6.567		Continuing	TBD	TBD	

Exhibit R-4, RDT&E Schedule Profile

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BUDGET ACTIVITY

05 System Development and Demonstration (SDD)

PE NUMBER AND TITLE

0604222F Nuclear Weapons Support

PROJECT NUMBER AND TITLE

4236 Engineering Analysis

FY07	FY08	FY09	FY10	FY11	FY12	FY13
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Lead Project Officer/Project Officers Group Management (Joint DoD/DOE)



Weapons Surveillance, Sustainment, Modernization, & Life Extension Activities

Gravity Bombs (B61/B83) Life Extension Programs

Modemization/Life Extension Programs



Nuclear Surety Enhancements



ICBM Warhead (W62/W78/W87) Life Extension Program

Modemization/Life Extension Programs



Nuclear Surety Enhancements



Land-Based Strategic Nuclear Determent



Cruise Missile Warheads (W80/W84)

Modemization/Life Extension Programs



W84 Advanced Study



W80 Advanced Study



W80 Integration Analysis



ACM Hi Fi Guidance System Analysis



Annual Nuclear Weapon Assessments (All Weapons) (Joint DoD/DOE)



Nuclear Weapons Council Directed Special Studies & Analyses (as Required)



Nuclear Weapons & Counterproliferation Technologies

Pre-Acquisition Activities



Advanced Technology Analyses/Evaluations



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Exhibit R-4a, RDT&E Schedule Detail	DATE February 2007
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BUDGET ACTIVITY 05 System Development and Demonstration (SDD)	PE NUMBER AND TITLE 0604222F Nuclear Weapons Support	PROJECT NUMBER AND TITLE 4236 Engineering Analysis
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	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
(U) Schedule Profile				
(U) Project Officers Group (POG) Management/Engineering & Technical Analysis	1-4Q	1-4Q	1-4Q	1-4Q
(U) Nuclear Weapon Life Extension Programs (LEP)	1-4Q	1-4Q	1-4Q	1-4Q
(U) Annual Weapon Assessments [B61/83, W80/84, and W62/W78/W87]	3-4Q	3-4Q	3-4Q	3-4Q
(U) Reliable Replacement Warhead (RRW) Studies and Analysis Support	2-4Q	1-4Q	1-2Q	
(U) Minuteman III Safety Enhanced Reentry Vehicle Support	1-4Q	1-4Q	1-4Q	1-4Q
(U) Mk12A/Mk21 Refurbishment Program Support	1-4Q	1-4Q	1-4Q	1-4Q
(U) Start/Complete W84 Study	2Q	3Q		
(U) W80 Advanced Feature Proof of Concept Flight		3Q		
(U) W80 Warhead Integration Analysis	1-4Q	1-4Q		
(U) ICBM Flight Test Study	3-4Q	1-4Q	1-2Q	
(U) W78/W87 Nuclear Surety Program	1-4Q	1-4Q	1-4Q	1-4Q
(U) B61 Flight Test Program	1-4Q	1-4Q	1-4Q	1-4Q
(U) B83 Special Developmental Flight Tests		1-4Q		
(U) Gravity Weapon Software/Hardware Analysis	1-4Q	1-4Q	1-4Q	1-4Q
(U) Counterproliferation Support	1-4Q	1-4Q	1-4Q	1-4Q
(U) Nuclear Roadmap	4Q	1-4Q	1-4Q	1-4Q
(U) Enhanced Surveillance	4Q	1-4Q	1-4Q	1-4Q
(U) Future Stockpile Study	4Q	1-4Q	1-4Q	1-4Q

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BUDGET ACTIVITY 05 System Development and Demonstration (SDD)				PE NUMBER AND TITLE 0604222F Nuclear Weapons Support				PROJECT NUMBER AND TITLE 4807 Nuclear Weapons & CP Technologies		
Cost (\$ in Millions)	FY 2006 Actual	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	Cost to Complete	Total
4807 Nuclear Weapons & CP Technologies	5.092	5.393	6.346	6.481	6.644	6.776	6.908	7.049	Continuing	TBD
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0		

(U) A. Mission Description and Budget Item Justification

Perform engineering analyses of offensive operations and systems for countering weapons of mass destruction (WMD) with emphasis on asymmetric threats (specifically chemical, biological, radiological, and nuclear (CBRN)) and other difficult to attack targets). Develop proposed solutions for consideration for entry into acquisition. Plan for and transition selected offensive operations concepts into either an acquisition or advanced concept technology demonstration (ACTD) program to include identifying funding, 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/collateral effects predictions for current and future operations.

Budget Activity Justification: These efforts are Budget Activity 5, System Development and Demonstration, because they are system specific programs that result in identifying, and developing or modifying weapons to meet new and evolving elimination and offensive capabilities for combating WMD. Efforts also include developing and/or validating target planning software for existing/new concepts and weapons for combating WMD.

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

	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
(U) Develop pre-acquisition strategies/studies of conventional and other advanced alternative technologies and capabilities for eliminating or conducting offensive operations to combat WMD with emphasis on technologies & capabilities for attacking chemical, biological, radiological, and nuclear (CBRN) targets and threats.	1.866	1.912	2.254	2.296
(U) Perform advanced concept research and development (R&D) studies of potential offensive capabilities for combating WMD.	2.235	2.637	3.101	3.167
(U) Research, develop and/or improve (to include verification, validation, and assessment (VV&A)) the fidelity and utility of target planning tools associated with eliminating or conducting offensive operations for combating WMD.	0.847	0.714	0.839	0.860
(U) Provide Operational Support to the Joint Chiefs of Staff, Major Commands and Combatant Commanders for evaluating elimination of and offensive operations against CBRN facilities (e.g., intelligence analysis and support, weapon effectiveness, collateral damage, etc.)	0.144	0.130	0.152	0.158
(U) Total Cost	5.092	5.393	6.346	6.481

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PROJECT NUMBER AND TITLE

4807 Nuclear Weapons & CP Technologies

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

	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013</u>	<u>Cost to</u>	<u>Total Cost</u>
	<u>Actual</u>	<u>Estimate</u>	<u>Complete</u>							

(U) Not Applicable

(U) **D. Acquisition Strategy**

Cost Plus Award Fee (CPAF) and/or Time and Materials (T&M) contracts, and/or MIPRs will be used for advanced analyses and development of selected alternatives leading to, or associated with, acquisition pre-Milestone activities.

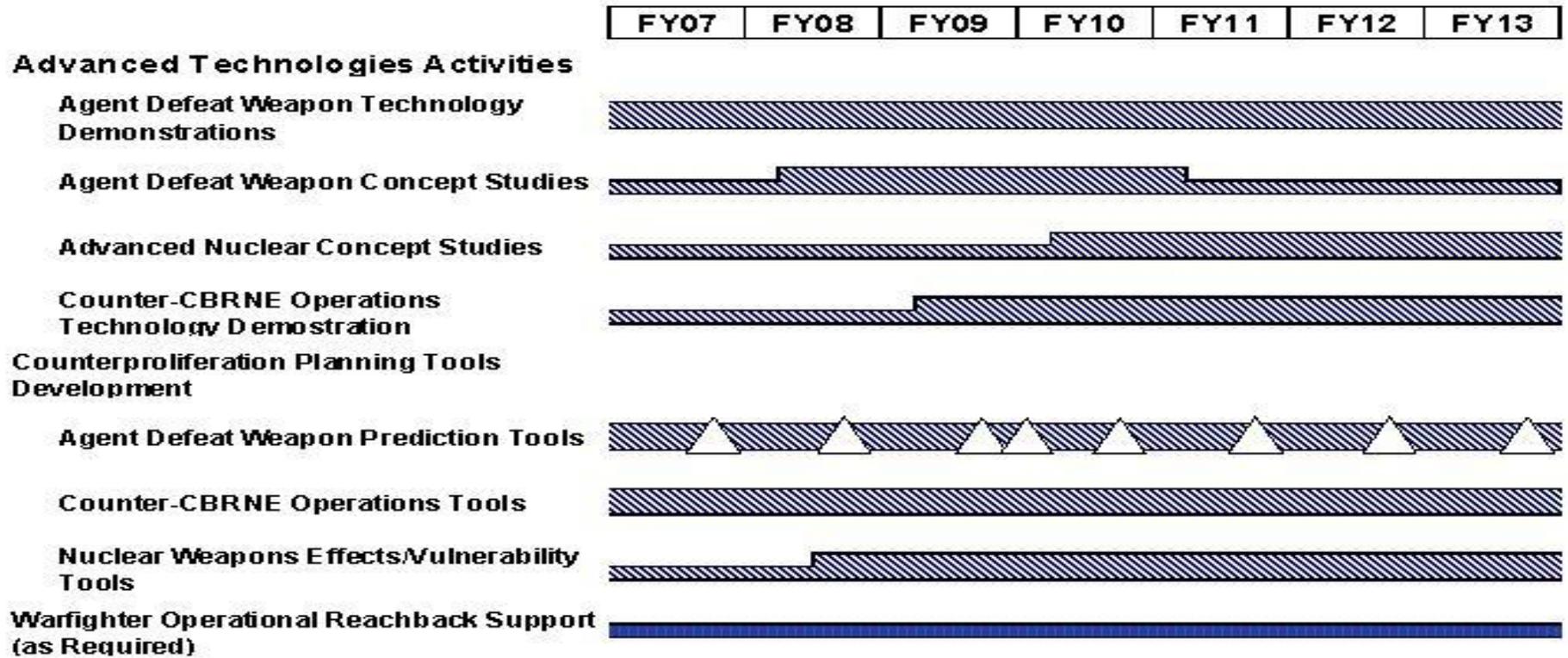
Exhibit R-4, RDT&E Schedule Profile

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BUDGET ACTIVITY
05 System Development and Demonstration (SDD)

PE NUMBER AND TITLE
0604222F Nuclear Weapons Support

PROJECT NUMBER AND TITLE
4807 Nuclear Weapons & CP Technologies



△ = Release of next version of software tool

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Exhibit R-4a, RDT&E Schedule Detail	DATE February 2007
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BUDGET ACTIVITY 05 System Development and Demonstration (SDD)	PE NUMBER AND TITLE 0604222F Nuclear Weapons Support	PROJECT NUMBER AND TITLE 4807 Nuclear Weapons & CP Technologies
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(U) <u>Schedule Profile</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
(U) Effects Modeling Tools				
(U) ---Complete Initial Validation	3Q			
(U) ---Complete Initial Releasable Version	3Q			
(U) ---Issue Updates		1-4Q	1-4Q	1-4Q
(U) Chemical Biological (CB) Agent Neutralization Calculator - Issue Updates	3Q	2-3Q	2-3Q	2-3Q
(U) Nuclear Weapons Effects/Vulnerability Prediction Tools - Continue Development	1-4Q	1-4Q	1-4Q	1-4Q
(U) Enhanced Cruise Missile (ECM)				
(U) ---Complete Phase 6.1 Study	1Q			
(U) ---Nuclear Weapons Requirements Documents Development		2-4Q	2-4Q	1-2Q
(U) ---Phase 6.2 Study			4Q	1-4Q
(U) Anti-Biological/Chemical Weapon				
(U) ---Complete Phase 1 Study	3Q			
(U) ---Phase 2 Study		1-4Q	1-4Q	
(U) Agent Defeat Weapon (ADW)				
(U) ---Develop Requirements and Acquisition Documentation		2-4Q	1Q	
(U) ---Shredder Concept Assessment	4Q	1-4Q		
(U) ---Bulk Neutralization Proof-of-Concept Demonstration	1-4Q	1-3Q		
(U) ---Develop Baseline Legacy Weapon Test Database	1-4Q	1-4Q	1-4Q	1-4Q
(U) Land Based Strategic Deterrent				
(U) ---Follow On Development Efforts	4Q	1-4Q	1-4Q	1-4Q
(U) ---ICBM Future Warhead Concepts Study			1-4Q	1-4Q
(U) Nuclear Weapons Effects/Special Nuclear Study and Analyses	1-4Q	1-4Q	1-4Q	1-4Q
(U) Counter-CBRN Prompt Global Strike Analysis of Alternatives Study	3-4Q	1-4Q		

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BUDGET ACTIVITY 05 System Development and Demonstration (SDD)					PE NUMBER AND TITLE 0604222F Nuclear Weapons Support			PROJECT NUMBER AND TITLE 5708 Nuclear Weapons Support		
Cost (\$ in Millions)	FY 2006 Actual	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	Cost to Complete	Total
5708 Nuclear Weapons Support	4.766	4.935	7.266	7.247	7.275	7.258	7.411	7.569	Continuing	TBD
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0		

(U) A. Mission Description and Budget Item Justification

The Air Force Materiel Command Nuclear Weapons Center (AFMC NWC) provides direct technical and engineering support for all Air Force (AF) nuclear weapon systems, support systems, facilities, and special procedures. Performs studies and analysis for nuclear capable aircraft and missile systems to include ground and maintenance support equipment required to meet certification, safety, security, reliability, operational, and other requirements; oversees and manages the AF nuclear certification process; interfaces with the Department of Defense (DoD), Department of Energy (DOE) to include their national laboratories, the Air Staff, operational commands, and AF nuclear weapon system related System Program Offices (SPOs) to accomplish weapon sustainment/life extension programs

Budget Activity Justification: These efforts are Budget Activity 5, System Development and Demonstration, because they are system specific programs to identify and develop life extension programs for as well as solutions to problems and/or deficiencies in AF nuclear weapons, weapon systems and the supporting infrastructure.

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

	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
(U) Nuclear Delivery System Support. Prepare nuclear surety design criteria, standards, specifications, and related requirements documents for all AF ground-launched missile systems; provide nuclear surety design guidance to program office/contractors for weapon system modifications and upgrade programs; perform independent nuclear surety analyses for nuclear safety design certification and nuclear compatibility certification of weapon system modifications; administer technical order review and validation/verification process; update/publish general nuclear weapons technical guidance; and perform nuclear certification oversight functions. Provide leadership to and management of the AF-led Project Officers Groups for the delivery systems in AF inventory, to include technical analysis and compatibility testing to support life extension programs and delivery system modifications.	3.937	4.308	6.177	6.161
(U) Nuclear Weapons/Systems Assessments. Develop and/or update joint Department of Defense (DoD)-Department of Energy (DOE) nuclear surety assessment methodologies; conduct safety assessment of warhead maintenance operation in AF facilities; conduct fault tree analyses of nuclear weapons and weapon systems; evaluate safety implications of modifications of Air Force storage and maintenance facilities; provide nuclear surety support for all support equipment, facilities and special procedures; and develop and manage nuclear facility design criteria.	0.432	0.545	0.726	0.724
(U) Nuclear Weapons Program Support. Accomplish nuclear weapon safety, reliability, mission analysis and compatibility studies; support AF nuclear weapon stockpile activities, weapon use control analyses, and environmental and intrinsic radiation studies. Perform advanced weapons and weapon systems	0.397	0.082	0.363	0.362

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BUDGET ACTIVITY 05 System Development and Demonstration (SDD)	PE NUMBER AND TITLE 0604222F Nuclear Weapons Support	PROJECT NUMBER AND TITLE 5708 Nuclear Weapons Support
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(U) <u>B. Accomplishments/Planned Program (\$ in Millions)</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
studies.				
(U) Total Cost	4.766	4.935	7.266	7.247

(U) <u>C. Other Program Funding Summary (\$ in Millions)</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013</u>	<u>Cost to</u>	<u>Total Cost</u>
	<u>Actual</u>	<u>Estimate</u>	<u>Complete</u>							

(U) Not Applicable

(U) **D. Acquisition Strategy**

RDT&E projects performed by AF organizations are direct funded. Contractor efforts are accomplished via cost plus award fee (CPAF) contracts awarded as a result of open competition.

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Exhibit R-3, RDT&E Project Cost Analysis

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BUDGET ACTIVITY										PE NUMBER AND TITLE		PROJECT NUMBER AND TITLE			
05 System Development and Demonstration (SDD)										0604222F Nuclear Weapons Support		5708 Nuclear Weapons Support			
<u>(U) Cost Categories</u> (Tailor to WBS, or System/Item Requirements) (\$ in Millions)	<u>Contract Method & Type</u>	<u>Performing Activity & Location</u>	<u>Total Prior to FY 2006 Cost</u>	<u>FY 2006 Cost</u>	<u>FY 2006 Award Date</u>	<u>FY 2007 Cost</u>	<u>FY 2007 Award Date</u>	<u>FY 2008 Cost</u>	<u>FY 2008 Award Date</u>	<u>FY 2009 Cost</u>	<u>FY 2009 Award Date</u>	<u>Cost to Complete</u>	<u>Total Cost</u>	<u>Target Value of Contract</u>	
<u>(U) Product Development</u>															
In-house Studies/Analysis & Other Government Activities	Government Civilian Payroll	AFMC NWC (Kirtland AFB, NM)	19.150	2.453	Oct-05	2.773	Oct-06	2.863	Oct-07	2.863	Oct-08	Continuing	TBD	TBD	
Studies, Analyses, & Evaluations	CPAF	Sverdrup (Albuquerque, NM)	1.239	0.420	Mar-06	0.415	Jan-07	2.403	Jan-08	1.996	Jan-09	Continuing	TBD	TBD	
Engineering & Technical Services	CPAF	Sverdrup (Albuquerque, NM)	3.204	1.107	Mar-06	0.950	Dec-06	1.179	Dec-07	1.217	Dec-08	Continuing	TBD	TBD	
Subtotal Product Development			23.593	3.980		4.138		6.445		6.076		Continuing	TBD	TBD	
Remarks:															
<u>(U) Support</u>															
Management & Professional Support Services	CPAF	MacAulay Brown (Albuquerque, NM)	1.790	0.306	Jan-06	0.320	Dec-06	0.469	Jan-08	0.819	Jan-09	Continuing	TBD	TBD	
Subtotal Support			1.790	0.306		0.320		0.469		0.819		Continuing	TBD	TBD	
Remarks:															
<u>(U) Management</u>															
In-House Programmatic/Financial Management	Government Civilian Payroll	AFMC NWC (Kirtland AFB, NM)	3.379	0.480	Oct-05	0.477	Oct-06	0.352	Oct-07	0.352	Oct-08	Continuing	TBD	TBD	
Subtotal Management			3.379	0.480		0.477		0.352		0.352		Continuing	TBD	TBD	
Remarks:															
<u>(U) TAMS</u>															
Total Cost			28.762	4.766		4.935		7.266		7.247		Continuing	TBD	TBD	
Remarks:															

Exhibit R-4, RDT&E Schedule Profile

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05 System Development and Demonstration (SDD)

PE NUMBER AND TITLE

0604222F Nuclear Weapons Support

PROJECT NUMBER AND TITLE

5708 Nuclear Weapons Support

FY07	FY08	FY09	FY10	FY11	FY12	FY13
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Nuclear Weapons System Project Officers Group Activities (Joint DoD/DOE)



Nuclear Weapons System Certification

Studies & Analyses



Testing Support



Tech Order Development & Management



Data Base Development & Management



Facility & Weapon System Design/Evaluation

Criteria Development



Implementation Guidance



Nuclear Weapons Program Acquisition Support (Joint DoD/DOE)

Pre-Acquisition Concept Studies



Weapon Sustainment Activities



Weapon Retirement Activities



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Exhibit R-4a, RDT&E Schedule Detail

DATE

February 2007

BUDGET ACTIVITY	PE NUMBER AND TITLE		PROJECT NUMBER AND TITLE	
05 System Development and Demonstration (SDD)	0604222F Nuclear Weapons Support		5708 Nuclear Weapons Support	
	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
(U) Schedule Profile				
(U) Weapon System Project Officers Group (POG) Activities	1-4Q	1-4Q	1-4Q	1-4Q
(U) Nuclear Weapons Certification				
(U) ---Nuclear Certification Management Meetings	2-4Q	2-4Q	2-4Q	2-4Q
(U) ---Independent Surety Analysis	1-4Q	1-4Q	1-4Q	1-4Q
(U) ---Compatibility Analysis	1-4Q	1-4Q	1-4Q	1-4Q
(U) ---Surveillance Tests	1-4Q	1-4Q	1-4Q	1-4Q
(U) ---Aircraft Monitor & Control (AMAC) Tests	1Q	2Q	2Q	2Q
(U) ---Land Based Strategic Nuclear Deterrence Analysis	1-4Q	1-4Q	1-4Q	1-4Q
(U) ---Intercontinental Ballistic Missile (ICBM) Security Mod Program	1-4Q	1-4Q	1-4Q	1-4Q
(U) ---ICBM Crypto Upgrade Program	1-4Q	1-4Q	1-4Q	
(U) ---Joint Strike Fighter (JSF) Integration Certification		3-4Q	1-4Q	1-4Q
(U) ---JSF Weapons Support Equipment Certification		3-4Q	1-4Q	1-4Q
(U) Data Base Development & Management	1-4Q	1-4Q	1-4Q	1-4Q
(U) Tech Order (TO) Development & Management	1-4Q	1-4Q	1-4Q	1-4Q
(U) ---JSF TO Development	1-4Q	1-4Q	1-4Q	1-4Q
(U) Studies, Analyses, & Assessments				
(U) ---Complete Strike Aircraft Operational Safety Review	1Q			
(U) ---Complete Primary Nuclear Airlift Force (PNAF) Safety Study	1Q			
(U) ---ICBM Operational Safety Review	3-4Q	1-4Q	1-3Q	
(U) ---Long Term Storage Operational Safety Review		2-4Q	1-4Q	1-2Q
(U) ---Complete Technical Nuclear Safety Analysis (TNSA)	1Q			
(U) ---Weapons Maintenance Program Safety	1-4Q	1-4Q	1-4Q	1-4Q
(U) ---Facilities Utilization/Design Studies	1-4Q	1-4Q	1-4Q	1-4Q
(U) Nuclear Weapons Program Support				
(U) ---Pre Acquisition Concept Studies (Phase 6.1/6.2/6.2A) (as requested)	1-4Q	1-4Q	1-4Q	1-4Q
(U) ---Nuclear Weapon Sustainment Activities (Phase 6/6.6)	1-4Q	1-4Q	1-4Q	1-4Q
(U) ---Nuclear Weapon Retirement Activities (Phase 7)	2-4Q	2-4Q	2-4Q	2-4Q
(U) ---System II Interface Development and Integration (in conjunction with the DOE national laboratories)		3-4Q	1-4Q	1-4Q
(U) ---Development of new System II AMAC Tester		2-4Q	1-4Q	1Q
(U) Information Technology Activities	1-4Q	1-4Q	1-4Q	1-4Q

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