PE NUMBER: 0604222F

PE TITLE: Nuclear Weapons Support

	Exhib	DATE	February	2006						
	T ACTIVITY stem Development and Demonstrat	ion (SDD)			E NUMBER AND 604222F Nuc	TITLE lear Weapon	s Support			
	Cost (\$ in Millions)	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Cost to	Total
	Cost (\$ III WIIIIolis)	Actual	Estimate	Estimate	Estimate	Estimate	Estimate	Estimate	Complete	
	Total Program Element (PE) Cost	13.344	13.951	14.895	20.121	20.046	20.186	20.230	Continuing	TBD
4236	Engineering Analysis	3.316	4.094	4.528	7.311	7.417	7.542	7.636	Continuing	TBD
4807	Nuclear Weapons & CP Technologies	5.620	4.846	5.413	5.608	5.466	5.460	5.421	Continuing	TBD
5708	Nuclear Weapons Support	4.408	5.011	4.954	7.202	7.163	7.184	7.173	Continuing	TBD

### (U) A. Mission Description and Budget Item Justification

The Air Force Nuclear Weapons & Counterproliferation Agency (AFNWCA) and the Air Force Materiel Command's Nuclear Weapons Center (AFMC/NWC) are tasked with maintaining and providing all Air Force (AF) nuclear weapons, nuclear weapon systems and counterproliferation expertise. These organizations provide technical and programmatic guidance as well as performing independent analyses on all Air Force nuclear weapons; nuclear weapon systems activities including weapons development/sustainment, interoperability, safety/security/reliability, stockpile management/retirement; counterforce and counterproliferation 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 Annual Weapon Assessment, and DoD-DOE nuclear stockpile planning/requirements assessment, .
- --- Identify, evaluate, and assess current and projected counterproliferation systems to include participating in the pre-acquisition process as appropriate for those projects being evaluated for possible development and/or supporting current operations related to chemical, biological, radiological, nuclear, and explosives (CBRNE) counterforce strikes.

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 Air Force nuclear deterrence and counterproliferation 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 counterforce and/or counterproliferation mission requirements.

R-1 Shopping List - Item No. 66-1 of 66-16

	Exhibit R-2, RDT&E Budç	DATE <b>Februa</b>	ry 2006	
	ET ACTIVITY ystem Development and Demonstration (SDD)	PE NUMBER AND TITLE 0604222F Nuclear Weapons Support	•	
(U)	B. Program Change Summary (\$ in Millions)			
		<u>FY 2005</u>	FY 2006	FY 2007
	Previous President's Budget	13.185	15.154	11.923
	Current PBR/President's Budget	13.344	13.951	14.895
	Total Adjustments	0.159	-1.203	
U)	Congressional Program Reductions		-1.000	
	Congressional Rescissions	-0.009	-0.203	
	Congressional Increases			
	Reprogrammings	0.350		
	SBIR/STTR Transfer	-0.182		
U)	Significant Program Changes:			
	FY05: Below threshold reprogramming of \$0.350M to cover shortfall	l in civilian pay account		
	FY06: Reflects congressional directed adjustments			
	FY07: Funding increased to support AF and DoD transformation obje	ectives		
	R.1	Shopping List - Item No. 66-2 of 66-16	Exhibit F	R-2 (PE 0604222F

	Exh	DATE	February	2006						
	T ACTIVITY stem Development and Demonstrat					CT NUMBER AND TITLE  Ingineering Analysis				
	Cost (\$ in Millions)	FY 2005 Actual	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	Cost to Complete	Total
4236	Engineering Analysis	3.316	4.094	4.528	7.311	7.417	7.542	7.636	Continuing	TBD
	Quantity of RDT&E Articles	0	0	C	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 counterproliferation/counterforce efforts. Provide the engineering and technical management expertise required in critical areas of nuclear weapons safety, security, and reliability; operations; modernization; testing; certification; and counterproliferation/counterforce.

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 Air Force nuclear weapons, nuclear weapon systems, and the supporting infrastructure.

ı	<b>(U</b> )	B. Accomplishments/Planned Program (\$ in Mill	ions)				F	Y 2005	FY 2006	FY 2007
	(U)	Nuclear Weapons Program Support. Provide leader		nagement of the	AF-led Project (	Officers Groups	_	2.292	2.672	2.979
ı		for the nuclear weapons in AF stockpile to include t	he technical ana	alysis to support	life extension p	rograms for				
ı		nuclear weapons in the AF stockpile, inactive stockp	pile, use control	, long term stora	ige, and retireme	ent/dismantlemer	nt			
ı		issues.								
ı	(U)	Counterproliferation Support. Provide pre-acquisiti-	port for candidat	e	1.024	1.422	1.549			
١		weapons to counter future threats such as hard and o								
ı		include conducting counterproliferation operational								
ı		needed to conduct these assessments and/or support	Unified/Specif	ied Combatant C	Command operat	ions.				
١	(U)	Total Cost						3.316	4.094	4.528
l	( <b>U</b> )	C. Other Program Funding Summary (\$ in Millio	<u>ns</u> )							
١		<u>FY 2005</u>	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Cost to	Total Cost
		A . 4 1	E .: .	E	T	E. C	E	E. (	C 1	<u>Total Cost</u>

Estimate

**Estimate** 

**Estimate** 

**Estimate** 

Complete

### (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.

**Estimate** 

**Estimate** 

Actual

Project 4236 R-1 Shopping List - Item No. 66-3 of 66-16 Exhibit R-2a (PE 0604222F

	E	xhibit R-	3, RDT&E I	Project Co	st Anal	ysis				D	ATE <b>Feb</b>	ruary 20	006
	OGET ACTIVITY  System Development and Demonst	ration (SD	D)			UMBER ANI 1222F Nu		apons Su			ECT NUMBER AND TITLE  6 Engineering Analysis		
	Cost Categories (Tailor to WBS, or System/Item Requirements) (\$ in Millions)	Contract Method & Type	Performing Activity & Location	Total Prior to FY  2005 Cost	FY 2005 Cost	FY 2005 Award Date	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	Cost to Complete	Total Cost	Target Value of Contract
(U)	Product Development In-House Studies/Analysis and Engineering Activities*	Civil Service	AFNWCA (Kirtland AFB, NM)	10.327	1.127	Oct-04	1.284	Oct-05	1.300	Oct-06	Continuing	TBD	TBD
	Studies, Analysis, & Evaluations	CPAF/T& M	Multiple**	3.700	0.182	Feb-05	0.584	Feb-06	0.761	Jan-07	Continuing	TBD	TBD
	Engineering & Technical Services	CPAF	Rhino Corp (Albuquerque, NM)	2.363	1.128	Jan-05	1.357	Jan-06	1.768	Jan-07	Continuing	TBD	TBD
	Remarks.		cludes costs previou	• 1	3				3.829		Continuing	TBD	TBD
(U)	** - ITT Systems ( Support Management & Professional Support Services	Albuquerque, l T&M	NM, & Colorado Sp ANSER	orings, CO), Appli	ied Sciences	Labs (Albuqu	uerque, NM);	SAIC (Arlin	gton, VA)				
	Management & Professional Support Sorvices	Tem	(Arlington, VA); SAIC (Arlington, VA)	1.260	0.495	Feb-05	0.475	Jan-06	0.475	Jan-07	Continuing	TBD	TBD
	Subtotal Support Remarks:		,	1.260	0.495		0.475		0.475		Continuing	TBD	TBD
	Test & Evaluation Various Test Centers Subtotal Test & Evaluation Remarks:	MIPR	Multiple	1.660 1.660	0.250 0.250	Mar-05	0.250 0.250	Mar-06	0.078 0.078	Mar-07	Continuing Continuing	TBD TBD	TBD TBD
(U)	Management In-House Programmatic/Financial Management*	Civil Service	AFNWCA (Kirtland AFB,	1.152	0.134	Oct-04	0.144	Oct-05	0.146	Oct-06	Continuing	TBD	TBD
	Subtotal Management		NM)	1.152	0.134		0.144		0.146		Continuing	TBD	TBD
(U)	Remarks: * - Total Prior to F Total Cost	Y2005 Cost in	cludes costs previou	usly reported in Pr 20.462	oject 655708 3.316	3, Nuclear We	eapons Suppo 4.094	rt, this Progra	am 4.528		Continuing	TBD	TBD
Pr	oject 4236		F	R-1 Shopping Lis	st - Item No	. 66-4 of 66-	-16				<u>E</u> xh	ibit R-3 (PE	0604222F)

Exhibit R-4, RDT&	DATE February 2006							
DDGET ACTIVITY  S System Development and Demonstration (SDD)		-	R AND TITLE Nuclear We	apons Support		CT NUMBER AND TITLE Engineering Analysis		
	FY05	FY06	FY07	FY08	FY09	FY10	FY11	
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	HHHHHHH.	шишиш	ининини	шишиши	ШШШ	шишиши		
Nuclear Surety Enhancements	200		William.		шиши	шишиши		
ICBM Warhead (W62/W78/W87) Life Extension Program								
Modemization/Life Extension Programs		iiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii	mmmmm	WWW moone				
Nuclear Surety Enhancements			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	WWW Manne				
Land-Based Strategic Nuclear Deterrent	annunua.		mmmmmm		mmmm	William .		
Cruise Missile Warheads (W80/W84)								
Modemization/Life Extension Programs	HIHIHIHI	ШШШШ	шишиш		ШШШ			
W84 Advanced Study								
W80 Advanced Study				IIIIIIII.	ШШШШ			
W80 Integration Analysis			222	WWWW	Muun			
ACM HiFi Guidance System Analysis				mmm	Mannann.	MINIMUM III		
Annual Nuclear Weapon Assessments (All Weapons) (Joint DoD/DOE)								
Nuclear Weapon's Council Directed Special Studies & Analyses (as Required)								
Nuclear Weapons & Counterproliferation Technologies								
Pre-Acquisition Activities								
Advanced Technology Analyses/Evaluations			mmmmm					
Project 4236	R-1 Shopping List -	Item No. 66-5 o	of 66-16			Exhibit	R-4 (PE 0604222F)	

Exhibit R-4a, RDT&E Schedule Detail											
,			ary 2006								
BUDGET ACTIVITY 05 System Development and Demonstration (SDD)	PE NUMBER AND TITLE 0604222F Nuclear Weapons Support	PROJECT NUMBER AND THE 4236 Engineering Ana									
(U) Schedule Profile	FY 2005	FY 2006	FY 2007								
(U) Project Officers Group (POG) Management/Engineering & Technical Analysis	1-4Q	1-4Q	1-4Q								
(U) Nuclear Weapon Life Extension Programs (LEP) [B61/B83, W80, and W87]	1-4Q	1-4Q	1-4Q								
(U) Annual Weapon Assessment [B61/83, W80/84, and W62/W78/W87]	3Q	3Q	3Q								
(U) Minuteman III Safety Enhanced Reentry Vehicle Support	1-4Q	1-4Q	1-4Q								
(U) Mk12A/Mk21 Fuze Component Replacement Program Support	3-4Q	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) Start W80 Advanced Feature Development Analysis			4Q								
(U) ICBM Flight Test Study	1-4Q										
(U) ICBM Warhead Force Structure Study	2-4Q	1-4Q	1-4Q								
(U) W78/W87 Nuclear Surety Program		1-4Q	1-4Q								
(U) B61 Flight Test Program	2-4Q	1-4Q	1-4Q								
(U) B83 Special Developmental Flight Tests	_		1-4Q								
(U) Gravity Weapon Software/Hardware Analysis		1-4Q	1-4Q								
(U) Counterproliferation Support	1-4Q	1-4Q	1-4Q								
Project 4236 R-1 Shopping List - Item No. 66-6 of 66-16 Exhibit R-4a (PE 0604222F)											

Exhibit R-2a, RDT&E Project Justification    DATE   February 2006											
						TITLE lear Weapon	s Support	PROJECT NUMBER AND TITLE  4807 Nuclear Weapons & CP  Technologies			
Cost (\$ in Millions)  FY 2005 Actual Estimate				FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	Cost to Complete	Total	
4807	Nuclear Weapons & CP Technologies	5.620	4.846	5.41	3 5.608	5.466	5.460	5.421	Continuing	TBD	
Quantity of RDT&E Articles 0 0				0	0	0	0				

#### (U) A. Mission Description and Budget Item Justification

Perform engineering analyses of counterforce systems and operations against asymmetric threats (e.g., chemical, biological, radiological, and nuclear (CBRN); and hard and deeply buried targets (HDBT)), prepare recommended solutions resulting from these analyses and related efforts for entry into acquisition. Plan for and transition counterforce selected 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 inventoried and new counterforce weapons, including 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 counterforce and counterproliferation mission requirements. Efforts also include developing and/or validating target planning software for existing/new counterforce and/or counterproliferation weapons.

( <b>U</b> )	B. Accomplishments/Planned Pro	gram (\$ in Mill	ions)		<u>FY</u>	2005	FY 2006	<u>FY 2007</u>		
(U)	Develop pre-acquisition strategies/s	studies of conve	ntional and othe	r advanced alter	natives for			1.694	1.776	1.919
	counterproliferation/counterforce to	chnologies & ca	pabilities agains	st chemical, biol	ogical, radiologi	ical, and nuclear				
	(CBRN) targets									
(U)	Perform studies of Counterprolifera	tion Advanced (	Concept Researc	h and Developn	nent (R&D) to si	upport advanced		2.712	2.127	2.645
	conventional and nuclear capabilities									
(U)	Research, develop and/or improve	(to include verif	e fidelity and		1.037	0.806	0.717			
	utility of counterproliferation/ coun									
(U)	Provide Operational Support to the		•					0.177	0.137	0.132
	evaluating counter strike operations	against CBRN	facilities (e.g., ii	ntelligence analy	sis and support,	weapon				
	effectiveness, collateral damage, et	c.)								
(U)	Total Cost							5.620	4.846	5.413
( <b>U</b> )	C. Other Program Funding Summ	nary (\$ in Millio	ons)							
		FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Cost to	Tatal Cast
		<b>Estimate</b>	<b>Complete</b>	Total Cost						
(U)	Not Applicable									
Proj	Project 4807 R-1 Shopping List - Item No. 66-7 of 66-16 Exhibit R-2a (PE									PE 0604222F)

UNCLASSIFIED										
Exhibit R-2a, RDT&E Project Just	ification		DATE February 2006							
BUDGET ACTIVITY  05 System Development and Demonstration (SDD)	PE NUMBER AND TITLE 0604222F Nuclear Weapons Support		T NUMBER AND TITLE uclear Weapons & CP							
(U) D. Acquisition Strategy Cost Plus Award Fee (CPAF) and/or Time and Materials (T&M) contracts and/or MII leading to, or associated with, acquisition pre-Milestone activities.		Techno	ologies							

Exhibit R-2a (PE 0604222F)

Project 4807

		Exhibit R-	3, RDT&E	Project Co								ruary 20	006
	DGET ACTIVITY System Development and Demons	tration (SD	D)			0604222F Nuclear Weapons Support 480					PROJECT NUMBER AND TITLE 1807 Nuclear Weapons & CP Fechnologies		
` '	Cost Categories (Tailor to WBS, or System/Item Requirements) (\$ in Millions)	Contract Method & Type	Performing Activity & Location	Total Prior to FY 2005 Cost	FY 2005 Cost	FY 2005 Award Date	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost		Cost to Complete	Total Cost	Target Value of Contract
(U)	Product Development Technology Assessments & Demonstrations Modeling and Simulation	MIPR CPAF	Multiple* Multiple**	9.960 0.881	2.132 0.968	Jan-05 Jan-05	1.480 0.943	Jan-06 Jan-06	1.309 0.950		Continuing Continuing	TBD TBD	ТВЕ
	Development/Verification Studies, Analyses, & Evaluations Subtotal Product Development	CPAT	Multiple**	12.476 23.317	1.522 4.622	Dec-04	1.828 4.251	Dec-05	2.549 4.808	Dec-06	Continuing Continuing	TBD TBD	TBD TBD TBD
(U)	Remarks: * - ASC (Wright- ** - Rhino Corp (			AFB, FL)									
(0)	Management & Professional Support Services	CPAF/T& M	Multiple***	3.769	0.998	Dec-04	0.595	Dec-05	0.605	Dec-06	Continuing	TBD	TBD
(U)	Subtotal Support Remarks: *** - ITT System Test & Evaluation	s (Albuquerque	, NM), ANSER (A	3.769 Arlington, VA)	0.998		0.595		0.605		Continuing	TBD	TBD
` /	TBD Subtotal Test & Evaluation Remarks:	TBD	TBD	0.000	0.000		0.000		0.000	)	0.000	0.000 0.000	TBD TBD
(U)	Management N/A Subtotal Management Remarks:			0.000	0.000		0.000		0.000	)	0.000	0.000 0.000	0.000
(U)	Total Cost			27.086	5.620		4.846		5.413		Continuing	TBD	TBD

Project 4807

Exhibit R-3 (PE 0604222F)

Exhibit R-4, RDT	&E Schedul	e Profile	DATE <b>Febru</b>	ary 2006			
BUDGET ACTIVITY 05 System Development and Demonstration (SDD)		PE NUMBE <b>0604222</b>	4807 N	CT NUMBER AND TITLE Nuclear Weapons & CP nologies			
	FY05	FY06	FY07	FY08 I	-Y09	FY10	FY11
Advanced Technologies Activities	0.00		20 5				<del></del>
Agent Defeat Weapon Technology Demonstrations							
Agent Defeat Weapon Concept Studies	mununun	mmmm	mmmmm				mmmmm.
Advanced Nuclear Concept Studies							
Counter-CBRNE Operations Technology Demonstration							
Counterproliferation Planning Tools Development							
Agent Defeat Weapon Prediction Tools		1	, J				
Counter-CBRNE Operations Tools							
Nuclear Weapons Effects/Vulnerability Tools							
Warfighter Operational Reachback Support (as Required)							
	= Rel	ease of ne	xt version (	of software to	ol		
Project 4807	R-1 Shopping List	: - Item No. 66-1	) of 66-16			Exhibit	R-4 (PE 0604222F)

Exhibit R-4a, RDT&E Schedul	DATE <b>Febru</b>	DATE February 2006		
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		
(U) Schedule Profile	FY 2005	FY 2006	FY 2007	
<ul> <li>(U) Effects Modeling Tools</li> <li>(U)Complete Initial Releasable Version</li> <li>(U)Begin/Complete Initial Validation</li> <li>(U) Chemical Biological (CB) Agent Neutralization Calculator</li> </ul>	3Q	2Q	4Q	
(U)Complete Latest Release Version (U)Issue Updates	3Q	3Q	4Q	
<ul> <li>(U) Nuclear Weapons Effects/Vulnerability Prediction Tools - Begin Development</li> <li>(U) Enhanced Cruise Missile (ECM)</li> <li>(U)Begin/Complete Phase 6.1 Study</li> </ul>	4Q 1Q	1Q		
(U)Begin/Complete Phase 6.1 Study (U)Nuclear Weapons ICD/JCD Requirements Documents Development (U)Begin Phase 6.2 Study (Tentative) (U) Anti-Biological/Chemical Weapon	IQ	2-4Q	2Q	
(U)Begin/Complete Phase 1 Study (U)Begin Phase 2 Study (Tentative) (U) Agent Defeat Weapon (ADW)		1-3Q	4Q	
<ul> <li>(U)Begin/Complete Requirements and Acquisition Documentation</li> <li>(U)Begin/Complete Shredder Concept Assessment</li> <li>(U)Begin/Complete Bulk Neutralization Proof-Oncept Demonstration</li> </ul>	2Q 2Q 4Q	4Q	2Q 3Q	
<ul><li>(U)Complete Delivery System Autonomous Operation Demonstration</li><li>(U)Begin Baseline Legacy Weapon Test Database</li></ul>	4Q 4Q	1Q	3Q	
<ul> <li>(U) Land Based Strategic Deterrent</li> <li>(U)Begin/Complete Analysis of Alternatives</li> <li>(U)ICBM Future Warhead Concepts Study</li> </ul>	2-4Q 3Q			
<ul> <li>(U) Future Gravity Warhead Concept Study</li> <li>(U) Nuclear Weapons Effects/Special Nuclear Study and Analyses</li> <li>(U) Counter-CBRNE Prompt Global Strike Analysis of Alternatives Study</li> </ul>		1Q 1Q 3Q		
Project 4807 R-1 Shopping List -	- Item No. 66-11 of 66-16	Exhibit I	R-4a (PE 0604222F)	

				UNCLASS	SIFIED					
	Exh	ibit R-2a, F	RDT&E Pro	ject Justifi	cation			DATE	February	2006
	ET ACTIVITY ystem Development and Demonstrati	ion (SDD)			E NUMBER AND <b>604222F Nuc</b>	TITLE lear Weapon	s Support	PROJECT NUME  5708 Nuclear	BER AND TITLE	
	Cost (\$ in Millions)	FY 2005 Actual	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	Cost to Complete	Total
5708	Nuclear Weapons Support	4.408	5.011	4.954	7.202	7.163	7.184	7.173	Continuing	TBD
	Quantity of RDT&E Articles	0	0	0	0	0	0	0		
r c c	systems, support systems, facilities, and spe- maintenance support equipment required to certification process; interfaces with the De commands, and AF nuclear weapon system Budget Activity Justification: These efforts develop life extension programs for as well	meet certificat partment of De related System s are Budget Ac	ion, safety, sec fense (DoD), I Program Offic ctivity 5, System	urity, reliability Department of I ces (SPOs) to a m Developmen	y, operational, a Energy (DOE) t accomplish wea at and Demonstr	and other require to include their pon sustainmer ration, because	rements; overs national laborat/life extension they are syste	sees and manage ratories, the Air on programs m specific progr	es the AF nucl Staff, operation	nal y and
U)	B. Accomplishments/Planned Program of Nuclear Delivery System Support. Prepare requirements documents for all AF ground program office/contractors for weapon system surety analyses for nuclear safety design of review and validation/verification process;	e nuclear surety l-launched miss tem modification ertification of v	sile systems; pr ons and upgrad veapon system	ovide nuclear s le programs; pe modifications;	surety design guerform independ administer tecl	uidance to dent nuclear hnical order	E	<u>/ 2005</u> 2.294	FY 2006 4.182	<u>FY 2007</u> 4.327
U)	nuclear certification oversight functions. Nuclear Weapons/Systems Assessments. Energy (DOE) nuclear surety assessment roperation in AF facilities; conduct fault treimplications of modifications of Air Force support equipment, facilities and special properties.	methodologies; ee analyses of n storage and ma	conduct safety uclear weapon aintenance faci	assessment of s and weapon s lities; provide	warhead main systems; evalua nuclear surety s	tenance te safety support for all		1.073	0.432	0.545
U)	Nuclear Weapons Program Support. According to the compatibility studies; support AF nuclear environmental and intrinsic radiation studies.	omplish nuclear weapon stockp	weapon safety le activities, w	, reliability, m eapon use cont	ission analysis trol analyses, ar	and nd		1.041	0.397	0.082
,	Total Cost		тапоса жопро	ns and weapon	s, stems studie	s as anotted.		4.408	5.011	4.954
		2005 FY		Y 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	Cost to Complete	Total Cost

Exhibit R-2a (PE 0604222F)

Project 5708

	UNULASSII ILD		
Exhibit R-2a, RDT&E	Project Justification		DATE <b>February 2006</b>
BUDGET ACTIVITY  05 System Development and Demonstration (SDD)	PE NUMBER AND TITLE 0604222F Nuclear Weapons Support		T NUMBER AND TITLE uclear Weapons Support
	0604222F Nuclear Weapons Support	5708 N	uclear Weapons Support
Project 5708 R	-1 Shopping List - Item No. 66-13 of 66-16		Exhibit R-2a (PE 0604222F)

	E	xhibit R-	3, RDT&E F	Project Co	st Anal	ysis				D	ATE <b>Feb</b>	ruary 20	06
BUDGET ACTIVITY 05 System Development and Demonstration (SDD)										T NUMBER AND TITLE uclear Weapons Support			
	Cost Categories (Tailor to WBS, or System/Item Requirements) (\$ in Millions)	Contract Method & Type	Performing Activity & Location	Total Prior to FY 2005 Cost	FY 2005 Cost	FY 2005 Award Date	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	Cost to Complete	Total Cost T	Carget Value of Contract
` '	Product Development In-house Studies/Analysis & Other Government Activities	Civil Service	AAC/NW (Kirtland AFB, NM)	16.972	2.178	Oct-04	2.698	Oct-05	2.783	Oct-06	Continuing	TBD	TBD
	Studies, Analyses, & Evaluations	CPAF	Sverdrup (Albuquerque, NM)	0.841	0.398	Mar-05	0.420	Mar-06	0.416		Continuing	TBD	TBD
	Engineering & Technical Services	CPAF	Sverdrup (Albuquerque, NM)	2.115	1.089	Mar-05	1.107	Mar-06	0.955	Oct-06	Continuing	TBD	TBD
(U)	Subtotal Product Development Remarks: Support		,	19.928	3.665		4.225		4.154		Continuing	TBD	TBD
	Management & Professional Support Services	CPAF	MacAulay Brown (Albuquerque, NM)	1.435	0.355	Jan-05	0.306	Jan-06	0.320	Oct-06	Continuing	TBD	TBD
	Subtotal Support Remarks: Management		TVIVI)	1.435	0.355		0.306		0.320		Continuing	TBD	TBD
	In-House Programmatic/Financial Management	Civil Service	AAC/NW (Kirtland AFB, NM)	2.991	0.388	Oct-04	0.480	Oct-05	0.480	Oct-06	Continuing	TBD	TBD
	Subtotal Management Remarks: TAMS		,	2.991	0.388		0.480		0.480		Continuing	TBD	TBD
	Total Cost Remarks:			24.354	4.408		5.011		4.954		Continuing	TBD	TBD
Pro	oject 5708		R	-1 Shopping Lis	t - Item No.	66-14 of 66	-16				<u>E</u> xh	ibit R-3 (PE 0	604222F)

Exhibit R-4, RDT&	E Schedule	Profile				DATE <b>Febr</b>	uary 2006
System Development and Demonstration (SDD)		PE NUMBER <b>0604222F</b>	AND TITLE Nuclear Wea		CT NUMBER AND TITLE Nuclear Weapons Support		
	FY05	FY06	FY07	FY08	FY09	FY10	FY11
Nuclear Weapons System Project Officers Group Activities (Joint DoD/DOE)		, i.e.		8: 36:		-87	
Nuclear Weapons System Certification							
Studies & Analyses	mmmmm	mmmmm	mmmmm				
Testing Support			ilinininininininininininininininininini				
Tech Order Development & Management	mmmmm						
Data Base Development & Management			immumm	MINIMINI			
Facility & Weapon System Design/Evaluation							
Criteria Development			ilinininininininininininininininininini	WHITE THE STATE OF	ШШШ		
Implementation Guidance			ilinininininininininininininininininini				
Nuclear Weapons Program Acquisition Support (Joint DoD/DOE)							
Pre-Acquisition Concept Studies				4			
Weapon Sustainment Activities							3
Weapon Retirement Activities							
oject 5708	R-1 Shopping List -	Item No. 66-15	of 66-16			Exhib	oit R-4 (PE 060422

Exhibit R-4a, RDT&E Schee	DATE <b>Febru</b>	DATE February 2006		
BUDGET ACTIVITY 05 System Development and Demonstration (SDD)	PE NUMBER AND TITLE 0604222F Nuclear Weapons Support	PROJECT NUMBER AND TITLE 5708 Nuclear Weapons Support		
(U) Schedule Profile	FY 2005	FY 2006	FY 2007	
(U) Weapon System Project Officers Group (POG) Activities	1-4Q	1-4Q	1-4Q	
(U) Nuclear Weapons Certification Analyses				
(U)Nuclear Certification Management Meetings	2-4Q	2-4Q	2-4Q	
(U)Independent Surety Analysis	1-4Q	1-4Q	1-4Q	
(U)Compatibility Analysis	1-4Q	1-4Q	1-4Q	
(U)Surveillance Tests	1-4Q	1-4Q	1-4Q	
(U)Aircraft Monitor & Control (AMAC) Tests	4Q	1Q	2Q	
(U)Land Based Strategic Nuclear Deterrence Analysis		1-4Q	1-4Q	
(U)Intercontinental Ballistic Missile (ICBM) Security Mod Program		1-4Q	1-4Q	
(U)ICBM Crypto Upgrade Program		1-4Q	1-4Q	
(U) Data Base Development & Management	1-4Q	1-4Q	1-4Q	
(U) Tech Order (TO) Development & Management	1-4Q	1-4Q	1-4Q	
(U)Joint Strike Fighter (JSF) TO Development	1-4Q	1-4Q	1-4Q	
(U) Studies, Analyses, & Assessments				
(U)Safety Enhanced Reentry Vehicle (SERV) Safety Study	1-2Q			
(U)Strike Aircraft Operational Safety Review		1Q		
(U)Primary Nuclear Airlift Force (PNAF) Safety Study		1Q		
(U)ICBM Operational Safety Review		3Q		
(U)Long Term Storage Operational Safety Review		_	2Q	
(U)Technical Nuclear Safety Analysis (TNSA)	4Q	1Q		
(U)Weapons Maintenance Program Safety	1-4Q	1-4Q	1-4Q	
(U)Facilities Utilization/Design Studies	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	
(U)Nuclear Weapon Sustainment Activities (Phase 6/6.6)	1-4Q	1-4Q	1-4Q	
(U)Nuclear Weapon Retirement Activities (Phase 7)	2-4Q	2-4Q	2-4Q	
(U) Information Technology Activities	1-4Q	1-4Q	1-4Q	
Project 5708 R-1 Shopping	List - Item No. 66-16 of 66-16	Exhibit I	R-4a (PE 0604222F)	