

**RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)**

DATE  
**February 2000**

BUDGET ACTIVITY		PE NUMBER AND TITLE							
<b>05 - Engineering and Manufacturing Development</b>		<b>0604222F Nuclear Weapons Support</b>							
COST (\$ in Thousands)	FY 1999 Actual	FY 2000 Estimate	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	Cost to Complete	Total Cost
Total Program Element (PE) Cost	6,915	8,397	10,133	12,745	13,063	13,686	13,829	Continuing	TBD
654236 Engineering Analysis	2,669	1,236	1,238	2,122	2,106	2,123	2,150	Continuing	TBD
654807 Agent Defeat Weapons	0	2,980	3,965	5,454	5,551	6,042	6,035	Continuing	TBD
655708 Nuclear Weapons Support	4,246	4,181	4,930	5,169	5,406	5,521	5,644	Continuing	TBD
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0

**(U) A. Mission Description**

Provides funds for maintaining core USAF nuclear weapon system expertise. Includes in-house technical capabilities, contractual efforts, supplies and equipment, travel and salaries of the USAF Nuclear Weapons Product Support Center and the USAF Nuclear Weapons and Counterproliferation Agency civilian and military nuclear weapon and counterproliferation specialists at Kirtland Air Force Base. Provides technical and programmatic guidance for continued and improved weapons capability, interoperability, safety, surety, security, development, stockpile management and retirement, and counterproliferation assessments. Customers are: DoD (Air Force, Navy, Nuclear CINCs, Joint Staff, OSD and Defense Threat Reduction Agency [DTRA]), DOE and NATO. Supports US Strategic Command and Air Combat Command Required Operational Capability 16-71 (Peacekeeper), 12-76 (Air Launched Cruise Missile), 6-76 (B61 Strategic Bomb), 6-69 (B83 Modern Strategic Bomb), and SAC System Operational Requirements Document 13-82-III (Advanced Cruise Missile). Air Force representative for development and implementation of the Joint DoD-DOE Surety Plan, DOE Stockpile Stewardship Plan, DoD/DOE Long Range Planning Assessment and the DoD/DOE Annual Certification. These plans document nuclear weapon issues which benefit from the application of risk assessment, data collection, model development and effectiveness analysis. This work is tied to the DOE nuclear weapons development process independent of the DoD acquisition system. Weapons are continuously undergoing some form of RDT&E to assure safety, reliability and operational readiness as the DoD restructures the nation's nuclear stockpile. Therefore, USAF platforms require continuing engineering development and analysis to ensure compatibility and safety of nuclear systems. Counterproliferation efforts include identifying, evaluating and assessing current and projected counterproliferation systems operating in joint environments. Funding this element is essential to maintaining current safety and reliability levels in the US nuclear stockpile as well as assessing current and future USAF counterproliferation needs.

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**BUDGET ACTIVITY**  
**05 - Engineering and Manufacturing Development**

**PE NUMBER AND TITLE**  
**0604222F Nuclear Weapons Support**

(U) **B. Budget Activity Justification**

The USAF Nuclear Weapons Product Support Center and the USAF Nuclear Weapons and Counterproliferation Agency are responsible for all USAF nuclear weapons program management, development, systems engineering, nuclear surety engineering, engineering analyses and weapons support procedure changes. These efforts place this project in RDT&E research category/budget activity 5, Engineering and Manufacturing Development.

(U) **C. Program Change Summary (\$ in Thousands)**

	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>Total Cost</u>
(U) Previous President's Budget (FY 2000 PBR)	4,963	8,489	9,175	TBD
(U) Appropriated Value	4,977	8,489		
(U) Adjustments to Appropriated Value				
a. Congressional/General Reductions	-14			
b. Small Business Innovative Research	-3			
c. Omnibus or Other Above Threshold Reprogram		-38		
d. Below Threshold Reprogram	1,994			
e. Rescissions	-39	-54		
f. Other				TBD
(U) Adjustments to Budget Years Since FY 2000 PBR			958	
(U) Current Budget Submit/FY 2001 PBR	6,915	8,397	10,133	TBD

(U) **Significant Program Changes:**

Reprogramming in FY1999 reflects increase for Phase 0 Agent Defeat Weapon program, development testing required for the DOE Common Radar for the B61 Bombs and ALT 349 for the B61 Mod 11. Change in FY2001 reflects return of Nuclear Weapons & Counterproliferation personnel from PE 91212F and civilian pay/non-pay inflation.

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RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2A Exhibit)								DATE February 2000	
BUDGET ACTIVITY <b>05 - Engineering and Manufacturing Development</b>				PE NUMBER AND TITLE <b>0604222F Nuclear Weapons Support</b>				PROJECT <b>654236</b>	
COST (\$ in Thousands)	FY 1999 Actual	FY 2000 Estimate	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	Cost to Complete	Total Cost
654236 Engineering Analysis	2,669	1,236	1,238	2,122	2,106	2,123	2,150	Continuing	TBD
<p>(U) <b><u>A. Mission Description</u></b>  Funds the engineering analysis performed on contract for all USAF nuclear weapons, delivery systems and counterproliferation (CP) counterforce efforts. Contractors provide technical expertise unavailable through organic resources in critical areas of nuclear weapons safety and security, nuclear operations and counterproliferation. Includes Agent Defeat Phase 0/I and CP related analyses and assessments.</p> <p>(U) <b><u>FY 1999 (\$ in Thousands)</u></b></p> <p>(U) \$75 Nuclear Weapons/System Assessments. Provided technical assessments and support on nuclear safety analyses and limited special studies. Provided preliminary safety assessment of weapons in storage in Weapon Storage and Security Systems when subjected to conventional explosives. Assessed blast door hinge design for Kirtland Underground Munitions Maintenance Storage Complex.</p> <p>(U) \$110 Nuclear Aircraft System Support. Edited/published technical orders and associated checklists for F-15E, F-16C/D, B-2A, B-52H, C-17, C-141 and NATO PA-200 aircraft governing loading, weapons mate/demate, strategic nuclear airlift, aircrew acceptance procedures, and aircraft nuclear certification; provided Explosive Ordnance Disposal (EOD) technical support to DoD/DOE agencies; provided computer programming support to upgrade the Nuclear Hardness Database computer system; provided safe escape data for mission profiles to strategic bomber aircrews; completed analysis, design, and installation of lightning protection modification for weapons maintenance truck ; provided technical support for design of pallet used for certification of nuclear weapons handling; developed test procedures for PA-200, F-16C/D, B-52H, and B-2A aircraft; calibrated and performed maintenance on WE-1841 surveillance Tester; provided engineering support for surveillance testing of PA-200 and F-16C/D aircraft; prepared test reports for PA-200, F-16, and F-15E Aircraft Surveillance Tests; prepared B-2A test program to be installed on the WE-1841 Surveillance Tester; supporting B61 vibration fly-around tests for B61 on F-15 and F-16 with high grade engines.</p> <p>(U) \$760 Nuclear Weapons Program Support. Provided technical expertise to support development, fielding and updates of nuclear Military Characteristics (MC) and Stockpile to Target Sequence (STS) documents; documented and supported all weapons safety analyses, program actions, and agreements; conducted special studies on stockpile related matters; providing technical analyses to support life extension options for W87 and W80 warheads, W80 6.2/6.2A Study, inactive stockpile issues, use control, long term storage, and dismantlement issues to weapon Lead Project Officers; analyzed models for control and activation of nuclear critical signals from F-16 Mid-Life Update software; provided initial Nuclear Weapon Management System and associated Knowledge Base system design; updated Electromagnetic Radiation/Interference (EMR/I) STS references for B61, B83, and W80; initiating EMR/I tests at aircraft sites.</p> <p>(U) \$1,724 Counterproliferation Assessments. Increased FY99 technical support for ADW AoA (Phase 0) efforts to include Level II detailed effectiveness</p>									
Project 654236			Page 3 of 19 Pages				Exhibit R-2A (PE 0604222F)		

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RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2A Exhibit)		DATE February 2000
BUDGET ACTIVITY	PE NUMBER AND TITLE	PROJECT
<b>05 - Engineering and Manufacturing Development</b>	<b>0604222F Nuclear Weapons Support</b>	<b>654236</b>
(U) <u>A. Mission Description Continued</u>		
(U) <u>FY 1999 (\$ in Thousands) Continued</u>		
	assessments of eight distinct warhead technology areas to include nuclear, conventional and advanced technology systems against chemical and biological targets; enhanced and provided final documentation of Empirical Lethality Model (ELM); modified Level I codes to address new technologies; began Intelligence Support Plan (ISP) efforts and SPO planning; addressing target uncertainty concerns and full weaponization along with campaign level assessments.	
(U) \$2,669	Total	
(U) <u>FY 2000 (\$ in Thousands)</u>		
(U) \$95	Nuclear Weapons/System Assessments. Provide technical assessments and support on nuclear safety analyses and limited special studies.	
(U) \$180	Nuclear Aircraft System Support. Revise and verify nuclear weapons loading, delivery, warhead mate and demate, and EOD technical orders; provide EOD technical support to DoD/DOE agencies; provide support on the nuclear hardness database, perform aircraft software analysis; provide technical expertise for continued nuclear weapons integration on US and non-US aircraft systems; provide B61 and B83 Static Ejection test support with new ejector cartridges; and provide logistics analysis as required.	
(U) \$530	Nuclear Weapons Program Support. Complete Nuclear Weapon Management System and associated Knowledge Base System design and continue incorporating data; provide technical expertise to support development, fielding and updates of nuclear weapon MC and STS documents; document and support all weapons safety analyses, program actions, and agreements; conduct special studies on stockpile related matters; provide technical analysis to support life extension options for B83, B61, W80 and ICBM warheads, inactive stockpile issues, use control, long term storage, and dismantlement issues to weapon Lead Project Officers.	
(U) \$431	Counterproliferation Assessments. Provide continued technical support for counterproliferation assessments and technical expertise in the areas of nuclear, advanced technology and conventional systems identified as possible counterforce technologies; battle damage assessment platforms; and target intelligence platforms. Support efforts in fuzing, mission planning, counterforce technologies and intelligence requirements for developing concepts of operations and operational requirements. Provide technical and programmatic support on counterproliferation matters to the Air Force Nuclear Weapons and Counterproliferation Agency (AFNWCA) and Headquarters USAF.	
(U) \$1,236	Total	
(U) <u>FY 2001 (\$ in Thousands)</u>		
(U) \$100	Nuclear Weapons/System Assessments. Provide technical assessments and support on nuclear safety analyses and limited special studies.	
(U) \$200	Nuclear Aircraft System Support. Revise and verify nuclear weapons loading, delivery, warhead mate and demate, and EOD technical orders; provide support on the nuclear hardness database, perform aircraft software analysis; provide technical expertise for continued nuclear weapons integration on US and non-US aircraft systems; provide test support to ensure compatibility of improved aircraft racks and launchers; and	

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<b>RDT&amp;E BUDGET ITEM JUSTIFICATION SHEET (R-2A Exhibit)</b>		DATE <b>February 2000</b>																																						
BUDGET ACTIVITY <b>05 - Engineering and Manufacturing Development</b>	PE NUMBER AND TITLE <b>0604222F Nuclear Weapons Support</b>	PROJECT <b>654236</b>																																						
<p>(U) <b><u>A. Mission Description Continued</u></b></p> <p>(U) <b><u>FY 2001 (\$ in Thousands) Continued</u></b></p> <p>(U) \$500                      provide logistics analysis and EOD technical support, as required.</p> <p>(U) \$500                      Nuclear Weapons Program Support. Provide technical expertise to support development, fielding and updates of nuclear weapon MC and STS documents; document and support all weapons safety analyses, program actions, and agreements; update the Nuclear Weapon Management System and Knowledge Base System; conduct special studies on stockpile related matters; provide technical analysis to support life extension options for B83, B61, W80 and ICBM warheads, inactive stockpile issues, use control, long term storage, and dismantlement issues to weapon Lead Project Officers.</p> <p>(U) \$438                      Counterproliferation Assessments. Provide continued technical support for counterproliferation assessments and technical expertise in the areas of nuclear, advanced technology and conventional systems identified as possible counterforce technologies; battle damage assessment platforms; and target intelligence platforms. Support efforts in fuzing, mission planning, counterforce technologies and intelligence requirements for developing concepts of operations and operational requirements. Provide technical and programmatic support on counterproliferation matters to AFNWCA and Headquarters USAF.</p> <p>(U) \$1,238                      Total</p> <p>(U) <b><u>B. Project Change Summary</u></b> All funding associated with ADW Phase 0/ I Program moved to Project 654807 beginning FY2000. Increase in funding for FY1999 due to reprogramming for Phase 0 Agent Defeat Weapon program and development testing required for the DOE Common Radar for B61 Bombs and ALT 349 for the B61 Mod 11 program.</p> <p>(U) <b><u>C. Other Program Funding Summary (\$ in Thousands)</u></b></p> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%;"></th> <th style="width: 10%; text-align: center;"><u>FY 1999</u></th> <th style="width: 10%; text-align: center;"><u>FY 2000</u></th> <th style="width: 10%; text-align: center;"><u>FY 2001</u></th> <th style="width: 10%; text-align: center;"><u>FY 2002</u></th> <th style="width: 10%; text-align: center;"><u>FY 2003</u></th> <th style="width: 10%; text-align: center;"><u>FY 2004</u></th> <th style="width: 10%; text-align: center;"><u>FY 2005</u></th> <th style="width: 10%; text-align: center;"><u>Cost to</u></th> <th style="width: 10%; text-align: center;"><u>Total Cost</u></th> </tr> <tr> <td></td> <td style="text-align: center;"><u>Actual</u></td> <td style="text-align: center;"><u>Estimate</u></td> <td style="text-align: center;"><u>Complete</u></td> <td></td> </tr> </thead> <tbody> <tr> <td>(U) Not Applicable</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p>(U) <b><u>D. Acquisition Strategy</u></b> Multiple small, firm fixed price contracts for contractors and MIPRs to government labs for technical analyses and technical support in safety, operations and counterproliferation assessments.</p> <p>(U) <b><u>E. Schedule Profile</u></b></p> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 60%;"></th> <th style="width: 20%; text-align: center;"><u>FY 1999</u></th> <th style="width: 20%; text-align: center;"><u>FY 2000</u></th> <th style="width: 10%; text-align: center;"><u>FY 2001</u></th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>				<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>Cost to</u>	<u>Total Cost</u>		<u>Actual</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Complete</u>		(U) Not Applicable											<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>				
	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>Cost to</u>	<u>Total Cost</u>																															
	<u>Actual</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Complete</u>																																
(U) Not Applicable																																								
	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>																																					
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<b>RDT&amp;E BUDGET ITEM JUSTIFICATION SHEET (R-2A Exhibit)</b>	DATE <b>February 2000</b>
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BUDGET ACTIVITY <b>05 - Engineering and Manufacturing Development</b>	PE NUMBER AND TITLE <b>0604222F Nuclear Weapons Support</b>	PROJECT <b>654236</b>
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	<u>FY 1999</u>				<u>FY 2000</u>				<u>FY 2001</u>			
	1	2	3	4	1	2	3	4	1	2	3	4
(U) <b><u>E. Schedule Profile Continued</u></b>												
(U) Nuc Wpm Mgmt Sys												
(U) - Initiate design, collect data				*								
(U) - Complete design						X						
(U) - Enhance design/ data management							X	X	X	X	X	X
(U) B61 Vibration Fly-around				*	*	X						
(U) ADW AoA (Phase 0) (continuing effort through 4th Qtr FY 2000)	*	*	*	*	*	X	X	X				
* - Completed Event    X - Planned Event												

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RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)							DATE February 2000			
BUDGET ACTIVITY 05 - Engineering and Manufacturing Development					PE NUMBER AND TITLE 0604222F Nuclear Weapons Support			PROJECT 654236		
(U) <b><u>A. Project Cost Breakdown (\$ in Thousands)</u></b>										
						<u>FY 1999</u>		<u>FY 2000</u>		<u>FY 2001</u>
(U)	Contractor Engineering Support					2,669		1,236		1,238
(U)	Total					2,669		1,236		1,238
(U) <b><u>B. Budget Acquisition History and Planning Information (\$ in Thousands)</u></b>										
(U) <b><u>Performing Organizations:</u></b>										
	<u>Contractor or</u>	<u>Contract</u>								
	<u>Government</u>	<u>Method/Type</u>	<u>Award or</u>	<u>Performing</u>	<u>Project</u>					
	<u>Performing</u>	<u>or Funding</u>	<u>Obligation</u>	<u>Activity</u>	<u>Office</u>	<u>Total Prior</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget to</u>
	<u>Activity</u>	<u>Vehicle</u>	<u>Date</u>	<u>EAC</u>	<u>EAC</u>	<u>to FY 1999</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>Complete</u>
	<u>Product Development Organizations</u>									<u>Total</u>
	Miscellaneous	MIPR/FFP	2Q FY00	N/A	N/A		1,824	911	893	Continuing
	- DOE/Albuquerque Ops, Albuquerque, NM									
	- Orion Intl, Albuquerque, NM									
	- Naval Air Warfare Center, Indianapolis, IN									
	- Silicon Graphics, Albuquerque, NM									
	- ITT Systems, Colorado Springs, CO									
	- 46 OG OGML, Eglin AFB, FL									
	- Defense Threat Reduction Agency, Dulles, VA									

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RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)								DATE February 2000		
BUDGET ACTIVITY					PE NUMBER AND TITLE			PROJECT		
<b>05 - Engineering and Manufacturing Development</b>					<b>0604222F Nuclear Weapons Support</b>			<b>654236</b>		
<b>(U) <u>Performing Organizations Continued:</u></b>										
<u>Support and Management Organizations</u>										
Miscellaneous	MIPR/FFP	1Q FY00	N/A	N/A	345	325	345	Continuing	TBD	
- GTE Govt Serv Corp, Needham Heights, MA										
- Albuquerque Logistics, Albuquerque, NM										
- TECH REPS, Inc., Albuquerque, NM										
<u>Test and Evaluation Organizations</u>										
AFMC Test Centers	MIPR	4Q FY99	500	500	0	500	0	0	0	500
<b>(U) <u>Government Furnished Property:</u></b>										
	<u>Contract</u>									
	<u>Method/Type</u>	<u>Award or</u>								
<u>Item</u>	<u>or Funding</u>	<u>Obligation</u>	<u>Delivery</u>		<u>Total Prior</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget to</u>	<u>Total</u>
<u>Description</u>	<u>Vehicle</u>	<u>Date</u>	<u>Date</u>		<u>to FY 1999</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>Complete</u>	<u>Program</u>
<u>Product Development Property</u>										
None										
<u>Support and Management Property</u>										
None										
<u>Test and Evaluation Property</u>										
None										
					<u>Total Prior</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget to</u>	<u>Total</u>
<u>Subtotals</u>					<u>to FY 1999</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>Complete</u>	<u>Program</u>
Subtotal Product Development						1,824	911	893	TBD	TBD
Subtotal Support and Management						345	325	345	TBD	TBD
Subtotal Test and Evaluation					0	500	0	0	0	500
Total Project					0	2,669	1,236	1,238	TBD	TBD

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RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2A Exhibit)								DATE February 2000		
BUDGET ACTIVITY <b>05 - Engineering and Manufacturing Development</b>				PE NUMBER AND TITLE <b>0604222F Nuclear Weapons Support</b>				PROJECT <b>654807</b>		
COST (\$ in Thousands)		FY 1999 Actual	FY 2000 Estimate	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	Cost to Complete	Total Cost
654807	Agent Defeat Weapons	0	2,980	3,965	5,454	5,551	6,042	6,035	Continuing	TBD
<p>(U) <b><u>A. Mission Description</u></b>            Funds engineering analyses for the Agent Defeat Weapon (ADW) Phase 0, Concept Exploration, System Program Office documentation and early Phase I, Program Definition and Risk Reduction activities (beginning in FY2001).</p> <p>(U) <b><u>FY 1999 (\$ in Thousands)</u></b>            (U) \$0 No Activity- Previously funded in Project 654236.            (U) \$0 Total</p> <p>(U) <b><u>FY 2000 (\$ in Thousands)</u></b>            (U) \$2,000 Completion of AoA Phase 0 analytical efforts to include: warhead effectiveness, concept weaponization, campaign assessments, incorporating Agent Release Model (ARM), Internal Dispersion and Venting (IDV) model, Empirical Lethality Model (ELM) and the Hot Effluent Rise Model (HER) into an integrated analytical code - Simulated Environment and Response Program Execution Nesting Tool (SERPENT); and initial Validation, Verification and Accreditation (VV&amp;A) of the individual codes and models used during Phase 0 for incorporation in USAF/DoD target planning tools. Provide expanded campaign analyses to include Rules of Engagement, concept of Operations and Blue-on-Red and Red-on-Blue assessments.</p> <p>(U) \$280 DoD pre-Phase I and/or DOE Phase 1 Efforts. Provide pre-Milestone I research, development and assessments of conceptual designs, approaches, and/or parallel technologies of ADW prototypes identified during the Phase 0, Concept Exploration Phase.</p> <p>(U) \$700 Technical support for transitioning the ADW Phase 0 approved recommendations to the Phase I effort. Includes development of the Operational Requirements Documents (ORD), Test &amp; Evaluation Master Plan (TEMP), Capstone Requirements Document (CRD), C4-Intelligence Support Plan (C4ISP), and other required Milestone I documentation.</p> <p>(U) \$2,980 Total</p> <p>(U) <b><u>FY 2001 (\$ in Thousands)</u></b>            (U) \$900 DOE Phase 1 and 2 Efforts. Begin Phase I assessments of concept designs, approaches and/or parallel technologies of ADW prototypes and development of operational assessments; continue development and evaluation of model uncertainty of empirical models for agent lethality. Prepare test plans for DOE Phase 1 and 2 efforts.</p> <p>(U) \$1,165 DoD Phase I Efforts. Begin Phase I research, development and assessments of concept designs, approaches, and/or parallel technologies of ADW prototypes and development of operational assessments; develop analytical weaponeering tools to support technology employment;</p>										
Project 654807			Page 9 of 19 Pages				Exhibit R-2A (PE 0604222F)			

<b>RDT&amp;E BUDGET ITEM JUSTIFICATION SHEET (R-2A Exhibit)</b>	DATE <b>February 2000</b>
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<b>BUDGET ACTIVITY</b> <b>05 - Engineering and Manufacturing Development</b>	<b>PE NUMBER AND TITLE</b> <b>0604222F Nuclear Weapons Support</b>	<b>PROJECT</b> <b>654807</b>
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(U) **A. Mission Description Continued**

(U) **FY 2001 (\$ in Thousands) Continued**

- (U) provide support for VV&A of Phase 0 codes and models. Prepare test plans for Phase I efforts.
- (U) \$1,900 SPO Efforts. Standup of the ADW System Program Office (SPO) and activities for Milestone I decision and new program start. Includes mandatory documentation preparation and assessments to include: the Request for Proposal (RFP) - SPO, Operational Requirements Document (ORD) - HQ ACC/SPO, Test and Evaluation Master Plan (TEMP) - SPO, System Engineering Master Plan (SEMP- SPO, System Threat Assessment (STA) - 497IG, Command-Control-Computers-Communication and Intelligence (C4I) Support Plan - 497IG, SPO High Fidelity Life Cycle Cost (LCC) Estimates and Program Milestone I acquisition decision review requirements.
- (U) \$3,965 Total

(U) **B. Project Change Summary**

All funds associated with ADW Phase I program moved from Project 654236 beginning FY2000. Expanded Analysis of Alternatives effort to include weaponization and full campaign assessment required Milestone I decision move to 2001.

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

	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>Cost to</u>	<u>Total Cost</u>
	<u>Actual</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Complete</u>	
(U) Not Applicable									

(U) **D. Acquisition Strategy**

ADW Phase 0/I activities are planning several firm/fixed price contracts and MIPRs to government labs for advanced analyses and development of selected Agent Defeat concepts.

(U) **E. Schedule Profile**

	<u>FY 1999</u>				<u>FY 2000</u>				<u>FY 2001</u>			
	1	2	3	4	1	2	3	4	1	2	3	4
(U) ADW AoA, Phase 0 (see Proj 654236)	*	*	*	*	*	X	X	X				
(U) ADW SPO Documentation								X	X	X	X	X
(U) ADW Milestone I											X	
(U) ADW Phase I												X
* - Completed Event    X - Planned Event												

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<b>RDT&amp;E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)</b>	DATE <b>February 2000</b>
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BUDGET ACTIVITY <b>05 - Engineering and Manufacturing Development</b>	PE NUMBER AND TITLE <b>0604222F Nuclear Weapons Support</b>	PROJECT <b>654807</b>
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(U) **A. Project Cost Breakdown (\$ in Thousands)**

	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>
(U) Hardware Development	0	1,680	2,865
(U) Software Development	0	1,000	800
(U) Program Management Support	0	300	300
(U) Miscellaneous	0	0	0
(U) Total	0	2,980	3,965

(U) **B. Budget Acquisition History and Planning Information (\$ in Thousands)**

(U) **Performing Organizations:**

<u>Contractor or Government</u>	<u>Contract Method/Type</u>	<u>Award or Obligation</u>	<u>Performing Activity</u>	<u>Project Office</u>	<u>Total Prior to FY 1999</u>	<u>Budget FY 1999</u>	<u>Budget FY 2000</u>	<u>Budget FY 2001</u>	<u>Budget to Complete</u>	<u>Total Program</u>
<u>Product Development Organizations</u>										
Miscellaneous	MIPR/FFP	1Q FY00	N/A	N/A	0	0	2,680	3,665	Continuing	TBD
<u>Support and Management Organizations</u>										
Orion Int'l, Albuquerque, NM	FFP	1Q FY00	TBD	TBD	0	0	300	300	Continuing	TBD
<u>Test and Evaluation Organizations</u>										

(U) **Government Furnished Property:**

<u>Item Description</u>	<u>Contract Method/Type</u>	<u>Award or Obligation</u>	<u>Delivery Date</u>	<u>Total Prior to FY 1999</u>	<u>Budget FY 1999</u>	<u>Budget FY 2000</u>	<u>Budget FY 2001</u>	<u>Budget to Complete</u>	<u>Total Program</u>	
<u>Product Development Property</u>										
None										
<u>Support and Management Property</u>										
None										
<u>Test and Evaluation Property</u>										
None										

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RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)					DATE February 2000	
BUDGET ACTIVITY			PE NUMBER AND TITLE		PROJECT	
<b>05 - Engineering and Manufacturing Development</b>			<b>0604222F Nuclear Weapons Support</b>		<b>654807</b>	
	<u>Total Prior</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget to</u>	<u>Total</u>
<u>Subtotals</u>	<u>to FY 1999</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>Complete</u>	<u>Program</u>
Subtotal Product Development	0	0	2,680	3,665	TBD	TBD
Subtotal Support and Management	0	0	300	300	TBD	TBD
Subtotal Test and Evaluation						
Total Project	0	0	2,980	3,965	TBD	TBD

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RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2A Exhibit)								DATE <b>February 2000</b>	
BUDGET ACTIVITY <b>05 - Engineering and Manufacturing Development</b>				PE NUMBER AND TITLE <b>0604222F Nuclear Weapons Support</b>				PROJECT <b>655708</b>	
COST (\$ in Thousands)	FY 1999 Actual	FY 2000 Estimate	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	Cost to Complete	Total Cost
655708 Nuclear Weapons Support	4,246	4,181	4,930	5,169	5,406	5,521	5,644	Continuing	TBD
<p>(U) <b><u>A. Mission Description</u></b>            Funds Air Force Nuclear Weapons Product Support Center (NWPSC) and the Air Force Nuclear Weapons &amp; Counterproliferation Agency (AFNWCA) civilians at Kirtland AFB, New Mexico providing technical and engineering support for all USAF nuclear weapon systems and counterproliferation technical efforts.</p> <p>(U) <b><u>FY 1999 (\$ in Thousands)</u></b></p> <p>(U) \$1,183 Nuclear Aircraft System Support. Supported the US Strategic Command's nuclear safe escape effort; updated/expanded nuclear hardness database; conducted nuclear aircraft weapon system surveillance tests on the F-16A/B/C/D, F-15E, B-52H and PA-200 aircraft; provided technical advisors and the AFMC voting member for the USAF Nuclear Weapon System Safety Group (NWSSG) Operational Safety Reviews of the Non-US NATO F-16A/B and the B-2A weapon systems; supported design, development, standardization and procurement of stores management systems for nuclear weapons command and control; provided nuclear surety and compatibility design criteria, standards, specifications and related requirements documents for all USAF nuclear capable aircraft weapon systems; chaired/managed Nuclear Airlift Project Officer Groups (POGs) and nuclear certification of the B-52H, F-15E, F-16C, B-2A, PA-200 and NATO aircraft; performed independent engineering evaluations for nuclear safety design certification of nuclear weapon system modifications and nuclear weapon compatibility certification; provided changes and updates to nuclear weapons technical guidance of all Air Force nuclear technical orders supported through the Joint Nuclear Weapons Publication System; furnished specific guidance to MAJCOMs on Explosive Ordnance disposal and issues affected by systems hardware/software changes; chaired Technical Order conferences; furnished all nuclear-capable MAJCOMs with administrative/technical oversight of the Unsatisfactory Reporting (UR) system.</p> <p>(U) \$731 Nuclear Ground-Launched Missile (ICBM) Support. Provided nuclear surety design guidance to intercontinental ballistic missile system (ICBM) program office/contractors for weapon system modifications and upgrade programs (Minuteman III re-entry System Test Set, Minuteman III propulsion replacement program, ICBM Wing Code Processing System); performed independent nuclear surety analyses for nuclear safety design certification of weapon system modifications; provided nuclear certification support to the Air Force Safety Center and the ICBM SPO; conducted nuclear safety analysis for nuclear safety design certification of the Minuteman III Guidance Replacement Program (GRP) program; provided technical support required by NWSSG action items; conducted independent Technical Nuclear Safety Analysis of the Minuteman III Unauthorized Launch Study for Phase IV of the ICBM Operational Safety Study; and provided member to the ICBM Nuclear Surety Working Group.</p> <p>(U) \$740 Nuclear Weapons/Systems Assessments. Continued application of joint DoD/DOE nuclear surety assessment methodology to abnormal nuclear</p>									
Project 655708		Page 13 of 19 Pages				Exhibit R-2A (PE 0604222F)			

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RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2A Exhibit)		DATE
BUDGET ACTIVITY		PROJECT
<b>05 - Engineering and Manufacturing Development</b>	<b>0604222F Nuclear Weapons Support</b>	<b>February 2000</b> <b>655708</b>
(U)	<u><b>A. Mission Description Continued</b></u>	
(U)	<u>FY 1999 (\$ in Thousands) Continued</u>	
	environment analyses; conducted fault tree analyses of nuclear weapons and weapon systems; continued technical/engineering support for Kirtland Underground Munitions Storage Center; continued support for weapon and weapon system POGs; performed nuclear surety assessment and/or studies of weapon and weapon systems in both normal and abnormal environments; completed the analysis, design, and installation for weapons maintenance truck lightning protection modification; developed methodologies to enhance assessments and studies; and provided logistics analysis and EOD technical support	
(U)	\$1,238	Nuclear Weapons Program Support. Accomplished nuclear weapon safety, reliability, mission analysis and compatibility studies; completed annual certification statements for all weapons in support of President's directive; directed B61 Vibration Fly Around (VFA) tests for Common Radar, B61-11 static ejection tests, and B61-11 flight and pull down tests; completing proof testing of ALT 349, new bomb preflight subassembly; supported initial planning for transfer of W80 to Livermore Labs; supporting W80 6.2 study; initiated W78 Life Extension Program (LEP) to support DOE 6.2/6.2A activities, initiated B83 LEP; continued support to USAF, DoD and other agencies on all issues affecting the nuclear weapons stockpile.
(U)	\$354	Counterproliferation Assessments. Provided technical guidance and support for the ADW AoA Phase 0 Study leading to a Milestone I decision third quarter FY2000; provided overall program guidance and technical expertise in the evaluation of nuclear, conventional, advanced weapon technologies for CP efforts.
(U)	\$4,246	Total
(U)	<u>FY 2000 (\$ in Thousands)</u>	
(U)	\$1,220	Nuclear Aircraft System Support. Continue FY 1999 level of effort: support the US Strategic Command's nuclear safe escape effort; incorporate user-friendly commercial-off-the-shelf software to update primary computer systems used to support the Nuclear Hardened Database Center; conduct nuclear aircraft weapon system surveillance test programs; provide technical support required by NWSSG action items, Special Safety Studies and Operational Safety Reviews (OSRs); support design, development, standardization and procurement of stores management systems for nuclear weapon command and control; provide nuclear surety and compatibility design criteria, standards, specifications, and related requirements documents for all USAF nuclear capable aircraft weapon systems; chair/manage Nuclear Airlift POGs and nuclear certification of the B-52H, F-15E, F-16C, B-2A, PA-200 and NATO aircraft; perform independent engineering evaluations for nuclear safety design certification of weapon system modifications and weapon compatibility certification; provide changes and updates to general nuclear weapons technical guidance of all Air Force nuclear technical orders; furnish specific guidance to MAJCOMs on Explosive Ordnance Disposal and issues affected by systems hardware/software; chair Technical Order review and technical content conferences.
(U)	\$800	Nuclear Ground-Launched Missile (ICBM) Support. Continue FY 1999 level of effort: provide nuclear surety design criteria, standards, specifications, and related requirements documents for all USAF ICBM systems; provide nuclear surety design guidance to ICBM program
Project 655708		Exhibit R-2A (PE 0604222F)

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RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2A Exhibit)		DATE
BUDGET ACTIVITY		PROJECT
<b>05 - Engineering and Manufacturing Development</b>	<b>0604222F Nuclear Weapons Support</b>	<b>February 2000</b> <b>655708</b>
(U)	<u>A. Mission Description Continued</u>	
(U)	<u>FY 2000 (\$ in Thousands) Continued</u>	
	office/contractors for weapon system modifications and upgrade programs; perform independent nuclear surety analyses for nuclear safety design certification of weapon system modifications; provide nuclear certification and logistics support; and support NWSSG action items and Special Safety Studies as required.	
(U)	\$800	Nuclear Weapons/Systems Assessments. Continue FY 1999 level of effort: continue application of joint DoD/DOE nuclear surety assessment methodology to abnormal nuclear environment analyses; conduct fault tree analyses of nuclear weapons and weapon systems; provide other assessments as required.
(U)	\$1,010	Nuclear Weapons Program Support. Continue FY 1999 level of effort: accomplish nuclear weapon safety, reliability, mission analysis and compatibility studies; support USAF nuclear weapon stockpile activities including completion of B61 Common Radar testing and full certification of B61-11, weapon use control analyses, and environmental and intrinsic radiation studies; continue to develop, plan, analyze, schedule and execute nuclear weapon life extension programs for B61, B83, W80 and ICBM warheads; continue support to USAF, DoD, and other agencies on all issues affecting management of the nuclear weapons stockpile; support the validation and verification to the lightning protection tester for Protective Aircraft Shelter lightning characterizations in USAFE.
(U)	\$351	Counterproliferation Assessments. Continue FY 1999 level of effort: Provide technical guidance, analysis and support for the ADW Phase 0/I Study; provide overall program guidance and technical expertise in the evaluation of nuclear, conventional and advanced weapon technologies for CP programs; provide technical direction and support for current, proposed and future counterproliferation efforts of interest to the USAF.
(U)	\$4,181	Total
(U)	<u>FY 2001 (\$ in Thousands)</u>	
(U)	\$1,414	Nuclear Aircraft System Support. Continue FY 2000 level of effort: support the US Strategic Command's nuclear safe escape effort; update/expand nuclear hardness database; conduct nuclear aircraft weapon system surveillance test programs; provide technical support required by NWSSG action items, Special Safety Studies and OSRs; support design, development, standardization and procurement of stores management systems for nuclear weapon command and control; provide nuclear surety and compatibility design criteria, standards, specifications, and related requirements documents for all USAF nuclear capable aircraft weapon systems; furnish specific guidance to MAJCOMs on Explosive Ordnance Disposal and issues affecting systems hardware/software changes; perform independent engineering evaluations for nuclear safety design certification of nuclear weapon system modifications and weapon compatibility certification; provide revisions, changes and updates to nuclear weapon Technical Orders; chair Technical Order review and technical content conferences.
(U)	\$1,060	Nuclear Ground-Launched Missile (ICBM) Support. Continue FY 2000 level of effort: provide nuclear surety design criteria, standards, specifications, and related requirements documents for all USAF ICBM systems; provide nuclear surety design guidance to ICBM program office/contractors for weapon system modifications and upgrade programs; perform independent nuclear surety analyses for nuclear safety design
Project 655708		Exhibit R-2A (PE 0604222F)

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<b>RDT&amp;E BUDGET ITEM JUSTIFICATION SHEET (R-2A Exhibit)</b>		DATE <b>February 2000</b>																														
BUDGET ACTIVITY <b>05 - Engineering and Manufacturing Development</b>	PE NUMBER AND TITLE <b>0604222F Nuclear Weapons Support</b>	PROJECT <b>655708</b>																														
<p>(U) <b><u>A. Mission Description Continued</u></b></p> <p>(U) <b><u>FY 2001 (\$ in Thousands) Continued</u></b></p> <p style="padding-left: 40px;">certification of weapon system modifications; provide nuclear certification and logistics support; and support NWSSG action items and Special Safety Studies as required.</p> <p>(U) \$958 Nuclear Weapons/Systems Assessments. Continue FY 2000 level of effort: continue application of joint DoD/DOE nuclear surety assessment methodology to abnormal nuclear environment analyses; conduct fault tree analyses of nuclear weapons and weapon systems; provide other assessments as capable.</p> <p>(U) \$1,026 Nuclear Weapons Program Support. Continue FY 2000 level of effort: accomplish nuclear weapon safety, reliability, mission analysis and compatibility studies; support USAF nuclear weapon stockpile activities, weapon use control analyses, and environmental and intrinsic radiation studies; continue to develop, plan, analyze, schedule and execute nuclear weapon life extension programs for B61, B83, W80 and ICBM warheads; and continue support to USAF, DoD and other agencies in all facets of the nuclear arsenal.</p> <p>(U) \$472 Counterproliferation Assessments. Continue FY 2000 level of effort: provide technical guidance, analysis and support for the ADW Phase I effort and counterproliferation (CP) related Intelligence, Surveillance &amp; Reconnaissance (ISR) efforts; provide program guidance, analysis and expertise in the evaluation of nuclear, conventional and advanced weapon technologies and CP related ISR and Battle-Damage-Assessment (BDA) technologies.</p> <p>(U) \$4,930 Total</p> <p>(U) <b><u>B. Project Change Summary</u></b> Increase in funding beginning in FY01 due to transfer USAF Nuclear Weapons and Counterproliferation Agency civilian personnel back to PE 64222F from PE 91212F.</p> <p>(U) <b><u>C. Other Program Funding Summary (\$ in Thousands)</u></b></p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%;"></th> <th style="width: 10%;"><u>FY 1999</u></th> <th style="width: 10%;"><u>FY 2000</u></th> <th style="width: 10%;"><u>FY 2001</u></th> <th style="width: 10%;"><u>FY 2002</u></th> <th style="width: 10%;"><u>FY 2003</u></th> <th style="width: 10%;"><u>FY 2004</u></th> <th style="width: 10%;"><u>FY 2005</u></th> <th style="width: 10%;"><u>Cost to</u></th> <th style="width: 10%;"><u>Total Cost</u></th> </tr> <tr> <td></td> <td align="center"><u>Actual</u></td> <td align="center"><u>Estimate</u></td> <td align="center"><u>Estimate</u></td> <td align="center"><u>Estimate</u></td> <td align="center"><u>Estimate</u></td> <td align="center"><u>Estimate</u></td> <td align="center"><u>Estimate</u></td> <td align="center"><u>Complete</u></td> <td></td> </tr> </thead> <tbody> <tr> <td>(U) Not Applicable</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p>(U) <b><u>D. Acquisition Strategy</u></b> RDT&amp;E funds primarily provide for Air Force technical civilian personnel providing nuclear weapon and weapon system management and development and CP related nuclear, conventional, advanced weapon technology, ISR and BDA guidance, direction, analysis and development. These scientists and engineers interface with Headquarters USAF, Air Force nuclear weapon System Program Offices, operational commands and the Department of Energy, performing engineering development and analysis to ensure continued and improved weapon system safety, security, reliability and compatibility and managing/developing counterproliferation counterforce capabilities.</p>				<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>Cost to</u>	<u>Total Cost</u>		<u>Actual</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Complete</u>		(U) Not Applicable									
	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>Cost to</u>	<u>Total Cost</u>																							
	<u>Actual</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Complete</u>																								
(U) Not Applicable																																
Project 655708	Page 16 of 19 Pages	Exhibit R-2A (PE 0604222F)																														

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<b>RDT&amp;E BUDGET ITEM JUSTIFICATION SHEET (R-2A Exhibit)</b>	DATE <b>February 2000</b>
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BUDGET ACTIVITY <b>05 - Engineering and Manufacturing Development</b>	PE NUMBER AND TITLE <b>0604222F Nuclear Weapons Support</b>	PROJECT <b>655708</b>
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**(U) E. Schedule Profile**

	<u>FY 1999</u>				<u>FY 2000</u>				<u>FY 2001</u>			
	1	2	3	4	1	2	3	4	1	2	3	4
(U) B61 Vibration Fly-Around Tests				*	*	X						
(U) B61-11 Design Review and Acceptance Group						X		X				
(U) B61 Common Radar Retrofit Program Mgmt								X	X	X	X	X
(U) W80 6.2 Study Program Mgmt	*	*	*	*	*	X						
(U) Annual Certification				*							X	
(U) W87 Life Extension Program Program Mgmt	*	*	*	*	*	X	X	X	X	X	X	X

\* - Completed Event    X - Planned Event

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RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)							DATE February 2000				
BUDGET ACTIVITY 05 - Engineering and Manufacturing Development					PE NUMBER AND TITLE 0604222F Nuclear Weapons Support			PROJECT 655708			
(U) <b><u>A. Project Cost Breakdown (\$ in Thousands)</u></b>											
						<u>FY 1999</u>		<u>FY 2000</u>		<u>FY 2001</u>	
(U)	Program Management Personnel					240		245		250	
(U)	Research Personnel					3,014		2,950		3,220	
(U)	Travel					400		370		400	
(U)	Training Development					150		175		175	
(U)	Research Support Equipment Acquisition					125		200		200	
(U)	Miscellaneous					317		241		685	
(U)	Total					4,246		4,181		4,930	
(U) <b><u>B. Budget Acquisition History and Planning Information (\$ in Thousands)</u></b>											
(U) <b><u>Performing Organizations:</u></b>											
	<u>Contractor or Government</u>	<u>Contract Method/Type</u>	<u>Award or Obligation</u>	<u>Performing Activity</u>	<u>Project Office</u>	<u>Total Prior to FY 1999</u>	<u>Budget FY 1999</u>	<u>Budget FY 2000</u>	<u>Budget FY 2001</u>	<u>Budget to Complete</u>	<u>Total Program</u>
	<u>Performing Activity</u>	<u>or Funding Vehicle</u>	<u>Date</u>	<u>EAC</u>	<u>EAC</u>						
	<u>Product Development Organizations</u>										
	AAC/WN (NWPC)	N/A	N/A	N/A	N/A		2,639	2,670	3,180	Continuing	TBD
	AFNWCA	N/A	N/A	N/A	N/A		1,607	1,511	1,750	Continuing	TBD
	<u>Support and Management Organizations</u>										
	None										
	<u>Test and Evaluation Organizations</u>										
	None										
(U) <b><u>Government Furnished Property:</u></b>											
	<u>Item</u>	<u>Contract Method/Type</u>	<u>Award or Obligation</u>	<u>Delivery</u>		<u>Total Prior to FY 1999</u>	<u>Budget FY 1999</u>	<u>Budget FY 2000</u>	<u>Budget FY 2001</u>	<u>Budget to Complete</u>	<u>Total Program</u>
	<u>Description</u>	<u>or Funding Vehicle</u>	<u>Date</u>	<u>Date</u>							
	<u>Product Development Property</u>										
	None										

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RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)					DATE February 2000	
BUDGET ACTIVITY			PE NUMBER AND TITLE		PROJECT	
<b>05 - Engineering and Manufacturing Development</b>			<b>0604222F Nuclear Weapons Support</b>		<b>655708</b>	
<b>(U) <u>Government Furnished Property Continued:</u></b>						
<u>Support and Management Property</u>						
None						
<u>Test and Evaluation Property</u>						
None						
			<u>Total Prior</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget</u>
			<u>to FY 1999</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>
<u>Subtotals</u>						<u>Budget to</u>
						<u>Complete</u>
						<u>Total</u>
						<u>Program</u>
Subtotal Product Development				4,246	4,181	4,930
Subtotal Support and Management						TBD
Subtotal Test and Evaluation						
Total Project				4,246	4,181	4,930
						TBD
						TBD