

UNCLASSIFIED

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2 Exhibit)	DATE February 1999
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BUDGET ACTIVITY 4 - Demonstration and Validation	PE NUMBER AND TITLE 0603308A Army Missile Defense Systems Integration
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COST <i>(In Thousands)</i>	FY1998 Actual	FY 1999 Estimate	FY 2000 Estimate	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY2004 Estimate	FY2005 Estimate	Cost to Complete	Total Cost
Total Program Element (PE) Cost	72009	38957	12353	12580	15823	16563	22271	22724	Continuing	Continuing
D979 Tactical Simulation Interface Unit (TSIU)	0	1490	0	0	0	0	0	0	0	1490
D988 Range Upgrades	0	4967	0	0	0	0	0	0	0	4967
D989 Nautilus/THEL	47738	12417	0	0	0	0	0	0	0	60155
D990 Space and Missile Defense (SMD) Integration	3664	2958	3203	3385	3566	3886	9282	9358	Continuing	Continuing
D997 Space and Missile Defense Battlelab (SMDBL)	20607	17125	9150	9195	12257	12677	12989	13366	Continuing	Continuing

A. Mission Description and Budget Item Justification: In an 18 April 1997 Memorandum of Agreement between the US Army Training and Doctrine Command (TRADOC) and the US Army Space and Strategic Defense Command (USASSDC), USASSDC was designated the specified proponent for space and National Missile Defense (NMD) and the overall integrator for Theater Missile Defense (TMD). In response to this designation, the Missile Defense Battle Integration Center (MDBIC) and other existing USASSDC elements were reorganized and merged to form the Space and Missile Defense Battle Lab (SMDBL). The SMDBL is chartered to develop warfighting concepts, focus military science and technology research, and conduct warfighting experiments. In addition, the Force Development and Integration Center (FDIC) was established to execute the specified proponent activities of SMDC. This program element funds the integration and synchronization of the functions, activities, events, and actions associated with space and NMD Doctrine, Training, Leader Development, Organization, Materiel Development and Soldiers (DTLOMS) development and implementation as well as the systems analysis, studies, and experimentation designed to validate and integrate the pillars of TMD: active defense, passive defense, attack operations, and battle management/command, control, communications, computers, and intelligence functions which are executed by the FDIC.

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BUDGET ACTIVITY
4 - Demonstration and Validation

PE NUMBER AND TITLE
**0603308A Army Missile Defense Systems
Integration**

B. Program Change Summary	<u>FY 1998</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>
Previous President's Budget (FY 1999 PB)	73304	12240	12226	12202
Appropriated Value	75638	39240		
Adjustments to Appropriated Value				
a. Congressional General Reductions	-2334	-283		
b. SBIR / STTR	-1838			
c. Omnibus or Other Above Threshold Reductions	-607			
d. Below Threshold Reprogramming	1150			
e. Rescissions				
Adjustments to Budget Years Since FY 1999 PB			127	378
Current Budget Submit (FY 2000 / 2001 PB)	72009	38957	12353	12580

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BUDGET ACTIVITY 4 - Demonstration and Validation				PE NUMBER AND TITLE 0603308A Army Missile Defense Systems				PROJECT D979		
				Integration						
<i>COST (In Thousands)</i>	FY 1998 Actual	FY 1999 Estimate	FY 2000 Estimate	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	Cost to Complete	Total Cost
D979 Tactical Simulation Interface Unit (TSIU)	0	1490	0	0	0	0	0	0	0	1490
<p>A. <u>Mission Description and Budget Item Justification:</u> As the Army moves to digitization, Force XXI and beyond many command and control functions that were once done by grease pencil and map overlays have been replaced by automated, computer controlled workstations. Until only recently, training soldiers on their workstations with realistic simulations was not possible. The Tactical Simulation Interface Unit (TSIU) bridges the gap between the simulation environments and command and control systems by interfacing with simulations compliant with the Institute of Electrical and Electronic Engineers (IEEE) standards governing the use of Distributed Interactive Simulations. The TSIU is a computer "black box" which interfaces, processes, and routes computer generated simulations to the appropriate Command, Control, Communications, Computers, Intelligence (C4I) systems. The C4I operator then inputs orders from his workstation, causing the process to be reversed and the simulation to respond accordingly. It is the hardware to permit "human in the loop" training to take place using simulations on tactical workstations. The program was accepted as a WRAP initiative, permitting a rapid acquisition of the system to take place.</p> <p>FY 1998 Accomplishments: Project not funded in FY 1998</p> <p>FY 1999 Planned Program:</p> <ul style="list-style-type: none"> • 1451 Development and preparation of documentation, standards, qualifications, and other requirements taking the TSIU from the research laboratory to an acquisition program. Defining and documenting message protocols, linking simulations for aviation, artillery fires, Unmanned Aerial Vehicles, and air defense to tactical message formats, including: Variable Message Format; U.S. Messages Test Format; Moving Target Indicator and Position; Tactical Data Link-B (TADIL-B), Tactical Information Broadcast Services (TBIS), TRAP Data Dissemination (TDDS); Secure Comm Data Link (SCDL); and FAAD Data Link (FDL). • 39 SBIR/STTR Program <p>Total 1490</p> <p>FY 2000 Planned Program: Project not funded in FY 2000</p> <p>FY 2001 Planned Program: Project not funded in FY 2001</p> <p>B. <u>Other Program Funding Summary:</u> Not applicable</p>										
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C. <u>Acquisition Strategy</u> : Not applicable										
D. Schedule Profile	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005
All work complete in FY 99				2 nd -4 th Qtrs						
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BUDGET ACTIVITY 4 - Demonstration and Validation	PE NUMBER AND TITLE 0603308A Army Missile Defense Systems Integration	PROJECT D988
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COST (In Thousands)	FY 1998 Actual	FY 1999 Estimate	FY 2000 Estimate	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	Cost to Complete	Total Cost
D988 Range Upgrades	0	4967	0	0	0	0	0	0	0	4967

A. Mission Description and Budget Item Justification: These funds will complete range upgrades in support of Atmospheric Interceptor Technology flight tests beginning in August 1999. In late 1999, the U.S. Army Space and Missile Defense Command will participate in the second of two flights from Kodiak Island, Alaska, designed to provide an opportunity for demonstrating various elements potentially suitable for incorporation into a ballistic missile defense system. The flight is a follow-on to the successful missile defense risk reduction flight conducted from Vandenberg Air Force Base, California, on November 5, 1997, and the ballistic missile defense demonstration flight conducted from Kodiak Launch Complex, Alaska, on November 5, 1998.

FY 1998 Accomplishments: Project not funded in FY 1998

FY 1999 Planned Program:

- 4836 Funding will be used to support test infrastructure upgrades for flight tests involving Atmospheric Interceptor Technology (AIT) interceptor components at the Kodiak Launch Complex on Kodiak Island, AK.
 - 131 SBIR/STTR Programs
- Total 4967

FY 2000 Planned Program: Project not funded in FY 2000

FY 2001 Planned Program: Project not funded in FY 2001

C. Acquisition Strategy: Flight test program is continuous. Various performers will conduct planned upgrades.

D. Schedule Profile	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2004	FY 2005
Initiate long-lead and Fabrication		2 nd Qtr							
Complete Fabrication/Integration		4 th Qtr							

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BUDGET ACTIVITY 4 - Demonstration and Validation	PE NUMBER AND TITLE 0603308A Army Missile Defense Systems Integration	PROJECT D989
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COST (In Thousands)	FY1998 Actual	FY 1999 Estimate	FY 2000 Estimate	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY2004 Estimate	FY2005 Estimate	Cost to Complete	Total Cost
D989 Nautilus/THEL	47738	12417	0	0	0	0	0	0	0	60155

A. Mission Description and Justification: These funds will complete the Tactical High Energy Laser (THEL) Advanced Concept Technology Demonstration (ACTD) and field testing at the High Energy Laser Systems Test Facility (HELSTF). The THEL ACTD is a joint U.S./Israel program to design, fabricate, and test a tactical-sized THEL demonstrator to evaluate the effectiveness of high energy lasers (HELs) to defeat the threat posed by Katyusha and similar short range artillery rockets. The THEL ACTD is an integration effort that supports the active defense pillar of Theater Missile Defense.

FY 1998 Accomplishments:

- 7700 Completed the THEL demonstrator integration and testing at TRW.
 - 7848 Conducted system engineering, analysis, system integration activities, and field test support.
 - 29600 Initiated integration at HELSTF and began field testing.
 - 2590 Conducted program management.
- Total 47738

FY 1999 Planned Program:

- 12088 Complete integration and field testing at HELSTF.
 - 329 SBIR/STTR Programs.
- Total 12417

FY 2000 Planned Program: Project not funded in FY 2000

FY 2001 Planned Program: Project not funded in FY 2001

B. <u>Other Program Funding Summary</u>	<u>FY 1998</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>To Compl</u>	<u>Total Cost</u>
THEL – Israel	14100									14100
THEL – HELSTF PE 0605605A/E97	9461									9461

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C. **Acquisition Strategy:** The THEL ACTD has been assigned an urgent priority by the Secretary of Defense. A sole source letter contract was executed with TRW, Inc. to deliver the THEL demonstrator by 31 Mar 1998. The letter contract was definitized on 19 Jan 97. A change order to this contract was definitized on 1 Jul 98 to include field testing of the demonstrator at HELSTF, to be completed by 1 July 99.

D. Schedule Profile	<u>FY 1998</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 2004</u>	<u>FY 2005</u>
Initiate Long Leads & Fabrication									
Complete Fabrication/Integration	2 nd Qtr								
Complete TRW THEL ACTD Testing		2 nd Qtr							
Complete HELSTF Field Testing		4 th Qtr							

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BUDGET ACTIVITY 4 - Demonstration and Validation				PE NUMBER AND TITLE 0603308A Army Missile Defense Systems Integration					PROJECT D990	
COST (In Thousands)	FY1998 Actual	FY 1999 Estimate	FY 2000 Estimate	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY2004 Estimate	FY2005 Estimate	Cost to Complete	Total Cost
D990 Space and Missile Defense (SMD) Integration	3664	2958	3203	3385	3566	3886	9282	9358	Continuing	Continuing
<p>A. <u>Mission Description and Justification:</u> In an 18 April 1997 Memorandum of Agreement between the US Army Training and Doctrine Command (TRADOC) and the US Army Space and Strategic Defense Command (USASSDC), USASSDC [now US Army Space and Missile Defense Command (USASMDC)] was designated the specified proponent for space and National Missile Defense (NMD) and the overall integrator for Theater Missile Defense (TMD). This project funds the Force Development and Integration Center, a major support element of USASMDC, created to execute the integration and synchronization of the functions associated with space and NMD Doctrine, Training, Leader Development, Organization, Materiel Development and Soldiers (DTLOMS) development and implementation. In addition, this project funds systems analysis, studies, and experimentation designed to validate and integrate the milestones, decisions and pillars of TMD (active defense, passive defense, attack operations, and battle management/command, control, communications, computers, and intelligence functions). These inter-pillar and intra-pillar products, required to accomplish the integrated TMD mission, exceed the scope of other programs. This project funds the production of hardware and software solutions, doctrinal and procedural solutions, interfaces, and architectures for TMD. This program also supports Aviation and Artillery attack operation systems and passive missile defense materiel solutions.</p> <p>FY 1998 Accomplishments:</p> <ul style="list-style-type: none"> • 2164 Integrated and synchronized the functions associated with space and NMD DTLOMS development and implementation and planed, developed, and conducted management oversight of testing and exercise prototypical hardware and software related to integrated TMD operations, enhancements to models and simulations, systems analysis and studies regarding TMD issues. • 1500 Conducted the Short-range missile defense with Optimized Radar Distribution (SWORD) System Concept risk mitigation study. <p>Total 3664</p> <p>FY 1999 Planned Program:</p> <ul style="list-style-type: none"> • 2953 Integrate and synchronize the functions associated with space and NMD DTLOMS development and implementation; and plan, develop, and conduct management oversight of testing and exercise prototypical hardware and software related to integrated TMD operations, enhancements to models and simulations, systems analysis and studies regarding TMD issues. • 5 SBIR/STTR Programs <p>Total 2958</p>										
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FY 2000 Planned Program:

- 3203 Integrate and synchronize the functions associated with space and NMD DTLOMS development and implementation; and plan, develop, and conduct management oversight of testing and exercise prototypical hardware and software related to integrated TMD operations, enhancements to models and simulations, systems analysis and studies regarding TMD, NMD and Space issues.

Total 3203

FY 2001 Planned Program:

- 3385 Integrate and synchronize the functions associated with space and NMD DTLOMS development and implementation; and plan, develop, and conduct management oversight of testing and exercise prototypical hardware and software related to integrated TMD operations, enhancements to models and simulations, systems analysis and studies regarding TMD, NMD and Space issues.

Total 3385

B. Other Program Funding Summary: There are no other related efforts.

C. Acquisition Strategy: Program is continuous.

D. Schedule Profile	<u>FY 1998</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 2004</u>	<u>FY 2005</u>
Continue Integration/Synchronization of space and NMD DTLOM support.	1 st -4 th Qtr								

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ARMY RDT&E COST ANALYSIS (R-3)	<small>DATE</small> February 1999
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BUDGET ACTIVITY 4 - Demonstration and Validation	PE NUMBER AND TITLE 0603308A Army Missile Defense Systems Integration	PROJECT D990
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I. Product Development: Not applicable

II. Support Costs	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 1999 Cost	FY 1999 Award Date	FY 2000 Cost	FY 2000 Award Date	FY 2001 Cost	FY 2001 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a. Govt Support and Support Contracts	MIPR CPFF	Various, VA	5350	2958		3203		3385		Cont	14896	
Subtotal Support Costs:			5350	2958		3203		3385			14896	

III. Test and Evaluation: Not applicable

IV. Management Services: Not applicable

Project Total Cost:			5350	2958		3203		3385			14896	
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BUDGET ACTIVITY 4 - Demonstration and Validation	PE NUMBER AND TITLE 0603308A Army Missile Defense Systems Integration	PROJECT D997
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COST (In Thousands)	FY1998 Actual	FY 1999 Estimate	FY 2000 Estimate	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY2004 Estimate	FY2005 Estimate	Cost to Complete	Total Cost
D997 Space and Missile Defense Battlelab (SMDBL)	20607	17125	9150	9195	12257	12677	12989	13366	Continuing	Continuing

A. Mission Description and Justification: This project funds the Space and Missile Defense Battlelab (SMDBL), (formerly the Missile Defense Battle Integration Center (SMDBIC). The SMDBL is chartered to develop warfighting concepts, focus military science and technology research, and conduct warfighting experiments. It will provide users and materiel developers a synthetic battlefield context for integrating missile defense and space assets; supporting requirement activities and providing distributed, netted computing resources, models and simulations efforts for warfighter exercises, analytical and virtual prototyping activities. To accomplish this, the SMDBL will concentrate on: experiments, exercises and training; modeling and simulation (M&S); concepts and initiatives; analysis; the Synthetic Battlefield Environment (SBE); the Extended Air Defense Testbed (EADTB); and the Extended Air Defense Simulation (EADSIM).

FY 1998 Accomplishments:

- 6600 Participated in/supported Army and joint exercises/training and warfighting experiments, including: Unified Endeavor (Provided ACOM Theater Ballistic Missile "TMD" engagement resolution); 11th ADA BDE Training (Provided full Tactical Operation Center "TOC" mission rehearsal training); 32nd AAMDC (provided critical home station training, required as a result of hand-over of the TMD TOC from ARSPACE to the AAMDC); Ulchi Focus Lens (provided tactical station stimulation real time to the 32nd AAMDC at Korea); DIV AWE (supported TRADOC Training, and provided "Leave Behind" capability at FT. Hood with associated training); Desert Thunder (provided tactical station stimulation real time to the 32nd AAMDC during U.S. Forces deployment to Kuwait); Canyon Radiance; Army After Next wargaming and technology analysis; Joint Project Optic Windmill-3 (Dutch National Joint and combined TMD exercise involving all four pillars of TMD with participation from most NATO allies). Experiments included Early Warning Pager; weather communications; deployable weather Satellite workstation; established a black/white integration team to develop a "Campaign Plan" for expanding the cooperation and integration between Army Space Program Office and SMDBL; developed initial experiment plans for the Discoverer II Program.
- 3100 Completed additional development of the SBE, to include various interfaces to enhance the realism and fidelity of missile defense training, exercises, and testing. Provided enhancements to the Synthetic Battlefield Center (SBC) to support both customer and internally funded exercises, and warfighter tactical work station stimulation testing.
- 4850 Conducted "stand alone: training and further enhanced After Action Review (AAR) capabilities for Experiments, Exercises, Training and Analysis. Stood up the Hardware/Software Integration Center (HSIC) for conducting experiments and operational analysis.

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<ul style="list-style-type: none"> 5287 Performed missile defense studies and analyses, utilizing enhanced models and simulations, incorporating existing testbeds and migrating to the DoD's High-level Architecture (HLA). Provided modeling, simulation and advanced visualization capabilities for battle lab experiments, trainers, material developers and other decision makers via the infrastructure located in the Advanced Research Center (ARC), Simulation Center, and HSIC. <p>FY 1998 Accomplishments: (continued) Developed and fielded prototype simulation/training tools including: ARTIC (provides low cost connectivity between tactical networks and digital equipment); Tactical/Simulation Interface Unit (TSIU) (bridge between the DIS/CCSIL simulation and tactical system environment for interactive training) STALKER (integrates imagery, spatial features, elevation, terrain and intelligence information to provide information to tactical decision makers).</p> <ul style="list-style-type: none"> 770 Established the Modeling and Simulation Working Group and associated Integrated Product Teams for Space and Missile Defense. Developed and submitted three Warfighter Rapid Acquisition Program (WRAP) candidates with one being tentatively selected. <p>Total 20607</p> <p>FY 1999 Planned Program:</p> <ul style="list-style-type: none"> 4680 Plan develop, execute SMDBL experiments in coordination with TRADOC requirements and procedures. Experiments include ABCS Integration, Early Warning Exp., DOCCC Sys. Exp., HSIC Integr Dev/Ops. 3250 Plan, develop, execute SMDBL participation on Army/Joint Exercise and Training events, to include RS99, TMDI 98/99, III Corps WFX, JPOW. 32nd AAMDC Home Sta Training. 7100 Model and Simulation infrastructure to support experimentation, exercise and training, and analysis programs. Includes mgmt of M&S domains, V & V of multiple models and simulations; HLA conversion; visualization and geographic mapping simulations, interface with DOD "ONESAF" and "WARSIM", EADTB mods, development and maintenance of simulation and tactical interfaces, linking M&S with tactical workstations, maturation of TSIU to DIICOE stds. 1725 Operational analysis support to space and missile defense experiment programs and support to other SMDC and Army programs requiring operational analysis, including participation on TRADOC and DOD IPTs for CMD, development and review of WRAP, CEP, ACT II, STO, ATD, ACTD candidates and proposals. 370 SBIR/STTR Programs support. <p>Total 17125</p> <p>FY 2000 Planned Program:</p>		
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<ul style="list-style-type: none"> • 5566 Conduct battle lab experiments and exercises focusing on space and missile defense operational and integration issues. Implement Discoverer II Program. • 1360 Continue development of virtual prototypes of potential battlefield systems and high fidelity synthetic battlefield environments. • 857 Implement and utilize long-haul, distributed after action review capabilities; maintain M&S infrastructure required for experimentation, exercise and analysis program using tools such as ARTIC and TSIU to increase exercise realism and reduce cost. <p>FY 2000 Planned Program: (continued)</p> <ul style="list-style-type: none"> • 1367 Conduct follow-on missile defense and space operation support studies and analyses. Continue to manage the Army Space Exploitation Demonstration Program. <p>Total 9150</p> <p>FY 2001 Planned Program:</p> <ul style="list-style-type: none"> • 5611 Conduct battle lab experiments and exercises focusing on space and missile defense operational and integration issues. • 1260 Continue development of virtual prototypes of potential and existing battlefield systems and high fidelity synthetic battlefield environments. • 960 Implement and utilize long-haul, distributed after action review capabilities; maintain modeling and simulation infrastructure required for experimentation, exercise, and analysis programs using appropriate tools to increase experiment and exercise realism and to reduce cost. • 1364 Conduct follow-on missile defense and space operation support studies and analyses. Continue to manage the Army Space Exploitation Demonstration Program. <p>Total 9195</p> <p>B. <u>Other Program Funding Summary:</u> There are no other related efforts.</p> <p>C. <u>Acquisition Strategy:</u> Program is continuous.</p> <p>D. <u>Schedule Profile:</u> Program is continuous.</p>		
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I. Product Development: Not applicable

II. Support Costs	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 1999 Cost	FY 1999 Award Date	FY 2000 Cost	FY 2000 Award Date	FY 2001 Cost	FY 2001 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a. Experiments, Exercises, Enhancements, Maintenance, analysis	CPAF/CPFF	Various, AL & CO	16107	12625		4650		4695		Cont	38077	
b. Govt Support and Support Contracts	MIPR	Various, AL & CO	4500	4500		4500		4500		Cont	18000	
Subtotal Support Costs:			20607	17125		9150		9195			56077	

III. Test and Evaluation: Not applicable

IV. Management Services: Not applicable

Project Total Cost:			20607	17125		9150		9195			56077	
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