

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

June 2001

BUDGET ACTIVITY
4 - DEM/VAL

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

COST (In Thousands)	FY 2000 Actual	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	Cost to Complete	Total Cost
Total Program Element (PE) Cost	68213	96380	19491	0	0	0	0	0	0	0
978 SPACE CONTROL	0	2972	1005	0	0	0	0	0	0	0
989 NAUTILUS/THEL	24794	14862	0	0	0	0	0	0	0	0
990 SPACE AND MISSILE DEFENSE INTEGRATION	28199	58556	4568	0	0	0	0	0	0	0
997 SPACE AND MISSILE DEFENSE BATTLELAB	15220	19990	12231	0	0	0	0	0	0	0
99A ARMY AIR AND MISSILE DEFENSE	0	0	1687	0	0	0	0	0	0	0

A. Mission Description and Budget Item Justification:

PLEASE NOTE: This administration has not addressed FY2003-2007 requirements. All FY 2003-2007 budget estimates included in this book are notional only and subject to change.

This program element funds missile defense systems integration efforts for both the Army Space and Missile Defense Command (SMDC) and the Program Executive Office for Air and Missile Defense (PEO-AMD).

SMDC: HQDA General Order No. 5, 1 March 1998, designated the US Army Space and Missile Defense Command (USASMDC) the specified proponent for space and National Missile Defense (NMD), and the operational integrator for Theater Missile Defense (TMD). In response to this designation, the Missile Defense Battle Integration Center (MDBIC) and other existing USASMDC 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. The reorganization also created the Force Development and Integration Center (FDIC), a major support element of USASMDC. This program element funds the FDIC, created to execute the specified proponent role of the USASMDC. The FDIC develops space and NMD solutions to Doctrine, Training, Leader Development, Organization, Materiel, and Soldiers (DTLOMS) and executes their implementation. This program element funds the production of requirements for hardware and software solutions, the interfaces with technology development, and the development of operational and system architectures for space, NMD and TMD. In addition, this program element funds analysis and experimentation integrating the pillars of TMD (active defense, passive defense, attack operations, and battle management/command, control, communications, computers, and intelligence functions) and inputting Army TMD requirements into Joint forums. This program also supports Aviation and Artillery attack operation systems, and passive missile defense materiel solutions.

PEO-AMD: The mission of the United States Army Program Executive Office for Air and Missile Defense (PEO AMD) is to develop, acquire, and field Theater Air and Missile Defense (TAMD) systems. These systems provide the capabilities needed to defend friendly forces and assets against attack by enemy aircraft, cruise missiles, and theater ballistic missiles (TBMs).

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2 Exhibit)**June 2001**

BUDGET ACTIVITY

4 - DEM/VAL

PE NUMBER AND TITLE

0603308A - Army Missile Defense Systems Integration

The Army is developing and procuring individual TAMD weapon systems that must be integrated to form a Family of Systems (FoS). It is the PEO's responsibility to ensure the Army TAMD FoS is developed as an integrated capability. The PEO must integrate Army and Joint requirements in order to satisfy both needs. The PEO must support interoperability systems engineering, simulation, analysis, and evaluation in order to integrate the Family of Systems. Funding will allow the PEO to sufficiently address both Army and Joint interoperability requirements, ensuring an effective Army TAMD FoS.

<u>B. Program Change Summary</u>	FY 2000	FY 2001	FY 2002	FY 2003
Previous President's Budget (FY2001 PB)	61528	12573	15760	0
Appropriated Value	63553	97273	0	
Adjustments to Appropriated Value	0	0	0	
a. Congressional General Reductions	0	0	0	
b. SBIR / STTR	-1519	0	0	
c. Omnibus or Other Above Threshold Reductions	-232	0	0	
d. Below Threshold Reprogramming/Supplemental	7200	0	0	
e. Rescissions	-789	-893	0	
Adjustments to Budget Years Since FY2001 PB	0	0	3731	
Current Budget Submit (FY 2002/2003 PB)	68213	96380	19491	0

Change Summary Explanation:

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2 Exhibit)		June 2001
BUDGET ACTIVITY 4 - DEM/VAL		PE NUMBER AND TITLE 0603308A - Army Missile Defense Systems Integration
<p>FY01 increases due to various Congressional adds to the President's Budget (\$84.7M).</p> <p>FY02 increases due to re-alignments to meet critical Army priorities.</p>		

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2 Exhibit)		June 2001
BUDGET ACTIVITY 4 - DEM/VAL		PE NUMBER AND TITLE 0603308A - Army Missile Defense Systems Integration
<p>FY01 increases due to various Congressional adds to the President's Budget (\$84.7M).</p> <p>FY02 increases due to re-alignments to meet critical Army priorities.</p>		

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2 Exhibit)		June 2001
BUDGET ACTIVITY 4 - DEM/VAL		PE NUMBER AND TITLE 0603308A - Army Missile Defense Systems Integration
<p>FY01 increases due to various Congressional adds to the President's Budget (\$84.7M). FY02 increases due to re-alignments to meet critical Army priorities.</p>		

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2 Exhibit)		June 2001
BUDGET ACTIVITY 4 - DEM/VAL		PE NUMBER AND TITLE 0603308A - Army Missile Defense Systems Integration
<p>FY01 increases due to various Congressional adds to the President's Budget (\$84.7M). FY02 increases due to re-alignments to meet critical Army priorities.</p>		

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2 Exhibit)		June 2001
BUDGET ACTIVITY 4 - DEM/VAL		PE NUMBER AND TITLE 0603308A - Army Missile Defense Systems Integration
<p>FY01 increases due to various Congressional adds to the President's Budget (\$84.7M).</p> <p>FY02 increases due to re-alignments to meet critical Army priorities.</p>		

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2 Exhibit)		June 2001
BUDGET ACTIVITY 4 - DEM/VAL		PE NUMBER AND TITLE 0603308A - Army Missile Defense Systems Integration
<p>FY01 increases due to various Congressional adds to the President's Budget (\$84.7M).</p> <p>FY02 increases due to re-alignments to meet critical Army priorities.</p>		

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2 Exhibit)		June 2001
BUDGET ACTIVITY 4 - DEM/VAL		PE NUMBER AND TITLE 0603308A - Army Missile Defense Systems Integration
<p>FY01 increases due to various Congressional adds to the President's Budget (\$84.7M).</p> <p>FY02 increases due to re-alignments to meet critical Army priorities.</p>		

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2 Exhibit)		June 2001
BUDGET ACTIVITY 4 - DEM/VAL		PE NUMBER AND TITLE 0603308A - Army Missile Defense Systems Integration
<p>FY01 increases due to various Congressional adds to the President's Budget (\$84.7M).</p> <p>FY02 increases due to re-alignments to meet critical Army priorities.</p>		

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2A Exhibit)	June 2001
--	------------------

June 2001

BUDGET ACTIVITY	
4 - DEM/VAL	

PE NUMBER AND TITLE	PROJECT
0603308A - Army Missile Defense Systems Integration	978

PE NUMBER AND TITLE	PROJECT
0603308A - Army Missile Defense Systems Integration	978

PROJECT
978PROJECT
978

COST (In Thousands)		FY 2000 Actual	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	Cost to Complete	Total Cost
978	SPACE CONTROL	0	2972	1005	0	0	0	0	0	0	0

A. Mission Description and Budget Item Justification:Space control supports the Legacy to Objective transition path of the Army Transformation Campaign Plan (TCP) by providing funding that will help meet current Army Requirements Review Committee guidance, DEPSECDEF directives and Army Space Negation and Surveillance ORD requirements. Space Control has gained much importance with the increase in foreign government, consortium, and commercial space-based assets. Potential adversaries will have the capability to capitalize on these assets to identify friendly activities and operations, increase their lethality and intelligence gathering efforts, and thus reduce our survivability, agility, versatility and information superiority. Space Control is a Theater and Corps system designed to provide the following: 1) Advanced Space Surveillance, which will characterize adversary space-based assets, identify their capabilities, and provide information relating to their intentions and how they can influence our operations; 2) Aerospace Control, which will deny and disrupt adversary imaging capabilities at varying ranges and altitudes; and 3) Decision Support System to plan, coordinate, execute and assess space control operations and provide battlespace management for unique space control mission requirements. With the requirements established by the Transformation Campaign Plan, space control is critical to the Objective Force for survivability in that it denies adversary imaging for precision targeting, thus reducing lethality, and limiting intelligence gathering. Space Control also supports the Objective Force characteristics of agility and versatility by denying adversary space-based information as our forces respond to varying shifts in intensity and mission requirements. Failure to fund this effort will prevent theater commanders from achieving information superiority and total situational awareness of the total battlespace picture.

FY 2001 Planned Program

- 2972 Continue development of the Kinetic Energy Anti-Satellite kill vehicles.

Total 2972

FY 2001 Planned Program

- 2972 Continue development of the Kinetic Energy Anti-Satellite kill vehicles.

Total 2972

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2A Exhibit)		June 2001
BUDGET ACTIVITY 4 - DEM/VAL		PE NUMBER AND TITLE 0603308A - Army Missile Defense Systems Integration
		PROJECT 978
<p><u>FY 2002 Planned Program</u></p> <ul style="list-style-type: none"> 1005 Define Space Control Architectural requirements in support of the Objective Force and the Transformation Campaign Plan. Participate in the space control Analysis of Alternatives (AoA) process. <p>Total 1005</p> <p><u>B. Other Program Funding Summary:</u> Not applicable for this item.</p> <p><u>C. Acquisition Strategy:</u> Not applicable for this item.</p> <p><u>D. Schedule Profile:</u> Not applicable for this item.</p>		

ARMY RDT&E COST ANALYSIS(R-3)									June 2001			
BUDGET ACTIVITY 4 - DEM/VAL					PE NUMBER AND TITLE 0603308A - Army Missile Defense Systems Integration					PROJECT 978		
I. Product Development	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2001 Cost	FY 2001 Award Date	FY 2002 Cost	FY 2002 Award Date	FY 2003 Cost	FY 2003 Award Date	Cost To Complete	Total Cost	Target Value of Contract
			0	0		0		0		0	0	0
Subtotal:												
II. Support Cost	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2001 Cost	FY 2001 Award Date	FY 2002 Cost	FY 2002 Award Date	FY 2003 Cost	FY 2003 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a. Various			0	2972		1005		0	0	0	0	0
Subtotal:			0	2972		1005		0		0	0	0
III. Test and Evaluation	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2001 Cost	FY 2001 Award Date	FY 2002 Cost	FY 2002 Award Date	FY 2003 Cost	FY 2003 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Subtotal:			0	0		0		0		0	0	0

ARMY RDT&E COST ANALYSIS(R-3)									June 2001			
BUDGET ACTIVITY 4 - DEM/VAL					PE NUMBER AND TITLE 0603308A - Army Missile Defense Systems Integration					PROJECT 978		
IV. Management Services	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2001 Cost	FY 2001 Award Date	FY 2002 Cost	FY 2002 Award Date	FY 2003 Cost	FY 2003 Award Date	Cost To Complete	Total Cost	Target Value of Contract
			0	0		0		0		0	0	0
Subtotal:												
Project Total Cost:			0	2972		1005		0		0	0	0

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2A Exhibit)							June 2001				
BUDGET ACTIVITY 4 - DEM/VAL				PE NUMBER AND TITLE 0603308A - Army Missile Defense Systems Integration					PROJECT 990		
COST (In Thousands)		FY 2000 Actual	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	Cost to Complete	Total Cost
990	SPACE AND MISSILE DEFENSE INTEGRATION	28199	58556	4568	0	0	0	0	0	0	0
<p><u>A. Mission Description and Budget Item Justification:</u>HQDA General Order No. 5, 1 March 1998, designated the US Army Space and Missile Defense Command (USASMDC), the specified proponent for space and National Missile Defense (NMD), and the operational integrator for Theater Missile Defense (TMD). In response to this designation, the existing USASMDC elements were reorganized and merged to form the Force Development and Integration Center (FDIC). This project funds the FDIC, a major support element of USASMDC, created to execute the specified proponentcy role of USASMDC through development of space and NMD solutions to Doctrine, Training, Leader Development, Organization, Materiel, and Soldiers (DTLOMS) and their implementation. This project funds the production of hardware and software solutions, interfaces with technology development, and development of operational and system architectures for space, NMD and TMD requirements. Additionally, this project funds analysis and experimentation integrating the pillars of TMD (active defense, passive defense, attack operations, and battle management/command, control, communications, computers, and intelligence functions) and inputting Army TMD requirements into Joint forums. These products are required to accomplish the integrated TMD mission and exceed the scope of other programs. This program also supports Aviation and Artillery attack operation systems and passive missile defense materiel solutions. This supports the Legacy to Objective transition path of the Transformation Campaign Plan (TCP).</p>											
<p><u>FY 2000 Accomplishments</u></p> <ul style="list-style-type: none">3116 Space and Missile Defense - Planned, developed, and executed concepts and DTLOMS solutions for space and NMD. Represented users of space and NMD in development of operational and training requirements, testing, and evaluation, including SBIRS, M3P/JTAGS, and space control capabilities. Led Army's efforts in Joint Theater Missile Defense (JTMD) architecture development. Expanded space and TMD Master Plans into the 2010 time frame. Sponsored exploration of future space and missile defense warfighting efforts. As the FA 40 personnel proponent, ensured Army Space Operations Officers were thoroughly trained and effectively assigned to meet the needs of Joint and Army commanders.6223 Microelectromechanical System - Defined opportunities for MEMS packaging. Initiated tasks in the development of packaging demonstrations.1915 Aero-acoustics Instrumentation Technology - Test facility development; high frequency sensor development; and composite structure dynamic pressure instrumentation.2872 Missile System Integration - Demonstrated a field portable device for detection; completed design of miniaturized sensor; completed rapid spectral analysis method.											

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2A Exhibit)**June 2001**

BUDGET ACTIVITY

4 - DEM/VAL

PE NUMBER AND TITLE

**0603308A - Army Missile Defense Systems
Integration**

PROJECT

990**FY 2000 Accomplishments (Continued)**

- 14073 Missile Defense Flight Experiment Support - Supported flight test experiment in the FY 01 flight from the Kodiak Launch complex.

Total 28199

FY 2001 Planned Program

- 3367 Space and Missile Defense - Continue FDIC's efforts to plan, develop, and execute concepts and DTLOMS solutions for space and NMD. Represent users of space and NMD in development of operational and training requirements, testing and evaluation, including SBIRS, M3P/JTAGS, and space control capabilities. Lead Army's efforts in developing and executing Joint Theater Missile Defense (JTMD) architecture. Expand Space and TMD Master Plans beyond the 2010 time frame. Sponsor exploration of future space and missile defense warfighting efforts. As the personnel proponent for space operation officers, ensure Army Space Operations Officers (FA 40) are thoroughly trained and effectively assigned to meet the needs of commanders.
- 5768 Develop full dimensional visualization software.
- 2884 Develop Aero-acoustic instrumentation technology.
- 2884 Continue Family of Systems Simulator development.
- 1923 Develop Army Acoustics Center of Excellence.
- 6729 Develop low cost interceptor technology.
- 3845 Continue advanced radar power technology development.
- 3845 Continue acoustic technology research.
- 1442 Develop supercluster distributed memory technology.
- 1442 Develop scramjet acoustic combustion enhancements.
- 17016 Support Northern Edge range infrastructure, instrumentation, and equipment.
- 3845 Conduct payload development, integration, and research.
- 1923 Conduct Eagle Eyes research for nuclear detection.
- 1643 Small Business Innovative Research/Small Business Technology Transfer

Total 58556

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2A Exhibit)**June 2001**

BUDGET ACTIVITY

4 - DEM/VAL

PE NUMBER AND TITLE

**0603308A - Army Missile Defense Systems
Integration**

PROJECT

990**FY 2002 Planned Program**

- 4568 Continue FDIC's efforts to plan, develop, and execute concepts and DTLOMS solutions for space and NMD. Represent users of space and NMD in development of operational and training requirements, testing, and evaluation, including SBIRS, M3P/JTAGS, and space control capabilities. Lead Army's efforts in developing and executing Joint Missile Defense (JTMD) architecture. Develop space and MD modernization strategy beyond the 2010 time frame. Sponsor exploration of future space and missile defense warfighting efforts. As the personnel proponent for space operation officers, ensure Army Space Operations Officers (FA 40) are thoroughly trained and effectively assigned to meet the needs of commanders.

Total 4568

B. Other Program Funding Summary: Not applicable for this item.**C. Acquisition Strategy:**Program is continuous. Various performers will conduct planned accomplishments.**D. Schedule Profile**

	<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>FY 2006</u>	<u>FY 2007</u>
Continue development/synchronization of space and NMD DTLOMS solutions & TMD integration.	1-4Q	1-4Q	1-4Q	0	0	0	0	0

ARMY RDT&E COST ANALYSIS(R-3)									June 2001			
BUDGET ACTIVITY 4 - DEM/VAL					PE NUMBER AND TITLE 0603308A - Army Missile Defense Systems Integration					PROJECT 990		
I. Product Development	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2001 Cost	FY 2001 Award Date	FY 2002 Cost	FY 2002 Award Date	FY 2003 Cost	FY 2003 Award Date	Cost To Complete	Total Cost	Target Value of Contract
			0	0		0		0		0	0	0
Subtotal:												
Remarks: Not Applicable												
II. Support Cost	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2001 Cost	FY 2001 Award Date	FY 2002 Cost	FY 2002 Award Date	FY 2003 Cost	FY 2003 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a . GOVT SUPPORT & SUPPORT CONTRACTS	VARIOUS	VARIOUS	36532	56913		4568		0	0	0	0	0
b . SBIR/STTR			0	1643		0		0	0	0	0	0
Subtotal:			36532	58556		4568		0		0	0	0

ARMY RDT&E COST ANALYSIS(R-3)									June 2001			
BUDGET ACTIVITY 4 - DEM/VAL					PE NUMBER AND TITLE 0603308A - Army Missile Defense Systems Integration					PROJECT 990		
III. Test and Evaluation	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2001 Cost	FY 2001 Award Date	FY 2002 Cost	FY 2002 Award Date	FY 2003 Cost	FY 2003 Award Date	Cost To Complete	Total Cost	Target Value of Contract
			0	0		0		0		0	0	0
Subtotal:												
Remarks: Not Applicable												
IV. Management Services	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2001 Cost	FY 2001 Award Date	FY 2002 Cost	FY 2002 Award Date	FY 2003 Cost	FY 2003 Award Date	Cost To Complete	Total Cost	Target Value of Contract
			0	0		0		0		0	0	0
Subtotal:												
Remarks: Not Applicable												
Project Total Cost:						36532	58556		4568		0	0

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2A Exhibit)							June 2001			
BUDGET ACTIVITY 4 - DEM/VAL				PE NUMBER AND TITLE 0603308A - Army Missile Defense Systems Integration				PROJECT 997		
COST (In Thousands)	FY 2000 Actual	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	Cost to Complete	Total Cost
997 SPACE AND MISSILE DEFENSE BATTLELAB	15220	19990	12231	0	0	0	0	0	0	0
<p><u>A. Mission Description and Budget Item Justification:</u>Project D997 funds the development of warfighting concepts and the conduct of warfighting experiments within the Space and Missile Defense Battlelab (SMDBL). The mission of the SMDBL is to deliver space and missile defense innovations to the Warfighter through advanced concepts and technology integration, prototyping, experimenting, modeling, simulation, and operational analysis. This type of integration, experimentation, and analysis for space and missile defense is not done anywhere else in the Army.</p> <p><u>FY 2000 Accomplishments</u></p> <ul style="list-style-type: none"> 7457 Planned, developed, and executed SMDBL experiments in coordination with TRADOC requirements and procedures. Involved directly in the following: Joint Contingency Force Advanced Warfighter Experiment (AWE) - Tactical Weather; Space-Based Forced Warning; Eagle Vision II; and Enroute Mission Planning and Rehearsal System (EMPRS); Total Defender Experiment; No Horizons Experiment; Black & White Integration Phase I; SMDC Experimentation Campaign Plan; 32nd AAMDC Future Operational Capability (FOC); Reengineering Initiative Experiment IV. 5038 Planned, developed, and executed SMDBL participation in Army/Joint Exercise and Training events, including Strike Force, Fire Simulation Support Tools, Digital Battle Simulation Tool Follow-On, and Optic Windmill 00. Provided for Tactical Simulation Integration Unit (TSIU) IV &V and TSIU High Level Architecture compliance. 1570 Managed model and simulation (M&S) infrastructure in support of experimentation, exercise, and training, and analysis programs. Managed M&S domains, continued M&S investment strategy, incorporated space and missile defense functionality in Battle Command Training Program (BCTP) events, and included space and missile defense in the Joint Warfighting Simulation (JWARS), Warfighter's Simulation (WARSIM) functional description of the battlefield (FDB). 1155 Conducted operational analysis support to space and missile defense experiment programs. Conducted analysis support to other SMDC and Army programs, including establishment of capability to conduct analysis of the impacts of space-based sensors in an approved Army simulation. Conducted analysis of the military utility of space-based radar and spectral imagery. Formed federation between Extended Air Defense Simulation (EADSIM) and Fire Support Simulation (FIRESIM), resulting in simultaneous analysis of active defense and attack operations. <p>Total 15220</p>										

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2A Exhibit)		June 2001
BUDGET ACTIVITY 4 - DEM/VAL	PE NUMBER AND TITLE 0603308A - Army Missile Defense Systems Integration	PROJECT 997
<p><u>FY 2001 Planned Program</u></p> <ul style="list-style-type: none"> 8131 Conduct Missile Defense Integration, Experiments, and Exercises - 32nd AAMDC FOC; Northern Edge; Roving Sands; TSIU; Tiger; Total Defender experiment. Hardware/Software Integration Center upgrade/enhancements to support Army Transformation Campaign Plan (Interim & Objective Force). 7868 Conduct Space Experimentation and Exercises - With space experimentation such as ENTR, Mobile Processing, Exploitation & Dissemination (MOPED), silent runner, black and white integration, spectral images, concept initiation development support and future combat and control experiments to support Army Transformation Campaign Plan. 3504 Develop Models, Simulations, and Assessment Tools and conduct operational analysis such as Operational/Imagery/Force Federation/Joint Theater & Missile Defense and Enhancements to Joint Simulations (JSIMs), WARSIM Common Operational Modeling, Planning Simulations System (COMPASS) Improvement. Maintain modeling and simulation infrastructure for experiments, exercises, and analysis programs. 487 Small Business Innovative Research/Small Business Technology Transfer <p>Total 19990</p> <p><u>FY 2002 Planned Program</u></p> <ul style="list-style-type: none"> 6116 Conduct Missile Defense Integration, Experiments, and Exercises - 32nd AAMDC FOC to evaluate Command Control Communications Computers, Intelligence Surveillance & Reconnaissance (C4ISR) technology; Total Defender; No Horizons Phase III; Northern Edge; Corp AWE, Roving Sands to support legacy/objective/interim force. 3913 Conduct Space Experimentation, & Exercises - Transformation Force Exp; Future Combat Command & Control (FCC2), Enroute Mission Planning and Rehearsal System (EMPRS) broadcast request imagery technologies experiments (BRITE); and embedded national tactical receivers (ENTR) in support of the Army Transformation Campaign Plan (Legacy, Interim & Objective Forces). 2202 Develop Model, Simulations, and Assessment tools - Enhancements to current models, Joint Simulations (JSIMS), and Warfighter Simulations (WARSIM). Maintain modeling and simulation infrastructure for experiments, exercises, and operational analysis programs. <p>Total 12231</p>		

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2A Exhibit)		June 2001
BUDGET ACTIVITY 4 - DEM/VAL	PE NUMBER AND TITLE 0603308A - Army Missile Defense Systems Integration	PROJECT 997
<p><u>B. Other Program Funding Summary:</u> Not applicable for this item.</p> <p><u>C. Acquisition Strategy:</u> Program is continuous. Contracts/Tasks Orders are in place for obligation. Various performers will conduct planned accomplishments.</p> <p><u>D. Schedule Profile:</u> Not applicable for this item.</p>		

ARMY RDT&E COST ANALYSIS(R-3)									June 2001			
BUDGET ACTIVITY 4 - DEM/VAL					PE NUMBER AND TITLE 0603308A - Army Missile Defense Systems Integration					PROJECT 997		
I. Product Development	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2001 Cost	FY 2001 Award Date	FY 2002 Cost	FY 2002 Award Date	FY 2003 Cost	FY 2003 Award Date	Cost To Complete	Total Cost	Target Value of Contract
			0	0		0		0		0	0	0
Subtotal:												
II. Support Cost	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2001 Cost	FY 2001 Award Date	FY 2002 Cost	FY 2002 Award Date	FY 2003 Cost	FY 2003 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a . Experiments, Exercises, Enhancements, Maintenance, analysis	CPAF/CPFF	Various, AL & CO	40240	14703		7431		0	0	0	0	0
b . Govt Support and Support Contracts	MIPR	Various, AL & CO	13481	4800		4800		0	0	0	0	0
c . SBIR/STTR			0	487		0		0	0	0	0	0
Subtotal:			53721	19990		12231		0		0	0	0

ARMY RDT&E COST ANALYSIS(R-3)									June 2001			
BUDGET ACTIVITY 4 - DEM/VAL					PE NUMBER AND TITLE 0603308A - Army Missile Defense Systems Integration					PROJECT 997		
III. Test and Evaluation	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2001 Cost	FY 2001 Award Date	FY 2002 Cost	FY 2002 Award Date	FY 2003 Cost	FY 2003 Award Date	Cost To Complete	Total Cost	Target Value of Contract
			0	0		0		0		0	0	0
Subtotal:												
Remarks: Not Applicable												
IV. Management Services	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2001 Cost	FY 2001 Award Date	FY 2002 Cost	FY 2002 Award Date	FY 2003 Cost	FY 2003 Award Date	Cost To Complete	Total Cost	Target Value of Contract
			0	0		0		0		0	0	0
Subtotal:												
Remarks: Not Applicable												
Project Total Cost:								0		0	0	0

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2A Exhibit)								June 2001		
BUDGET ACTIVITY 4 - DEM/VAL				PE NUMBER AND TITLE 0603308A - Army Missile Defense Systems Integration					PROJECT 99A	
COST (In Thousands)	FY 2000 Actual	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	Cost to Complete	Total Cost
99A ARMY AIR AND MISSILE DEFENSE	0	0	1687	0	0	0	0	0	0	0
<p><u>A. Mission Description and Budget Item Justification:</u> The Joint Distributed Engineering Plant (JDEP) is a Navy proposed concept expanding their land-based Distributed Plant which assesses integration and interoperability problems (air and missile defense) of the fleet. This program will be used to evaluate interoperability of joint forces, test and evaluate interoperability of new acquisition systems, and engineer hardware and software to correct deficiencies and develop new capabilities. The initial focus of this program is directed toward Integrated Air Defense. The program consists of individual combat systems distributed throughout the US connected with ATM/T1 telecommunication network(s) and distributed interactive simulation (DIS) protocols. The JDEP management structure consists of service execution cells. This funding provides for the Army involvement in the overall JDEP program. This effort supports the Legacy to Objective transition path of the Transformation Campaign Plan (TCP).</p> <p><u>FY 2000 Accomplishments</u> No funding received in FY00</p> <p><u>FY 2001 Planned Program</u> No funding received in FY01</p> <p><u>FY 2002 Planned Program</u></p> <ul style="list-style-type: none"> 987 JDEP Test Event Participation. 400 Communications Support: T1 Lease, ATM KG routers purchase and maintenance, Tactical Digital Information Link (TADIL) emulation and voice communications. 300 Operational Center Support: Provides support during JDEP testing and pre-event simulations. <p>Total 1687</p>										

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2A Exhibit)		June 2001
BUDGET ACTIVITY 4 - DEM/VAL	PE NUMBER AND TITLE 0603308A - Army Missile Defense Systems Integration	PROJECT 99A
<p><u>B. Other Program Funding Summary:</u> Not applicable for this item.</p> <p><u>C. Acquisition Strategy:</u> Not applicable for this item.</p> <p><u>D. Schedule Profile:</u> Not applicable for this item.</p>		

ARMY RDT&E COST ANALYSIS(R-3)									June 2001			
BUDGET ACTIVITY 4 - DEM/VAL					PE NUMBER AND TITLE 0603308A - Army Missile Defense Systems Integration					PROJECT 99A		
I. Product Development	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2001 Cost	FY 2001 Award Date	FY 2002 Cost	FY 2002 Award Date	FY 2003 Cost	FY 2003 Award Date	Cost To Complete	Total Cost	Target Value of Contract
			0	0		0		0		0	0	0
Subtotal:												
Remarks: Not applicable												
II. Support Cost	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2001 Cost	FY 2001 Award Date	FY 2002 Cost	FY 2002 Award Date	FY 2003 Cost	FY 2003 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a . Gov't Support, contractor support and communications support	MIPR, 1095	Various	0	0		700		0	0	0	0	0
Subtotal:			0	0		700		0		0	0	0

ARMY RDT&E COST ANALYSIS(R-3)									June 2001			
BUDGET ACTIVITY 4 - DEM/VAL					PE NUMBER AND TITLE 0603308A - Army Missile Defense Systems Integration					PROJECT 99A		
III. Test and Evaluation	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2001 Cost	FY 2001 Award Date	FY 2002 Cost	FY 2002 Award Date	FY 2003 Cost	FY 2003 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a . Gov	1095, MIPR	Varioius Army Agencies	0	0		987		0	0	0	0	0
Subtotal:			0	0		987		0		0	0	0
Remarks: JDEP testing will be conducted between various Army agencies through the use of T1 links. Various Army agencies will be involved in different phases of testing.												
IV. Management Services	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2001 Cost	FY 2001 Award Date	FY 2002 Cost	FY 2002 Award Date	FY 2003 Cost	FY 2003 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Subtotal:			0	0		0		0		0	0	0
Remarks: Not applicable												
Project Total Cost:			0	0		1687		0		0	0	0