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RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2)				July 2001	
OPERATIONAL TEST AND EVALUATION, DEFENSE (0460) BUDGET ACTIVITY SIX			OPERATIONAL TEST AND EVALUATION PE 0605118D8Z		
\$'s in Millions	FY 2000	FY 2001	FY 2002	COST TO COMPLETE	TOTAL COST
PE 0605118D	14.602	20.978	17.379	Continuing	Continuing

A. (U) MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION

The Director of Operational Test and Evaluation (DOT&E) is responsible under Title 10 for policy and procedures for all aspects of operational test and evaluation within the Department of Defense (DoD), with particular focus on OT&E that supports major weapon system production decisions. Currently there are approximately 200 Major Defense Acquisition Programs (MDAPs) on the DOT&E oversight list. These MDAPs may not proceed beyond low-rate initial production (LRIP) until operational test and evaluation of the program is completed. This requires early involvement by DOT&E in the planning phase of each program to ensure adequate testing and satisfactory progress through the acquisition milestones toward operational effectiveness, suitability goals and full-scale production. Key elements of the DOT&E's authority for MDAPs include: the approval of Service Test and Evaluation Master Plans (TEMPs) and Service operational test and evaluation (OT&E) plans; assessment of the adequacy of OT&E and the operational effectiveness and suitability of the weapon system; and participation in DoD-wide planning, programming and budgeting activities to highlight test and evaluation capabilities, needs and priorities. This Program Element also includes funds to perform official travel in support of its activities.

Funds are used to purchase contractor support in the science/engineering disciplines. The contractor support reviews Service Test and Evaluation Management Plans (TEMPs) and test plans and provides expert recommendations to ensure test adequacy; observes preparation for, and conduct of, field operational tests; Assists in the evaluation of OT results and reports evaluations to the Director and DoD senior management; and conducts assessments on programs to include evaluation of projected resource requirements and funding levels for OT&E.

Baseline increase in funding from FY 2000 to FY 2001 is for early involvement in testing as well as logistics and sustainability in the Department's weapon systems.

The funding shown in this exhibit, as management support of research and development, is budgeted for in Program Element Research

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Category 6.5.

(U) PROGRAM ACCOMPLISHMENTS AND PLANS:

FY 2000 Accomplishments:

Programs on the oversight list include:

Land Warfare Programs

- Abrams Tank (M1A2) System Enhancement Program (SEP)
- Army Tactical Missile System Brilliant Anti-Armor Submunition (ATACMS/BAT)
- ATACMS-BAT/Pre-Planned Product Improvement (P3I)
- Biological-Chemical Programs (Detection/Protection/Decontamination/C41)
- Bradley Fighting Vehicle System (BFVS) -A3/M2A3 and M3A3 Program
- Chinook (CH-47) Improved Cargo Helicopter (ICH)
- Close Combat Tactical Trainer (CCTT)
- Comanche RAH-66
- CRUSADER Howitzer & Resupply Vehicle
- Family of Medium Tactical Vehicles (FMTV)
- High Mobility Multi-Purpose Light Tactical Vehicle (HMMLTV)
- Javelin Advanced Anti-Tank Weapon System
- Joint Distribution System (JDS)
- Joint Modular Lighting System
- Joint Surveillance Target Attack Radar System
(JSTARS) Common Ground Station (CGS)
- Kiowa Warrior (OH-58D)
- Land Warrior
- Line of Sight Anti-Tank (LOSAT) Weapon System
- Longbow Hellfire Missile System
- Multiple Launched Rocket System (MLRS) Upgrade
- Sense and Destroy Armor (SADARM)
- Stinger Reprogrammable Microprocessor II (RMP II)
- Tactical Unmanned Aerial Vehicle (UAV) --Outrider
- UH-60 Black Hawk Service Life Extension Program (SLEP)

Naval Warfare Programs

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Advanced Amphibious Assault Vehicle (AAAV)
Advanced Combat Direction System (ACDS) Block I
Advanced Integrated Electronic Warfare System (AIEWS)
Aegis SPY Radar (AN/SPY-1B/D/D(V))
Auxiliary Dry Cargo Carrier (T-ADC(X))
CH-60S Fleet Combat Support Helicopter
Cooperative Engagement Capability (CEC)
DD21 Land Attack Destroyer
DDG-51 Arleigh Burke Class Destroyer
Evolved Sea Sparrow Missile (ESSM)
Fixed Distributive System (FDS) and
Advanced Deployable System (ADS)
Future Sea-Based Tactical Aviation Platform (CV/X)
LPD-17 Amphibious Assault Ship
MK-48 Advanced Capability (ADCAP) Torpedo
Virginia (SSN 774) Class Submarine
Rolling Airframe Missile (RAM)
Seawolf Class Nuclear Attack Submarine/Combat System (SSN-21/BSY-2)
SH-60R Multi-Mission Helicopter Program
Ship Self-Defense System (SSDS)
Standard Missile (SM-2) Block IIIB and Block IV/IVA
Strategic Sealift Ship (SSP)
Submarine External Communications System (SubECS)
TAGOS/SURTASS Surveillance Ship/Low Frequency Active (LFA) Sonar

Air Warfare Programs

Advanced Medium Range Air-to Air (AMRAAM)
AH-1 and UH-1 Helicopter Upgrades (4BN/4BW Upgrade)
AIM-9X Missile
AN/SQQ-89 Antisubmarine Warfare Combat System
C-130 Aircraft Modernization Program (AMP)
C-130J All Variants (KC-130J, EC-130J, WC-130J, C-130J-30, and C-130J)
C-17 Airlift Aircraft
F/A-18 C/D Hornet
F/A-18 E/F Hornet

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F-22 Air Superiority Fighter
Global Hawk High Altitude Endurance UAV
Joint Air-to-Surface Strike Missile (JASSM)
Joint Direct Attack Munition (JDAM)
Joint Primary Aircraft Training System (JPATS)
Joint Standoff Weapon (JSOW)
Joint Strike Fighter (JSF)
Joint Surveillance and Target Attack Radar System (JSTARS) E-8
Predator Medium Altitude Endurance UAV
Sensor Fused Weapon (SFW)
Standoff Land Attack Missile---Expanded Response (SLAM-ER)
T-45 Training System
Tactical Aviation Mission Planning System (TAMPS)
V-22 Osprey (Joint Vertical Airlift)

Electronic Warfare Programs

AAR-47 Upgrade
AN/ALR-56 (all versions) RWR -- all upgrades
AN/ALR-67 (all versions - includes AN/ALR-67[V]
3 Advanced Special Receiver) RWR -- all upgrades
AN/ALR-67E (V)2 RWR upgrade
AN/ALR-69 (all versions) RWR -- all upgrades
AN/APR-39 (all versions) Radar Warning Receiver (RWR) -- all upgrades
B-1B Bomber Defensive System Upgrade Program (DSUP)
EA-6B Analysis of Alternatives (AoA) Follow-on
"EA-6B ""Prowler"" (includes AN/ALQ-99 Tactical Jamming System and AN/USQ-113 Communications Jammer) -- all upgrades"
EA-6B:
Band 7/8 Jammer
Band 9/10 Jammer
Improved Capability (ICAP) III
Low Band Transmitter
Multi-mission Advanced Tactical Terminal/Integrated Data Modem (MATT/IDM)
USQ-113 Connectivity Suite
F-15 Tactical Electronic Warfare System (TEWS) including
AN/ALQ-135 self-protection jammer -- all upgrades

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Integrated Defensive Electronic Countermeasures (IDECM)
Integrated Defensive Electronic Countermeasures (IDECM) Block I Interim Suite (Airborne Self- Protection Jammer/ALE-50)
Suite of Integrated Infrared Countermeasures / Common Missile Warning System (SIIRCM/CMWS)
Suite of Integrated Radio Frequency Countermeasures (SIRFC)

Command, Control, Communications, and Intelligence Programs

All Source Analysis System (ASAS)
Army Global Command and Control System (AGCCS)
Army Tactical Command and Control System (ATCCS) Capstone
Battlefield Digitization
C2 Vehicle
Cheyenne Mountain Upgrade
Combat ID
Combat Survivor Evader Location (CSEL) System
Composite Health Care System (CHCS II)
Defense Civilian Personnel Data System (DCPDS)
Defense Medical Logistics Standard Support (DMLSS)
Defense Message System (DMS)
Distribution Standard System (DSS)
E-2C Hawkeye Airborne Early Warning
E-3A Airborne Warning and Control System (AWACS)
 Radar System Improvement Program (RSIP)
E-6A TACAMO (multiple subprograms)
F-15 Fighter Data Link
Forward Area Air Defense System (FAADS) C3I
Global Transportation Network (GTN)
High Performance Computing Modification Plan (HPCMP)
Integrated Maintenance Data System (IMDS)
Joint Computer Aided Acquisition and Logistics Support (JCALS)
Joint Receiving Information Support System
Joint Service Imagery Processing System (JSIPS)
Joint Tactical Information Distribution System (JTIDS)
Maneuver Control System (MCS)
MILSTAR Satellite Communications System
Multifunctional Information Distribution System (MIDS)

R-1 Shopping List – Item No 3- 5 of 16

Exhibit R-2, RDT&E Budget Item Justification

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NAVASTAR GPS User Equipment (UE)
Navy Standard Integrated Personnel System (NSIPS)
Non-Tactical Command Support System (NTCSS)
Reserve Component Automation System (RCAS)
Standard Installation/Division Personnel System 3 (SIDPERS3)
Standard Procurement System (SPS)
Strategic War Planning System (SWPS)
Theater Medical Information Program (TMIP)

Strategic Warfare and Space Systems Programs

B1-B Lancer
B2 Advanced Technology Bomber
Evolved Expendable Launch Vehicle (EELV)
Medium Extended Air Defense System (MEADS)
National Airspace System (NAS)
National Missile Defense (NMD) System
Navy Theater Ballistic Missile Defense (TMBD)
Patriot P3I
Patriot Upgrade
Theater High Altitude Area Defense (THAAD)
TITAN IV Space Booster
Tomahawk Block IV / Theater Mission Planning Center (TMPC)

Other Systems

Chemical Demilitarization

CINC Support

Conducted outcome-based interoperability assessments of fielded systems and provided readiness implications of issues and deficiencies identified.

- Provided technical, on-site and reach back contractor support to augment the government staff in CINC theaters to advise the CINCs on how to: develop key operational issues to focus evaluation objectives; develop evaluation strategies; design test and evaluation plans/programs; evaluate operational performance; and, identify and track corrective actions.
- Integrated with military exercises, operational assessments, Advanced Concept Technology Demonstrations (ACTDs), joint experiments, joint test and evaluations (JT&Es), and other mission-based operational performance evaluations to address readiness implications within the individual commands.

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Performed official travel to carry out oversight of DoD operational testing and evaluation.

FY 2001 Accomplishments:

Programs on the oversight list include:

Land Warfare Programs

- Army Tactical Missile System Brilliant Anti-Armor Submunition (ATACMS/BAT) P3I
- Blackhawk (UH-60L) Service Life Extension Program (SLEP)
- Bradley Fighting Vehicle System (BFVS)-A3/M2A3 and M3A3 Programs
- Close Combat Tactical Trainer (CCTT)
- Chinook (CH-47) Improved Cargo Helicopter
- Chemical Demilitarization
- Comanche (RAH-66)
- CRUSADER Howitzer & Resupply Vehicle
- Family of Medium Tactical Vehicles (FMTV)
- Future Combat System (FCS)
- Future Scout / Calvary System (FSCS)
- High Mobility Artillery Rocket System
- Javelin Advanced Anti-Tank Weapon System
- Joint Biological Point Detection
- Joint Biological Remote Early Warning
- Joint Chemical Agent Detector
- Joint Service Light NBC Reconnaissance
- Joint Service Lightweight Standoff
- Joint Warning & Reporting Network
- Common Ground Station (CGS)
- Kiowa Warrior (OH-58D)
- Land Warrior
- Longbow Apache (AH-64D)
- Longbow Hellfire Missile System
- Line of Sight Anti-Tank (LOSAT) Weapon System
- Abrams Tank (M1A2) System Enhancement Program (SEP)
- Multiple Launched Rocket System (MLRS) Upgrade
- Multiple Launched Rocket System (MLRS) Upgrade

R-1 Shopping List – Item No 3- 7 of 16

Exhibit R-2, RDT&E Budget Item Justification

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Nuclear-Biological-Chemical Reconnaissance System (NBCRS) Vehicle
Sense and Destroy Armor (SADARM)
Tube Launched, Optically Tracked, Wire Guided (TOW) - Fire and Forget
Tactical Unmanned Aerial Vehicle (UAV)-Outrider

Naval Warfare Programs

Advanced Amphibious Assault Vehicle (AAAV)
Advanced Combat Direction System (ACDS) Block I
Aegis SPY Radar (AN/SPY-1B/D/D(V))
Cooperative Engagement Capability (CEC)
CH-60S Fleet Combat Support Helicopter
Future Sea-Based Tactical Aviation Platform (CV/(X))
CVN-69 Class
DD21 Land Attack Destroyer
DDG-51 Arleigh Burke Class Destroyer
Evolved Seasparrow Missile (ESSM)
Fixed Distributive System (FDS) and Advanced Deployable System (ADS)
Amphibious Assault Ship (LPD-17)
MK-48 Advanced Capability (ADCAP) Torpedo
Ship Self-Defense System (Mark 1 & Mark 2)
Rolling Airframe Missile (RAM)
SH-60R Multi-Mission Helicopter Program
Seawolf Class Nuclear Attack Submarine/Combat System (SSN-21/BSY-2)
SSN-23 Jimmy Carter
Strategic Sealift Ship (SSP)
Submarine External Communications System (SubECS)
Auxiliary Dry Cargo Carrier (T-ADC(X))
Virginia (SSN 774) Class Submarine

Air Warfare Programs

Advanced Early Warning (AEW)
AIM-9X Missile
Advanced Medium Range Air-to-Air Missile (AMRAAM)
AN/SQQ-89 Antisubmarine Warfare Combat System
C-130J All Variants (KC-130J, EC-130J, WC-130J, C-130J-30, and C-130J)

R-1 Shopping List – Item No 3- 8 of 16

Exhibit R-2, RDT&E Budget Item Justification

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C-17 Airlift Aircraft
F/A-18 C/D Hornet
F/A-18 E/F Hornet
F-22 Air Superiority Fighter
Global Hawk High Altitude Endurance UAV (HAEUAV)
Joint Air-to-Surface Strike Missile (JASSM)
Joint Direct Attack Munition (JDAM)
Joint Primary Aircraft Training System (JPATS)
Joint Strike Fighter (JSF)
Joint Standoff Weapon (JSOW)
Joint Standoff Weapon (JSOW)
Joint Standoff Weapon (JSOW)
Joint Surveillance Target Attack Radar System (JSTARS)
Predator Medium Altitude Endurance UAV
Sensor Fused Weapon (SFW) P3I
Standoff Land Attack Missile-Expanded Response (SLAM-ER)
T-45 Training System
Tactical Aviation Mission Planning System (TAMPS)
USMC H1 Upgrade
V-22 Osprey (Joint Airlift Vehicle)

Electronic Warfare Programs

AN/ALR-56 (All Versions) Radar Warning Receiver-All Upgrades
AN/ALR-67 (All Versions)-includes AN/ALR-67(V)
AN/APR-39 (All Versions) Radar Warning Receiver-All Upgrades
ASPJ (ALQ-165)
B-1B Lancer Conventional Mission Upgrade Program (CMUP)/Defensive System Upgrade Program (DSUP)
EA-6B Prowler-All Upgrades
F-15 Tactical Electronic Warfare System (TEWS) including AN/ALQ-135 Self-Protection Jammer
Integrated Defensive Electronic Countermeasures (IDECM)
Suite of Integrated Infrared Countermeasures/Common Missile Warning System (SIIRCM/CMWS)
Suite of Integrated Radio Frequency Countermeasures (SIRFC)

Command, Control, Communications, and Intelligence Programs

Army Tactical Command and Control System (ATCCS) Capstone

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Battlefield Digitization
All Source Analysis System (ASAS)/Army Tactical Command and Control System (ATCCS)
Composite Health Care System II (CHCS II)
Defense Message System (DMS)
E-C2 Hawkeye Airborne Early Warning
E-3A Airborne Warning and Control System (AWACS) Radar System Improvement Program (RISP)
Army Global Command and Control System (AGCCS)
Global Command Support System -Air Force (GCSS-AF)
Integrated Maintenance Data System (IMDS)
Joint Ammunition Management Standard System (JMASS)
Joint Computer Aided Acquisition and Logistics Support (JCALS)
Joint Tactical Radio System (JTRS)
Maneuver Control System (MCS)
Multifunctional Information Distribution System (MIDS)
NAVSTAR GPS User Equipment (UE)
Navy Standard Integrated Personnel System (NSIPS)
Unmanned Aerial Vehicle Tactical Control System (UAV-TCS)
Theater Medical Information Program (TMIP)
Combat ID
Defense Medical Logistics Standard Support (DMLSS)
Forward Area Air Defense System (FAADS) C3I
MILSTAR Satellite Communications System
Reserve Component Automation System (RCAS)
Defense Civilian Personnel Data System
F-15 Fighter Data Link (FDL)
Global Transportation Network (GTN)
Standard Procurement System (SPS)

Strategic Warfare and Space Systems Programs

B1-B Lancer
B2 Advanced Technology Bomber
Evolved Expendable Launch Vehicle (EELV)
Medium Extended Air Defense System (MEADS)
Navy Theater Ballistic Missile Defense (TBMD)
National Missile Defense (NMD) System

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Patriot P3I and Patriot Upgrade
Theater High Altitude Area Defense (THAAD)
Tomahawk Theater Mission Planning Center
National Airspace System
Tomahawk Block IV
TITAN IV Space Booster

Other Systems

Chemical Demilitarization

Test Improvement

The FY01 Defense Appropriations Bill provided an additional \$4.0M under the project title Improvement in Test. The following five initiatives were funded:

1. Simulation Testing Operations Rehearsal Model (STORM). Managed by the Army Test and Evaluation Center, STORM provides simulation of the command, control, communications and intelligence (C⁴I) networks of various command organizations. This effort allows the operational tester to more fully stress C⁴I networks that are in use during field tests.
2. Fiber Optic Cable Upgrade to the Nevada Test and Training Range (NTTR). This effort will partially fund the upgrade of the current unreliable link between Indian Springs and Nellis AFB, providing a secure, encrypted high-bandwidth fiber optic link for real-time analysis work.
3. Commander, Operational Test and Evaluation Force (COMOPTEVFOR) Modeling and Simulation (M&S) Computer Laboratory. This effort provides partial funding for the M&S laboratory that will allow COMOPTEVFOR to do evaluations more thoroughly and efficiently.
4. Navy Test and Evaluation Training. This effort enables Navy Training to develop instructional courses to train fleet operators in the technologies necessary for modern testing.
5. Marine Corps Operational Test and Evaluation Activity (MCOTEA) Network Infrastructure Upgrade at Quantico. This effort was used to procure the servers and other equipment to host a Management Information Network (MIN) to support MCOTEA staff in the conduct of OT&E for 53 programs. MCOTEA had been sharing an Air Force server that resides at Kirtland AFB. The server was accessible only through the Internet, resulting in significant down time and a reduction in the ability to work test plans and assessments.

Performed official travel to carry out oversight of DoD operational testing and evaluation.

FY 2002 Plans:

Programs on the oversight list include:

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Land Warfare Programs:

Blackhawk (UH-60L) Service Life Extension Program (SLEP)
Bradley Fighting Vehicle System (BFVS)-A3/M2A3 and M3A3 Programs
Close Combat Tactical Trainer (CCTT)
Chinook (CH-47) Improved Cargo Helicopter
Comanche (RAH-66)
CRUSADER Howitzer & Resupply Vehicle
Family of Medium Tactical Vehicles (FMTV)
Future Combat System (FCS)
Future Scout / Calvary System (FSCS)
High Mobility Artillery Rocket System
Joint Biological Point Detection
Joint Biological Remote Early Warning
Joint Chemical Agent Detector
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Joint Service Lightweight Standoff
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Sense and Destroy Armor (SADARM)
Tube Launched, Optically Tracked, Wire Guided (TOW) - Fire and Forget

Naval Warfare Programs:

Advanced Amphibious Assault Vehicle (AAAV)
Advanced Combat Direction System (ACDS) Block I
Advanced Integrated Electronic Warfare System (AIEWS)
Aegis SPY Radar (AN/SPY-1B/D/D(V))

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Cooperative Engagement Capability (CEC)
Future Sea-Based Tactical Aviation Platform (CV/(X))
CVN-69 Class
DD21 Land Attack Destroyer
DDG-51 Arleigh Burke Class Destroyer
Evolved Seasparrow Missile (ESSM)
Fixed Distributive System (FDS) and Advanced Deployable System (ADS)
Amphibious Assault Ship (LPD-17)
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SH-60R Multi-Mission Helicopter Program
Seawolf Class Nuclear Attack Submarine/Combat System (SSN-21/BSY-2)
SSN-23 Jimmy Carter
Strategic Sealift Ship (SSP)
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Virginia (SSN 774) Class Submarine

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F/A-18 E/F Hornet
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Global Hawk High Altitude Endurance UAV (HAEUAV)
Joint Air-to-Surface Strike Missile (JASSM)
Joint Direct Attack Munition (JDAM)
Joint Primary Aircraft Training System (JPATS)
Joint Strike Fighter (JSF)
Joint Standoff Weapon (JSOW)

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Suite of Integrated Radio Frequency Countermeasures (SIRFC)

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Composite Health Care System II (CHCS II)
Defense Message System (DMS)
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E-3A Airborne Warning and Control System (AWACS) Radar System Improvement Program (RISP)
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Global Command Support System -Air Force (GCSS-AF)
Integrated Maintenance Data System (IMDS)
Joint Ammunition Management Standard System (JMASS)
Joint Computer Aided Acquisition and Logistics Support (JCALS)

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Joint Tactical Radio System (JTRS)
Maneuver Control System (MCS)
Multifunctional Information Distribution System (MIDS)
NAVSTAR GPS User Equipment (UE)
Navy Standard Integrated Personnel System (NSIPS)
Unmanned Aerial Vehicle Tactical Control System (UAV-TCS)
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Defense Medical Logistics Standard Support (DMLSS)
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Reserve Component Automation System (RCAS)

Strategic Warfare and Space Systems Programs

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National Missile Defense (NMD) System
Patriot P3I and Patriot Upgrade
Theater High Altitude Area Defense (THAAD)
Tomahawk Theater Mission Planning Center
National Airspace System

Plans - Other Systems:

Chemical Demilitarization

Will perform official travel to carry out oversight of DoD operational testing and evaluation.

B. (U) PROGRAM CHANGE SUMMARY

(\$ in Millions)

FY 2000

FY 2001

FY 2002

R-1 Shopping List – Item No 3- 15 of 16

Exhibit R-2, RDT&E Budget Item Justification

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FY 2001 President's Budget	14.602	17.172	17.379
Increase Program for Improvement of Tests		4.000	
Section 8086 Reduction		(.148)	
P.L. 106-554 Reduction		(.046)	
Appropriated Value	14.602	20.978	
Adjustments to Appropriated Value			
Current Budget Submit	14.602	20.978	17.379

C. (U) **OTHER PROGRAM FUNDING** NA