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Exhibit R-2, RDT&E Budget Item Justification						February 2004	
Appropriation/Budget Activity RDT&E.DW/BA3			R-1 Item Nomenclature: Combating Terrorism Technology Support PE 0603122D8Z				
Cost (\$ in millions)	FY2003	FY2004	FY2005	FY2006	FY2007	FY2008	FY2009
Total PE Cost	114.374	97.291	46.719	44.575	45.213	45.763	46.686
Combating Terrorism Technology Support/P484	114.374	97.291	46.719	44.575	45.213	45.763	46.686

A. Mission Description and Budget Item Justification:**BRIEF DESCRIPTION OF ELEMENT**

Combating Terrorism Technology Support (CTTS). This program develops technology and prototype equipment that address needs and requirements with direct operational application in the national effort to combat terrorism. Projects support antiterrorism, counter terrorism, intelligence and terrorism consequence management activities to: conduct tactical operations; protect military forces, civilian personnel, installations, infrastructure elements and the general populace from terrorist attack; detect, neutralize, and mitigate the effects of conventional and unconventional devices; conduct surveillance and tracking of terrorists; conduct threat and incident assessments; and process and disseminate information. The program integrates Defense advanced development efforts with government-wide and international efforts to combat terrorism. The Assistant Secretary of Defense for Special Operations and Low-Intensity Conflict oversees and is responsible for execution of the CTTS program, which addresses defense, interagency and international combating terrorism technology requirements.

B. Program Change Summary: (Show total funding, schedule, and technical changes for the program element that have occurred since the previous President's Budget Submission)

	<u>FY2003</u>	<u>FY2004</u>	<u>FY2005</u>
Previous President's Budget	111.377	60.526	46.778
Current President's Budget	114.374	97.291	46.719
Total Adjustments			
Congressional program reductions			
Congressional rescissions			
Congressional increases	6.000	38.200	
Reprogrammings	(.772)		
SBIR/STTR Transfer			
Other program adjustments	(2.231)	(1.435)	(0.059)

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Exhibit R-2a, RDT&E Project Justification						February 2004	
Appropriation/Budget Activity RDT&E.DW/BA3			Project Name and Number Combating Terrorism Technology Support 0603122D8Z				
Cost (\$ in millions)	FY2003	FY2004	FY2005	FY2006	FY2007	FY2008	FY2009
Combating Terrorism Technology Support	114.374	97.291	46.719	44.575	45.213	45.763	46.686

A. Mission Description and Budget Item Justification:

BRIEF DESCRIPTION OF ELEMENT

P484, Combating Terrorism Technology Support (CTTS). This program develops technology and prototype equipment that address needs and requirements with direct operational application in the national effort to combat terrorism. All projects are distributed among ten mission categories: Chemical, Biological, Radiological, and Nuclear Countermeasures; Explosives Detection; Improvised Device Defeat; Infrastructure Protection; Investigative Support and Forensics; Personnel Protection; Physical Security; Training Technology Development: Surveillance, Collection, and Operations Support; and Tactical Operations Support. This program is a non-system, advanced technology development effort that demonstrates the utility or cost reduction potential of technology when applied to combating terrorism requirements. It includes technology development and proof-of-principle demonstrations in field applications and coordination to transition from development to operational use.

B. Accomplishments/Planned Program

CHEMICAL, BIOLOGICAL, RADIOLOGICAL, AND NUCLEAR COUNTERMEASURES

	FY 2003	FY 2004	FY 2005
Accomplishment/Effort/Subtotal Cost	23.777	16.740	2.015

FY 2003 Accomplishments:

Completed laboratory and initial field tests of the Electrostatic Decontamination System. Completed laboratory testing of the high-volume aerogel-based sampler system. Demonstrated in the laboratory the distributed chemical sensor capability. Developed a real-time biological agent detector for four biological agents and demonstrated detector at a NIOSH/CDC facility. Developed standard testing protocols and evaluation criteria for building protection CB filters. Designed a portable water treatment system for overseas facilities. Developed building disinfection byproducts database for ozone. Assessed potential for using X-rays to treat luggage to reduce the potential for chance or deliberate introduction of biological warfare (BW) agents. Evaluated the ability of biopreservative material to increase storage life of BW samples across a range of conditions. Developed standard laboratory protocols for seven BW agents in food and for the ability to identify suspected terrorist who have worn protective equipment and terrorists who have worked with plutonium or enriched uranium. Completed testing of the small-room protection chemical, biological and radiological (CBR) filtration system; verification and validation of urban dispersion model to be used as a CB Planning Tool; tool for food safety managers on the viability and stability of BW agents in food. Qualified additional design for CB escape hoods and conducted development, testing, and evaluation of escape mask designs. Delivered advanced low-cost self-indicating casualty radiation dosimeter; software to assess the cost-effectiveness of building renovations to improve CB protection; and mass decontamination protocols.

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FY 2004 Plans:

Conduct toxicity testing on the Electrostatic Decontamination System and field testing on the high-volume aerogel-based sampler collection system for aerosolized BW agents. Develop field methods to quantify an individual's exposure to ionizing radiation and advanced protective clothing for incident response. Develop a tactical self-contained breathing apparatus (SCBA) for use by specialized response teams requiring enhanced respiratory protection. Develop high-volume air and water sampling systems for BW and CW agents. Conduct laboratory tests of a distributed chemical sensing system, a real-time maritime toxic industrial chemical (TIC) detector, and tools to improve the detection of foodborne attacks and advanced BW detection devices. Complete design and testing of a heat stress calculator for use by safety officers to manage worker heat-related health conditions. Test the portable water treatment system for overseas facilities and a cold plasma decontamination of high-value items. Complete the building disinfection byproducts database. Complete design review of the personal hydration CBR filtration system. Validate standard laboratory protocols for analyzing chemical protective filters for buildings. Continue testing of new designs for CB escape hoods. Develop a system to collect and detect biological agents in aqueous environments. Field-test biological agent preservation system and a real-time biological agent detector for aerosolized BW agents.

FY 2005 Plans:

Field-test the distributed chemical sensing system, the real-time maritime TIC detector, the tactical SCBA for specialized response units, and advanced protective clothing for incident response personnel. Validate methods for quantifying personal exposure to ionizing radiation. Validate tools to improve the detection of foodborne attacks and advanced BW detection devices and the statistical tool for sampling of contaminated facilities. Conduct live-agent testing of the personal hydration CBR filtration system. Test an advanced high-volume air and water sampling system for BW and CW agents. Conduct laboratory and field testing on the system to collect and detect biological agents in aqueous environments.

EXPLOSIVES DETECTION

	FY 2003	FY 2004	FY 2005
Accomplishment/Effort/Subtotal Cost	12.546	7.439	3.522

FY 2003 Accomplishments:

Validated the capability of nuclear quadrupole resonance (NQR) portal to detect sheet explosives. Demonstrated capability to produce marking agents at lower cost. Characterized NQR enhancements for false alarm reduction in computed tomographic (CT) explosive detection systems.

FY 2004 Plans:

Integrate multiple explosives and weapons detection technologies into one portal. Demonstrate NQR computed tomographic (CT) explosive detection system with enhanced false alarm reduction capability. Evaluate NQR technology for detection of large vehicle bombs. Research and evaluate technologies for detection of explosives in cargo. Research and evaluate new technologies for screening bottles for explosives and hazardous materials. Develop methods to improve canine handler selection and training. Characterize canine ability to generalize from domestic to foreign explosives.

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FY 2005 Plans:

Develop prototype explosives and weapons detection portal. Validate NQR computed tomographic (CT) explosive detection system with enhanced false alarm reduction capability. Demonstrate system for explosive detection in aircraft cargo containers. Demonstrate system for screening bottles for explosives and hazardous materials.

IMPROVISED DEVICE DEFEAT

	FY 2003	FY 2004	FY 2005
Accomplishment/Effort/Subtotal Cost	8.994	7.531	5.954

FY 2003 Accomplishments:

Developed and fielded an urban explosive magazine for storage of rapid response explosively driven render safe tools; a low cost .357 caliber micro disrupter; and an EOD expeditionary backpack for technicians to safely carry explosives, detonators, disruptors, cartridges and support tools necessary for EOD missions. Developed target recognition algorithms for detection and identification of potential IED components. Demonstrated and tested an automated information system to access and extract threat assessment, render safe data and disposal procedures. Conducted an Interagency Suicide Bomber Working Group meeting to develop best practice guidelines, address critical national coordination requirements and identify capability gaps related to the threat of person- or vehicle-borne suicide bombings in the U.S. The working group resulted in the development of a comprehensive suicide bomber information database and recommended SOPs.

FY 2004 Plans:

Complete testing for downsized high-energy access and disablement device. Complete characterization of several precision disruption tools. Complete development of a recoilless variable velocity disruption system for remote controlled vehicles; Develop an easy to use web-based interface allowing secure, password-protected access to a comprehensive database of IED reports, operational reports, publications and open source threat information; a Standoff Connectivity Control Unit (SCCU) to provide backward compatibility of existing sensor technology with analog robotic systems; and an integrated portable diagnostics system and electronic fusing disruption system. Field the Next Generation EOD Remote Controlled Vehicle advanced concept demonstrator for evaluation. Conduct a full field technical and operational assessment of EOD remote controlled vehicles to identify and quantify user requirements, to ensure comprehensive consideration and acceptance of NGEODRCV. Develop a fragmentation free micro-detonator. Expand scope of enhanced novel explosives characterization to include thermobaric effects, structural response and personnel injury probabilities.

FY 2005 Plans:

Conduct characterization of several disruption and breaching tools. Evaluate and test existing ballistic vest, helmet and face shields against explosive device detonation. Complete the assessment of EOD remote controlled vehicles. Deliver analysis of data to military services to facilitate purchase of next generation of remote controlled vehicles. Develop a dynamic entry warning device for breaching teams. Expand scope of detection methods, applications and characterizations of IED electronic components. Field easy to use, web-based interface allowing secure, password-protected access to a comprehensive database of IED reports. Characterize advanced IED arming and firing systems.

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INFRASTRUCTURE PROTECTION

	FY 2003	FY 2004	FY 2005
Accomplishment/Effort/Subtotal Cost	1.705	2.175	1.901

FY 2003 Accomplishments:

Completed a RFW vulnerability site assessment guide. The water flow modeling system was refined and distributed to various US cities, governments, and municipalities.

FY 2004 Plans:

Develop tools to monitor propagation of malicious computer software code, as well as to monitor and defend external networks against large-scale attacks. Complete encryption algorithm suite for supervisory control and data acquisition (SCADA) system protection and provide recommendations to industry. Develop a secure teleconferencing bridge to allow for the safe communications and passing of sensitive information. Continue vulnerability assessment of critical infrastructures to the effects of RFW.

FY 2005 Plans:

Continue research and development of methods to protect critical infrastructure systems against malicious attack. Continue to improve methods of protection, detection, mitigation, and recovery from attacks on networks. Continue to research and develop systems to provide vulnerability models and assessments for networks and infrastructure systems. Commence development of interdependency model between all critical infrastructures to include communication networks, electric power, water, natural gas, and petroleum.

INVESTIGATIVE SUPPORT AND FORENSICS

	FY 2003	FY 2004	FY 2005
Accomplishment/Effort/Subtotal Cost	6.473	5.651	3.923

FY 2003 Accomplishments:

Evaluated peroxide-based explosives for post-blast forensics. Distributed controls from residue background analysis to explosive examiners. Characterized and catalogued improvised explosive device components for examiners. Collected data for pipe bomb investigative reference. Fielded hyper spectral document imager prototype and automated handwriting examination system. Determined statistical “ground truth” for print matching criteria. Published standardized latent print evaluation criteria, as well as procedures for ink dating, float glass exams, and handwriting comparison of different language character sets. Began performance testing of computer forensic tools. Continued to develop next generation audio, visual, facial recognition, and computer forensic tools. Designed passive RF tag.

FY 2004 Plans:

Populate data reference with stable isotope signatures of explosives, post-blast forensics of peroxide-based explosives, IED component imagery, and residue background controls. Field next generation audio and visual enhancement tools; continue to develop forensic computer-aided facial recognition and

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advanced data recovery tools. Demonstrate link analysis of computer data through read back signals and computer password decryption. Design validation tests for ensuring court admissibility of forensic document examinations. Develop prototype of eye movement based detection of prior knowledge. Field prototype automated multilingual speaker recognition software. Develop remote polygraphy and non-contact facial temperature detection of deception techniques. Publish enhanced DNA and bio-hazard recovery and analysis protocols and procedures for trace analysis of conventional/novel ammunition. Validate new gunshot residue methods.

FY 2005 Plans:

Develop forensic facial recognition technology, advanced data recovery tools, and forensic services preparedness for mass disasters guide. Expand and publish pipe bomb investigative reference database and field reference card. Field remote polygraphy and non-contact facial temperature detection of deception techniques, as well as password counter encryption tool. Fabricate pocket kit for human identification in the field. Collect stable isotopic ratio data on foreign explosives and ignitable liquids for quadrilateral data repository. Develop prototype systems for all source investigative link analysis, high resolution facial imaging for human identification, individual video camera identification, and photo based terrorism scene modeling. Devise method to detect steganography with image files created by other steganography applications.

PERSONNEL PROTECTION

	FY 2003	FY 2004	FY 2005
Accomplishment/Effort/Subtotal Cost	4.593	2.718	3.304

FY 2003 Accomplishments:

Completed a significant upgrade to the portable shield and delivered systems to users for operational validation. Completed a study and analysis of female body armor for torso blunt injury protection, provided findings for consideration in the NIJ Body Armor Standards. Completed field test and demonstration of the vehicle blast model. The results will be considered for future testing. Completed initial improvements and conducted operational field-tests of upgraded cooling system used under body armor, bomb squad protective suits, and other protective garments. This system has been provided to support operations in Iraq for further evaluation. Completed initial transparent armor validation testing. Completed an initial demonstration and assessment of laser detection, threat evaluation system. Initiated a developmental initiative using millimeter wave imaging technology to provide stand-off detection and monitoring of personnel carrying concealed weapons. Continued development of multi-hit test protocol for testing body armor by updating testing procedures and upgrading test instrumentation, based on threat and technology enhancements. Initiated a comprehensive effort to define an armored vehicle standard (VIP), which includes ballistic, blast testing protocols, vehicle performance, and transparent armor requirements.

FY 2004 Plans:

Complete demonstration of full-scale reduced weight transparent armor applications in a selected vehicle. Promulgate preliminary armored passenger vehicle standards to begin integration into a National Standard. Complete validation testing of transparent armor design model. Continue development and integration of enabling technologies for Instantaneous Personnel Protection System. Demonstrate practical application of laser detection and warning and sniper detection and locating concepts. Continue introduction of advanced technologies to upgrade systems that provide monitoring and warning support to VIP installations. Demonstrate preliminary concepts for standoff monitoring of personnel for concealed weapons. Begin analyses and characterization of frangible ammunition. Evaluate methods to provide collective protection in standard vehicles against chemical agents. Begin evaluation of advanced concepts for transparent armor using fused spheres. Conduct ballistic testing of large pieces of spinel.

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FY 2005 Plans:

Integrate armored passenger vehicle standards into National Standard. Complete development of Instantaneous Personnel Protection System. Continue characterization of frangible ammunition and include effects on standard body and vehicle armor systems. Validate concepts for standoff monitoring of personnel for concealed weapons. Complete development of advanced sphere-based transparent armor for practical applications. Continue assessment and implementation of vehicle systems that will provide protection against chemical agents.

PHYSICAL SECURITY

	FY 2003	FY 2004	FY 2005
Accomplishment/Effort/Subtotal Cost	28.273	16.740	8.189

FY 2003 Accomplishments:

Conducted a CONUS operational evaluation of an advanced entry-point vehicle/driver identification system. Commenced development of an automated, portable, walk-through metal detector tester. Conducted a CONUS deployment and operational evaluation of vessel identification and positioning system for port security and initiated system integration with water- and land-based radar sources. Began development of inspection/screening guides for rail car explosives detection and for personnel screening at entry points. Initiated operational testing of a perimeter early warning and intruder detection system using standard visual and thermal imaging as well as motion detection. Commenced development of an integrated aerial and ground video monitoring system for perimeter security. Continued development of a prototype wireless tactical video surveillance system for perimeter intrusion detection. Continued development of a self-sustaining, industry-funded system for testing commercial intrusion detection devices. Continued development of a prototype perimeter intrusion detection system utilizing airport ground surveillance radar. Continued development of a light-weight, portable boom and underwater intrusion detection system to protect ships from underwater swimmers and small boats loaded with explosives. Completed market survey of video detection and assessment systems for identifying potential vehicle bombs near buildings. Commenced development of a blast simulator to test the effect of blast pressures on walls and columns without the use of explosives. Performed blast tests on redesigned and/or retrofitted structural (e.g., walls, columns, and floors) and non-structural (e.g., windows) building components to evaluate blast effects using conventional high explosives.

FY 2004 Plans:

Conduct an OCONUS operational evaluation of an advanced entry-point vehicle/driver identification system. Conduct an OCONUS deployment and operational evaluation of vessel identification and positioning system for port security. Conduct an evaluation of a commercial, automated, under-vehicle inspection system. Continue development of and demonstrate an automated, portable, walk-through metal detector tester. Develop and demonstrate a vehicle image recognition module for entry point screening. Publish and disseminate inspection/screening guides for rail car explosives detection and for personnel screening at entry points. Develop a handheld scanner using ground penetrating radar technology to detect metallic and non-metallic weapons on an individual. Continue development of an industry-funded, self-sustaining testing program for commercial intrusion detection systems. Manufacture and field test a light-weight, portable boom and underwater intrusion detection system to protect ships. Continue development of a prototype perimeter intrusion detection system utilizing airport ground surveillance radar. Continue development of an integrated aerial and ground video monitoring system for perimeter security. Complete development of a prototype wireless tactical video surveillance system for perimeter intrusion detection. Conduct an operational evaluation of video detection and assessment systems for identifying potential vehicle bombs near buildings. Improve structural designs and validate modeling simulations by performing blast tests on interior walls, columns, and other structural and non-structural components using conventional high

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explosives and enhanced novel explosives. Calibrate blast simulator to mimic the effects of enhanced novel explosives and conventional explosives at varying standoff distances and blast strengths.

FY 2005 Plans:

Investigate technologies and techniques to perform stand-off screening of vehicles and personnel for contraband to better protect screening personnel. Develop an improved, automated under-vehicle inspection system. Continue development of a perimeter security ground and aerial video monitoring system. Complete and demonstrate a prototype perimeter intrusion detection system utilizing airport ground surveillance radar. Develop a rapidly deployable wire barrier system (to establish temporary perimeters) and a rapidly deployable intrusion detection system (to protect high value and sensitive assets) for U.S. expeditionary forces. Support development of an integrated wide-area security system for airports and seaports. Transition a self-sustaining system for testing intrusion detection devices to private industry. Test walls, columns, and other structural elements of buildings with a blast simulator to produce high-quality, reproducible data for use in computer model validation. Identify relevant COTS blast mitigation technologies, test their applicability against conventional high explosives and novel enhanced explosives, certify results, and convert the information into useful engineering guidance and code.

SURVEILLANCE, COLLECTION, AND OPERATIONS SUPPORT

	FY 2003	FY 2004	FY 2005
Accomplishment/Effort/Subtotal Cost	12.051	15.133	7.206

FY 2003 Accomplishments:

Enhanced facial recognition technology for use in surveillance systems to better identify terrorists. Delivered intelligence analyst visualization tool for enhanced content analysis. Developed Multimedia Alert Processing System (MAPS) to monitor, collect and deconflict information from domestic and international broadcasts, especially where timeliness of the collected information is critical.

FY 2004 Plans:

Enhance monitoring of multimedia broadcast information. Continue to integrate facial recognition technology into surveillance systems. Continue to improve intelligence analyst automation tools for dealing with large volumes of data including video and audio and including speech technology aids. Improve the capabilities for clandestine collection and enhancement of video and audio surveillance. Continue development of tagging, tracking and locating and unattended ground sensors, including the development of the necessary communication links and power sources. Continue to improve name recognition technology and include facial recognition and speech technology as well as other biometrics to assist in identifying terrorists on a watchlist.

FY 2005 Plans:

Continue to integrate facial recognition technology into surveillance systems. Continue to improve intelligence analyst automation tools for dealing with large volumes of data including video and audio and including speech technology aids. Continue development of tagging, tracking and locating and unattended ground sensors, including the development of the necessary communication links and power sources.

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TACTICAL OPERATIONS SUPPORT

	FY 2003	FY 2004	FY 2005
Accomplishment/Effort/Subtotal Cost	7.622	13.986	5.222

FY 2003 Accomplishments:

Delivered first sets of production image intensifier tubes for install into existing night vision systems (small arms weapons and operator worn systems). Completed initial ammunition testing for an initial prototype advanced close quarter battle carbine. Completed testing and delivery of a wireless, low probability of intercept/detect communications system for high-speed assault craft. Completed the design of a fiber optic antenna extension to support remote positioning of the transmitter/receiver from antennas and began transition to production. Completed and delivered a prototype rifle-mounted video and thermal image display system. Completed a comprehensive evaluation of a broad range of hand-held radiation detection instruments using the latest ANSI standards. Initiated design for eye protective measures against hostile laser systems for high-powered binoculars and similar augmentation systems. Continued development of several new and innovative advanced breaching techniques and systems designed to support rapid breaching with reduced collateral damage. Continued to evaluate and assess emerging technologies, methods, and prototype systems that will support high-fidelity imaging through various wall construction techniques to support tactical decision-making. Initiated the development of an observation system that will locate sniper position based on the weapon muzzle flash. Using Congressional funding completed the first full-scale multi-agency field exercise in California to demonstrate interagency operation and inserted several emerging technology enablers. This exercise sets the stage for future exercises with different scenarios. Completed comprehensive tactical survey of selected high visibility installations for Navy Region Southwest to support the coordination of applicable response teams in reaction to a terrorist event, using Congressional funding.

FY 2004 Plans:

Complete fiber optic antenna system and begin evaluation of the system. Deliver advanced sensor fusion weapon sights. Continue development of small personal navigation system that will work in GPS-denied environments. Continue assessment and develop prototype systems that will support imaging through various construction walls in support of tactical decision-making. Conduct field evaluations and deliver prototype system that measures cross wind effect on projectile trajectory and provides aim point correction. Deliver advance lightweight combat helmet for SOF applications. Deliver reduced size and improved tactical communications systems for SOF applications.

FY 2005 Plans:

Standardize advanced breaching concepts that improve access time with reduced collateral damage. Deliver system that will support imaging through various construction walls in support of tactical decision-making.

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TRAINING TECHNOLOGY DEVELOPMENT

	FY 2003	FY 2004	FY 2005
Accomplishment/Effort/Subtotal Cost		2.424	1.800

FY 2004 Plans:

Develop training technologies, aids, devices, and simulations in support of the Global War on Terrorism. Design intelligent, open communication architectures, environments, tools, and services to enable the production and dissemination of combating terrorism mission support information and training. Develop Advanced Distributed Learning (ADL) training to support Management of Agricultural Biological Terrorism Incidents; Food Protection and Security for Critical and Overseas Facilities; CBRNE Awareness for DoD Installations; Combating Terrorism Operations; and CBRNE Installation Response Personnel. Develop training aids and devices to support fielded and transitioning TSWG technologies. Provide cross platform training delivery capabilities to enhance joint training across the Services. Field ADL training in support of WMD Laboratory Technicians; Small Watercraft Inspection Operations; Personnel Search Operations; Railway Inspection Operations; Suicide Bomber Awareness; and Psychological Aspects of WMD Incidents and Terrorism. Demonstrate the feasibility of providing critical skill sets to response personnel through integrated Federal and University developed training delivered via ADL technologies.

FY 2005 Plans:

Continue to develop Advanced Distributed Learning (ADL) delivery architectures and associated services to increase the promulgation of combating terrorism mission performance support and training. Continue to develop training aids and devices to support fielded and transitioning TSWG technologies. Develop ADL training in the areas of CBRNE counterterrorism awareness; command, control, and communications; force protection; medical surveillance and recovery; and consequence management. Develop ADL technologies to integrate interactive simulations with training and mission performance support capabilities.

PROGRAM MANAGEMENT

	FY 2003	FY 2004	FY 2005
Accomplishment/Effort/Subtotal Cost	8.340	6.754	3.683

FY 2003 Accomplishments:

Aligned existing and new program staff members to provide program management oversight and technical support for all CTTS R&D projects. Augmented the CTTS program office with contract, financial and security management personnel. Managed an additional \$38 million in funds from other agencies, and cooperative R&D programs with the United Kingdom, Canada and Israel. Established the interface to other government agencies for CTTS related initiatives and for continuing and new projects to reinforce interagency and international participation for the identification and prioritization of CTTS mission area requirements. Solicited via Broad Agency Announcement (BAA) for new projects and tasks based on prioritized requirements. Directed the program/project planning and execution for projects and associated contracts including the daily management and reporting for more than 280 separate contracts and tasks. Developed and implemented improvements for the automated approach to the BAA Information Delivery System (BIDS) solicitation process including the establishment of collaborative source evaluation and selection tools. Developed and implemented process improvement initiatives for procurement request tracking and a Business Information System database. Continued the planning, development and implementation of process efficiency

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and re-engineering initiatives, encompassing a complete review of CTTS mission area management and reporting responsibilities internal to the organization and in support of external reporting requirements.

FY 2004 Plans:

Provide program management oversight and technical support for all CTTS R&D projects including funds from other agencies and management of cooperative R&D programs with the United Kingdom, Canada and Israel. Establish new cooperative R&D agreements with Australia and Singapore. Act as the interface to other government agencies for CTTS related initiatives and continuing and new projects. Establish goals, objectives, and immediate revisions to plans that will reinforce interagency participation for the identification and prioritization of CTTS mission area requirements. Direct the program/project planning and execution of projects and associated contracts using direct and indirect budget allocations. Includes management and closeout of existing contracts and the solicitation for an increasing volume of new initiatives. Review and revise existing process and execution plans for CTTS mission area management and internal and external reporting responsibilities.

FY 2005 Plans:

Provide program management oversight and technical support for all CTTS R&D projects including funds from other agencies and management of cooperative R&D programs with the Australia, United Kingdom, Canada and Israel and Singapore. Act as the interface to other government agencies for CTTS related initiatives and continuing and new projects. Establish goals, objectives, and immediate revisions to plans that will reinforce interagency participation for the identification and prioritization of CTTS mission area requirements. Direct the program/project planning and execution for projects and associated contracts using direct and indirect budget allocations. Includes management and closeout of existing contracts and the solicitation for an increasing volume of new initiatives. Review and revise existing process and execution plans for CTTS mission area management and internal and external reporting responsibilities.

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