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OSD RDT&E BUDGET ITEM JUSTIFICATION (R2 Exhibit)

Date: February 2006

APPROPRIATION/ BUDGET ACTIVITY
RDT&E/ Defense Wide BA# 6

PE NUMBER AND TITLE

0605104D8Z - Technical Studies, Support & Analysis

Cost (\$ in Millions)	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
Total Program Element (PE) Cost	30.470	32.549	30.339	31.735	31.878	33.289	34.567
P421 Technical Studies, Support & Analysis	30.470	32.549	30.339	31.735	31.878	33.289	34.567

A. Mission Description and Budget Item Justification: This program is a primary source of funding for the Office of the Secretary of Defense and the Joint Staff for studies, analyses, management, and technical support efforts, to improve and support policy development, decision making, management and administration of DoD programs and activities. Studies and analyses will examine current and alternative policies, plans, operations, strategies and budgets, and are essential for understanding and gaining insight into the complex multifaceted international, political, technological, economic, military, and acquisition environments in which defense decisions and opportunities take place. With the persistently complex current security, threat, and economic environment, the need for objective analyses and forward looking planning for the middle and long-term is vital.

B. Program Change Summary	FY 2005	FY 2006	FY 2007
Previous President's Budget (FY 2006)	30.894	31.075	31.836
Current BES/President's Budget (FY 2007)	30.470	32.549	30.339
Total Adjustments	-0.424	1.474	-1.497
Congressional Program Reductions	-0.276	-0.591	
Congressional Rescissions			
Congressional Increases	1.000	2.000	
Reprogrammings			
SBIR/STTR Transfer	-0.724	-0.765	
Other	-0.424	0.830	-1.497

This program generally conducts over one-hundred fifty actions per fiscal year to support a wide variety of dynamic goals of the Department and is designed to encourage a collaborative research approach among the components of OSD and the Joint Staff. The focus of studies varies across a wide spectrum including weapons systems cost analysis, strengthening alliances, human resource and military personnel management, examination of innovative technologies, application of technology to operational doctrine, and many other issues of timely importance. Most of the actions are long to intermediate-range in outlook, so directly quantifiable measurements are difficult to obtain. However the program allows high-level managers to steer their research toward their highest-priority goals and other high-level guidance such as the President's Management Agenda and the National Security Strategy of the United States of America.

C. Other Program Funding Summary: Not Applicable.

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D. Acquisition Strategy: Not Applicable.

E. Performance Metrics: Not Applicable.

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B. Accomplishments/Planned Program:

Accomplishment/Planned Program Title	FY 2005	FY 2006	FY 2007
Technical Support to OSD and the Joint Staff: FY 2005 Program	29.470	0.000	0.000

Technical Support for USD(Acquisition, Technology & Logistics):

Studies and analyses of:

Aviation safety; tactical, strategic, and transport aircraft (including vertical lift capabilities); weapon systems acquisition; munitions requirements and technology development; munitions production industrial base capabilities; Unmanned Air Vehicle (UAVs) and Ground Vehicle technology development, employment, survivability, and integration; UAV electromagnetic spectrum requirements; laser weapons; land-attack weapons capabilities; Joint Battle Management Command and Control; Radio Frequency Tag capabilities; Time Sensitive Targeting analysis and precision engagement capabilities; capability area reviews of strike capabilities; high-energy weapons; directed energy weapons; minimally-manned vehicles; net-centric operations; common naval systems modular component development and outfitting; fuel cell propulsion systems; the naval systems resource base; scientific and engineering capabilities; Civil Reserve Air Fleet and third-party logistics providers' capabilities; inventory and repair cost modeling; numerous Defense Science Board Task Forces; various capability area industrial base assessments; developing means to integrate innovative technology solutions; global shipbuilding; semiconductors; space launch modernization; the solid rocket motor industry; merger and acquisition reviews; transformation and European defense industries; international cooperative R&D analysis and planning; NATO relations, logistical capabilities, and alliance management; acquisition management and cost assessments; improving technology development from small businesses; software engineering best practices; reducing risks of foreign technology transfer and disclosure; various quality of life and environmental management issues for defense installations; and hazard reduction and strengthening of force protection for DoD installations

Technical Support for the Director, Program Analysis & Evaluation:

Studies and analyses regarding the following areas:

Optimizing resource allocation decisions; weapons system cost estimates and life cycle costs; long-term trends, health, and affordability of the defense program; force and manpower issues; alternative weapons systems and system configurations; DoD Capabilities-Based Planning; integrated air and space architectures; the impact on US force structure of PERSTEMPO and OPTEMPO; integration of C4ISR persistence surveillance, intelligence collection, and rapid strike capabilities; space systems survivability; functioning in access-denial environments; Ground Moving Target Indicator (GMTI) and cruise missile defense sensor systems; naval expeditionary strike capabilities; airborne electronic attack capabilities; transport aircraft modernization requirements; pre-positioned equipment and mobility capabilities of forward-based forces; homeland defense capabilities; medical readiness; and global basing strategy and forward basing requirements

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Technical Support for the USD(Policy):

Studies and Analyses in the following areas:

Regional threat analyses; special operations forces; allied burdensharing; strategic planning; homeland defense and counterterrorism; WMD defense; regionally-focused studies; space policy and strategic force capabilities; and sponsorship of studies at regional centers concerning the war on terrorism

Technical Support for the USD(Personnel & Readiness):

Studies and analyses in the following areas:

Military and civil service positions mix; military advertising and recruiting; medical readiness; the military retirement system; educational and other military family issues; reserve retention; emerging language requirements; human resource management systems integration; distance-learning and training programs; and impact mitigation to employers of reservist mobilization

Technical Support for the ASD (Networks & Information Integration) and USD(Intelligence):

Studies and analyses of:

Net centric operations and communications architectures; Intelligence, Surveillance and Reconnaissance capabilities; Global Information Grid (GIG) core services in disadvantaged operating environments; mobile ad hoc networking technologies; MASINT capabilities; defense warning capabilities; improving intelligence support to post-major combat transition operations; and human intelligence and counterintelligence capabilities

Technical Support for the Joint Staff:

Studies and analyses supporting joint personnel management; operational analysis; joint communications and intelligence capabilities; and integration of defense acquisition with the Joint Capability Integration and Development System

Accomplishment/Planned Program Title	FY 2005	FY 2006	FY 2007
Technical Support to OSD and the Joint Staff: FY 2006 Plans	0.000	30.549	0.000

Technical Support for USD(Acquisition, Technology & Logistics):

Studies and analyses regarding the following issues:

Strategic and tactical aircraft capabilities; munitions capabilities and evolving requirements; Unmanned Aerial and Ground Systems; global surveillance capabilities; weapons systems development roadmaps; undersea warfare capabilities; net centric warfare; stealth capabilities; naval systems capabilities and fleet-wide technology implementation opportunities; the naval, land, air, and space engineering and industrial base; sustaining component suppliers for DoD; logistics, maintenance, and supply-chain operations; transatlantic industrial relations and cooperation; DoD war material reserves; chemical demilitarization; support to numerous Defense Science Board task forces; Allied defense initiatives and alliance management and interoperability; technology transfer risks; acquisition review support for weapons systems; use of earned value management; DoD environmental and installation management issues; reducing safety hazards to personnel and platforms; small business leadership and technology development; and transfer of technology from small businesses to Major Defense Acquisition Programs

Technical Support for the Director, Program Analysis & Evaluation:

Studies and analyses regarding the following areas:

Software development requirements; replacement options for strategic missile systems; joint air dominance including tanker requirements; weapons system cost estimates and life cycle costs ; long-term trends, health, and affordability of the defense program; army force and manpower issues; DoD Capabilities-Based Planning; integrated air and space architecture; the impact of PERSTEMPO and OPTEMPO; access-denial environments; electronic attack capabilities; mobility capabilities; homeland defense capabilities; integration of intelligence, surveillance, and reconnaissance capabilities; capabilities-based

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operational availability planning

Technical Support for the USD(Policy):

Studies and Analyses in the following areas among others:

Regional threat analyses; the Global War on Terrorism and WMD threats; alternative defense budgets and options; dealing with failed states and stabilization and counterinsurgency capabilities; global peace operations; ballistic missile defense; force structure and basing alternatives; security cooperation; and strategic and space capabilities

Technical Support for the USD(Personnel & Readiness):

Studies and analyses in the following areas:

Military and civil service positions mix; effects of the National Security Personnel System; civilian and military advertising and recruiting; medical readiness; the military retirement system; educational and other military family issues; the effects of OIF on reserve retention and recruiting; emerging language requirements; human resource management systems; distance-learning and training programs; and impact mitigation to employers of reservist mobilization

Technical Support for the ASD (Networks & Information Integration) and USD(Intelligence):

Studies and analyses of:

Net centric operations and communications architectures; SATCOM and imagery requirements; Intelligence, Surveillance and Reconnaissance capabilities; Global Information Grid (GIG) capability improvement; mobile ad hoc networking technologies; MASINT capabilities; defense warning capabilities; improving intelligence support to post-major combat transition operations; and counter-terrorism related intelligence collection capabilities

Technical Support for the Joint Staff:

Studies and analyses supporting joint personnel management; QDR-directed taskings regarding operational analysis; counter-terrorism and force protection; prevention and interdiction of acquisition of WMD by terrorist organizations; joint communications and intelligence capabilities; and Global Broadcast System broadcast capabilities

Accomplishment/Planned Program Title

FY 2005

FY 2006

FY 2007

Technical Support to OSD and the Joint Staff: FY 2007 Plans

0.000

0.000

30.339

Technical Support for USD(Acquisition, Technology & Logistics):

Studies and analyses regarding the following issues:

Strategic and tactical aircraft capabilities; munitions capabilities and evolving requirements; Unmanned Aerial and Ground Systems; global surveillance capabilities; weapons systems development roadmaps; undersea warfare capabilities; net centric warfare; stealth capabilities; naval systems capabilities and fleet-wide technology implementation opportunities; the naval, land, air, and space engineering and industrial base; sustaining component suppliers for DoD; logistics, maintenance, and supply-chain operations; transatlantic industrial relations and cooperation; DoD war material reserves; chemical demilitarization; support to numerous Defense Science Board task forces; Allied defense initiatives and alliance management and interoperability; technology transfer risks; acquisition review support for weapons systems; use of earned value management; DoD environmental and installation management issues; reducing safety hazards to personnel and platforms; small business leadership and technology development; and transfer of technology from small businesses to Major Defense Acquisition Programs

Technical Support for the Director, Program Analysis & Evaluation:

Studies and analyses regarding the following areas:

Software development requirements; replacement options for strategic missile systems; joint air dominance including tanker requirements; weapons system cost estimates and life cycle costs ; long-term

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trends, health, and affordability of the defense program; army force and manpower issues; DoD Capabilities-Based Planning; integrated air and space architecture; the impact of PERSTEMPO and OPTEMPO; access-denial environments; electronic attack capabilities; mobility capabilities; homeland defense capabilities; integration of intelligence, surveillance, and reconnaissance capabilities; capabilities-based operational availability planning

Technical Support for the USD(Policy):

Studies and Analyses in the following areas among others:

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Accomplishment/Planned Program Title

FY 2005

FY 2006

FY 2007

Congressional additions

1.000

2.000

0.000

Congressional addition for Capabilities Study for IED Detection (\$1M in FY 2006) and Congressional addition for NDU technology Pilot Program (\$1M in FY 2005 and FY 2006)

C. Other Program Funding Summary: Not Applicable.**D. Acquisition Strategy:** Not Applicable.

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E. Major Performers Not Applicable.

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