

JOINT STAFF
FY 2005 Budget Estimates
Research, Development, Test, and Evaluation (RDT&E), Defense-Wide

Exhibit R-2, RDT&E Budget Item Justification

Exhibit R-2, RDT&E Budget Item Justification									Date: February 2004	
APPROPRIATION/BUDGET ACTIVITY					R-1 ITEM NOMENCLATURE: 115					
RDT&E, Defense Wide, Joint Staff 0400 / BA 6					0605126J Joint Theater Air and Missile Defense Organization (JTAMDO)					
COST (\$ in Millions)		FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	Cost to Complete	Total Cost
Total PE Cost		74.905	85.078	86.409	80.694	54.584	55.674	56.729	Continuing	Continuing
<p>A. <u>Mission Description and Budget Item Justification:</u> Joint Theater Air and Missile Defense Organization (JTAMDO) is the organization within the Department of Defense chartered to plan, coordinate, and oversee Joint Air and Missile Defense (AMD) requirements, joint operational concepts, operational architectures, and development of the Joint Integrated Air and Missile Defense (IAMD) roadmap, and which, as part of the CJCS staff, provides the Chairman's support in meeting his Title 10 responsibilities. JTAMDO is responsible for evaluating systems and emerging technologies through analyses, simulations, and demonstrations in order to determine capability deficiencies and to define and refine desired characteristics and capabilities, concepts, architectures, improve weapon system performance and to determine the optimum mix of surveillance, fire control systems and associated battle management system to counter aircraft, cruise missile and ballistic missile threats. The JTAMDO also serves as the operational community's proponent for characteristics, requirements and capabilities in air and missile defense, and is the joint air and missile defense resource proponent within the Department's resource allocation structures; leads AMD mission area and utility analysis; conducts evaluations and demonstrations of joint air defense architectures and concepts.</p> <p>In its critical role of integration for AMD architectures, JTAMDO also coordinates the funding for the Joint Distributed Engineering Plant (JDEP) that provides distributed architecture for AMD systems located around the country to facilitate integration and development work. JDEP is imperative for creating interoperable Joint Task Forces. Additionally, JTAMDO supports development of Joint cruise missile combat identification (CID) technology for fielding in front-line weapons systems as well as operator in-the-loop activities at the Virtual Warfare Center (VWC). The VWC is DoD's only means to quantify Joint Single Integrated Air Picture (SIAP) and CID characteristics and capabilities. In an effort to identify joint solutions to surveillance and command and control challenges, the Director of The Joint Staff designated JTAMDO as the Joint Staff lead for Interagency Homeland Air Security (IHAS) issues, working in close cooperation with USNORTHCOM, NORAD, Services, Federal Aviation Administration, Department of Homeland Security, and the Office of Homeland Security. An increase in FY 2004-2006 funding as a result of JTAMDO's DPG-directed Cruise Missile Defense (CMD) study provides R&D funding to demonstrate advanced sensor technologies for air surveillance of the U.S. Fills a critical operational void in NORAD's ability to monitor U.S. airspace and conduct its air defense mission. Also supports demonstration of technology for identification of terrorist air attack, Interagency information and intelligence sharing, and decision aids. Effective 6 May 2003, JTAMDO reorganized to better assume this new role in homeland defense and continues supporting AMD activities. Accordingly, the organizational structure and budget was revised to facilitate this update in mission and structure. This program is in Budget Activity 6, because it performs general support of RDT&E activities.</p>										

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<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>Description</u>	
19.055	-	-	JTAMDO budget formerly included Joint Theater Air and Missile Defense (JTAMD), Force Structure, Resources and Assessments, Combatant Commanders Requirements and Liaison, Architecture and Requirements Analysis. Due to the 2003 JTAMDO reorganization, these elements were internally restructured to the divisions listed below.	
-	8.382	8.565	<u>JTAMDO Operations</u> . Strategic planning development, infrastructure, security, travel, administrative and other support activities. Funding pays for: Contractor SETA support for ACMD, BMD, and HAS strategic planning, senior level briefings, and JTAMD white papers; leased office space and including all upkeep services; all travel costs for government and contractor support personnel, including support for Combatant Commander liaison personnel travel; multiple levels of security including lease support of a JWICS communications line and SCI terminals (due to the classified nature and the diverse content of work in the JTAMDO portfolio); 24 hour physical security force and alarm monitoring and maintenance; daily on-site security personnel to meet DoD, NISPOM, and other security regulations; for all administrative and support functions; all associated IT support, copier purchase and maintenance, as well as basic office supplies and furniture; all telephones, telephone lines, classified telephones, and classified/unclassified data connections.	
-	3.202	3.477	<u>Ballistic Missile Defense Systems (BMDS)</u> . Supports the President's initiative for ballistic missile defense of the U.S. Provides the Chairman and the Joint Requirements Oversight Council (JROC) the ability to meet statutory responsibilities to review the cost, schedule and performance criteria of Missile Defense programs of Missile Defense Agency (MDA) and assess the validity of those criteria in relation to national and military requirements. Includes JTAMDO sponsored war gaming analysis at the Joint National Integration Center (JNIC) in Colorado Springs to test and validate concepts for ballistic missile defense of the U.S. At the request of U.S. Strategic Command, and at the direction of the Chairman CJCS, JTAMDO acts as the Executive Agent for STRATCOM in the conduct of Military Utility Assessments of the Ballistic Missile Defense System. Develops and validates a missile defense operational architecture to support system developers.	

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<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>Description</u>
-	0.811	0.829	<u>Air & Cruise Missile Defense (ACMD)</u> . Joint Staff lead responsibility for air and cruise missile defense systems to support the Combatant Commanders (COCOMs). Includes performing analyses, demonstrations, and programmatic assessments of ACMD technology, operations, requirements, and weapon systems. In support of requirements and acquisition decisions, for example, the radar and weapon capability requirements of the combined Patriot MEADS program; studies of the mix of land, sea-, and air-based surveillance and fire control sensors for air and missile defense to support JPG and POM 2006 decisions.
-	4.048	4.137	<u>Operational Concept, Architecture and Interoperability Development</u> . Leads the development and approval of Joint AMD Operational Concepts and Operational Architectures, leveraging JTAMDO's analysis activities. Supports interoperability initiatives such as SIAP and Joint Distributed Engineering Plant (JDEP). Conducts architectural analyses on Joint BMC2 functionality to support requirements and acquisition decisions on the combined Patriot MEADS program.
-	3.855	3.940	<u>Requirements, Exercises & Liaison</u> . Responsible for tracking air and missile defense programs and budget issues as a representative of the Combatant Commanders (COCOMs). Ensures COCOM Integrated Priority List/Joint Military Readiness Reports (JMRR) priorities are integrated into air and missile defense initiatives, issues, and activities. Develops U.S. positions for, and serves as U.S. representative to the NATO Air Defense Committee. Develops/integrates Joint exercise initiatives for inclusion in COCOM exercises and provides funding to insure COCOM objectives are met and to enable their participation. Manages Congressional interaction, executes JTAMDO COCOM Liaison Officer mission and all air and missile defense-related intelligence activities.
-	0.608	0.622	<u>Homeland Air Security (HAS)</u> . Responsible for DoD involvement in homeland air security coordination. Perform analyses, demonstrations, and programmatic assessments of HAS operations, technology, requirements, and surveillance and weapon systems. Supports HAS initiatives in (COCOM) exercises. Serves as Co-Chair IHAS Steering Group and supports NORTHCOM on Homeland Security and Homeland Defense.
9.792	8.881	9.458	<u>Joint Distributed Engineering Plant (JDEP)</u> . Evaluates and improves interoperability by establishing a nationwide, hardware and software in the loop simulation capability that allows fielded combat weapon systems to operate in a synthetic joint air and missile defense environment. Insures weapon systems can validate their Joint interoperability

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			prior to operational deployment or fielding. Minimizes the impact on operational forces support for RDT&E activities.	
17.426	10.884	7.073	<u>Virtual Warfare Center (VWC)</u> . Enhances VWC capability by adding representations of new weapons platform models to conduct Single Integrated Air Picture (SIAP) and CID requirements and concepts analysis at the force-on-force level. Integrate Cruise and Ballistic Missile Requirements and Ops Concept Analysis through federation with simulation capabilities at the Joint National Integration Center, Schriever AFB, Colorado.	
22.614	19.264	15.308	<u>Cruise Missile Combat Identification (CID)</u> . Develops joint cruise missile CID technology and positions it for fielding on front-line weapon systems.	
6.018	25.143	33.000	<u>Homeland Air Security (HAS)</u> . Reduce HAS risk by developing and testing a surface based, advanced technology surveillance radar for use throughout the United States, designing lightweight, long range radar components suitable for use on a stratospheric airship, and by funding initial Interagency C3 studies, operator-in-the-loop exercise support, and advanced sensor and correlation evaluation efforts.	
TOTAL	\$74.905	\$85.078	\$86.409	
B. Program Change Summary:				
	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	
FY 2004 President's Budget	68.887	87.250	86.631	
Adjustments				
Congressional Reduction				
General Congressional Reductions		(1.222)	(0.222)	
Internal Reprogramming		(0.950)		
Homeland Air Security	6.018			
FY 2005 Budget Estimate	74.905	85.078	86.409	
C. Other Program Funding Summary				
Procurement Defense-Wide	0.185	0.184	0.185	
D. Acquisition Strategy: Not required for Budget Activities 1, 2, 3, and 6.				