

**JOINT STAFF**  
**FY 2006/2007 Budget Estimates Submissions**  
**Research, Development, Test, and Evaluation (RDT&E), Defense-Wide**

**Exhibit R-1, RDT&E Programs**

Exhibit R-2, RDT&E Budget Item Justification									Date: February 2005	
APPROPRIATION/BUDGET ACTIVITY RDT&E, Defense Wide, Joint Staff/BA 6					<b>R-1 ITEM NOMENCLATURE 124</b> 0605126J Joint Theater Air and Missile Defense Organization (JTAMDO)					
COST (\$ in Millions)	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY2011	Cost to Complete	Total Cost
Total PE Cost	85.505	84.411	81.504	55.045	56.213	57.324	58.721	60.146	Continuing	Continuing
<p>A. <u>Mission Description and Budget Item Justification:</u> The Joint Theater Air and Missile Defense Organization (JTAMDO) is the organization within the Department of Defense (DOD) 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 systems 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 DOD's resource allocation structures; leads AMD mission area and utility analysis; and 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 weapon 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 FY04-06 funding as a result of JTAMDO's Defense Planning Guidance (DPG)-directed Cruise Missile Defense (CMD) study provides RDT&amp;E funding to demonstrate advanced sensor technologies for air surveillance of the U.S. Additionally, the increase fills a critical operational void in NORAD's ability to monitor U.S. airspace and conduct its air defense mission, and supports the 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 continued supporting AMD activities. Accordingly, the organizational structure and budget was revised to facilitate this update in mission and structure. Other major accomplishments included supporting USJFCOM in developing the first update, Revision 1, to the Theater Air and Missile Defense (TAMD) Capstone Requirements</p>										

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<p>Document (CRD); the development of a long-range JDEP plan; and development of an integrated TAMD architecture, with special emphasis to support the Patriot Advanced Capability-3/ Medium Extended Air Defense System (PAC-3/MEADS) merge. Major IHAS initiatives include development of a HAS Air Security Operational Concept and Architecture, the National Capital Region (NCR) Demonstration effort, the establishment and execution of a NCR Coordination Center, development of a NCR Demo-Correlator Study Plan and Man-Portable Air Defense Systems. JTAMDO has developed an assessment of integrated battle management and C2 requirements that will serve as the basis of a Joint IAMD Roadmap. JTAMDO is currently supporting the Under Secretary of Defense for Acquisition, Technology and Logistics in developing the Air and Missile Defense Roadmap.</p>		

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FY 2004	FY 2005	FY 2006	FY 2007	Description
21.405	21.570	22.002	22.590	<p><u>JTAMDO</u>. Strategic planning development, infrastructure, security, travel, administrative and other support activities. Funding pays for: Contractor Systems Engineering and Technical Assistance (SETA) support for Air &amp; Cruise Missile Defense (ACMD), BMD, HAS strategic planning, senior level briefings, and JTAMD white papers; leased office space, 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 Joint Worldwide Intelligence Communications System (JWICS) communications line and Special Compartmented Information (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, National Industrial Security Program Operating Manual (NISPOM), and other security regulations; for all administrative and support functions; all associated Information Technology (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.</p> <p>Ballistic Missile Defense System Supports the President's initiative for ballistic missile defense of the U.S. Provides the Chairman, JCS 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 the 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), Schriever AFB, Colorado to test and validate concepts for ballistic missile defense of the U.S. At the request of USSTRATCOM, and at the direction of the Chairman, JCS, JTAMDO acts as the Executive Agent for USSTRATCOM in the conduct of Military Utility Assessments of the BMDS. Develops and validates a missile defense operational architecture to support system developers.</p>

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				<p>Air &amp; Cruise Missile Defense. Joint Staff lead responsibility for air and cruise missile defense systems to support the 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 Joint Planning Guidance (JPG) and Program Objective Memorandum (POM) FY 2006-2011 decisions.</p> <p>Operational Concept, Architecture and Interoperability Development. 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 JDEP. Conducts architectural analyses on Joint BMC2 functionality to support requirements and acquisition decisions on the combined Patriot MEADS program. Works closely with the Office of the Secretary of Defense (OSD), COCOMs, Services and Agencies in the development of Roadmaps and Integrated Architectures for AMD.</p> <p>Requirements, Exercises &amp; Liaison. Responsible for tracking air and missile defense programs and advocating cruise missile, ballistic missile, and homeland air security budget issues as a representative of the 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 the U.S. representative to the NATO Air Defense Committee. Develops and integrates Joint exercise initiatives for inclusion into theater exercises to enable COCOM participation and ensure COCOM objectives are met. Manages Congressional interaction, executes JTAMDO COCOM Liaison Officer mission and all air and missile defense related intelligence activities.</p>

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				Homeland Air Security. Responsible for DOD involvement in homeland air security coordination. Performs 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 USNORTHCOM on Homeland Security and Homeland Defense.
8.881	7.460	5.670	7.468	<u>Joint Distributed Engineering Plant</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. Ensures weapon systems can validate their joint interoperability prior to operational deployment or fielding. Minimizes the impact on operational forces support for RDT&E activities.
0.000	7.073	6.098	6.151	<u>Virtual Warfare Center</u> . Enhances VWC capability by adding representations of new weapons platform models to conduct 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 JNIC, Schriever AFB, Colorado.
19.264	15.308	15.487	15.816	<u>Cruise Missile Combat Identification</u> . Develops joint cruise missile CID technology and positions it for fielding on front-line weapon systems.
.608	33.000	27.500	0.000	<u>Homeland Air Security</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.