

**JOINT STAFF**  
**FY 2004/FY 2005 Biennial 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 2003	
APPROPRIATION/BUDGET ACTIVITY					R-1 ITEM NOMENCLATURE					
RDT&E, Defense Wide, Joint Staff/BA 6					0605126J Joint Theater Air and Missile Defense Organization (JTAMDO)					
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	Cost to Complete	Total Cost
Total PE Cost	26.678	68.887	87.250	86.631	80.926	54.718	55.713	56.279	Continuing	Continuing
<p>A. Mission Description and Budget Item Justification: 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, and operational architectures, 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, and improve weapon system performance. The JTAMDO functions include: serve as the operational community's proponent for characteristics and capabilities in air and missile defense; serve as the joint air and missile defense resource proponent within the Department's resource allocation structures; lead AMD mission area analysis; conduct evaluations and demonstrations of joint air defense architectures and concepts; monitor the research, development, acquisition, and demonstration activity associated with the Service and Agency AMD programs; recommend to the Joint Requirements Oversight Council (JROC) and Under Secretary of Defense for Acquisition, Technology and Logistics characteristics and capabilities, technologies, architectures, and concepts that should be developed and fielded; and support the development and maintenance of the documents that codify characteristics and capabilities, and assessments of current and future capabilities. Joint Distributed Engineering Plant (JDEP) is designed to improve the Joint interoperability of weapon systems and platforms through more rigorous testing and evaluation in a replicated battlefield environment. JDEP is imperative for creating interoperable Joint Task Forces. It provides the capability to identify interoperability problems in legacy systems, to certify Joint Task Forces prior to deployment, and to check interoperability early in the development of new systems. Planned funding from FY 2004 through FY 2009 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 and the Services. An increase in FY04-06 funding as a result of JTAMDO's DPG-directed Cruise Missile Defense (CMD) study provides an initial risk reduction effort for homeland air security (HAS) technology programs, and supports development of initial interagency procedures. This program is in Budget Activity 6, because it performs general support of RDT&amp;E activities.</p>										

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<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>Description</u>
3.405	3.400	3.354	3.374	<u>JTAMDO Operations</u> . Fund office lease, equipment, training, security, facility maintenance, administrative support, information technology support, and travel management support.
2.745	2.740	2.702	2.720	<u>Architecture and Requirements Analysis</u> . Validate proposed Joint Theater Air and Missile Defense (JTAMD) operational concepts through a rigorous process of analysis, simulation, and demonstration. These validated operational concepts are provided to doctrinal authorities for implementation. Provide analytical foundation and approval of joint air and missile defense interoperability characteristics and capabilities; analyze and verify key performance parameters and requirements for the JROC approval.
2.467	2.462	2.429	2.444	<u>Combatant Commanders Requirements and Liaison</u> . Support the development, integration and approval of joint air and missile defense characteristics and capabilities. Interface directly with combatant commanders, NATO, and other allies, friends, and coalition partners in order to provide an integrated assessment of desired characteristics and capabilities. Provide assessments of threat aircraft, missile and UAV capabilities.
3.402	3.395	3.350	3.371	<u>Operational Concept, Architecture and Interoperability Development</u> . Lead the development and approval of JTAMD Operational Concepts, Operational Architectures leveraging JTAMDO architecture and requirements and other analysis activities. Support interoperability initiatives such as SIAP and Joint Distributed Engineering Plant (JDEP).
1.376	1.373	1.355	1.363	<u>Force Structure, Resources and Assessments</u> . Assess potential military utility during the development and transition phases of the Ballistic Missile Defense Systems (BMDS) and its elements. Conduct PPBS assessments in support of Chairman's Program Recommendations (CPR), Chairman's Program Assessment (CPA), Defense Planning Guidance (DPG), Program and Budget review of air and missile defense issues. Resolve near-term air and missile defense issues. Support the development of JTAMD capabilities and initiatives through analysis and assessment of affordability tradeoffs of current and emerging JTAMD capabilities to provide a capabilities roadmap for the future.
3.283	3.277	3.233	3.252	<u>Joint Theater Air and Missile Defense (JTAMD)</u> . Lead and manage the JTAMD process a collaborative process with the Combatant Commanders, Services and Agencies to address Air and Missile Defense issues. Provides for the collaborative process including Service and Combatant Commander participation in analysis, war-gaming, and demonstration support.

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0	2.446	4.982	5.038	<u>Ballistic Missile Defense Systems (BMDS)</u> . Supports the Chairman and the Joint Requirements Oversight Council (JROC) in meeting statutory responsibilities in reviewing the cost, schedule and performance criteria for Missile Defense programs of Missile Defense Agency (MDA) and assess the validity of those criteria in relation to military requirements. Develop BMDS characteristics and capabilities documents including the operational concept for missile defense, conduct BMDS studies, represent the Joint Staff in BMDS related activities and coordinate war fighter efforts with MDA. Conduct JTAMDO sponsored wargaming analysis at the Joint National Integration Center (JNIC) in Colorado Springs to test and validate operational concepts. Develop and validate a missile defense operational architecture to support system developers.
10.000	9.782	9.769	9.688	<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. Minimizes the impact on operational forces support for RDT&E activities.
0	17.413	11.039	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 JNIC.
0	22.597	19.538	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.
0	0	12.500	15.000	<u>Stateside Affordable Radar System (STARS)</u> . Reduce Homeland Air Security (HAS) risk by developing and testing a surface based, passive, bi-static, surveillance radar for use throughout the United States.
0	0	5.000	10.000	<u>High Altitude Airship Sensor Development</u> . Reduce HAS risk by designing lightweight, long range radar components suitable for use on a stratospheric airship.
0	0	8.000	8.000	<u>National Capital Region (NCR) Demonstration</u> . Reduce HAS risk by funding initial Interagency C3 studies, operator-in-the-loop exercise support, and advanced sensor and correlation evaluation efforts focused on the NCR.
<b>26.678</b>	<b>68.887</b>	<b>87.250</b>	<b>86.631</b>	<b>Total</b>

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<b>B. Program Change Summary:</b>				
	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>
FY 2003 President's Budget	26.678	72.919	63.210	55.356
Total Adjustments				
Congressional Reduction	0	(2.500)	0	0
General Congressional Reductions	0	(0.968)	0	0
Reprogramming	0	(0.564)	(1.460)	(1.725)
Homeland Air Security	0	0	+25.500	+33.000
FY 2004 Budget Estimate	26.678	68.887	87.250	86.631
<b>C. Other Program Funding Summary:</b>				
	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>
Procurement Defense-Wide	0.185	0.185	0.184	0.185
<b>D. Acquisition Strategy: Not required for Budget Activities 1, 2, 3, and 6.</b>				