

# UNCLASSIFIED

FY 2001 RDT&E,N BUDGET ITEM JUSTIFICATION SHEET

DATE: February 2000

BUDGET ACTIVITY: 3

PROGRAM ELEMENT: 0603727N

PROGRAM ELEMENT TITLE: Joint Experimentation

PROJECT NUMBER & TITLE	FY 1999 ESTIMATE	FY 2000 ESTIMATE	FY 2001 ESTIMATE	FY 2002 ESTIMATE	FY 2003 ESTIMATE	FY 2004 ESTIMATE	FY 2005 ESTIMATE	TO COMPLETE	TOTAL PROGRAM
R2497 Joint Warfighting Experimentation	*33,900	43,498	49,506	53,660	63,737	64,020	64,403	CONT.	CONT.

\*Is being executed through OSD P.Es. in FY 1999.

(U) MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION: The Chairman of the Joint Staff's Joint Vision (JV) 2010, the Services' 21st Century visions and the Revolution in Military Affairs (RMA) all stress the critical role technology and Joint operational concepts will play in meeting the needs of future Joint Force Commanders and achieving full spectrum force dominance. On 15 May 1998 the Secretary of Defense appointed Commander in Chief, United States Atlantic Command (CINCUSACOM) as the Department of Defense Executive Agent for Joint Experimentation (JE), effective 1 October 1998. Effective 1 October 1999 CINCUSACOM was redesignated as Commander in Chief, Joint Forces Command. The JE mission is to identify, explore and develop concepts and capabilities needed to maintain current dominance and achieve significant advances in future Joint Warfighting capabilities. This Program Element directly supports that initiative. It provides funding to continue discovering, developing, analyzing and experimenting on new joint operational concepts which are key to meeting future military challenges. This effort will result in recommending Doctrine, Organization, Training, Material, Leadership, and Personnel (DOTMLP) changes to the Chairman of the Joint Chiefs of Staff and Secretary of Defense to enhance future joint service operational capabilities. United States Atlantic Command (USACOM) (now Joint Forces Command) received policy direction and technical guidance for executing the JE Program from the Secretary of Defense, Assistant Secretary of Defense for Strategy and Threat Reduction (ASD(S&TR)), Chairman of the Joint Chiefs of Staff and the 1999 Defense Planning Guidance.

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The sense of the Congress in the FY 98 Authorization Conference Report (H.R.3161) articulated the need for JE under the sponsorship of a Combatant Commander in order to integrate advances in technology and foster innovation to address future national security challenges. Joint Forces Command (JFCOM) has developed a Campaign Plan in support of the Secretary of Defense's JE Charter. Campaign plans are updated and released annually. Each campaign plan is intended to build upon, expand on and capture the lessons learned from previous years' efforts. Generally, the focus of the Campaign Plan is on three main objectives. First is experimentation on how off-the-shelf technologies can be used to enhance current platforms and concepts of operations. Second is to focus experimentation on implementing the objectives of JV 2010. The third objective is to examine potentially revolutionary operational concepts and their supporting technologies in the continuation of exploring the implications of technology and the RMA.

(U) The JE program funds experiments and supporting wargames, studies and simulations to evaluate potential systems, supporting concepts and their contributions toward achieving the JV 2010 and RMA objectives. The objective is to develop and assess innovative concepts and leap-ahead technologies that can generate the best value added capabilities to enhance joint warfighting. One principal objective in this endeavor is to develop an extensive and inclusive community to support and participate in the JE program. This list includes the Combatant Commands, the Services, Department of Defense (DoD) and other Defense Agencies. It will also include industry and academic organizations which can contribute to the transformation of the U.S. military force. The effort will be focused on the development and execution of the JV 2010 concepts of Information Operations (IO), Dominant Maneuver (DM), Precision Engagement (PE), Full Dimensional Protection (FDP) and Focused Logistics (FL) as well as other concepts outlined in the Defense Planning Guidance (DPG). The Advanced Battlespace Information System (ABIS) Task Force produced the most comprehensive assessment, vision and strategy to date for achieving the requisite grid, technologies, and concepts to make JV 2010 possible. The 1999 edition of the Joint Warfighting Science and Technology Plan (JWSTP) provided to Congress in compliance with the Fiscal Year 1997 Defense Authorization Act (Section 270) presents the technology investment plan consistent with JV 2010 and the ABIS recommendations. The JWSTP defines and maps the requisite technology development and Advanced Concept Technology Demonstrations (ACTDs) to enable Information Superiority. The effort funded in this Program Element enables the joint warfighter and evolving Alliance of Battle Laboratories to work in

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conjunction with the CINCs and DoD Agencies as an integrated team with the objective to experiment with and quantify the impact of the ABIS/JWSTP information technologies and concepts, co-evolve organization and doctrine to optimize the Joint and Service Warfighting mission. JFCOM will establish and deploy this integrated environment with Commercial Off the Shelf (COTS) hardware and existing software (COTS, Government Off the Shelf (GOTS), and applications), incurring minimal cost in set-up and operation.

(U) Joint Experiments will rely on both advanced distributed simulation and limited live command post exercises that are examining future concepts. This effort will leverage, to the maximum extent possible, the DOD's significant investment in modeling and simulation Distributed simulations also require a robust network to interconnect the various locations, Services and Agencies. Often times, these simulations press the state of the art in networking capability. To support joint experiments and other bandwidth intensive applications such as video teleconferencing and high definition television, an Information Technology Backplane (ITB) has been established as part of the JFCOM JE program. The ITB is a virtual network capitalizing on existing physical networks such as the Defense Information System Network (DISN), the Defense Information Systems Agency (DISA)-Defense Advanced Research Project Agency (DARPA) Leading Edge Services Network, and the experimental ATD net. The 21<sup>st</sup> Century Challenges roadmaps prepared by the Joint Staff identify a number of existing technical efforts that have the potential to feed Joint Experiments. JE funding is providing the means to change the scope of a technical demonstration to support experiments and implement the Joint Staff recommendations.

(U) This program element is in direct response to the FY 1997 Authorization Act Report 104-267, which calls for "...a process to ensure that the emerging long-term visions of each of the Services will be melded into an affordable, coordinated series of operational concepts that will drive the Joint Warfighting Science and Technology Program (JWSTP) developed in the office of the Director, Defense Research and Engineering (DDR&E)" and FY 1998 Authorization Act Report 105-29 which requests a JE Plan to address: "how the fielding of advanced technologies are being synchronized across the military services" and "...how Command, Control, Communications, and Computers (C4) and Intelligence, Surveillance and Reconnaissance (ISR) capabilities are being integrated jointly to achieve information superiority." The National Defense Authorization Act for Fiscal Year 1999 (105-261)

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directed the Secretary of Defense to implement a "process of JE to investigate and test technologies and alternative forces and concepts in field environments."

(U) In July 1999, the HAC-D directed that \$15.9M approved in an OSD reprogramming action be used only for Attack Operations Against Critical Mobile Targets (AOACMT), the limited infrastructure needed to facilitate AOACMT, and participation in Office of the Secretary of Defense (OSD) weapon system reviews. JFCOM has obtained concurrence from the HAC-D Staff that AOACMT includes the four related joint concepts that are critical to our ability to find, identify, and track mobile targets and disseminate information across the joint and coalition force. These related joint concepts include Common Relevant Operational Picture (CROP), Joint Interactive Planning (JIP), Adaptive Joint Command and Control (AJC2), and Rapid Decisive Operations (RDO). FY00 Congressional direction restated the priority and the need to focus experimentation on a prioritized order of near, mid and far term accomplishments. The applicability of these concepts to AOACMT and joint force operations is as follows:

AOACMT establishes a system with advanced sensors, near-instantaneous sensor-to-shooter data flow, and high-speed, long-range accurate weapons. Contribution: allows the Joint Force Commander to shape the battle space and at the same time protect the force.

CROP provides timely, fused, accurate, consistent and relevant information in a readily understandable, scalable, and interactive format. Contribution: improve synchronization of joint operations and minimize fratricide.

JIP seeks to combine open-source information with that from traditional military sources in a virtual, multi-level, collaborative information environment supporting parallel activities. Contribution: simultaneously access multiple worldwide planning efforts, at different organizational levels thus increasing the capacity for quicker decisions, faster response time and dynamic tasking and retasking efforts.

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AJC2 when given a knowledge-based organization, determine how the Joint Force Command can organize the headquarters and task structure the joint force for operations. Contribution: smaller joint force headquarters footprint and improved synchronization of joint operations.

RDO allows the Joint Force Commander, without a large-scale invasion of an adversary's territory, to conduct operations to coerce the adversary to our will or to prevent the adversary from achieving its objectives. Contribution: means to destroy adversary's will and his ability to use asymmetric means.

Specific objectives of these experimentation efforts and concepts include: determining what new ISR, command and control (C2) and attack weapons capabilities will contribute to a capability to destroy critical mobile targets; exploring how Joint Suppression of Enemy Air Defenses (JSEAD), Joint Theater Air and Missile Defense (JTAMD), and offensive IO contribute to AOACMT; exploring what changes to DOTMLP will be needed to expedite the joint targeting process; exploring how we best develop the capability to precisely engage and destroy finite targets; exploring how we determine which targets are the most significant to a Joint Commander's current campaign; and determining the process, procedures and technologies that will assist in allocating the most appropriate capabilities against the highest value and payoff targets.

(U) JUSTIFICATION FOR BUDGET ACTIVITY: This program is budgeted within the APPLIED TECHNOLOGY Budget Activity because it encompasses design, development, simulation, and experimentation involving prototype hardware in order to validate technological feasibility of new operational concept's. This effort will reduce technological risk prior to initiation of a new acquisition program or transition to an ongoing acquisition program.

A. (U) PROGRAM ACCOMPLISHMENTS AND PLANS:

1. (U) FY 1999 ACCOMPLISHMENTS

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(U) The FY 99 objectives and goals were presented in the JFCOM JE Campaign Plan 99 (CPLAN 99). The Campaign Plan provided the methodology for laying out a strategy and schedule for FY99 experiments. CPLAN 99 provided the context for the JE program and for developing the experimentation strategy for each identified future Joint Warfighting concept. The concept of a Joint Experiment program to address future military challenges and the concurrent necessity for Joint interoperability is unique and never before examined through a comprehensive approach. Therefore, a central theme of CPLAN 99 was "proof of process." This "proof of process" strategy focused on development of an institutionalized approach which can support analysis and implementation of a diverse range of concepts, validation of the approach and the ability to rapidly re-focus efforts from the process to the content of the JE plan. CPLAN 99, the first campaign plan, permitted benchmarking the experimentation processes which will conduct with costing estimates established using historical Service metrics and previous experience. Part of this benchmarking process has been the development of a series of Baseline Collective Assessments (BCA) for each of the ten joint warfighting concepts. Each BCA will identify and document all activities throughout DoD (including the military departments and defense agencies) which address or are relevant to a specific concept. This will permit more effective leveraging of ongoing activities in the JE process and identify areas of non-productive duplication. To date three BCAs have been completed with two more scheduled for completion during the first part of FY00. The concepts selected for experimentation allowed the program to establish links with other DoD wide and individual Military Service experimentation activities thereby optimizing resource allocation through integration and leveraging ongoing activities. The program of experimentation set forth by approval of CPLAN 99 structured the JFCOM JE organization around investigating and developing new concepts and military capabilities. JE differs from other Research Development, Test and Evaluation (RDT&E) and acquisition efforts in that it is concept based instead of deficiency based. The concepts which have been selected for experimentation directly support the Chairman of the Joint Chiefs of Staff JV 2010 Implementation Master Plan and the RMA for 2010 and beyond. These concepts reflect the tenets and key points articulated in the RMA and address future, emerging military challenges. These experimentation efforts will support the Joint Warfighter across the full spectrum of military operational environments. JE at JFCOM seeks to identify and narrow redundancies and harmonize the experimentation efforts of the Services, non-DoD agencies and industry.

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(U) In FY99 JFCOM has sponsored a Futures Program which has focused on identifying Future Operational Capabilities (FOCs) critical to Joint Warfighting. These FOCs are the product of a series of Futures Seminars, Concepts Development Workshops and Senior Warfighter Reviews consisting of OSD, Joint Staff, Services and Component Commanders that were sponsored and executed by JFCOM starting in October 1999. Conferences and workshops have been attended by individual Service Battle Laboratory representatives, the Joint Staff, Unified CINCs and OSD who have nominated future warfighting experiments and cooperative approaches to support future experimentation partnerships. To date JFCOM has identified 10 concepts scheduled for experimentation starting in FY99 and continuing into FY00. These concepts are being evaluated in USACOM generated experiments or will leverage ongoing services, demonstrations/experiments, ACTDs, ATDs and JT&Es. They will include experiments which evaluate the following FOCs: RDO, Attack Operations Against Critical Mobile Targets, Joint Interactive Planning, Focused Logistics: Enabling Early Decisive Operations, Command Relevant Operational Picture, Adaptive Joint C2, Surveillance and Fires From Space, Information Operations, Forcible Entry Operations and Strategic Deployment. These ten concepts form the basis of the experimentation process JFCOM initiated in October 1998. As a result of this activity, Commander in Chief Joint Forces Command (CINCFJCOM) has designated Rapid Decisive Operations as the key, overarching concept. The other nine currently identified concepts are supportive of RDO. This action is reflected in the SECDEF's Defense Planning Guidance. This effort has also supported the independent assessment of the Joint Advanced Warfighting Program (JAWP). The results from the OSD sponsored JAWP have been integrated into the overarching JFCOM JE program.

(U) Expansion of the ongoing technical work for development of the ITB. Particular attention has been devoted to linking the capabilities of several ACTDs including Joint Logistics, Joint Planning, Rapid Battlespace Visualization, Battlefield Awareness Data Dissemination and Synthetic Theatre of War (STOW). Support was given to ACTD implementers at JFCOM and the individual Military Services to assist in the design and execution of information superiority and warfighting experiments.

(U) Experimentation Feeder Support: Experimentation Feeder Support provided resources to ensure that the joint experimentation program is consistent with the High Level Architecture (HLA) and Defense Modeling and Simulation Office

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(DMSO's) simulation roadmap and existing on-going demonstrations with the potential for enhancing military operational capability or cost effectiveness to participation in Joint Experiments.

(U) The JFCOM JE Implementation Plan (I-Plan) dated 14 July 98 is CINCJFCOM's concept and plan for executing the SECDEF Charter for JE. It establishes the experimentation process and described how JFCOM will organize to accomplish the mission. Leveraging existing resources and work accomplished by the Joint Staff and Joint Warfighting Center, JFCOM's FY 99 experimentation focus was to test and subsequently refine the "Proof of Process" envisioned for the experimentation process by designing J9901 Attack Operations Against Critical Mobile Targets (AOACMT) to initiate the experimentation program. J9901 tested emerging concepts and joint doctrine by utilizing advanced simulations, virtual environments, and wargames. J9901 took advantage of resources developed in the STOW ACTD to support a Virtual Attack Operations situation. The success of J9901 allowed the program to pursue experimentation objectives focused upon the future (2015) such as ISR, Command and Control (C2), Weapons Systems, Red Teaming and Future Threats. Significant progress has been made during the fiscal year in establishing and coordinating the efforts of the various experimentation and demonstration activities of the military services and of ACTDs with the JE initiative. In concert with J9901, JFCOM's "Futures Program" hosted workshops, seminars and symposiums as part of the far-term experimentation process. The Futures Program explored and will continue to examine future DOTMLP issues by reviewing emerging technologies and concepts and by bringing together warfighters, futurists, academics, and industry. Additionally Futures Program explored and will continue to explore the use of wargames, modeling and simulation and virtual environments in developing future concepts for experimentation. J9901 and the Futures Program will leverage the existing Information Technology (IT) Backplane to conduct experiments. However, it is anticipated that robust experimentation will require continued development of the existing IT Backplane capabilities.

2. (U) FY 2000 PLAN:

(U) JFCOM's business plan for experimentation is CAMPAIGN PLAN (CPLAN) 00. CPLAN 00 refines and extends JFCOM's JE program

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designed to explore innovative concepts and "leap-ahead" capabilities and to exploit opportunities for transformation of the U.S. military. This program seeks new processes, organizations, and technologies that will provide future military leaders with a wider range of options to address national security issues. CPLAN 00 provides a high-level description of the ten concepts that will be explored during the six-year period FY 00-05 and the program of experimentation that has been planned to assess the concepts for their suitability, feasibility, acceptability, maturity, and potential impact on Joint Force operation capabilities. Among the principal experimentation events to be conducted are a major simultaneous supported experiments in exploring RDO and the supporting concepts. These experimentation events will also provide an operational environment to continue and expand the work initiated in FY 99 on Attack Operations Against Critical Mobile Targets. Increased coordination with the Services and other experimentation/demonstration activities will be a key objective in FY 00. The JE program at JFCOM will leverage ACTDs, the Army's Joint Contingency Force Advanced Warfighting Experiment, the Air Force's Joint Expeditionary Force Experiment, the Navy's Fleet Battle Experiment Hotel and Marine Corps' Capable Warrior Experiment. Additionally there will be emphasis place on including inter-agency, allied and coalition partners in the JE program. There will be an extensive wargaming program on force application, information superiority, force deployment and sustainment. Comprehensive evaluation of technologies to support the Joint Force After Next will also be initiated. The Baseline Collection Assessments and Vulnerability Assessments will also be continued. The long term objective of this endeavor is to focus annual Joint, Service and Agency efforts in a Major Joint Integrating Experiment beginning in FY 04. These experiments will be conducted in 12-24 month intervals and involve significant participation by forces in the field. Major Joint Integrating Experiments combine all four Services in a Joint Combined Force-Advanced Warfighting Experiment (JCF-AWE) that will use live and virtual elements to assess all 10 Identified Future Operation Concepts. JFCOM will also sponsor other technological-operational concept development studies and required Red Team technology vulnerability assessments.

(U) Advanced planning and support for development and coordination of scheduled FY 02 and FY 03 experiments will be conducted in parallel with on going FY 00 experiments.

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(The growth between FY 99 and FY 00 is the result of the increased number of Joint Experiments and the coordination with the associated service and other Unified CINC experiments and demonstrations. With full funding and personnel JFCOM can conduct a sustained level of participation that includes: (1) two major simultaneous supported experiments; (2) five major JV 2010 and two major Joint Force After Next wargames; (3) multiple leveraged and limited objective experiments; (4) a technology assessment and vulnerability program

### 3. FY 2001 PLAN:

(U) CPLAN 00 management plan for FY01 experiments continues efforts initiated in FY99 and FY00. JFCOM will continue to experiment with processes, organizations, and technologies that possess the potential to provide future military leaders with a wide range of options with which to address national security issues. Through assessment of new doctrinal concepts, organizational structures, and technologies, the JE program seeks to enable the RMA. This funding will support continued activities by JFCOM as the Executive Agent for JE in the execution and assessment of ten JFCOM generated Joint Warfighting Experiments and sixteen Minor Leveraged Service experiments and demonstrations. JFCOM will also sponsor other technological-operational concept development studies and required Red Team technology vulnerability assessments.

(U) JFCOM will continue to sponsor the ongoing series of Futures Symposiums and Warfighter reviews of technologies and operational concepts which examine the development and prospects for technological innovation and their relationships to mid-term and future operational concepts. JFCOM initiates action to analyze branches and sequels to concepts discovered through experimentation and the Futures Program.

(U) JFCOM will support experimental technologies which are relevant to operational issues, including prototypes, advanced technologies, and surrogates required, along with the processes and materials which will be necessary to integrate these new capabilities. Modeling and simulation and wargames will continue to be an integral element of the FY 01 plan to develop, assess and generate new concepts and identify new technologies suitable for experimentation.

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(U) Advanced planning and support for development and coordination of scheduled FY 02 and FY 03 experiments will be conducted in parallel with on going FY 00 experiments.

B. (U) PROGRAM CHANGE FOR TOTAL Program Element:

	FY 2000	FY 2001
FY 2000 President's Budget	41,840	46,181
Appropriated Value:	41,840	-
Adjustments from FY 2000 President's Budget		
Program Adjustments	1,900	+3,790
Congressional Rescissions	-242	
Various Rate Adjustments		-465
FY 2000 PRESBUDG Submission:	43,498	49,506

(U) CHANGE SUMMARY EXPLANATION:

(U) Schedule: Not applicable.

(U) Technical: The growth between FY 00 and FY 01 is the result of the increased number and complexity of Joint Experiments and the coordination with the associated service and other Unified CINC experiments and demonstrations.

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C. (U) OTHER PROGRAM FUNDING SUMMARY: Not applicable.

(U) RELATED RDT&E:

- (U) PE 0601153N Defense Research Sciences
- (U) PE 0602111N Air and Surface Launched Weapons Technology
- (U) PE 0602121N Ship, Submarine and Logistics Technology
- (U) PE 0602122N Aircraft Technology
- (U) PE 0602232N Communications, Command and Control, Intelligence, Surveillance and Reconnaissance (C3ISR)
- (U) PE 0602233N Human Systems Technology
- (U) PE 0602234N Materials, Electronics and Computer Technology
- (U) PE 0602270N Electronic Warfare Technology
- (U) PE 0602314N Undersea Warfare Surveillance Technology
- (U) PE 0602435N Oceanographic and Atmospheric Technology
- (U) PE 0602633N Undersea Warfare Weapon Technology
- (U) PE 0603750D Advanced Concept Technology

D. (U) SCHEDULE PROFILE: Not applicable.

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