R2497 Joint Experimentation

64,615 102,868 97,872 106,500 66,029 67,331 68,664 CONT. CONT.

(U) MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION: Commander in Chief, U.S. Joint Forces Command (CINCUSJFCOM) is chartered "as the Executive Agent for conducting joint warfighting experimentation within the Department of Defense. This effort will enable CINCUSJFCOM to explore new joint warfighting concepts and capabilities and determine Doctrine, Organization, Training, Materiel, Leadership, Personnel, Facilities, (DOTMLPF) implications for change."

US Joint Forces Command’s Joint Warfighting Experimentation Charter was signed by the Secretary of Defense on 15 May 1998. Joint Experimentation implements this mission through a process of discovery, innovation, concept development, and experimentation to provide for optimal joint future force capability. Joint Experimentation’s role as the shaper of national security/national defense transformation is critical. We are tasked to set the conditions for successful transformation. Our goal is to develop the joint context in which joint and service concept development and experimentation can prosper. The Services determine the specific DOTMLPF requirements for their core competencies supporting the joint context.

(U) The future is the US Joint Forces Command’s area of responsibility. Within that area of responsibility, we examine ways to enhance the current force, to actualize the Joint Vision 2020, and to dominate the revolution in military affairs. Joint Experimentation's purpose is to lay the foundation for national security transformation. Development of a coherent joint force starts with aggressive concept development and robust joint experimentation. US Joint Forces Command establishes a common joint context for the Department of Defense. This common joint context has not historically existed, but it has already proven to be a powerful tool that fosters coherence, improved stewardship and early interoperability. Concept development, both Joint and Service, is done through intellectual courage, focus, and solid work. It is a process of discovery, innovation, and experimentation.

(U) Recommended changes resulting from this experimentation activity are forwarded to the Chairman, Joint Chiefs of Staff and the Joint Requirements Oversight Committee (JROC) for implementation. Individual Military Services and United States Special Operations Command (USSOCOM) retain primary responsibility to develop concepts and conduct experimentation within their core competencies, to include their land, air and space, sea, expeditionary and special operations roles. USJFCOM serves as the joint force integrator. The Assistant Secretary of Defense for Strategy and
Threat Reduction (ASD (S&TR)) monitors USJFCOM's joint concept experimentation activities on behalf of the Secretary of Defense. ASD (S&TR), working with the Defense Resources Board (DRB), acting in its Revolution in Military Affairs (RMA) oversight role, conducts reviews of CINCUSJFCOM experimentation activities.

(U) US Joint Forces Command serves in two major roles in advancing joint warfighting capabilities. These are documented in the following:
- CJCSI 3170.01B, 15 April 2001, Requirements Generation System, B2.d.7.b. “USCINCJFCOM will serve as the Chairman’s advocate for joint warfighting interoperability. USJFCOM [sic. US Joint Forces Command] will provide the warfighter perspective during the development of joint operational concepts to ensure that joint forces have interoperable systems.”

(U) The Chairman of the Joint Chief of Staff (CJCS) Joint Experimentation Campaign Plan 01 Guidance directed exploration of revolutionary concepts and advanced technologies that have potential to significantly alter the conduct of military operations. These concepts and advanced technologies include autonomous operations, nano-technologies, bio-centric operations, non-kinetic engagement technologies, and space-based capabilities. Additionally, US Joint Forces Command has CJCS direction to work closely with the science and technology community in developing warfighting capabilities.

(U) The Joint Experimentation Campaign Plans focus on high priority tasks assigned to US Joint Forces Command through the Defense Planning Guidance (DPG) and the Chairman of the Joint Chiefs of Staff (CJCS) Instructions on Joint Concept Development and Experimentation. The Defense Planning Guidance and the Chairman of the Joint Chiefs of Staff Instructions direct US Joint Forces Command to continue development and refinement of and experimentation with Rapid Decisive Operations (RDO) as the integrating concept supported by seven functional concepts that provide critical capabilities for Rapid Decisive Operations. These functional concepts are Common Relevant Operational Picture (CROP), Adaptive Joint Command and Control (AJC2), Joint Interactive Planning (JIP), Focused Logistics: Enabling Early Decisive Operations (PLEEEDO), Information Operations (IO), Assured Access (AA), and Strategic Deployment (SD). Two new proposals entering pre-concept development are Joint Intelligence, Surveillance and Reconnaissance (JISR) and Effects-Based Operations (EBO). Development of these new concepts is based on lessons learned from completed FY00 joint experimentation activities.

(U) In FY 2001, US Joint Forces Command conducted a series of risk mitigation experiments and Limited Objective Experiments in preparation for Millennium Challenge 2002 and the Olympic Challenge series (to be staged in the even years). This series of field experiments will address the challenges of Rapid Decisive Operations through FY07, then

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Budget Item Justification
(Exhibit R-2, Page 2 of 14)
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will address a follow-on integrating concept in FY15 and beyond. Millennium Challenge 2002 (MC 02) will explore a coherent joint force capable of conducting a rapid, decisive joint strike operation in the 2004-2007 timeframe. Olympic Challenge 2004 (OC 04) will explore Rapid Decisive Operations (RDO) in the 2010-2015 timeframe. The Millennium Challenge/Olympic Challenge series of joint experiments provide the joint context for exploring how well these future concepts work together to transform joint military capabilities at the operational level of war. These experiments will include elements representative of each military service and U.S. Special Operations Command’s future force concepts, e.g., Air Force Expeditionary Aerospace Force, Army medium-weight brigades, and Navy Forward from the Sea vision. US Joint Forces Command coordinates continuously with all the CINC’s, the Joint Staff, and Services in the concept development and experimentation on the Millennium Challenge/Olympic Challenge series and the execution of concepts.

(U) In FY 2001, US Joint Forces Command started to conduct a series of annual Unified Vision experiments to provide context for refinement of the Rapid Decisive Operations concept and its supporting functional concepts. Experiments and activities to support this concept are structured to provide near, mid and far term operational context and results. Unified Vision 2001 (UV01) served as the preliminary concept, risk mitigation, and experimentation refinement initiative supporting Millennium Challenge 2002. Unified Vision 2001 was designed to begin exploring the “how” of Rapid Decisive Operations. Specific objectives were to examine the Joint Force Headquarters, including external relationships with other national agencies and organizations; to examine the operational-level, effects-based operations planning and execution methodologies; to examine the process of integrating a wider set of national capabilities than reside in the Department of Defense alone; and to begin to examine the information requirements and characteristics of a decision support system that enhances the joint force commander’s decision-making ability.

(U) US Joint Forces Command also conducted a series of Limited Objective Experiments (LOE), including Non-Kinetic Technologies (NKT); Open Source Information Management (OSIM); and Presentation.

(U) Millennium Challenge 2002 is the major experimental focus of FY02 activities at US Joint Forces Command. Efforts are continuing on a second track separate from Millennium Challenge 2002 to accelerate development of other concepts such as Forcible Entry Operations (FE0), Effects Based Operations (EBO), Assured Access (AA), Joint Intelligence Surveillance and Reconnaissance (JISR), and Joint Fire Support (JFS), among others.

(U) Due to the number of efforts in the PE, the programs described are representative of the work included in the PE.

(U) JUSTIFICATION FOR BUDGET ACTIVITY: This program is budgeted within the ADVANCED TECHNOLOGY Budget Activity because it encompasses design, development, simulation, and experimental testing or prototype hardware to validate technological
feasibility and concept of operations and reduce technological risk prior to initiation of a new acquisition program or transition to an ongoing acquisition program.

(U) PROGRAM ACCOMPLISHMENTS AND PLANS:

1. (U) FY 2001 ACCOMPLISHMENTS:

   • (U) ($15,582) Rapid Decisive Operations. A concept to achieve rapid victory by attacking the coherence of an enemy’s ability to fight. It is the synchronous application of the full range of our national capabilities in timely and directed effects-based operations. It employs our asymmetric advantages in the knowledge, precision, and mobility of the joint force against the enemy’s critical functions to create maximum shock. The concept seeks to address this critical question: How do we, in a matter of days, project sufficient military power across global distances and present an operational ‘show stopper’ to a capable regional power that may have numerically superior combined arms force, home field advantage with asymmetric means to deny access, information operations to attack our national/coalition will, military and civilian casualty tolerance and adaptive and innovative learning with no time constraints. A series of sequential wargames, seminars, virtual and constructive experiments, and field experiments will be used to develop and assess this concept. The Unified Vision 2001 experiment conducted in April-May 2001 was a concept refinement experiment designed to begin exploring the “how” of the Rapid Decisive Operations concept in preparation of Millennium Challenge 2002 experiment. The Millennium Challenge 2002 experiment, which will be held in July-August 2002, will be a major joint integrating experiment designed to assess the “how” of the Rapid Decisive Operations concept. Both the National Interagency Coordination Process and the Joint Command and Control (C2) Element initiatives, including battlespace awareness through our Common Relevant Operational Picture (CROP), are being used following the 11 September 2001 terrorist attack. CENTCOM is actively using CROP and the C2 element, which they learned as a result of participation in the Rapid Decisive Operations Unified Vision 2001 experiment.

   • (U) ($1,197) Attack Operations Against Critical Mobile Targets. This was a functional concept supportive of Rapid Decisive Operations (RDO). The AOACMT, (Attack Operations Against Critical Mobile Targets) concept proposed a multifaceted approach to overcoming the asymmetric peril posed by mobile threats such as theater missiles. It hypothesized the identification and continuous, accurate tracking of critical mobile and time sensitive targets, and subsequent engagement with precise, retargetable and responsive weapons and offensive information operations. Experimentation results on Attack Operations through FY00 indicated that near term improvements in the ability to address time sensitive targets are possible, but that they do not necessarily constitute a major symmetric advantage in a Rapid Decisive Operations context. Continued effort in this area will consist of monitoring
specific service efforts with a view toward understanding its relevance to providing assured access for Rapid Decisive Operations. Based on post exercise analysis of the October 2000 major AOACMT experiment JFCOM recommended to the Joint Staff that this concept be integrated into the Assured Access concept. An analysis of the experiment findings resulted in shifting the funding for AOACMT to Assured Access in FY01.

- **(U) ($6,384) Information Superiority:** Includes the enhancement of four functional warfighting concepts: Common Relevant Operational Picture (CROP), Joint Interactive Planning (JIP), Adaptive Joint Command and Control (AJC2), and Information Operations (IO). Together, these concepts work to provide a Joint Force Commander with a superior picture of both national and coalition forces, and seek to deny or disrupt information that is critical to the enemy's concept of operations and mission.
  - **Common Relevant Operational Picture (CROP):** a "virtual warehouse" that links to all the information required by the warfighters. From this, decision makers will tailor information displays that are relevant to their needs. The tailored displays generated from the common virtual warehouse will provide enhanced shared battlespace awareness.
  - **Joint Interactive Planning (JIP):** meets the need to operate inside the adversary's decision cycle which requires that planning and execution transition from what is currently a serial process to a parallel process. Enhancement of Adaptive Joint Command and Control (AJC2) deals with ways that the Joint Force Command and Control Headquarters should be organized, to be adaptable to the mission being supported, to best support new ways of doing business such as Rapid Decisive Operations, and to take best advantage of the advances in information technologies.
  - **Information Operations (IO):** are actions taken that attack an adversary's understanding and perceptions of the environment that affect its ability to make timely, effective decisions and, ultimately, its will to continue. IO uses the information medium to apply various capabilities to produce or create effects that influence decision-making, behavior, and will. The ultimate targets of IO are adversary decision makers, their decision-making processes, and their decision support systems.

- **(U) ($120) Focused Logistics Enabling Early Decisive Operations/Strategic Deployment (FLEEDO/SD):** Preliminary planning stage for the integration of advanced technologies with logistics management to effectively support early force deployment and continued force employment and provision of significantly improved strategic deployed forces capable of projecting joint forces by sea, land and air, along with sustainment for these forces, across strategic distances in order to support Rapid Decisive Operations. Focuses on refining the logistics organization, functional relationships, and planning, coordinating, and executing distributed missions between the Commander in
Chief's Joint Theater Logistics Management Center and the Joint Task Force. In FY01 Strategic Deployment was combined with Focused Logistics Enabling Early Decisive Operations to provide a broader spectrum of logistics efforts.

- (U) ($35,531) Millennium Challenge. Millennium Challenge 2002 is a major joint integrating experiment that is the culminating point for assessing how we can do a rapid, decisive operation in this decade and determining the extent to which the joint force is able to implement the principles of Joint Vision 2020. It is designed to assess the "how" of the Rapid Decisive Operations concept. The experiment will look at a high-end, small-scale contingency that has the potential to escalate to a major theater of war and is based on a real-world military threat for which we have robust and realistic databases to support an operational net assessment. It will permit integration of the overarching Rapid Decisive Operations and supporting concepts with future warfighting concepts being developed by each of the services.

- (U) ($120) Advanced Concept Technology Demonstrations (ACTDs). Programs listed below are OSD sponsored ACTDs which are under the direct sponsorship of US Joint Forces Command and which are being coordinated and integrated into joint warfighting experimentation concepts. US Joint Forces Command will become participants in several FY 2002 ACTDs, which are not listed in this report. These programs are awaiting completion of review and prioritization by the Joint Requirements Oversight Council (JROC). Funding for ACTDs has always been covered under other PE’s except for the civilian salary. Effective mid-FY01, the ACTD mission was moved from Joint Experimentation to US Joint Forces Command J9, Joint Interoperability and Integration:
  - Multi-Link Antenna System (MLAS)
  - Content Based Information Security (CBIS)
  - Joint Theater Logistics (JTL)
  - Force Medical Protection (FMP)
  - Theater Air and Missile Defense Interoperability (TAMDI)
  - Integrated Collection Management (ICM)
  - Coalition Combat Identification (CCID)
  - Joint Area Clearance (JAC)
  - Personnel Recovery and Extraction Aided by Smart Sensors (PRESS)
• (U) ($1,500) Limited Objective Experiments. Short term experiments supporting specific, tightly focused future warfighting concepts. Limited Objective Experiments provide a low cost, highly reliable environment to scientifically control and research initiatives prior to inserting them into a larger experiment. The Limited Objective Experiments performed in FY2001 include:
  - Non-Kinetic Technologies LOE developed a wider range of effects options to be considered by Joint Force Headquarters during the Millennium Challenge 2002 experiment.
  - Forward Operating Base Pattern Recognition LOE identified logistics sites of critical targets based upon recognizing patterns of sensor data.
  - Open Source Information Management LOE defined and exercised the open source element of the Common Relevant Operational Picture (CROP) functional concept in support of the Rapid Decisive Operations Operational Net Assessment.
  - Information Presentation LOE determined if the situation awareness of a decision-maker could be improved by presenting the information in innovative new ways.
  - Intelligent Agent LOE developed and used an Artificial Intelligence engine to identify and track information.
  - Preliminary planning for the Operational Net Assessment LOE
  - Preliminary planning for the Focused Logistics LOE
  - Preliminary planning for the Multi-National LOE

• (U) ($1,000) Concept Development. Future experimentation efforts are dependent upon an aggressive, continuous effort to develop concepts relating to transformation. Transformation requires a robust and aggressive level of effort of concept development that aligns with the Joint Experimentation Campaign Plan and focuses on high priority tasks assigned. Refining and maturing joint concepts in preparations for live field experiments is a detailed process, and requiring a series of concept development workshops and seminars, analytical wargames, and limited objective experiments supported by virtual and constructive simulation. Joint Experimentation is currently focused nearly exclusively on the Rapid Decisive Operations concept, and only five of its supporting concepts. On the spectrum of military operations, we are only focused on small-scale contingency operations. Joint Experimentation is targeting work on at least 24 emerging concepts including the next integrating concept after Rapid Decisive Operations over the 2003-2007 timeframe, and critical concepts such as: Assured Access, Multi-national operations, Interagency Operations, Focused Logistics, Strategic Deployment, and Effects Based Operations.
• (U) ($500) Innovation and Transformation (Futures). Activities looking at emerging technologies in the 2020-2030 timeframe that may lead to far-term changes in the joint force. The emerging technologies studied were:
  - Bio-mimetic, nano-technology and compact power
  - Autonomous/automated decision making and joint command and control, enhancing human performance, learning and training, and space-based capabilities in support of joint operations

• (U) ($250) Integration with Other CINC, Military Services and DoD Agencies. Communication efforts to fully coordinate planned concept development and experimentation. Adequately capture and assess current joint warfighting needs and directions for experimentation.

• (U) ($500) Multi-national and Coalition Concept Development. Multi-national concept of operations, engagement, education and collaboration with our multi-national partners by establishing a partnership with Foreign Liaison Officers of NATO member states, Australia, Japan, South Korea, Argentina, Singapore, and the Gulf Cooperation Council states. The coalition environment is consistent with and required for our next decade CONOPS. Multi-national experimentation efforts are embedded in our other experimentation efforts.

• (U) ($1,931) FY 2001 CONGRESSIONAL PLUS-UP. Joint Experimentation. Completed the planning and preparation for the Millennium Challenge, a coordinated joint field experimentation effort under U.S. Joint Forces Command. This is a major joint experiment involving all the military services battle laboratories.

2. (U) FY 2002 PLAN:
• (U) ($20,499) Rapid Decisive Operations. Continue exploration and refinement of the Rapid Decisive Operations Concept through the execution of various Limited Objective Experiments (Operational Net Assessment, Focused Logistics, Multi-National, and Effects Tasking Order-to-Action), and the Millennium Challenge 2002 (MC02) experiment in July-August 2002. The Limited Objective Experiments and the Millennium Challenge 2002 experiment will assess the “how” of the concept. The experiments include:
  - Effects Tasking Orders (ETO)-to-Action, how they are issued and prepared in a collaborative environment with the Common Relevant Operational Picture
  - Operational Net Assessment (ONA) addresses how we accurately do Operational Net Assessment—a continuously updated system-of-systems analysis of the adversary’s total war-making capabilities. It’s purpose is to identify key links and nodes within the adversary’s systems, propose methods that will influence, neutralize or destroy them and achieve a desired effect or outcome.
  - Peer-to-Peer, explores information sharing between computers and wireless equipment for military application.
• (U) ($6,500) Information Superiority. Continue exploration and enhancement of the four functional warfighting concepts: Common Relevant Operational Picture (CROP), Joint Interactive Planning (JIP), Adaptive Joint Command and Control (AJC2), and Information Operations (IO), through the planning and execution of Limited Objective Experiments.

• (U) ($4,000) Focused Logistics Enabling Early Decisive Operations/Strategic Deployment (FLEEDO/SD). Integration of advanced technologies with logistics management to effectively support early force deployment continued force employment and will provide significantly improved strategic deployment of forces capable of projecting joint forces by sea, land and air. This will be accomplished through a series of Focused Logistics Limited Objective Experiments which will concentrate on specific aspects relating to force deployment as it refined the logistics organization, functional relationships, and planning, coordinating and executing distributed missions between the Commander in Chief’s Joint Theater Logistics Management Center (JTLMC), and the Joint Task Force.

• (U) ($3,500) Assured Access. Continue exploration of the Assured Access Concept through the execution of the Millennium Challenge 2002 experiment and Limited Objective Experiments. The concept will explore how a Joint Force Commander can gain the requisite level of physical, spectral and cyber access to an adversary’s domain.

• (U) ($52,397) Millennium Challenge. Millennium Challenge 2002 experiment, to be executed in July-August 2002, is a major joint integrating experiment that is the culminating point for assessing how we do a rapid, decisive operation in this decade and determine the extent to which the joint force is able to implement the principles of Joint Vision 2020. The experiment will encompass both live and virtual forces, including elements from all military services and special operations. Given the capabilities of the joint force and a major regional threat in the 2007 period, the Millennium Challenge 2002 experiment will determine the extent to which we can set the operational conditions for Rapid Decisive Operation; establish a knowledge network; establish Joint Command and Control functions and Joint Intelligence, Surveillance and Reconnaissance capabilities; establish access and then sustain a distributed, non-contiguous operation without relying on fixed bases adjacent to the objective area; establish full-dimensional/time-definite superiority for selected forces and actions with the battlespace; and conduct simultaneous, joint tactical actions throughout the battlespace that are based on a shared understanding of both the tactical and operational situation.

• (U) ($3,072) Limited Objective Experiments (LOE):

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Peer-to-Peer LOE will explore the contributions of peer-to-peer collaboration in support of Rapid Decisive Operations by examining the ease of setup, mobility, redundancy/survivability, functionality, and security of peer-to-peer collaboration systems.

Operational Net Assessment LOE focuses on the Operational Net Assessment product and process, but includes an assessment of the CONOPS for Information Operations, Inter-agency Community, and Effects Based Planning.

Focused Logistics LOE focuses on refining the logistics organization, functional relationships, and planning, coordinating and executing distributed missions between the Commander in Chief’s Joint Theater Logistics Management Center (JTLMC), and the Joint Task Force.

Multi-National LOE focuses on collaborative planning with multi-national partners who are planning Rapid Decisive Operations when the planning time is short. It will compare the plan developed using a more traditional process with a plan using an integrated planning process.

Effects Tasking Order (ETO)-to-Action LOE focuses on effects based planning, execution and assessment, but will also include a review of the Standing Joint Command and Control Element (SJC2E) CONOPS as it relates to collaboration with functional components.

(U) ($9,000) Concept Development. Future experimentation efforts continue to be dependent upon an aggressive, continuous effort to develop concepts relating to transformation. This requires a robust and aggressive level of effort of concept development that aligns with the Joint Experimentation Campaign Plan and focuses on high priority tasks assigned. Refining and maturing joint concepts in preparation for the Millennium Challenge 2002 and Olympic Challenge 2004 live field experiments is a detailed process, and requiring a series of concept development workshops and seminars, analytical wargames, and limited objective experiments supported by virtual and constructive simulation. Joint Experimentation is currently focused nearly exclusively on the Rapid Decisive Operations concept, and only five of its supporting concepts. Joint Experimentation is targeting work on at least 24 emerging concepts including the next integrating concept after Rapid Decisive Operations over the 2003-2007 timeframe, and critical concepts such as: Assured Access, Multi-national operations, Interagency operations, focused logistics, Joint Intelligence, Surveillance and Reconnaissance, and effects based operations.

(U) ($1,600) Innovation and Transformation (Futures). Activities continuing to look at emerging technologies in the 2020-2030 timeframe that may lead to far-term changes in the joint force. This is done through a series of seminars and wargames, and the leveraging of the Service wargames. The emerging technologies to be studied are:
- Homeland Defense
- Spaced-Based support for Joint Operations
- Alternate Fuel Vehicles
- Preventing strategic and operational surprise
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FY 2003 RDT&E, N BUDGET ITEM JUSTIFICATION SHEET

DATE: February 2002

BUDGET ACTIVITY: 3  PROGRAM ELEMENT: 0603727N
PROGRAM ELEMENT TITLE: Joint Experimentation

- Autonomous and automated decision making
- Enhancing human performance and learning

- (U) ($500) Integration with Other CINC, Military Services and DoD Agencies. Continue communication efforts to fully coordinate planned concept development and experimentation through a series of meetings, workshops and seminars. Adequately capture and assess current joint warfighting needs and directions for experimentation.

- (U) ($1,800) Multi-national and Coalition Concept Development. Continue exploration of the multi-national concept of operations, engagement, education and collaboration with our multi-national partners through a series of Limited Objective Experiments that will explore information sharing and collaboration during Rapid Decisive Operations. The multi-national experimentation efforts are embedded in our other experimentation efforts.

3. (U) FY 2003 PLAN:


- (U) ($3,576) Information Superiority. Continue exploration and enhancement of the four functional warfighting concepts (Common Relevant Operational Picture (CROP), Joint Interactive Planning (JIP), Adaptive Joint Command and Control (AJC2), and Information Operations (IO)), as we Explore the Rapid Decisive Operations Concept in the next decade.

- (U) ($1,490) Focused Logistics Enabling Early Decisive Operations/Strategic Deployment (FLEEDO/SD). Continue integration of advanced technologies with logistics management to effectively support early force deployment and continued force employment through a series of Focused Logistics Limited Objective Experiments which will concentrate on specific aspects relating to force deployment as it refined the logistics organization, functional relationships, and planning, coordinating and executing distributed missions between the Commander in Chief’s Joint Theater Logistics Management Center (JTLMC), and the Joint Task Force.

- (U) ($2,450) Assured Access. Refinement of the Assured Access Concept through the execution of Limited Objective Experiments and the preliminary planning and coordination for the Olympic Challenge 2004 experiment. The
concept will explore how a Joint Force Commander can gain the requisite level of physical, spectral and cyber access to an adversary’s domain.

• (U) ($41,027) Olympic Challenge. Will explore and refine the findings of the Millennium Challenge 2002 experiment, conducted in July-August 2002, as the basis of the Olympic Challenge 2004 experiment and the Rapid Decisive Operations-Next Decade concept. The Olympic Challenge 2004 will examine how a rapid decisive operation could be executed in the next decade during an operation that is at the high-end, small-scale contingency area on the range of operations. The Rapid Decisive Operations (RDO) in the Next Decade concept will integrate knowledge, command and control, and effects-based operations to achieve the desired political/military effort.

• (U) ($5,989) Limited Objective Experiments:
  - Non-Kinetic Technologies (Low Collateral Damage Weapons) LOE
  - Olympic Vision 2003 LOE will set the stage as a risk mitigator for the Olympic Challenge 2004 experiment.
  - Focused Logistics LOE will continue to focus on specific aspects relating to force deployment as it refined the logistics organization, functional relationships, and planning, coordinating and executing distributed missions between the Commander in Chief’s Joint Theater Logistics Management Center (JTLMC), and the Joint Task Force.
  - Multi-National LOE will continue the series of experiments with multi-national partners to define and refine coalition participation in the Olympic Challenge 2004 experiment. The LOE will explore information sharing and collaboration during Rapid Decisive Operations in the next decade with coalition partners.

• (U) ($6,054) Concept Development. Experimentation efforts after the conclusion of Millennium Challenge 2002 experiment will continue to be dependent upon an aggressive, continuous effort to develop concepts relating to transformation. The Rapid Decisive Operations (RDO) in the Next Decade concept, will integrate knowledge, command and control, and effects-based operations to achieve the desired political/military effort. This will continue to require a robust and aggressive level of effort of concept development that aligns with the Joint Experimentation Campaign Plan and focuses on high priority tasks assigned.

• (U) ($2,384) Innovation and Transformation (Futures). Activities continuing to look at emerging technologies in the 2020-2030 timeframe that may lead to far-term changes in the joint force. This is done through a continued series of seminars and workshops, and the leveraging of the Service wargames.

• (U) ($745) Integration with Other CINC, Military Services and DoD Agencies. Continue communication efforts to fully coordinate planned concept development and experimentation through a series of meetings, workshops and seminars. Adequately capture and assess current joint warfighting needs and directions for experimentation.
• (U) ($2,682) Multi-national and Coalition Concept Development. Continue exploration of the multi-national concept of operations, engagement, education and collaboration with our multi-national partners through a series of Limited Objective Experiments that will explore information sharing and collaboration during Rapid Decisive Operations in the next decade. The multi-national experimentation efforts are embedded in our other experimentation efforts.

(U) PROGRAM CHANGE SUMMARY:

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(U) Schedule: Not Applicable.

(U) Technical: Not Applicable.

(U) OTHER PROGRAM FUNDING SUMMARY: The Navy’s 6.1 program contributes to this effort.

(U) NAVY RELATED RDT&E:
• (U) 0601152N In-House Laboratory Independent Research
• (U) 0601153N Defense Research Sciences
• (U) 0602114N Power Projection Applied Research
• (U) 0602123N Force Protection Applied Research
• (U) 0602131M Marine Corps Landing Force Technology
• (U) 0602235N Common Picture Applied Research
• (U) 0602236N Warfighter Sustainment Applied Research
• (U) 0602271N RF Systems Applied Research
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FY 2003 RDT&E, N BUDGET ITEM JUSTIFICATION SHEET

DATE: February 2002

BUDGET ACTIVITY: 3
PROGRAM ELEMENT: 0603727N
PROGRAM ELEMENT TITLE: Joint Experimentation

- (U) 0602435N Ocean Warfighting Environment Applied Research
- (U) 0602747N Undersea Warfare Applied Research
- (U) 0602782N Mine & Expeditionary Warfare Applied Research
- (U) 0603114N Power Projection Advanced Technology
- (U) 0603123N Force Protection Advanced Technology
- (U) 0603235N Common Picture Advanced Technology
- (U) 0603236N Warfighter Sustainment Advanced Technology
- (U) 0603271N RF Systems Advanced Technology
- (U) 0603640M Marine Corps Advanced Technology Demonstrations
- (U) 0603729N Warfighter Protection Advanced Technology
- (U) 0603747N Undersea Warfare Advanced Technology
- (U) 0603758N Naval Warfighting Experiments and Demo
- (U) 0603782N Mine and Expeditionary Warfare Advanced Technology
- (U) 0603750D Advanced Concept Technology Demonstration
- (U) 0603727D Joint Warfighting

(U) SCHEDULE PROFILE: Not applicable.