CLASSIFICATION:

EXHIBIT R-2, RDT&E Budget Item Justification								DATE: **February 2003**			
APPROPRIATION/BUDGET ACTIVITY **RESEARCH DEVELOPMENT TEST & EVALUATION, NAVY / BA 4**						R-1 ITEM NOMENCLATURE 0603237N Deployable Joint Command & Control (DJC2)					
COST ($ in Millions)	Prior Years Cost	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	Cost to Complete	Total Program
Total PE Cost	**0.000**	**0.000**	**31.761**	**79.449**	**43.181**	**43.134**	**9.090**	**9.227**	**9.390**	**Continuing**	**Continuing**
X3050 Deployable Joint Command & Control	**0.000**	**0.000**	**31.761**	**79.449**	**43.181**	**43.134**	**9.090**	**9.227**	**9.390**	**Continuing**	**Continuing**
											0.000
											0.000
											0.000
											0.000
											0.000
Quantity of RDT&E Articles											**0**

(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION: Deployable Joint Command and Control (DJC2) seeks to provide standing, and standardized, joint command and control (C2) systems that can be deployed by Regional Combat Commanders (RCCs) or Joint Task Force (JTFs), remedying the current unproductive practice of relying on ad hoc, unresourced, and stove-piped capabilities cobbled together at the last minute during a crisis. It will support the new Standing Joint Forces Headquarters (SJFHQ) concept and doctrine being developed by Joint Forces Command in coordination with other RCCs and the Joint Staff, as tasked by Defense Planning Guidance (DPG). RCC and JTF commanders will use a deployable joint command and control capability for day-to-day operations (including peacetime), as well as when deployed for training or contingency operations. The capability is intended for all levels of conflict and will be reconfigurable to meet specific RCC and JTF mission requirements. This capability must be interoperable with higher and adjacent echelons of command (to include coalition allies) as well as with supporting elements to include joint forces.

The RDT&E line supports an evolutionary acquisition strategy. The intent of this strategy is to develop a system based upon a current understanding of joint requirements, rapidly field systems based upon those requirements, analyze operational utilization of the systems, and roll the results of the analysis into periodic upgrades of the systems to maintain currency and maximize operational effectiveness. Maximum use will be made of commercial technologies; anticipate technology refresh of each DJC2 suite will be made every two years. The baseline block 1 configuration will be based upon existing S&T initiatives, Advanced Concepts Technology Demonstration Programs (ACTDs), programs of record, and fielded capabilities of the services and defense agencies, scaled to the RCC level. The block 2 and subsequent configurations will include newly developed capabilities based on emergent, joint requirements and operational feedback from utilization of earlier spiral systems, as well as on incorporation of new commercial technologies.

R-1 SHOPPING LIST - Item No. 37

CLASSIFICATION:

EXHIBIT R-2, RDT&E Budget Item Justification	DATE: **February 2003**
APPROPRIATION/BUDGET ACTIVITY **RDT&E, N / BA 4**	R-1 ITEM NOMENCLATURE 0603237N Deployable Joint Command & Control (DJC2)

DJC2 is a Secretary Of Defense (SecDef) and Chairman Joint Chiefs Staff (CJCS) priority DoD transformation initiative that provides a deployable, scalable and tailorable headquarters command and control (C2) capability for each Regional Combatant Commander (RCC), and one maritime variant. It is the material solution to Standing Joint Force Headquarters (SJFHQs), a new capability to be implemented at each RCC starting in FY05. DJC2 will ensure that Joint Force Commanders (JFC) are equipped, as well as trained and organized, to carry out their C2 responsibilities. SecDef direction for the DJC2 program is contained in Defense Planning Guidance (DPG 03-07 and updated in DPG 04-09). The DJC2 program addresses both the Quadrennial Defense Review (QDR) finding that a joint command and control architecture needs to be developed for standing JTFs at each of the RCCs and the need for a deployable Joint Command and Control System described in the Transformation Study Report presented to the Secretary of Defense in April 2001. It integrates the requirements for and lessons learned from U.S. Central Command's deployable headquarters funded from the FY 2001 Emergency Supplemental Act for Recovery from and Response to Terrorist Attacks on the United States. DJC2 is supported by SECDEF and CJCS. The JCS/Joint Requirement Oversight Council (JROC) has approved the DJC2 Mission Needs Statement (MNS) and directed that an Operational Requirements Document (ORD) be produced in 2003.

Note that DJC2 is not a follow-on or replacement system for either the joint Global Command and Control System (GCCS) or GCCS-Maritime; rather, DJC2 will utilize GCCS in its core suite of applications, ensuring interoperability with the worldwide-installed base of GCCS-J/GCCS-M.

(U) JUSTIFICATION FOR BUDGET ACTIVITY: This program is funded under DEMONSTRATION AND VALIDATION because it develops and integrates hardware and software for experimental tests related to specific applications.

R-1 SHOPPING LIST - Item No. 37

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification								DATE: **February 2003**			
APPROPRIATION/BUDGET ACTIVITY **RDT&E, N / BA 4**	PROGRAM ELEMENT NUMBER AND NAME 0603237N Deployable Joint Command & Control					PROJECT NUMBER AND NAME X3050 DJC2					
COST ($ in Millions)	Prior Years Cost	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	Cost to Complete	Total Program
Project Cost	**0.000**	**0.000**	**31.761**	**79.449**	**43.181**	**43.134**	**9.090**	**9.227**	**9.390**	**Continuing**	**Continuing**
RDT&E Articles Qty											**0**

U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION: DJC2 seeks to provide standing, and standardized, joint C2 systems that can be deployed by RCCs or JTFs, remedying the current unproductive practice of relying on ad hoc, unresourced, and stove-piped capabilities cobbled together at the last minute during a crisis. It will support the new SJFHQ concept and doctrine being developed by Joint Forces Command in coordination with other RCCs and the Joint Staff, as tasked by DPG. RCC and JTF commanders will use a deployable joint command and control capability for day to-day operations (including peacetime), as well as when deployed for training or contingency operations. The capability is intended for all levels of conflict and will be reconfigurable to meet specific RCC and JTF mission requirements. This capability must be interoperable with higher and adjacent echelons of command (to include coalition allies) as well as with supporting elements to include joint forces.

DJC2 is a SecDef and CJCS priority DoD transformation initiative that provides a deployable, scalable and tailorable headquarters command and control (C2) capability for each Regional Combatant Commander (RCC), and one maritime variant. It is the materiel solution to Standing Joint Force Headquarters (SJFHQs), a new capability to be implemented at each RCC starting in FY05. DJC2 will ensure that Joint Force Commanders (JFC) are equipped, as well as trained and organized, to carry out their C2 responsibilities. SecDef direction for the DJC2 program is contained in Defense Planning Guidance (DPG 03-07 and updated in DPG 04-09). The DJC2 program addresses both the Quadrennial Defense Review (QDR) finding that a joint command and control architecture needs to be developed for standing JTFs at each of the RCCs and the need for a deployable Joint Command and Control System described in the Transformation Study Report presented to the Secretary of Defense in April 2001. It integrates the requirements for and lessons learned from U.S. Central Command's deployable headquarters funded from the FY 2001 Emergency Supplemental Act for Recovery from and Response to Terrorist Attacks on the United States. DJC2 is supported by SECDEF and CJCS. The JCS/Joint Requirement Oversight Council (JROC) has approved the DJC2 Mission Needs Statement (MNS) and directed that an Operational Requirements Document (ORD) be produced in 2003.

Note that DJC2 is not a follow-on or replacement system for either the joint Global Command and Control System (GCCS) or GCCS-Maritime; rather, DJC2 will utilize GCCS in its core suite of applications, ensuring interoperability with the worldwide-installed base of GCCS-J/GCCS-M.

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CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification		DATE: **February 2003**
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND NAME
RDT&E, N / BA 4	0603237N Deployable Joint Command & Control	X3050 DJC2

(U) B. Accomplishments/Planned Program

Accomplishments/Effort/Subtotal Cost	FY 02	FY 03	FY 04	FY 05
RDT&E Articles Quantity	0.000	15.761	20.463	18.181

- In FY03, study of Service and Joint RCC/JTF deployable C2 requirements and identification of candidate programs, both fielded and under development, to satisfy requirements. These will include S&T initiatives, ACTDs, programs of record, and fielded capabilities. Department of Army (DA), Department of Air Force (DAF), and Department of Navy (DON) will compile and prioritize Service specific C2 applications in order to create the DJC2 baseline, and will assist in integration into the baseline prototype (block 1). USJFCOM will compile and prioritize each RCC's C2 applications into the DJC2 baseline. GCCS will be the common C2 application around which DJC2 will be built. Adding the Service and RCC applications identified through the process mentioned above will allow DJC2 by definition to begin with de facto interoperability and a de facto common architecture. Conduct engineering and design studies necessary to develop the DJC2 technical design; validation of concept of operations to ensure user needs are adequately understood in evaluating alternative concepts; and analysis of alternatives to establish realistic cost, schedule and performance goals for the preferred material solution. Perform systems engineering analysis and integration (SE&I) activities to select the core set applications for the DJC2 baseline block 1 configuration. The block 2 configuration will include newly developed capabilities specifically designed to meet Joint requirements and incorporate emerging technologies, with an emphasis on utilization of commercial technology to the greatest extent possible. Develop and complete the Analysis of Alternatives (AOA) and Operational Requirements Document (ORD). Conduct requirements traceability analysis to ensure operational requirements identified in the MNS and ORD are adequately captured in specifications. Integrate legacy systems for the block 1 configuration and develop prototypes for the block 2 configuration. Develop evaluation and test plans and implement initial testing for the block 1 and block 2 configurations.
- FY03 plan includes $7.42M in DERF Congressional Add for Analysis of Alternatives.
- In FY04, continue to perform SE&I activities associated with the block 2 implementations of DJC2. Refine configuration management baselines and Technical Management Plan. Utilize analysis, architectural design, and design review processes conducted during FY03 to perform detailed design for block 2 and implement that design into the block 2 test bed. Utilize results of ACTDs and the baseline development process from FY03 to determine which applications will be transitioned to DJC2, and integrate them into the baseline. Begin the initial architecture development and design for the block 3 configuration of DJC2.
- In FY05, continue to perform SE&I activities associated with the block 3 implementations of DJC2. Refine configuration management baselines and Technical Management Plan. Utilize analysis, architectural design, and design review processes conducted during FY04 to perform detailed design for block 3 and implement that design into the engineering test bed, as well as the two testing and training evaluation suites at JFCOM and into a DJC2 suite to be delivered to PACOM. Utilize results of ACTDs to begin the initial architecture development and design for the block 3 configuration of DJC2.

	FY 02	FY 03	FY 04	FY 05
Accomplishments/Effort/Subtotal Cost	0.000	6.500	10.000	10.000
RDT&E Articles Quantity				

Develop Navy managed engineering, integration, test & analysis R&D test bed facility utilizing legacy mobile C4I systems, applications and concepts provided by the services and RCCs in the FYO3 baseline development process, and from lessons learned from Standing Joint Forces Headquarters (SJFHQ) experimentation, including EXERCISE MILLENIUM CHALLENGE '02, and C4I ACTDs. Support extended spiral development of commercial technologies to develop deployable C2 centers for each of the four RCCs and one maritime platform. Utilize this initial test facility to further refine the requirements for the DJC2 materiel solution based upon experimentation and ACTD results. Develop and implement changes in the DJC2 RDT&E test bed based on lessons learned in ACTDs. Additionally, utilize the test bed in realistic military demonstrations, and on that basis, make an assessment of the military utility of the proposed capability.

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification		DATE: **February 2003**
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND NAME
RDT&E, N / BA 4	0603237N Deployable Joint Command & Control	X3050 DJC2

(U) B. Accomplishments/Planned Program

	FY 02	FY 03	FY 04	FY 05
Accomplishments/Effort/Subtotal Cost	0.000	2.500	2.986	1.500
RDT&E Articles Quantity				

Stand up and staff joint program office (JPO) and conduct pre-acquisition planning activities. Navy will serve as Executive Agent (EA) for DJC2. Perform initial requirements analysis. Develop and complete initial acquisition, budget, and Clinger-Cohen documentation including, but not limited to, acquisition strategy, Acquisition Program Baseline, and program planning and schedule. Establish documentation requirements and begin related cost, schedule and performance activities. Utilize initial systems engineering analysis to establish systems concepts and compliance with Major Acquisition Information System (MAIS) and Clinger-Cohen Act requirements. Oversee development of the test bed facility and SE&I work to develop the initial core applications for the DJC2 baseline. Analyze and perform pre-Milestone B and C activities.

	FY 02	FY 03	FY 04	FY 05
Accomplishments/Effort/Subtotal Cost	0.000	7.000	14.000	13.500
RDT&E Articles Quantity				

Compile and prioritize C2 applications and perform SE&I functions. Evaluate validated technical concepts and technologies prototyped in advanced technology transitions, including ACTDs, to address deployable C2 requirements. Expand the Millennium Challenge '02 (MC02) experimentation capability to aid in developing the SJFHQ construct. Utilizing the compiled and prioritized list of applications developed by the services and RCCs in FY03 for the DJC2 baseline, develop the architecture for block 1 of the DJC2 capability. Emphasize technology assessment and integration and incorporation of existing commerical technologies rather than technology development to provide a prototype capability to the warfighter and to support him in the evaluation of that capability.

	FY 02	FY 03	FY 04	FY 05
Accomplishments/Effort/Subtotal Cost	0.000	0.000	32.000	0.000
RDT&E Articles Quantity				

Design, develop, integrate and implement two DJC2 test, training and evaluation suites at JFCOM. These suites will consist of legacy components of the baseline configuration and prototype systems and capabilities from both the block 2 DJC2 development and prototype capabilities developed for the SJFHQ concept demonstrations. The test and evaluation suites will be used at J7 to participate in the refinement of operational requirements and process. The training suite will be utilized at J9 to develop joint training requirements and products, test those requirements on operator and maintenance personnel manning the test and evaluation suite, and refine those requirements and products for use in production configurations.

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification		DATE: **February 2003**
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND NAME
RDT&E, N / BA 4	0603237N Deployable Joint Command & Control	X3050 DJC2

(U) C. PROGRAM CHANGE SUMMARY:

(U) Funding:	FY 2002	FY 2003	FY 2004	FY 2005
President's Budget:	0.000	39.772		
Current BES/President's Budget	0.000	31.761	79.449	43.181
Total Adjustments	0.000	-8.011	0.000	0.000

Summary of Adjustments

Sec. 8100 Business Process Reform		-0.130		
Sec. 8135 Economic Assumptions		-0.182		
Sec. 8109 IT Cost Growth		-0.060		
Sec 8029, P.L. 107-248 FY03 FFRDC reduction		-0.023		
DJC2 - Production Reduction		-14.772		
FY03 DERF Congressional add		7.500		
Miscellaneous Department Adjustments		-0.344		
Subtotal	0.000	-8.011	0.000	0.000

(U) Schedule:

Not Applicable

(U) Technical:

Not Applicable

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification		DATE: **February 2003**
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND NAME
RDT&E, N / BA 4	0603237N Deployable Joint Command & Control	X3050 DJC2

(U) D. OTHER PROGRAM FUNDING SUMMARY:

Line Item No. & Name	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Complete	Total Cost
OPN BLI 2804	0	0	46,551	33,164	28,897	0	0	0	Cont.	Cont.
SCN (0204228N)	0	0	0	0	0	60,000	0	0	Cont.	Cont.

(U) E. ACQUISITION STRATEGY:

This RDT&E line supports an evolutionary acquisition strategy using spiral development. The intent of this strategy is to develop a system based upon a current understanding of joint requirements, rapidly field systems based upon those requirements, analyze operational utilization of the systems, and roll the results of the analysis into periodic upgrades of the systems to maintain currency and maximize operational effectiveness. The block 1 configuration will be based upon existing, service-specific mobile C4I systems, scaled to the Combatant Command level. The block 2 and subsequent configurations will include newly developed capabilities based on emergent, joint requirements and operational feedback based upon utilization of earlier spiral systems.

CLASSIFICATION:

Exhibit R-3 Cost Analysis (page 1)								DATE: **February 2003**				
APPROPRIATION/BUDGET ACTIVITY **RDT&E, N / BA 4**			PROGRAM ELEMENT 0603237N Deployable Joint Command & Control			PROJECT NUMBER AND NAME X3050 DJC2						
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 03 Cost	FY 03 Award Date	FY 04 Cost	FY 04 Award Date	FY 05 Cost	FY 05 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Primary Hardware Development (Product Development)				6.500							6.500	
Ancillary Hardware Development											0.000	
Aircraft Integration											0.000	
Ship Integration											0.000	
Ship Suitability											0.000	
Systems Engineering	TBD	TBD	0.000	15.761	VARIOUS	20.463	VARIOUS	18.181	VARIOUS	CONTINUING	Continuing	
Training Development											0.000	
Licenses											0.000	
Tooling											0.000	
GFE											0.000	
Award Fees											0.000	
Subtotal Product Development			0.000	22.261		20.463		18.181		CONTINUING	Continuing	
Remarks:												
Development Support											0.000	
Software Development	TBD	TBD		0.000	VARIOUS	46.000	VARIOUS	13.500	VARIOUS	CONTINUING	Continuing	
Integrated Logistics Support											0.000	
Configuration Management											0.000	
Technical Data											0.000	
Studies & Analyses											0.000	
GFE											0.000	
Award Fees											0.000	
Subtotal Support			0.000	0.000		46.000		13.500		CONTINUING	Continuing	
Remarks:												

CLASSIFICATION:

Exhibit R-3 Cost Analysis (page 2)								DATE: **February 2003**				
APPROPRIATION/BUDGET ACTIVITY **RDT&E, N / BA 4**		PROGRAM ELEMENT 0603237N Deployable Joint Command & Control			PROJECT NUMBER AND NAME X3050 DJC2							
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 03 Cost	FY 03 Award Date	FY 04 Cost	FY 04 Award Date	FY 05 Cost	FY 05 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Developmental Test & Evaluation	TBD	TBD		7.000	VARIOUS	10.000	VARIOUS	10.000	VARIOUS	CONTINUING	Continuing	
Operational Test & Evaluation											0.000	
Live Fire Test & Evaluation											0.000	
Test Assets											0.000	
Tooling											0.000	
GFE											0.000	
Award Fees											0.000	
Subtotal T&E			0.000	7.000		10.000		10.000		0.000	27.000	
Remarks:												
Contractor Engineering Support											0.000	
Government Engineering Support											0.000	
Program Management Support	TBD	TBD		2.500	VARIOUS	2.986	VARIOUS	1.500	VARIOUS	CONTINUING	Continuing	
Travel											0.000	
Transportation											0.000	
SBIR Assessment											0.000	
Subtotal Management			0.000	2.500		2.986		1.500		0.000	6.986	
Remarks:												
Total Cost			0.000	31.761		79.449		43.181		CONTINUING	Continuing	
Remarks:												

R-1 SHOPPING LIST - Item No. 37

CLASSIFICATION:

EXHIBIT R4, Schedule Profile																													DATE: **February 2003**			
APPROPRIATION/BUDGET ACTIVITY **RDT&E, N / BA 4**									PROGRAM ELEMENT NUMBER AND NAME 0603237N Deployable Joint Command & Control														PROJECT NUMBER AND NAME X3050 DJC2											
Fiscal Year	2002				2003				2004				2005				2006				2007				2008				2009			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Acquisition Milestones																																
MILESTONE A			▲																													
MILESTONE B Block. 1-2							▲																									
MILESTONE C							▲ BLOCK 1						▲ BLOCK 2																			
Software 1XXSW Delivery 2XXSW Delivery																																
Test & Evaluation Milestones Development Test Operational Test																																
Production Milestones																																
Deliveries																																

R-1 SHOPPING LIST - Item No. 37

CLASSIFICATION:

Exhibit R-4a, Schedule Detail					DATE: **February 2003**			
APPROPRIATION/BUDGET ACTIVITY **RDT&E, N / BA 4**	PROGRAM ELEMENT 0603237N Deployable Joint Command & Control				PROJECT NUMBER AND NAME X3050 DJC2			
Schedule Profile	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009
MILESTONE A	Q3							
MILESTONE B								
BLOCK 1		Q3						
BLOCK 2		Q3						
MILESTONE C								
BLOCK 1		Q3						
BLOCK 2				Q1				