

Exhibit R-2, RDT&E Budget Item Justification								Date: February 2004	
APPROPRIATION/BUDGET ACTIVITY					R-1 ITEM NOMENCLATURE				
RDT&E, Defense Wide BA-7					0305125D8Z/CRITICAL INFRASTRUCTURE PROTECTION (CIP)				
COST (\$ in Millions)	FY 03*	FY 04*	FY 05	FY 06	FY 07	FY 08	FY 09	Cost to Complete	Total Cost
Total PE Cost	0	2.023	28.021	11.108	11.952	12.214	12.474	Continues	Continues
Critical Infrastructure Protection	0	2.023	28.021	11.108	11.952	12.214	12.474	Continues	Continues

* Previous funding in the Navy RDT&E. This is not a new start.

A. Mission Description and Budget Item Justification

The DoD Critical Infrastructure Protection (CIP) program encompasses the identification of assets critical to DoD missions, vulnerability/risk assessment of critical Department of Defense (DoD) assets, and ensuring continued service of critical assets via remediation, mitigation, and emergency response.

The CIP program will conduct focused research to fully implement the capability to consistently identify critical COCOM assets; determine operational impacts of their loss; track the interdependencies of Defense Infrastructures (DI); assess vulnerabilities of critical assets; recommend courses for mitigation of vulnerabilities; exchange asset and criticality data; and combine these efforts into a standardized architecture for the DoD CIP program.

The CIP program's key requirements are: the establishment of consistent guidance, direction, and training related to CIP Analysis and Assessment (A&A); continued support of the Joint Chiefs of Staff (JCS) mandated Combatant Commander identification of critical missions/capabilities; establishment and operation of the CIP Common Operational Picture (COP) throughout DoD world-wide; establishment of CIP focused vulnerability assessments to be called "Full Spectrum Vulnerability Assessments" (FSVA); testing FSVA CONUS and OCONUS; documenting CIP A&A processes and procedures; and the inclusion of the Defense Industrial Base in the CIP program.

B. Program Change Summary:

Change Summary Explanation: This program is not a new start. The difference in funding from the President's Budget PB04 and PB05 reflect the change of sponsorship from the Navy to the ASD(HD) per the Secretary of Defense direction.

	FY 2003	FY 2004	FY 2005
Previous President's Budget	0	0	0
Current President's Budget	0	2.023	28.021
Total Adjustments:	0	2.023	28.021
Congressional program reductions			
Congressional rescissions			
Congressional increases			
Reprogrammings			
SBIR Transfer			
Other		2.023	28.021

Exhibit R-2a, RDT&E Project Justification								Date: February 2004	
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT		PROJECT NAME AND NUMBER				
RDT&E, D BA-7 Operational Systems Development			0305125D8Z		CRITICAL INFRASTRUCTURE PROTECTION				
Cost (\$ in Millions)	FY 03*	FY 04*	FY 05	FY 06	FY 07	FY 08	FY 09	Cost to Complete	Total Cost
Critical Infrastructure Protection	0	2.023	28.021	11.108	11.952	12.214	12.474	Continues	Continues
* Previous funding in the Navy RDT&E. This is not a new start.									
A. Mission Description and Budget Item Justification									
<u>FY 03 JUSTIFICATION</u> N/A									
FY03 efforts are funded with Navy resources. Assistant Secretary of Defense (Homeland Defense) became the sponsor for these activities in September 2003. The CIP Program funding will be fully transitioned in FY05.									
<u>FY 04 JUSTIFICATION:</u>									
FY04 efforts are funded with Navy resources. Assistant Secretary of Defense (Homeland Defense) became the sponsor for these activities in September 2003. The CIP Program funding will be fully transitioned in FY05.									
(U) (\$1.016) CIP OPERATIONAL SUPPORT (CRISES MANAGEMENT):									
The program requires a capability to field, staff, and/or operate CIP/Mission Assurance-related crises management response operations centers. These operation centers can be expected to require support 24 hours per day/7 days a week during periods of crises management. The program will develop and maintain the capability to ensure that a dedicated CIP/Mission Assurance-focused operations center is capable of 24/7 operations for periods required by the program. The program will support the manning and operations of key operations centers, e.g., the Executive Support Center (ESC), in order to ensure that key leaders have access to CIP/Mission Assurance-related completed analysis. To ensure that appropriate non-DoD intelligence information is available to CIP/Mission Assurance Operations Centers, and to support ASD(HD) directed operations, exercises, and events, the program will liaise with appropriate non-DoD homeland security organizations, as directed to the program office by the ASD(HD) and Joint Staff.									
• (U) (\$1.007) OPERATIONAL SUPPORT (DAY TO DAY):									
The program will develop and maintain the capability to ensure that a designated CIP/Mission Assurance Operations Center (MAOC) is staffed and equipped for 8/5 receipt of operational taskings, action tracking of CIP workload, and information exchanges. To support “Drill of the Day”, the program will respond to CIP/Mission Assurance (MA)-related information requests on a timely, effective basis. This requirement directly supports the ASD(HD), Joint Staff, and other designated organizations, ability to obtain quick response, accurate infrastructure analysis, assessment, status, and CIP relationships to emerging threat information.									
<u>FY 05 JUSTIFICATION</u>									
• (U) (\$5.604) COMBATANT COMMAND MISSION CHARACTERIZATION:									
The program office will continue the development and maintenance of the capability to perform Mission Area Analysis (MAA) for all Combatant									

Exhibit R-2a, RDT&E Project Justification

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Commanders (CC), ensure the MAA processes will accommodate differences in CC areas of responsibility (AOR) and planning processes, and will focus on identifying the mission assets critical to performance of CC missions, operations, or taskings. Initial identification of combatant commander critical missions/capabilities will be completed in FY04. Focus in FY05 will be institutionalization of CIP MAA throughout DoD with formal approval by Joint Staff and ASD(HD). Defense Infrastructure (DI) sector characterization in support of MAA for CC's and DI Analysis and Assessment (A&A) will be formalized and instituted throughout DoD DI lead agencies. DI characterizations will be expanded to encompass services, components and component commands supporting CIP. Additionally, characterization of Defense Industrial Base (DIB) functions, systems and assets will be substantively performed in FY05. Commercial Infrastructure (CI) A&A will be performed in accordance with (IAW) program office tasking for (1) designated on-site assessments, (2) designated National Security Special Events, (3) taskings from or validated by the ASD(HD), (4) requests from CC, and (5) quick response taskings. Identification of the interdependencies of military assets, intra- and inter-dependencies of DoD sector/supporting assets, and commercial infrastructure assets will be developed and applied to CIP taskings. CIP A&A will focus on deriving impacts to DoD mission and will fully integrate CC, DI, installation, and CI critical asset disruption impacts for all taskings relative to military missions. Discrete remediation and response measures will be identified for all vulnerabilities identified. All CIP A&A results, remediation and response measures will be entered in the appropriate databases CIP databases.

- (U) (\$8.406) DEVELOP AND APPLY CIP VULNERABILITY/RISK ASSESSMENTS (V/RA):

The CIP program will implement standards for CIP FSVA. The program will initiate the application of (1) detailed standards for the full range of scaleable CIP FSVA, (2) CIP FSVA to DoD critical assets, (3) an ASD(HD) CIP FSVA Instruction, and (4) CIP FSVAV/RA users manual for training and certification of CIP assessment teams. CIP FSVA participants will be trained and certified to perform CIP FSVA. CIP FSVA will be performed IAW a scaleable assessment capability that permits less-than-full-up assessments to be performed with smaller teams and in shorter timeframes, and in greater quantity than full-up CIP FSVA. FY05 capability of all assessment teams to perform CIP FSVA will be not less than 40, and not more than 60, CIP FSVA per year. Additional CIP FSVA capability will be provided thru O&M funding. The program will manage and maintain the DoD CIP Vulnerability Assessment Catalog (VAC) to encompass inclusion of all assessments applicable to CIP. The program office will manage the CIP FSVA scheduling, assignment, performance, completion, information exchange, and customer response to ensure quality control of CIP V/RA products, services, and data exchange.

- (U) (\$2.802) CIP INDICATIONS AND WARNING (I&W):

The program requires the development of methods and information exchange systems to assess appropriate threat/intelligence information and will therefore establish on-going, working relationships with DoD and non-DoD INTEL organizations as well as exchange protocols with INTEL organizations. The program office will continue the establishment of the ASD(HD) mandated CIP I&W or monitoring and reporting (M&R) capability. This capability must (1) support daily infrastructure threat analysis and trend monitoring for the program and ASD(HD), Joint Staff and other designated users and, (2) ensure that threat analysis, either developed by appropriate DoD or non-DoD intelligence organizations, is included in CIP operational decision support.

- (U) (\$1.401) CIP OPERATIONAL SUPPORT (CRISES MANAGEMENT):

The program requires a capability to field, staff, and/or operate CIP/Mission Assurance-related crises management response operations centers. These operation centers can be expected to require support 24 hours per day/7 days a week during periods of crises management. The program will develop and maintain the capability to ensure that a dedicated CIP/Mission Assurance-focused operations center is capable of 24/7 operations for periods required by the program. The program will support the manning and operations of key operations centers, e.g., the Executive Support Center (ESC), in

order to ensure that key leaders have access to CIP/Mission Assurance-related completed analysis. To ensure that appropriate non-DoD intelligence information is available to CIP/Mission Assurance Operations Centers, and to support ASD(HD) directed operations, exercises, and events, the program will liaise with appropriate non-DoD homeland security organizations, as directed to the program office by the ASD(HD) and Joint Staff.

- (U) (\$1.401) OPERATIONAL SUPPORT (DAY TO DAY):

The program will develop and maintain the capability to ensure that a designated CIP/Mission Assurance Operations Center (MAOC) is staffed and equipped for 8/5 receipt of operational taskings, action tracking of CIP workload, and information exchanges. To support “Drill of the Day”, the program will respond to CIP/Mission Assurance (MA)-related information requests on a timely, effective basis. This requirement directly supports the ASD(HD), Joint Staff, and other designated organizations, ability to obtain quick response, accurate infrastructure analysis, assessment, status, and CIP relationships to emerging threat information.

- (U) (\$5.043) STANDARDIZED CIP ARCHITECTURE:

CIP systems architecture development and documentation is essential to ensure that all appropriate CIP data, data exchange, data brokering, and results reporting meets valid, documented requirements and meets CIP interoperability goals. The program will establish a comprehensive systems architecture strategy, concept of operations (ConOps), and implementation plan for CIP systems architecture. The program will ensure that the DoD Information Technology Security Certification and Accreditation Process (DITSCAP) certification and accreditation requirements are met for all CIP systems and architecture. The program office will maintain the capability to perform and coordinate brokering of relevant infrastructure/CIP data with DoD and non-DoD, government and private organizations. The program office will serve as the DoD data brokering agent for CIP-related data and/or information. The program will (1) further develop CIP databases in support of program requirements, (2) establish and maintain configuration management of all CIP data/databases controlled by the program, and (3) integrate the CIP Mission Assurance Asset Database (MAAD) into CIP systems architecture. The program office will acquire and maintain CIP databases, systems, and connectivity. For a consistent, reliable information system presenting a Common Operating Picture (COP) for the CIP/MA community, development of the "CIP COP"/"HD MAP" and configuration management and change control will continue.

- (U) (\$1.961) COORDINATION AND INTEGRATION OF CIP R&D:

Integrated requirements determination will be achieved by (1) identifying CC requirements related to CIP, including R&D requirements, (2) working with appropriate DoD elements to obtain CIP-related requirements information, and (3) communicating these DoD requirements R&D proposals for funding consideration. The program will conduct technical evaluations of CIP-related R&D proposals (formal and informal). New CIP-related concepts will continue to be evaluated and developed. Areas of focus for new concept development will be (1) military mission assurance, (2) commercial infrastructure mission assurance, (3) vulnerability assessment tools and methods, (4) MIS, (5) GIS, (6) decision support systems, (7) CIP-focused operations centers, (8) CIP/asymmetrical threat analysis and assessment, (9) new techniques for mitigation, remediation, and response to infrastructure disruptions, (10) infrastructure threat red teaming, and (11) multi-level security systems for advanced information sharing. R&D related to CIP/MA will be appropriately tracked and reported. The program will engage in information gathering and regular reporting of CIP/MA-related R&D. The program must engage, through appropriate security channels, with DoD special programs to ensure that “special technologies” developments are known and included in CIP planning and activities. The nature of “special programs” and “special technologies countermeasures” requires that R&D and countermeasures developments be appropriately classified. The program office will ensure that such development is appropriately integrated with other CIP/MA development.

• (U) (\$1.403) METHODOLOGY DEVELOPMENT AND DOCUMENTATION:

The program must continue to (1) further develop CIP A&A methodologies, processes, procedures, tools, and models, (2) update documentation of all A&A methodologies, processes, procedures, tools, and models development, (3) maintain configuration control of all CIP documentation, and (4) perform continuing experimentation to refine, improve, and validate CIP A&A methodologies, processes, procedures, tools, and models. In addition to CIP A&A, the program must (1) ensure the consistent application of CIP response methodologies, processes, and procedures, (2) document CIP response methodologies, processes, and procedures, and (3) incorporate appropriate CIP response methodologies, processes, and procedures in ongoing CIP work.

B. Other Program Funding Summary: Funding provided to the DPO-MA (formerly JPO-STC) to support continued development of the capability to provide Combatant Commanders, military services and DoD mission planners with the ability to assess their infrastructure dependencies and interdependencies and the potential impact on military operations resulting from disruptions to key infrastructure components.

Defense Emergency Response Funding (DERF) was provided to identify mission critical infrastructure assets; coordinate critical infrastructure analysis, assessment, and protection recommendations; accelerate development of methods and technologies to continuously assess asset and infrastructure health; and accelerate development of a CIP Common Relevant Operation Picture visualization capability.

	<u>FY02</u>	<u>FY03</u>	<u>FY04</u>	<u>FY05</u>	<u>FY06</u>	<u>FY07</u>	<u>FY08</u>	<u>FY09</u>	<u>TO COMPLETE</u>
RDT&E,N P.E. 0603235N	15.0	6.5	12.2						
RDT&E,N P.E. 0603734N	20.2	13.1	10.2						
RDT&E,N P.E. 0605116D	1.3	6.7							
Defense Emergency Response Fund DERF	7.4								

C. Acquisition Strategy: N/A

D. Schedule Profile:

	<u>FY03</u>	<u>FY04</u>	<u>FY05</u>	<u>TO COMPLETE</u>
<u>Infrastructure Assurance</u>				
CONUS Locations	1-4QFY03	1-4QFY04	1-4QFY05	Continuing
OCONUS Operational Assessments	1-4QFY03	1-4QFY04	1-4QFY05	Continuing
Network Interdependency Assessments	1-4QFY03	1-4QFY04	1-4QFY05	Continuing
CINC Appendix 16				
PACOM				
EUCOM		1-4QFY04		
CENTCOM			1-4QFY05	
ODIN	1-4QFY03	1-4QFY04	1-4QFY05	Continuing
CROP	1-4QFY03	1-4QFY04	1-4QFY05	Continuing

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Exhibit R-3 Cost Analysis									Date: February 2004			
APPROPRIATION/BUDGET ACTIVITY RDT&E, D BA-7 Operational Systems Development				PROGRAM ELEMENT 0305125D8Z					PROJECT NAME AND NUMBER CRITICAL INFRASTRUCTURE PROTECTION			
Cost Categories	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost**	FY03 Cost	FY03 Award Date	FY04 Cost	FY04 Award Date	FY05 Cost	FY05 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Product Development	N/A											
Subtotal Product Development	N/A											
Remarks: N/A												
Development Support												
Combat Command Mission Characterizations	WR/MIPR	NSWCDD, Dahlgren, VA						3.510	10/1/04	Cont.	Cont.	N/A
	SS/CPFF	Booz Allen & Hamilton, McLean, VA						500	1/24/05	Cont.	Cont.	N/A
	GO	Argonne Nat'l Lab, Argonne, IL						844	10/01/04	Cont.	Cont.	N/A
	C/CPFF/IDIQ	Arinc, Inc., Panama City, FL						598	3/28/05	Cont.	Cont.	N/A
	SS/CPFF/IDIQ	Envisioneering, Dahlgren, VA						152	8/29/05	Cont.	Cont.	N/A
		Subtotal						5.604				
CIP Vulnerability Risk Assessments	WR/MIPR	NSWCDD, Dahlgren, VA						4.950	10/01/04	Cont.	Cont.	N/A
	C/CPFF/IDIQ	Arinc, Inc., Panama City, FL						3.456	1/26/05	Cont.	Cont.	N/A
		Subtotal						8.406				
Integrated CIP Indications & Warnings (I&W)	WR/MIPR	NSWCDD, Dahlgren, VA						684	10/01/04	Cont.	Cont.	N/A
	SS/CPFF/IDIQ	Booz Allen & Hamilton, McLean, VA						2.118	2/20/05	Cont.	Cont.	N/A
		Subtotal						2.802				
Operational Support (Crisis Management)	WR/MIPR	NSWCDD, Dahlgren, VA						502	10/01/04	Cont.	Cont.	N/A
	C/CPFF/IDIQ	Raytheon, Arlington, VA						899	2/5/05			
		Subtotal						1.401				
Operational Support (Day to Day)	WR/MIPR	NSWCDD, Dahlgren, VA						1.218	10/01/04	Cont.	Cont.	N/A

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	SS/CPFF/ IDIQ	Raytheon, Arlington, VA						183	2/5/05			
		Subtotal						1.401				
Standardized CIP Architecture	WR/MIPR	NSWCDD, Dahlgren, VA						2.013	10/01/04	Cont.	Cont.	N/A
	C/CPFF/ IDIQ	Booz Allen & Hamilton, McLean, VA						1.913	11/1/04	Cont.	Cont.	N/A
	C/CPFF	IDS, Inc. Arlington, VA						1.117	2/1/05	Cont.	Cont.	
		Subtotal						5.043				
CIP RDT&E	WR/MIPR	NSWCDD, Dahlgren, VA						1.895	10/01/04	Cont.	Cont.	N/A
	GO	Argonne Nat'l Lab, Argonne, IL						66	8/31/05	Cont.	Cont.	N/A
		Subtotal						1.961				
Methodology Development & Documentation	SS/CPFF/ IDIQ	Raytheon, Arlington, VA						1.403	12/1/04	Cont.	Cont.	N/A
		Subtotal						1.403				
Total								28.021				

Remarks: