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CLASSIFICATION:

EXHIBIT R-2, RDT&E Budget Item Justification						DATE: February 2006			
APPROPRIATION/BUDGET ACTIVITY RESEARCH DEVELOPMENT TEST & EVALUATION, NAVY / BA-4					R-1 ITEM NOMENCLATURE 0603658N Cooperative Engagement Capability				
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011		
Total PE Cost	99.618	99.557	53.406	50.458	53.738	57.975	55.171		
2039/Cooperative Engagement Capability (CEC)	\$99.618	\$86.757	\$53.406	\$50.458	\$53.738	\$57.975	\$55.171		
9999/Congressional Adds		\$12.800							

A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

Cooperative Engagement Capability (CEC) significantly improves Battle Force Anti-Air Warfare (AAW) capability by coordinating all Battle Force AAW sensors into a single, real-time, composite track picture capable of fire control quality. CEC distributes sensor data from each ship and aircraft, or cooperating unit (CU), to all other CUs in the battle force through a real-time, line of sight, high data rate sensor and engagement data distribution network. CEC is highly resistant to jamming and provides accurate gridlocking between CUs. Each CU independently employs high capacity, parallel processing and advanced algorithms to combine all distributed sensor data into a fire control quality track picture which is the same for all CUs. CEC data is presented as a superset of the best AAW sensor capabilities from each CU, all of which are integrated into a single input to each CU's combat weapons system. CEC significantly improves our Battle Force defense in depth, including both local area and ship defense capabilities against current and future AAW threats. Moreover, CEC provides critical connectivity and integration of over-land air defense systems capable of countering emerging air threats, including land attack cruise missiles, in a complex littoral environment.

CEC consists of the Data Distribution System (DDS), the Cooperative Engagement Processor (CEP), and Combat System modifications. The DDS encodes and distributes ownship sensor and engagement data and is a high capacity, jam resistant, directive system providing a precision gridlocking and high throughput of data. The CEP is a high capacity distributed processor that is able to process force levels of data in near real-time. This data is passed to the ship's combat system as high quality data for which the ship can cue its onboard sensors or use the data to engage targets without actually tracking them.

The Navy has begun implementation of a Pre-Planned Product Improvement (P3I) approach to modify the current equipment to meet reduced size, weight, cost, power and cooling objectives. This P3I approach also supports continuity for interoperability improvements and program protection, as well as supporting open architecture initiatives, comms independence, Joint Tactical Radio System (JTRS) compliancy, and Global Information Grid (GIG) horizontal fusion initiatives. P3I will provide hardware which complies with Category 3 Open Architecture Computing Environment (OACE) standards with rehosted existing software, which will be fielded fleet-wide to allow affordable replacement of obsolete computing system components and eliminate dependencies on "closed" equipment, operating systems, and middleware.

Additionally, CEC is working with Joint Single Integrated Air Picture System Engineering Organization (JSSEO) to jointly engineer a sensor measurement fusion and track management algorithm set of solutions which is viable for all Services to implement toward achieving optimum interoperability across the battlespace. This effort supports re-architecting of battleforce functionality in order to support the Navy's Open Architecture functional architecture which establishes a common functional framework across Navy programs and platforms to reduce development cost by promoting software reuse. This architecture promotes interoperability by allowing functionality to be consistently engineered across the battlespace. The Open Architecture Track Manager (OATM) is derived from an Integrated Architecture Behavioral Model (IABM) through a series of configuration deliveries which will include Joint Track Management (JTM) functionality. General Dynamics was competitively awarded the Systems Integrator/Design Agent (SI/DA) contract in March 2005 to facilitate the development, integration, and testing of the JTM functionality across the applicable Navy Programs (e.g. DD(X), E-2, LCS).

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Exhibit R-2, RDTEN Budget Item Justification
(Exhibit R-2, page 1 of 11)

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EXHIBIT R-2, RDT&E Budget Item Justification			DATE: February 2006																
APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-4	PROGRAM ELEMENT NUMBER AND NAME 0603658N Cooperative Engagement Capability	PROJECT NUMBER AND NAME 2039/Cooperative Engagement Capability																	
B. Accomplishments/Planned Program																			
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;"></td> <td style="width: 15%;">FY 05</td> <td style="width: 15%;">FY 06</td> <td style="width: 15%;">FY 07</td> <td style="width: 35%;"></td> </tr> <tr> <td>Accomplishments/Effort/Subtotal Cost</td> <td style="text-align: center;">7.849</td> <td style="text-align: center;">12.518</td> <td style="text-align: center;">2.000</td> <td></td> </tr> <tr> <td>RDT&E Articles Quantity</td> <td></td> <td></td> <td></td> <td></td> </tr> </table> <p style="margin-top: 5px;">FY05 Plans: Continued development, integration and testing of computer program Baseline 2.1 for ACDS, AEGIS, and SSDS platforms. Completed FOT&E-2 testing efforts on E-2C. Began FOT&E-3 testing efforts on SSDS Mk2 Mod 1 (CVN 76) equipped ships.</p> <p style="margin-top: 5px;">FY06 Plans: Continue development, integration and testing of computer program Baseline 2.1 for ACDS, AEGIS, and SSDS platforms. Complete FOT&E-3 testing efforts. Begin FOT&E-4 testing efforts on SSDS Mk2 Mod 2 (LPD 17) equipped ships.</p> <p style="margin-top: 5px;">FY07 Plans: Continue development, integration and testing of computer program Baseline 2.1 for ACDS, AEGIS, and SSDS platforms. Complete FOT&E-4 testing efforts and finalize test analysis.</p>						FY 05	FY 06	FY 07		Accomplishments/Effort/Subtotal Cost	7.849	12.518	2.000		RDT&E Articles Quantity				
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EXHIBIT R-2, RDT&E Budget Item Justification			DATE: February 2006	
APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-4	PROGRAM ELEMENT NUMBER AND NAME 0603658N Cooperative Engagement Capability	PROJECT NUMBER AND NAME 2039/Cooperative Engagement Capability		
B. Accomplishments/Planned Program (Cont.)				
	FY 05	FY 06	FY 07	
Accomplishments/Effort/Subtotal Cost	31.500	20.149	18.245	
RDT&E Articles Quantity				
<p>FY05 Plans: Awarded Systems Integrator/Design Agent (SI/DA) contract for Open Architecture Track Manager (OATM) / Integrated Architecture Behavioral Model (IABM) integration, implementation, and test. Completed Open Architecture (SSDS) efforts.</p> <p>FY06 Plans: Continue SI/DA contract for OATM / IABM integration, implementation, and test.</p> <p>FY07 Plans: Continue SI/DA contract for OATM / IABM integration, implementation, and test.</p>				
	FY 05	FY 06	FY 07	
Accomplishments/Effort/Subtotal Cost	40.500	29.500	1.000	
RDT&E Articles Quantity				
<p>FY05 Plans: Continued P3I hardware and software efforts, rehost of existing software on Open Architecture Computing Environment (OACE) CEP, comms independence efforts including antenna alternatives and JTRS compliancy, and Mini Terminal alternatives.</p> <p>FY06 Plans: Continue P3I hardware and software efforts including DDS breakup and test, comms independence efforts including antenna alternatives and JTRS compliancy, and Mini Terminal alternatives efforts.</p> <p>FY07 Plans: Complete Mini Terminal alternatives efforts.</p>				
	FY 05	FY 06	FY 07	
Accomplishments/Effort/Subtotal Cost	5.759	6.640	9.469	
RDT&E Articles Quantity				
<p>FY05 Plans: Continued CEC system improvements including enhanced communications, expansion of networking capability, development of system protection/multi-level secure operational-level secure operations, Planar Array Active Antenna (PAAA), and Modeling and Simulation.</p> <p>FY06 Plans: Continue CEC system improvements including enhanced communications, expansion of networking capability, development of system protection/multi-level secure operational-level secure operations, Planar Array Active Antenna (PAAA), and Modeling and Simulation.</p> <p>FY07 Plans: Continue CEC system improvements including enhanced communications, expansion of networking capability, development of system protection/multi-level secure operational-level secure operations, Planar Array Active Antenna (PAAA), and Modeling and Simulation.</p>				

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B. Accomplishments/Planned Program (Cont.)				
	FY 05	FY 06	FY 07	
Accomplishments/Effort/Subtotal Cost	2.000	2.000	2.000	
RDT&E Articles Quantity				
<p>FY05 Plan: Continued participation in system interoperability exercises, Joint Integrated Demonstrations, and Network Centric Collaborative Targeting (NCCT). FY06 Plan: Continue participation in system interoperability exercises and Joint Integrated Demonstrations. FY07 Plan: Continue participation in system interoperability exercises and Joint Integrated Demonstrations.</p>				
	FY 05	FY 06	FY 07	
Accomplishments/Effort/Subtotal Cost	5.510	7.080	5.120	
RDT&E Articles Quantity				
<p>FY05 Plan: Continued field activity support of CEC development efforts (I.e. Technical Direction Agent, In-Service Engineering, Integrated Logistics Support Planning) and program management support. FY06 Plan: Continue field activity support of CEC development efforts (I.e. Technical Direction Agent, In-Service Engineering, Integrated Logistics Support Planning) and program management support. FY07 Plan: Continue field activity support of CEC development efforts (I.e. Technical Direction Agent, In-Service Engineering, Integrated Logistics Support Planning) and program management support.</p>				

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<p>C. PROGRAM CHANGE SUMMARY:</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"></th> <th style="text-align: right;">FY 2005</th> <th style="text-align: right;">FY 2006</th> <th style="text-align: right;">FY 2007</th> </tr> </thead> <tbody> <tr> <td>Funding:</td> <td></td> <td></td> <td></td> </tr> <tr> <td>FY06 President's Budget:</td> <td style="text-align: right;">102.150</td> <td style="text-align: right;">88.135</td> <td style="text-align: right;">59.881</td> </tr> <tr> <td>FY07 President's Budget:</td> <td style="text-align: right;">99.618</td> <td style="text-align: right;">86.757</td> <td style="text-align: right;">53.406</td> </tr> <tr> <td>Total Adjustments</td> <td style="text-align: right; border-top: 1px solid black;">-2.532</td> <td style="text-align: right; border-top: 1px solid black;">-1.378</td> <td style="text-align: right; border-top: 1px solid black;">-6.475</td> </tr> <tr> <td colspan="4" style="padding-top: 10px;">Summary of Adjustments</td> </tr> <tr> <td> Programmatic Changes</td> <td></td> <td></td> <td style="text-align: right;">-6.325</td> </tr> <tr> <td> Other General Provisions</td> <td style="text-align: right;">-.242</td> <td style="text-align: right;">-1.378</td> <td></td> </tr> <tr> <td> SBIR</td> <td style="text-align: right;">-2.290</td> <td></td> <td></td> </tr> <tr> <td> Other misc. changes</td> <td></td> <td></td> <td style="text-align: right;">-.150</td> </tr> <tr> <td>Subtotal</td> <td style="text-align: right; border-top: 1px solid black; border-bottom: 1px solid black;">-2.532</td> <td style="text-align: right; border-top: 1px solid black; border-bottom: 1px solid black;">-1.378</td> <td style="text-align: right; border-top: 1px solid black; border-bottom: 1px solid black;">-6.475</td> </tr> </tbody> </table> <p style="margin-top: 20px;">Schedule:</p> <p>AN/USG-3 Initial Operational Capability (IOC) and AN/USG-2 Full Operational Capability (FOC) was achieved May 2005.</p> <p style="margin-top: 20px;">Technical:</p> <p>Future AN/USG-2 and AN/USG-3 systems will incorporate Pre-Planned Product Improvements (P3I) to take advantage of hardware technology advances to provide a system with reduced cost, size, and weight. Additionally, the CEC Program Office is working with the Joint Single Integrated Air Picture Systems Engineering Organization (JSSEO) to jointly engineer a sensor measurement fusion and track management set of algorithms which is viable for all Services to implement toward achieving joint interoperability across the battle space. The Open Architecture Track Manager (OATM) is derived from an Integrated Architecture Behavioral Model (IABM) through a series of configuration deliveries which will include joint track management functionality. The Joint Architecture Working group (JAWG) continues to align and define a common architecture. The JAWG is completing its efforts to document jointly agreed upon requirements and functionality, which need to be satisfied as the foundation for the initial increment of capability. The Multi-Service Engineering Assessment Working Group remains on track with its maturity assessments of the IABM incremental development releases. General Dynamics was competitively awarded the OATM Systems Integrator/Design Agent contract to facilitate OATM functional implementation across applicable Navy Programs.</p>					FY 2005	FY 2006	FY 2007	Funding:				FY06 President's Budget:	102.150	88.135	59.881	FY07 President's Budget:	99.618	86.757	53.406	Total Adjustments	-2.532	-1.378	-6.475	Summary of Adjustments				Programmatic Changes			-6.325	Other General Provisions	-.242	-1.378		SBIR	-2.290			Other misc. changes			-.150	Subtotal	-2.532	-1.378	-6.475
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APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-4			PROGRAM ELEMENT NUMBER AND NAME 0603658N Cooperative Engagement Capability			PROJECT NUMBER AND NAME 2039/Cooperative Engagement Capability			

D. OTHER PROGRAM FUNDING SUMMARY:

Line Item No. & Name	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Cost
RDT&E,N 0206313M	3.500	4.000	2.300	.900	.600			CONT	CONT
DD(X) RDTEN 0604300N			8.500					CONT	CONT
E-2D HAWKEYE 2000 RDTEN 0604234N				21.300				CONT	CONT
PMC 4640				3.000	7.000	10.000	5.000	CONT	CONT
CEC OPN 2606	67.067	20.507	22.502	32.548	37.766	31.802	27.475	CONT	CONT
CG Modernization OPN 0960		5.618	10.535	11.025	16.915	17.342	17.918	CONT	CONT
E-2C Aircraft APN 0195	11.300				17.399	17.820	18.176	CONT	CONT
Various - SCN Procurement	7.908	15.351	6.751	30.549	22.340	40.388	30.767	CONT	CONT

E. ACQUISITION STRATEGY:

A revised Acquisition Strategy was approved August 2004 to reflect the realignment of track management functions with the Joint Single Integrated Air Picture Systems Engineering organization (JSSEO) approach and Navy Open Architecture, while competing Systems Integrator functions, and utilizing a Pre-Planned Product Improvement (P3I) program in lieu of a CEC Block 2 development effort. This approach will allow for multiple industry participants and focus on joint involvement.

F. MAJOR PERFORMERS:

General Dynamics Advanced Information Systems Raytheon Systems Company Johns Hopkins University, Applied Physics Laboratory Northrop-Grumman Corporation Naval Surface Weapons Center	Fairfax, Virginia St. Petersburg, FL Laurel, MD Bethpage LI, NY Dahlgren, VA	Systems Integration / Design Agent Development Development of AN/USG-2 (shipboard) and AN/USG-3 (airborne) equipment and support of testing. Technical Design Agent for AN/USG-2 and AN/USG-3 equipment and support of testing. Integration of AN/USG-3 equipment with E-2C HAWKEYE 2000 and Advanced E2 aircraft. Software Support Activity (SSA) and Systems Engineering/Integration Agent (SE/IA).
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Exhibit R-3 Project Cost Analysis (page 1)							DATE: February 2006					
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT			PROJECT NUMBER AND NAME						
RDT&E, N / BA-4			0603658N Cooperative Engagement Capability			2039/Cooperative Engagement Capability						
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 05 Cost	FY 05 Award Date	FY 06 Cost	FY 06 Award Date	FY 07 Cost	FY 07 Award Date	Cost to Complete	Total Cost	Target Value of Contract
AN/USG-2/3 Development	CPAF	Raytheon, St. Petersburg, FL	590.774	7.118	Oct-04	5.584	Oct-05	5.880	Oct-06	Continuing	Continuing	TBD
AN/USG-2/3 Development	CPAF	Award Fees	88.196	1.053	Oct-04	.827	Oct-05	.879	Oct-06	Continuing	Continuing	TBD
AN/USG-2/3 Development/TDA	CPFF	JHU/APL, Laurel, MD	255.108	5.885	Feb-05	9.236	Oct-05	4.000	Oct-06	Continuing	Continuing	TBD
Block 2 Development/Competition	CPAF	Various	11.000								11.000	11.000
SI/DA	CPAF	General Dynamics		18.157	Mar-05	17.852	Dec-05	16.165	Dec-06	Continuing	Continuing	TBD
SI/DA	CPAF	Award Fees		2.343	Mar-05	2.297	Dec-05	2.080	Dec-06	Continuing	Continuing	TBD
P3I	CPAF	Raytheon	17.420	14.415	Dec-04	20.468	Dec-05			Continuing	Continuing	TBD
P3I	CPAF	Award Fees	2.580	2.135	Dec-04	3.032	Dec-05			Continuing	Continuing	
E-2C/AHE Aircraft Integration	CPAF	Northrop-Grumman, LI., NY	185.408	2.000	Dec-04						187.408	187.408
NIFC-CA Integration/E2-D	TBD	Various	7.908			7.570	Nov-05	14.372	Nov-06	Continuing	Continuing	TBD
Tactical Component Network (TCN)	CPFF	Various	14.576								14.576	14.576
P-3 Aircraft Integration	CPAF	Lockheed-Martin	40.377								40.377	40.377
Baseline 2.2 Development	CPAF	Lockheed-Martin	11.881								11.881	11.881
Space Based IR Sensors (SBIRS)	CPAF	Lockheed-Martin	12.843								12.843	12.843
Modeling & Simulation	PD	PMS-456	5.261								5.261	TBD
In-Service Engineering Activity	WX	NSWC, Port Hueneme, CA	20.959	.247	Nov-04	.132	Nov-05	1.338	Nov-06	Continuing	Continuing	TBD
Land Based Test Network	PD	SPAWAR (PMW-159)	1.302								1.302	1.302
Land Based Test Network	PD	NATC, Patuxent River, MD	.957								.957	.957
Software Support Activity/SEIA	WX	NSWC, Dahlgren, VA	61.472	4.885	Nov-04	1.300	Nov-05	1.500	Nov-06	Continuing	Continuing	TBD
Antenna Redesign	RC	NSWC, Crane, IN	6.483								6.483	6.483
Production Engineering Activity	WX	NSWC, Crane, IN	42.243	1.745	Nov-04	1.272	Nov-05	.169	Nov-06	Continuing	Continuing	TBD
AEGIS Integration	CPAF	Lockheed-Martin	124.933								124.933	124.933
SSDS/ACDS Integration	CPAF	Raytheon, San Diego, CA	39.871								39.871	39.871
Area Air Def. Commander (AADC)	CPAF	General Dynamics	10.096								10.096	10.096
SIAP Improvements	CPFF	JHU/APL, Laurel, MD	1.528								1.528	1.528
JTRS	Various	Various	5.000	10.000	May-05	10.000	Nov-05				25.000	25.000
SSDS OA	CPAF	Raytheon, San Diego, CA	4.474	10.941	Dec-04						15.415	15.415
RMP	Various	Various		3.300	Feb-05						3.300	3.300
Modeling & Simulation	TBD	TBD						2.750	Nov-06		2.750	2.750
Various	Various	Miscellaneous	82.272	8.829	Various	1.925	Various	1.924	Various	Continuing	Continuing	TBD
Subtotal Product Development			1,644.922	93.053		81.495		51.056		Continuing	Continuing	TBD
Remarks:												

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Exhibit R-2, RD TEN Budget Item Justification
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Exhibit R-3 Project Cost Analysis (page 2)										DATE: February 2006		
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT			PROJECT NUMBER AND NAME						
RDT&E, N / BA-4			0603658N Cooperative Engagement Capability			2039/Cooperative Engagement Capability						
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 05 Cost	FY 05 Award Date	FY 06 Cost	FY 06 Award Date	FY 07 Cost	FY 07 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Test Support	CPAF	Raytheon, St. Peters., FL	9.335	.871	Dec-04	.871	Oct-05	.435	Oct-06	Continuing	Continuing	TBD
Test Support	CPAF	Award Fees	1.383	.129	Dec-04	.129	Oct-05	.065	Oct-06	Continuing	Continuing	TBD
Test Support	CPFF	JHU/APL, Laurel, MD	11.107	.500	Feb-05	.500	Oct-05	.300	Oct-06	Continuing	Continuing	TBD
Test Support	WX	NRL, Washington, DC	7.582	1.280	Jan-05						8.862	8.862
Test Support	WX	NSWC, Port Hueneme, CA	33.059	1.126	Jan-05	1.200	Oct-05	.400	Oct-06	Continuing	Continuing	TBD
Air Operations Test Support	WX	NAVAIR (PMA-207)	7.459	.500	Jan-05						7.959	7.959
Test Data Reduction Analysis	WX	NWAS, Corona, CA	18.064	1.400	Oct-04	.883	Oct-05	.500	Oct-06	Continuing	Continuing	TBD
Test Support	WX	NSWC, Crane, IN	0.185	.094	Jan-05	.094	Oct-05			Continuing	Continuing	TBD
Test Support	WX	COMOPTEVFOR, VA	8.554	.100	Jan-05	1.035	Oct-05	.300	Oct-06	Continuing	Continuing	TBD
Various	Various	Various	7.908								7.908	7.908
Subtotal Test & Evaluation			104.636	6.000		4.712		2.000		Continuing	Continuing	TBD
Remarks:												
Program Management Support	FFP	Various	60.932	.565	Oct-04	.550	Oct-05	.350	Oct-06	Continuing	Continuing	TBD
Subtotal Management			60.932	.565		.550		.350		Continuing	Continuing	TBD
Remarks:												
Total Cost			1,810.490	99.618		86.757		53.406		Continuing	Continuing	TBD
Remarks:												

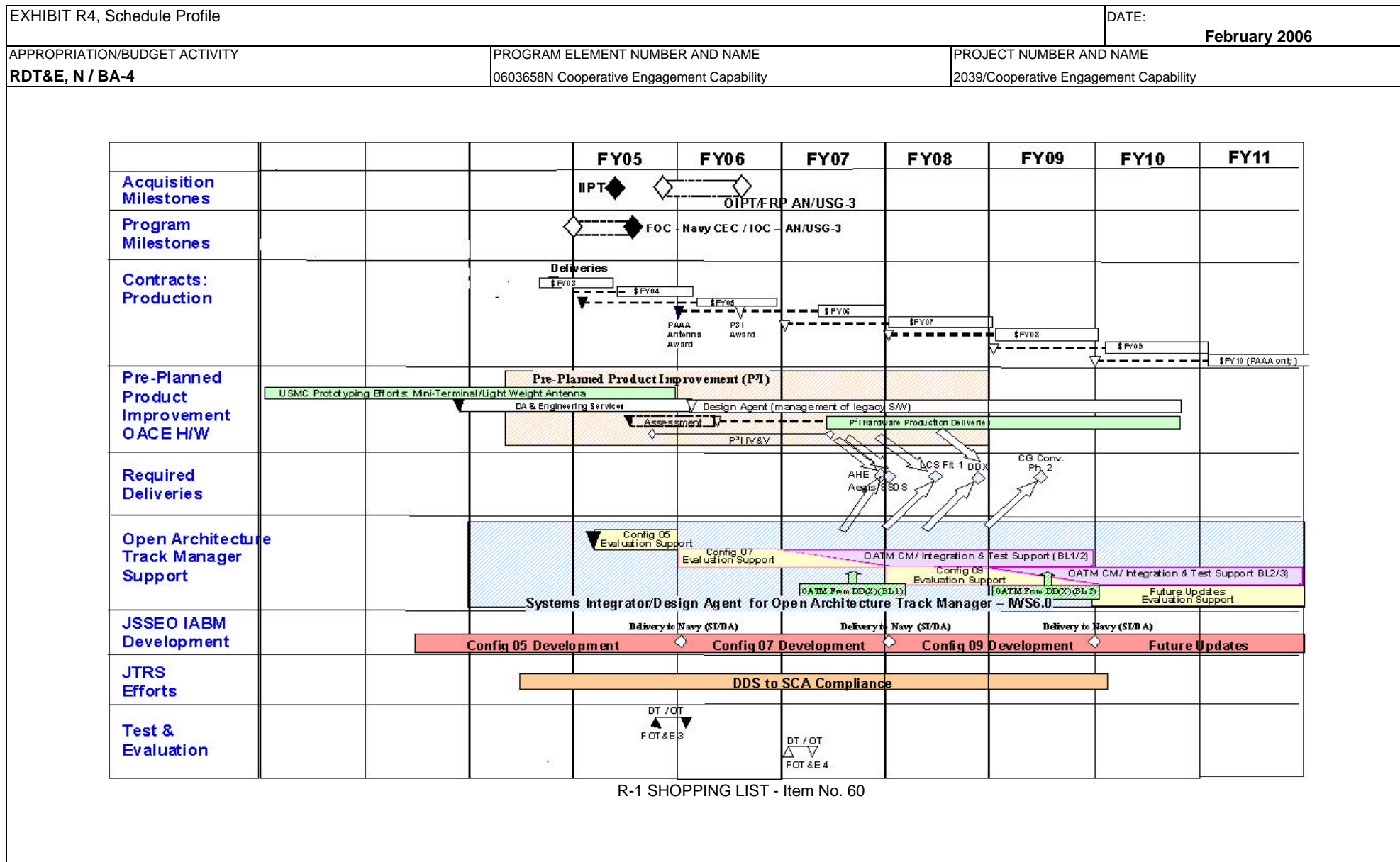
R-1 SHOPPING LIST - Item No. 60

UNCLASSIFIED

 Exhibit R-2, RD TEN Budget Item Justification
 (Exhibit R-2, page 8 of 11)

UNCLASSIFIED

CLASSIFICATION:



UNCLASSIFIED

Exhibit R-2, RDTE Budget Item Justification
(Exhibit R-2, page 9 of 11)

CLASSIFICATION:

UNCLASSIFIED

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R-1 SHOPPING LIST - Item No. 60

UNCLASSIFIED

Exhibit R-2, RD TEN Budget Item Justification
(Exhibit R-2, page 10 of 11)

CLASSIFICATION:

EXHIBIT R-2, RDT&E Budget Item Justification		DATE: February 2006																
APPROPRIATION/BUDGET ACTIVITY RDTE, N / BA-4	PROGRAM ELEMENT NUMBER AND NAME 0603658N Cooperative Engagement Capability	PROJECT NUMBER AND NAME: VARIOUS CONGRESSIONAL ADD																
CONGRESSIONAL PLUS-UPS:																		
<table border="1"><tr><td></td><td>FY 06</td><td></td><td></td><td></td></tr><tr><td>9825N</td><td>12.800</td><td></td><td></td><td></td></tr><tr><td>Cooperative Engagement Capability Tech Refresh In NIFC-CA</td><td></td><td></td><td></td><td></td></tr></table>					FY 06				9825N	12.800				Cooperative Engagement Capability Tech Refresh In NIFC-CA				
	FY 06																	
9825N	12.800																	
Cooperative Engagement Capability Tech Refresh In NIFC-CA																		
<div>FY06 Plan: Congressional Plus-Up for Cooperative Engagement Capability (CEC)Technology Refresh and NIFC-CA integration efforts.</div>																		

R-1 SHOPPING LIST - Item No. 60