

CLASSIFICATION:		UNCLASSIFIED					
EXHIBIT R-2, RDT&E BUDGET ITEM JUSTIFICATION						DATE February 2008	
APPROPRIATION/BUDGET ACTIVITY RD TEN/BA 4				R-1 ITEM NOMENCLATURE 0603658N/COOPERATIVE ENGAGEMENT			
COST (In Millions)	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
Total PE Cost	52.688	36.513	38.316	49.248	46.302	45.726	46.080
2039 / COOP Engagement	52.688	36.513	38.316	49.248	46.302	45.726	46.080
9999 / CONGRESSIONAL ADDS	0.000	0.000	0.000	0.000	0.000	0.000	0.000

A. MISSION DESCRIPTION:

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 ownership 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 Signal Data Processor (SDP) approach to modify the current equipment to meet reduced size, weight, cost, power and cooling objectives. This SDP 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. SDP 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 Program Executive Office (JPEO) 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 Joint Track Manager (JTM) is derived from an Integrated Architecture Behavior Model (IABM) through a series of configuration deliveries which will include 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. DDG 1000, E-2).

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EXHIBIT R-2, RDT&E BUDGET ITEM JUSTIFICATION (CONTINUATION) **DATE**
February 2008

APPROPRIATION/BUDGET ACTIVITY **R-1 ITEM NOMENCLATURE**
RD TEN/BA 4 **0603658N/COOPERATIVE ENGAGEMENT**

Funding includes the following Congressional adds: FY07 includes \$10.872K for CEC Improvements.

B. PROGRAM CHANGE SUMMARY:

Funding:	FY 2007	FY 2008	FY 2009
Previous President's Budget (FY08 Pres Controls)	64.296	33.283	39.174
Current FY 2009 President's Budget	52.688	36.513	38.316
Total Adjustments	-11.608	3.230	-0.858
Summary of Adjustments			
Programmatic Adjustments	-9.900	0.000	0.000
Undistributed General Reductions	-1.708	-0.745	-0.858
Congressional Increase		3.975	
Subtotal	-11.608	3.230	-0.858

C. OTHER PROGRAM FUNDING SUMMARY:

Line Item No. and Name	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Cost
PE 0206313M - RDT&E, N (Marine Corps)	2.300	0.900	0.600						
BLI 019500 - E-2D PPAs		15.975							
BLI 0102419A - RDT&E JLENS (Army)	3.170	10.000	7.175	3.950	3.950				
BLI 227300 - Procurement, Marine Corps		3.000	7.000	10.000	5.000				
BLI 260600 - Cooperative Engagement Capability/OPN	27.345	27.634	34.561	26.618	21.262	25.967	22.986		
BLI 0960 - CG Modernization/OPN	10.749	11.288	13.381	18.726	19.338	21.359	21.583		
BLI 019500 - E-2D Aircraft/APN			13.049	13.365	18.176	18.984	19.402		
ICN 52860161 - JLENS (Army) Procurement					1.614		1.679		
Various - SCN Procurement	16.181	11.701	9.211	29.507	9.920	9.913	9.714		
BLI 0900 - DDG Modernization/OPN				9.700	15.810	24.827	29.851		

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APPROPRIATION/BUDGET ACTIVITY RD TEN/BA 4	R-1 ITEM NOMENCLATURE 0603658N/COOPERATIVE ENGAGEMENT	
<p>D. ACQUISITION STRATEGY: A revision to the August 2004 Acquisition Plan (AP) was approved on 29 August 2007. The AP includes procurement requirements for the CEC from FY08-FY11 to support USN ship and Aircraft programs, the USMC Composite Tracking Network (CTN), and the Army's Joint Land Attack Cruise Missile Defense Elevated Netted Sensor System (JLENS). The AP includes requirements for the competitive procurement of the Compact Solid State Antenna (CSSA) for the USMC CTN and USA JLENS programs for FY09-FY12. The AP provides for CEC System Design Agent and Engineering Services for FY08-FY12. This AP also identifies the requirement for continued Low Rate Initial Production (LRIP) authority for the E-2D CEC system. Incremental LRIP mitigates program and design risk by linking CEC procurements to E-2D program events and testing results. The incremental LRIP strategy will be presented to the Acquisition Strategy Integrated Product Team (ASIPT) later this year for final approval. Twenty-one E-2D CEC systems are planned to be procured under LRIP authority from FY08 through FY13.</p> <p>E. MAJOR PERFORMERS: General Dynamics Advanced Information Systems /Fairfax, Virginia/Systems Integration / Design Agent Raytheon Systems Company/St. Petersburg, FL/Development of AN/USG-2 (shipboard) and AN/USG-3(airborne)equipment. Johns Hopkins University, Applied Physics Laboratory/Laurel, MD / Technical Design Agent for AN/USG-2 and AN/USG-3 equipment. Northrop-Grumman Corporation/Bethpage LI, NY/Integration of AN/USG-3 equipment with E-2C HAWKEYE 2000 and Advanced E2 aircraft. Naval Surface Warfare Center/Dahlgren, VA/Software Support Activity (SSA) and Systems Engineering/Integration Agent (SE/IA). SAIC/St. Petersburg, FL/Mini Terminal. Sechan/Lititz, PA/Signal Data Processor. Naval Surface Warfare Center / Pt. Hueneme, CA / Test and Evaluation.</p>		

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EXHIBIT R-2a, RDT&E PROJECT JUSTIFICATION					DATE February 2008			
APPROPRIATION/BUDGET ACTIVITY RD TEN/BA 4		PROGRAM ELEMENT NUMBER AND NAME 0603658N/COOPERATIVE ENGAGEMENT				PROJECT NUMBER AND NAME 2039/COOP Engagement		
COST (In Millions)	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	
Project Cost	52.688	36.513	38.316	49.248	46.302	45.726	46.080	
RDT&E Articles Qty	0	0	0	0	0	0	0	
A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:								
Includes FY07 Congressional Add of \$10.872 and FY08 Congressional Add of \$3.975.								
<p>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.</p> <p>CEC consists of the Data Distribution System (DDS), the Cooperative Engagement Processor (CEP), and Combat System modifications. The DDS encodes and distributes ownership 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.</p> <p>The Navy has begun implementation of a Single Data Processor (SDP) approach to modify the current equipment to meet reduced size, weight, cost, power and cooling objectives. This SDP 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. SDP 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.</p> <p>Additionally, CEC is working with Joint Program Executive Office (JPEO) 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 Joint Track Manager (JTM) is derived from an Integrated Architecture Behavior Model (IABM) through a series of configuration deliveries which will include JTM functionality. General</p>								

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APPROPRIATION/BUDGET ACTIVITY RD TEN/BA 4	PROGRAM ELEMENT NUMBER AND NAME 0603658N/COOPERATIVE ENGAGEMENT	PROJECT NUMBER AND NAME 2039/COOP Engagement
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. DDG 1000, E-2).		

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APPROPRIATION/BUDGET ACTIVITY RD TEN/BA 4	PROGRAM ELEMENT NUMBER AND NAME 0603658N/COOPERATIVE ENGAGEMENT	PROJECT NUMBER AND NAME 2039/COOP Engagement	
B. ACCOMPLISHMENTS/PLANNED PROGRAM:			
	FY 2007	FY 2008	FY 2009
Accomplishments/Effort/Subtotal Cost	11.890	3.500	10.430
RDT&E Articles Quantity	0	0	0
FY07 Plan: Continued CEC integration efforts with E-2D. FY08 Plan: Continue CEC integration efforts with E-2D. FY09 Plan: Continue CEC integration efforts with E-2D.			
	FY 2007	FY 2008	FY 2009
Accomplishments/Effort/Subtotal Cost	4.900	3.400	4.000
RDT&E Articles Quantity	0	0	0
FY07 Plan: Continued development, integration and testing of computer program Baseline 2.1 for ACDS, AEGIS, and SSDS platforms. Begin FOT&E-4 testing efforts on SSDS MK2 Mod 2 (LPD 17) equipped ships and begin Single Data Processor (SDP) test analysis. FY08 Plan: Continue development, integration and testing of computer program Baseline 2.1 for ACDS, AEGIS, and SSDS platforms. Complete FOT&E-4 test analysis, continue SDP test analysis. FY09 Plan: Continue development, integration and testing of computer program Baseline 2.1 for ACDS, AEGIS, and SSDS platforms. Begin FOT&E-5 testing and analysis. Continue SDP test analysis.			
	FY 2007	FY 2008	FY 2009
Accomplishments/Effort/Subtotal Cost	4.700	1.100	2.850
RDT&E Articles Quantity	0	0	0
FY07 Plan: Continued CEC integration efforts with NIFC-CA. FY08 Plan: Continue CEC integration efforts with NIFC-CA. FY09 Plan: Continue CEC integration efforts with NIFC-CA.			
	FY 2007	FY 2008	FY 2009
Accomplishments/Effort/Subtotal Cost	1.000	1.300	1.564
RDT&E Articles Quantity	0	0	0
FY07 Plan: Continued Systems Engineering/Integration Agent (SE/IA) for development and execution of systems engineering processes by NSWC, Dahlgren. FY08 Plan: Continue Systems Engineering/Integration Agent (SE/IA) for development and execution of systems engineering processes by NSWC, Dahlgren. FY09 Plan: Continue Systems Engineering/Integration Agent (SE/IA) for development and execution of systems engineering processes by NSWC, Dahlgren.			
	FY 2007	FY 2008	FY 2009
Accomplishments/Effort/Subtotal Cost	11.244	0.000	0.000
RDT&E Articles Quantity	0	0	0

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APPROPRIATION/BUDGET ACTIVITY RD TEN/BA 4		PROGRAM ELEMENT NUMBER AND NAME 0603658N/COOPERATIVE ENGAGEMENT		PROJECT NUMBER AND NAME 2039/COOP Engagement
FY07 Plan: Completed SI/DA contract for JTM / IABM integration, implementation, and test.				
FY08 Plan: None				
FY09 Plan: None				
		FY 2007	FY 2008	FY 2009
Accomplishments/Effort/Subtotal Cost		8.934	18.435	9.909
RDT&E Articles Quantity		0	0	0
FY07 Plan: Continued CEC system improvements including enhanced communications, expansion of networking capability, development of system protection/multi-level secure operational-level secure operations, and Modeling and Simulation.				
FY08 Plan: Continue CEC system improvements including enhanced communications, expansion of networking capability, development of system protection/multi-level secure operational-level secure operations, and Modeling and Simulation.				
FY09 Plan: Continue CEC system improvements including enhanced communications, expansion of networking capability, development of system protection/multi-level secure operational-level secure operations, and Modeling and Simulation.				
		FY 2007	FY 2008	FY 2009
Accomplishments/Effort/Subtotal Cost		2.000	1.500	1.500
RDT&E Articles Quantity		0	0	0
FY07 Plan: Continued participation in system interoperability exercises and Joint Integrated Demonstrations.				
FY08 Plan: Continue participation in system interoperability exercises and Joint Integrated Demonstrations.				
FY09 Plan: Continue participation in system interoperability exercises and Joint Integrated Demonstrations.				
		FY 2007	FY 2008	FY 2009
Accomplishments/Effort/Subtotal Cost		8.020	7.278	8.063
RDT&E Articles Quantity		0	0	0
FY07 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.				
FY08 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.				
FY09 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.				

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EXHIBIT R-3, RDT&E PROJECT COST ANALYSIS										DATE		
										February 2008		
APPROPRIATION/BUDGET ACTIVITY		PROGRAM ELEMENT NUMBER AND NAME					PROJECT NUMBER AND NAME					
RD TEN/BA 4		0603658N/COOPERATIVE ENGAGEMENT					2039/COOP Engagement					
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY Cost (\$000)	FY 2007 Cost (\$000)	FY 2007 Award Date	FY 2008 Cost (\$000)	FY 2008 Award Date	FY 2009 Cost (\$000)	FY 2009 Award Date	Cost to Complete (\$000)	Total Cost (\$000)	Target Value of Contract
AN/USG-2/3 Development	CPAF	Raytheon, St. Petersburg, FL	6.276	3.074	OCT-06	9.888	OCT-07	8.665	OCT-08	CONT	CONT	0.000
AN/USG-2/3 Development/TDA	CPFF	JHU/APL, Laurel, MD	9.877	6.228	OCT-06	6.178	OCT-07	8.000	OCT-08	CONT	CONT	0.000
SI/DA	CPAF	General Dynamics	14.024	9.955	DEC-06	0.000		0.000		0.000	23.979	46.657
SI/DA	CPAF	Award Fees	1.614	1.289	DEC-06	0.000		0.000		0.000	2.903	16.423
P3I	CPAF	Raytheon	11.475	0.000		3.975		0.000		0.000	15.450	60.727
DDG 1000	CPAF	Raytheon, Massachusetts	7.384	2.299	APR-07	0.000		0.000		0.000	9.683	10.130
NIFC-CA Integration	Various	Various	20.829	4.700	APR-07	1.100	TBD	2.850	TBD	CONT	CONT	0.000
In-Service Engineering Activity	WX	NSWC, Port Hueneme, CA	0.111	0.246	NOV-06	0.245	NOV-07	0.200	NOV-08	CONT	CONT	0.000
Software Support Activity/SEIA	WX	NSWC, Dahlgren, VA	2.725	2.000	NOV-06	1.300	NOV-07	1.564	NOV-08	0.000	7.589	0.000
Production Engineering Activity	WX	NSWC, Crane, IN	1.879	1.215	NOV-06	0.150	NOV-07	0.900	NOV-08	CONT	CONT	0.000
JTRS	Various	Various	8.500	0.000		0.000		0.000		0.000	8.500	15.000
Various	Various	Miscellaneous	2.340	1.024	APR-07	4.201	TBD	1.232	TBD	CONT	CONT	0.000
DDG 1000	CPAF	Award Fee	0.247	0.200	APR-07	0.000		0.000		0.000	0.447	0.000
NAVSSI	WX	SPAWAR, San Diego, CA	0.000	0.368	APR-07	0.000		0.000		0.000	0.368	0.000
Certification	MP	NSA, Fort Meade, MD	0.000	0.300	APR-07	0.075	NOV-07	0.125	NOV-08	0.000	0.500	0.000
Certification	WX	SPAWAR, Charleston, SC	0.130	0.650	APR-07	0.750	NOV-07	0.000		0.000	1.530	0.000
MSI/NCCT	MP	Wright Pat AFB, Dayton, OH	0.600	0.628	APR-07	0.000		0.000		0.000	1.228	0.000
Joint Exercises	WX	NSWC, Corona, CA	0.000	0.150	APR-07	0.000		0.000		0.000	0.150	0.000
LBTS Testing	WX	CDSA, Dam Neck, VA	0.630	0.540	APR-07	0.600	NOV-07	0.000		0.000	1.770	0.000
Testing Support	PD	Wallops Island	0.683	0.682	APR-07	0.801	NOV-07	0.000		0.000	2.166	0.000
E-2D Integration	Various	Various	0.000	11.890	APR-07	3.500	TBD	10.430	TBD	0.000	25.820	0.000
Subtotal Product Development			89.324	47.438		32.763		33.966		CONT	CONT	148.937
Remarks:												
Explanations for the use of "WX, MP, and PD" in the "Contract method & type" column are as follows:												
When using "MP", these documents are issued to DOD activities that are outside of the Department of the Navy.												
When using "WX", these documents are sent to Navy activities who obligate funding on their vehicles to accomplish tasking for CEC. These activities are the only ones who can accomplish these tasks for the program.												

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EXHIBIT R-3, RDT&E PROJECT COST ANALYSIS									DATE February 2008			
APPROPRIATION/BUDGET ACTIVITY RDTEN/BA 4		PROGRAM ELEMENT NUMBER AND NAME 0603658N/COOPERATIVE ENGAGEMENT					PROJECT NUMBER AND NAME 2039/COOP Engagement					
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY Cost (\$000)	FY 2007 Cost (\$000)	FY 2007 Award Date	FY 2008 Cost (\$000)	FY 2008 Award Date	FY 2009 Cost (\$000)	FY 2009 Award Date	Cost to Complete (\$000)	Total Cost (\$000)	Target Value of Contract
When using "PD" for Wallops Island, this document is used because this is the only document we can provide to the activity to accomplish taskings for the CEC program.												
Subtotal Support Costs			0.000	0.000		0.000		0.000		0.000	0.000	0.000
Remarks:												
Test Support	CPAF	Raytheon, St. Petersburg, FL	0.000	0.000		0.000		0.000		0.000	0.000	0.000
Test Support	CPAF	Award Fees	0.000	0.000		0.000		0.000		0.000	0.000	0.000
Test Support	CPFF	JHU/APL, Laurel, MD	0.000	0.000		0.000		0.000		0.000	0.000	0.000
Test Support	WX	NRL, Washington DC	0.128	0.000		0.000		0.000		0.000	0.128	0.000
Test Support	WX	NSWC, PHD, CA	2.010	3.651	NOV-06	1.500	OCT-07	2.100	OCT-08	CONT	CONT	0.000
Air Operations Test Support	WX	NAVAIR (PMA207)	0.860	0.250	NOV-06	0.200	OCT-07	0.200		0.000	1.510	0.000
Test Data Reduction Analysis	WX	NWAS, Corona, CA	0.972	0.771	NOV-06	1.500	OCT-07	1.500	OCT-08	CONT	CONT	0.000
Test Support	WX	COMOPTEVFOR, VA	0.742	0.228	NOV-06	0.200	OCT-07	0.200	OCT-08	CONT	CONT	0.000
Various	Various	Various	0.000	0.000		0.000		0.000	TBD	CONT	CONT	0.000
Subtotal Test and Evaluation			4.712	4.900		3.400		4.000		CONT	CONT	0.000
Remarks: Explanation for the use of "WX" in the "Contract method & type" column are as follows: When using "WX", these documents are sent to Navy activities who obligate funding on their vehicles to accomplish tasking for CEC. These activities are the only ones who can accomplish these tasks for the program.												
Program Management Support	FFP	Various	0.830	0.350	NOV-06	0.350	OCT-07	0.350	OCT-08	CONT	CONT	0.000
Subtotal Management Services			0.830	0.350		0.350		0.350		CONT	CONT	0.000
Remarks:												
Total Cost			94.866	52.688		36.513		38.316		CONT	CONT	148.937

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EXHIBIT R-4, SCHEDULE PROFILE

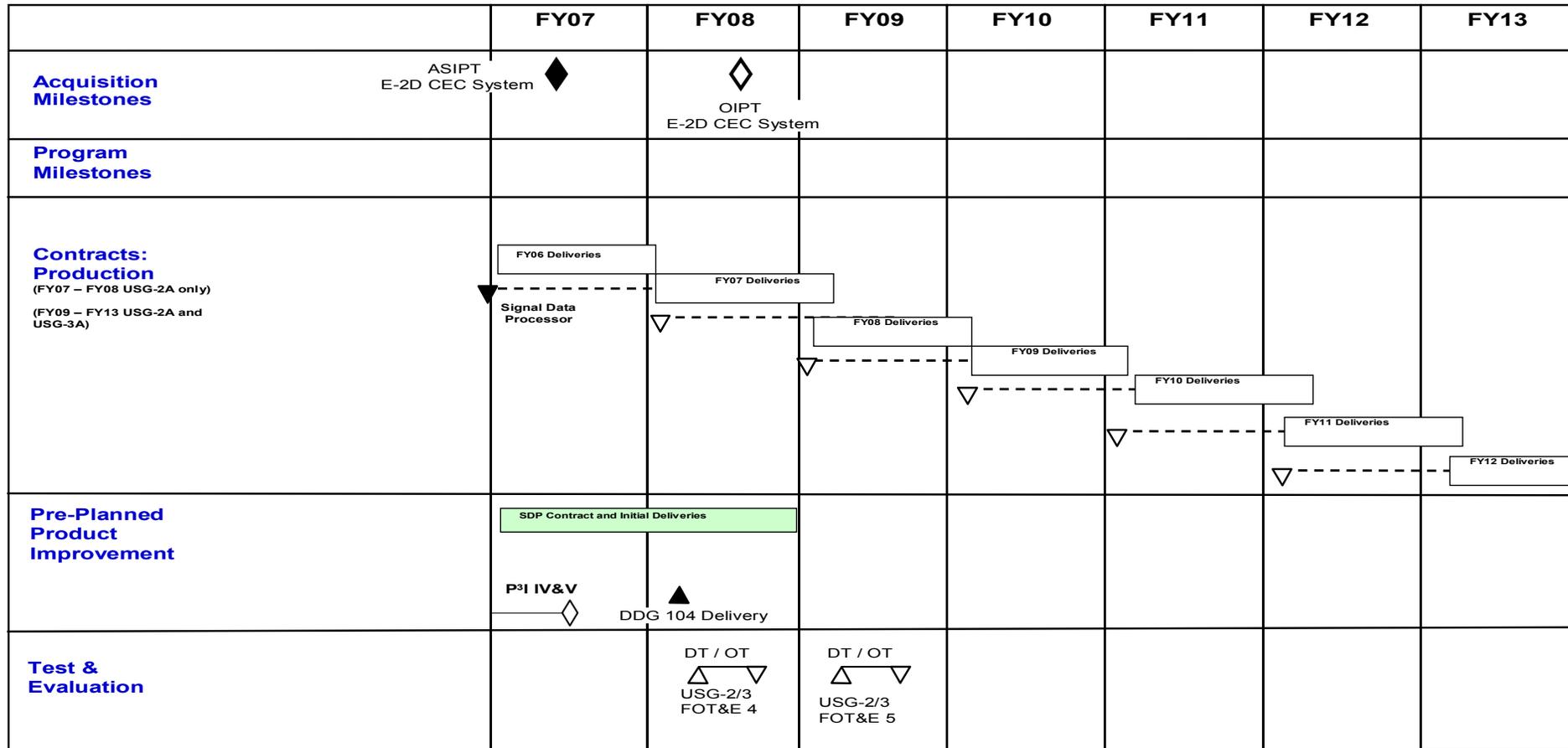
DATE

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APPROPRIATION/BUDGET ACTIVITY
RD TEN/BA 4

PROGRAM ELEMENT NUMBER AND NAME
0603658N/COOPERATIVE ENGAGEMENT

PROJECT NUMBER AND NAME
2039/COOP Engagement



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EXHIBIT R-4a, SCHEDULE DETAIL						DATE February 2008		
APPROPRIATION/BUDGET ACTIVITY RD TEN/BA 4		PROGRAM ELEMENT NUMBER AND NAME 0603658N/COOPERATIVE ENGAGEMENT			PROJECT NUMBER AND NAME 2039/COOP Engagement			
Schedule Profile		FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
Milestone III (MSIII) (AN/USG-2) - 3Q02								
Full Rate Production (AN/USG-2) - 3Q02								
LRIP-5 (AN/USG-3) - 3Q02								
LRIP-6 (AN/USG-3) - 3Q02								
FOT&E-1 (AN/USG-3) (DT-III A/OT-III A) (Start) - 2Q02								
FOT&E-1 (AN/USG-3) (DT-III A/OT-III A) (Complete) - 1Q03								
FOT&E-2 (AN/USG-3) (DT-III B/OT-III B) (Start) - 2Q04								
FOT&E-2 (AN/USG-3) (DT-III B/OT-III B) (Complete) - 3Q04								
Initial Operational Capability (AN/USG-3)								
Full Operational Capability (FOC) (AN/USG-2/3)								
FOT&E-3 (OT-III C) Start								
FOT&E-3 (OT-III C) Complete								
FOT&E-4 (OT-III D) Start			2Q08					
FOT&E-4 (OT-III D) Complete			3Q08					
FOT&E-5 (OT-III D) Start				2Q09				
FOT&E-5 (OT-III D) Complete				3Q09				
Block 1 Production								
SDP Production		1Q07	1Q08	1Q09	1Q10	1Q11	1Q12	1Q13
E-2D CEC System			3Q08					
DDG 104 Delivery			1Q08					