Exhibit R-2, RDT&E Budget Item Justification: PB 2013 Navy

R-1 ITEM NOMENCLATURE

1319: Research, Development, Test & Evaluation, Navy

PE 0708011N: Industrial Preparedness

BA 7: Operational Systems Development

APPROPRIATION/BUDGET ACTIVITY

COST (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
Total Program Element	44.626	54.031	54.879	-	54.879	54.133	52.846	57.014	57.371	Continuing	Continuing
1050: Manufacturing Tech	44.626	54.031	54.879	-	54.879	54.133	52.846	57.014	57.371	Continuing	Continuing

A. Mission Description and Budget Item Justification

The Manufacturing Technology (ManTech) program is intended to improve the productivity and responsiveness of the U.S. defense industrial base by funding the development and transition of leading edge manufacturing technologies. The ManTech program is executed through a Center of Excellence (COE) strategy. A majority of the COEs are consortium based with only a small group of technical and management personnel at the center. ManTech projects are primarily performed by industry participants that bill the COE which, in turn, bills the Navy which causes a non-traditional financial execution profile for the program. The program therefore does not meet traditional execution benchmarks. The ManTech program, by providing seed funding for the development of moderate to high risk process and equipment technology, permits contractors to upgrade their manufacturing capabilities. Ultimately, the program aims to produce high-quality weapon systems with shorter lead times and reduced acquisition costs.

Due to the number of efforts in this PE, the programs described herein are representative of the work included in this PE.

B. Program Change Summary (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total
Previous President's Budget	46.173	54.031	51.001	-	51.001
Current President's Budget	44.626	54.031	54.879	-	54.879
Total Adjustments	-1.547	-	3.878	-	3.878
 Congressional General Reductions 	-	-			
 Congressional Directed Reductions 	-	-			
 Congressional Rescissions 	-	-			
 Congressional Adds 	-	-			
 Congressional Directed Transfers 	-	-			
 Reprogrammings 	-	-			
 SBIR/STTR Transfer 	-1.312	-			
 Program Adjustments 	-	-	3.912	-	3.912
 Rate/Misc Adjustments 	-	-	-0.034	-	-0.034
 Congressional General Reductions Adjustments 	-0.235	-	-	-	-

Change Summary Explanation

Technical: Not applicable.

PE 0708011N: Industrial Preparedness

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R-1 Line #229

DATE: February 2012

Exhibit R-2, RDT&E Budget Item Justification: PB 2013 Navy		DATE: February 2012
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	
1319: Research, Development, Test & Evaluation, Navy	PE 0708011N: Industrial Preparedness	
BA 7: Operational Systems Development		
Schedule: Not applicable.		

PE 0708011N: *Industrial Preparedness* Navy

Exhibit R-2A, RD1&E Project Just	ification: PE	3 2013 Navy		<u> </u>						DATE: February 2012			
APPROPRIATION/BUDGET ACTIV 1319: Research, Development, Test BA 7: Operational Systems Develop			I OMENCLA 1 1N: <i>Industria</i>			PROJECT 1050: Manufacturing Tech							
COST (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost		
1050: Manufacturing Tech	44.626	54.031	54.879	-	54.879	54.133	52.846	57.014	57.371	Continuing	Continuing		
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0				

A. Mission Description and Budget Item Justification

Fubility D.O.A. DDTOF Businest Investigations DD 0040 Nove

The ManTech Program is intended to improve the productivity and responsiveness of the U.S. defense industrial base by funding the development of manufacturing technologies. Major areas of endeavor both underway and planned include: advanced manufacturing technology for metalworking, joining, electronics and electro-optics, composites, shipbuilding, and above-the-factory-floor business operations technology. The ManTech Program is aimed at assisting acquisition programs in meeting performance and affordability goals by inserting manufacturing process solutions early into the design phase.

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2011	FY 2012	FY 2013
Title: COMPOSITES PROCESSING AND FABRICATION	6.000	6.000	6.000
Articles:	0	0	0
Description: The primary technical goal of the Composites Processing and Fabrication activity is improving weapon systems affordability, enhancing weapon system effectiveness and improving reliability / war-fighter readiness through the increased utilization of composite materials and structures. This is being achieved through the development and maturation of affordable, robust manufacturing and assembly processes that fully exploit the benefits of composite materials. Concentration is on affordability for the following shipbuilding platforms: DDG-51, CVN-78 Class Carrier (previously CVN-21), VIRGINIA Class Submarine (VCS), and Littoral Combat Ship (LCS) with some funding for composites manufacturing technology for high priority air platforms such as the Joint Strike Fighter (JSF).			
FY 2011 Accomplishments: - Continued Composite Materials and Process Improvement Thrust for VCS Shipbuilding Affordability Initiative. Includes continuation of efforts to develop / optimize composite materials fabrication technology for reduced cost VCS construction. - Continued Composite Materials and Process Improvement Thrust for DDG-51 Shipbuilding Affordability Initiative. - Continued Composite Materials and Process Improvement Thrust for CVN-78 Shipbuilding Affordability Initiative. - Continued Composite Materials and Process Improvement Thrust for Air Platforms.			
FY 2012 Plans: - Continued all efforts of FY 2011 Initiated Composite Materials and Process Improvement Thrust for LCS Shipbuilding Affordability Initiative.			
FY 2013 Plans:			

PE 0708011N: *Industrial Preparedness* Navy

DATE: Calamiam, 2012

Exhibit R-2A, RDT&E Project Justification: PB 2013 Navy			DATE: Fel	oruary 2012	
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 7: Operational Systems Development	R-1 ITEM NOMENCLATURE PE 0708011N: Industrial Preparedness	PROJEC 1050: <i>Ma</i>	T nufacturing T	ech	
B. Accomplishments/Planned Programs (\$ in Millions, Article (Quantities in Each)		FY 2011	FY 2012	FY 2013
- Continued all efforts of FY 2012.	·				
Title: CORPORATE INVESTMENTS		Articles:	4.116 0	9.631 0	10.479 0
Description: The Corporate Investments activity is focused on accimplementation of world-class industrial practices as well as advan system development, production, and sustainment. Key emphasis implementation of world-class industrial practices throughout the cobusiness practices and information technologies capable of stream 3) Leveraging information technologies in pursuit of tighter coupling Investment efforts create improvements to cost and cycle time for Additionally, Corporate Investments include the funding of recently efforts for the following shipbuilding platforms - DDG-51, CVN-78 (VCS), and Littoral Combat Ship (LCS) as well as the Joint Strike F. The increase from FY 2011 through FY 2013 reflects alignment to FY 2011 Accomplishments: - Continued Near-Term High Priority Shipbuilding Affordability Thru-Continued Reforts to improve the Navy industrial base through abortocesses/technology improvements for Navy weapon system acquired others. - Continued Near-Term, High Priority Shipbuilding Affordability Thru-Continued Near-Term, High Priority Shipbuilding Affordability Thru-Continued Near-Term	ced design and information systems that support wareas include: 1) Benchmarking and accelerating the ontractor base; 2) Demonstrating and validating addining management functions in all industrial base to go fall defense industrial enterprise elements. Corpove weapon system development, production, and repartidentified near-term high priority shipbuilding afford Class Carrier (previously CVN-21), VIRGINIA Class Fighter (JSF). manufacturing priorities. Just for CVN-78. Just for LCS. Dove-the-factory-floor enhancements and supply characteristics are the DDG-51, CVN-78, LCC ust for DDG-51.	reapon ne vanced iers; and porate ir. dability s Submarine			
- Continued all efforts of FY 2011 unless noted otherwise. FY 2013 Plans:					
- Continue all efforts of FY 2012. - Initiate Near-Term High Priority Affordability Thrust for JSF.					
Title: ELECTRONICS PROCESSING AND FABRICATION			6.300	10.000	10.000
		Articles:	0	0	0

PE 0708011N: Industrial Preparedness

Exhibit R-2A, RDT&E Project Justification: PB 2013 Navy			DATE: Fe	bruary 2012	
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 7: Operational Systems Development	R-1 ITEM NOMENCLATURE PE 0708011N: Industrial Preparedness	PROJECT 1050: Mar	- ˈ nufacturing 7	- ech	
B. Accomplishments/Planned Programs (\$ in Millions, Article	e Quantities in Each)		FY 2011	FY 2012	FY 2013
Description: Electronics Processing and Fabrication efforts devect capabilities for electronics critical to defense applications over the processes on the shop floor, as well as repair and maintain facilit on process maturation. Emphasis is on affordability for the follow (previously CVN-21), VIRGINIA Class Submarine (VCS), and Litt toward electronics / electro-optics improvements for high priority and control of the con	eir full life cycle. Efforts create new and improved mar ies such as depots and logistics centers, with a strong ving shipbuilding platforms: DDG-51, CVN-78 Class (toral Combat Ship (LCS), with some funding geared to air platforms such as the Joint Strike Fighter (JSF).	oufacturing g emphasis Carrier owards			
The funding increase in FY 2012 is to provide manufacturing imp manufacturing improvements to the transmitter in the MK 99 Fire		t Ship and			
FY 2011 Accomplishments: - Continued Electronics/Electro-Optics Thrust for VCS Affordabilit electronics/electro-optics efforts. - Continued Electronics/Electro-Optics Thrust for LCS Shipbuildin - Continued Electronics/Electro-Optics Thrust for Air Platforms. In improve affordability for Air Platforms. - Continued Electronics/Electro-Optics Thrust for DDG-51 Shipbu efforts to impact DDG-51 affordability. - Continued Electronics/Electro-Optic Thrust for CVN-78 (formerly continuation of electronics/electro-optics efforts to improve afford FY 2012 Plans:	ng Affordability Initiative. Includes continuation of electronics/electro-optics efforuilding Affordability Initiative. Includes radar/communic Option (2008) Yes CVN-21) Shipbuilding Affordability Initiative. Include	ts to cations			
- Continued efforts of FY 2011. FY 2013 Plans:					
- Continue efforts of FY 2012.					
Title: METALS PROCESSING AND FABRICATION		Articles:	18.000 0	18.000 0	18.000 0
Description: The objective of the Metals Processing and Fabrica processes and capabilities for metals and special materials critical support this objective include: processing methods, special material directly impact the cost and performance of future aircraft, rotorcraphatforms, space systems, artillery and ammunition, and defense for the following shipbuilding platforms: DDG-51, CVN-78 Class	al to defense weapon system applications. Major area rials, joining, and inspection and compliance. These e raft, land combat vehicles, surface and subsurface na industry manufacturing equipment. Emphasis is on a	s that ifforts val ffordability			

PE 0708011N: *Industrial Preparedness* Navy

Exhibit R-2A, RDT&E Project Justification: PB 2013 Navy			DATE: Fel	oruary 2012	
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 7: Operational Systems Development	R-1 ITEM NOMENCLATURE PE 0708011N: Industrial Preparedness	PROJEC 1050: <i>Mai</i>	T nufacturing T	ech	
B. Accomplishments/Planned Programs (\$ in Millions, Article Q	· · · · · · · · · · · · · · · · · · ·		FY 2011	FY 2012	FY 2013
and Littoral Combat Ship (LCS), with some funding geared toward multiplication priority air platforms such as the Joint Strike Fighter (JSF).	netals processing and fabrication improvements for	r high			
FY 2011 Accomplishments: - Continued Schedule Compression/Production Engineering Thrust of Continued Outfitting Thrust for VCS Shipbuilding Affordability Initial - Continued rapid response efforts. - Continued Metals Materials and Process Improvement Thrust for Dand process efforts for DDG-51 include material characterization for optimization (welding, bonding, machining, etc.) resulting in reduced - Continued Metals Materials and Process Improvement Thrust for Cand process efforts for CVN 78 include material characterization for optimization (welding, bonding, machining, etc.) resulting in reduced - Continued Metals Thrust for Littoral Combat Ship (LCS) Shipbuildin - Continued Metals Materials and Process Improvement Thrust for Various process efforts for VCS include material characterization for optimur (welding, bonding, machining, coating/cladding, etc.) resulting in reduced - Continued Metal Materials and Process Improvements Thrust for Armonic Metals Materials and Process Improvement Thrust for Armonic Metal Materials and Process Improvements Thrust for Armonic Metal Metal Materials and Process Improvements Thrust for Ar	DDG-51 Shipbuilding Affordability Initiative. Metallic optimum processing and fabrication as well as process of fabrication for DDG-51 components. CVN-78 Shipbuilding Affordability Initiative. Metallic optimum processing and fabrication as well as process of fabrication for CVN 78 components. In a Affordability Initiative. Metallic cost of fabrication for VCS components. Other Ship/NAVSEA Platforms.	c materials access			
FY 2012 Plans: - Continued efforts of FY 2011.					
FY 2013 Plans: - Continue efforts of FY 2012.					
Title: OTHER (SHIPBUILDING, REPAIR TECH, ENERGETICS, AN	ID TECHNICAL ENGINEERING SUPPORT)	Articles:	10.210 0	10.400 0	10.400 0
Description: The "Other" activity includes shipbuilding technology, is support. Shipbuilding technology primarily addresses the development and is geared towards affordability efforts for the following shipbuilding CVN-21), VIRGINIA Class Submarine (VCS), and Littoral Combat S sustainment functions that emphasize remanufacturing processes and	ent of manufacturing process improvements for shi ing platforms: DDG-51, CVN-78 Class Carrier (pre- hip (LCS). Repair technology addresses repair, ov	pyards viously erhaul, and			

PE 0708011N: *Industrial Preparedness* Navy

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R-1 Line #229

Exhibit R-2A, RDT&E Project Justification: PB 2013 Navy

APPROPRIATION/BUDGET ACTIVITY

1319: Research, Development, Test & Evaluation, Navy
BA 7: Operational Systems Development

DATE: February 2012

R-1 ITEM NOMENCLATURE
PE 0708011N: Industrial Preparedness
PROJECT
1050: Manufacturing Tech

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2011	FY 2012	FY 2013
developing energetics solutions to ensure the availability of safe, affordable, and quality energetics products largely in support of Program Executive Office (PEO) Integrated Warfare Systems (IWS).			
FY 2011 Accomplishments: - Continued Shipbuilding Affordability Thrust for CVN-78 Continued Shipbuilding Affordability Thrust for VCS.			
 Continued Shipbuilding Affordability Thrust for LCS. Continued Shipbuilding Affordability Thrust for DDG-51. Continued Shipbuilding Thrust for Other Ship/NAVSEA Platforms. 			
 Continued Repair Technology Thrust for repair and sustainment of Navy weapons systems. Includes continuation of Repair Technology projects based on high priority depot needs. Continued Energetics Thrust for PEO IWS and Other Acquisition Programs. Includes continuation of energetics efforts to support PEO IWS and other acquisition programs. 			
- Continued to provide technical engineering support for the ManTech Program.			
FY 2012 Plans: - Continued efforts of FY 2011.			
FY 2013 Plans: - Continued efforts of FY 2012.			
Accomplishments/Planned Programs Subtotals	44.626	54.031	54.879

C. Other Program Funding Summary (\$ in Millions)

N/A

Navy

D. Acquisition Strategy

Efforts are focused on affordability reduction for the following: DDG Family, CVN-78 Class Carrier, Littoral Combat Ship (LCS), and the VIRGINIA Class Submarine (VCS) as well as more limited efforts for aircraft/other programs.

E. Performance Metrics

The ManTech program's overall goal is to transition production technology to reduce the cost of Navy weapons systems. Metrics are currently collected on the cost savings per hull for the class for each of the four primary shipbuilding platforms: DDG-51, CVN-78 Class Carrier, VCS, and LCS.

PE 0708011N: Industrial Preparedness

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2013 Navy

APPROPRIATION/BUDGET ACTIVITY

1319: Research, Development, Test & Evaluation, Navy

BA 7: Operational Systems Development

R-1 ITEM NOMENCLATURE

PE 0708011N: Industrial Preparedness

PROJECT

1050: Manufacturing Tech

DATE: February 2012

Product Development	(\$ in Millio	ns)		FY 2	2012	FY 2 Ba			2013 CO	FY 2013 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Mfg Development (B2P)	C/CPFF	American Competitiveness Institute (ACI):Philadelphia, PA (B2P)	6.300	-	Oct 2011	-		-		-	0.000	6.300	
Mfg Development (CMTC)	C/CPAF	SCRA:Anderson, SC	21.404	7.300	Oct 2011	6.580	Oct 2012	-		6.580	Continuing	Continuing	Continuin
Award Fee (CMTC)	C/CPAF	SCRA:Anderson, SC	0.900	0.300	Oct 2011	0.420	Oct 2012	-		0.420	0.000	1.620	
Mfg Development (CNST)1	C/CPFF	Advanced Technology Institute (ATI):Charleston, SC	4.697	-		-		-		-	0.000	4.697	
Mfg Development (CNST)2	C/CPAF	Advanced Technology Institute (ATI):Charleston, SC	9.315	4.997	Oct 2011	7.469	Oct 2012	-		7.469	0.000	21.781	
Award Fee (CNST)	C/CPAF	Advanced Technology Institute (ATI):Charleston, SC	0.680	0.300	Oct 2011	0.477	Oct 2012	-		0.477	0.000	1.457	
Mfg Development (EMPF)	C/CPAF	American Competitiveness Institute (ACI):Philadelphia, PA	18.699	8.227	Oct 2011	6.580	Oct 2012	-		6.580	0.000	33.506	
Award Fee (EMPF)	C/CPAF	American Competitiveness Institute (ACI):Philadelphia, PA	1.365	0.373	Oct 2011	0.420	Oct 2012	-		0.420	0.000	2.158	
Mfg Development (EMTC)	WR	Naval Surface Warfare Center - Indian Head:Indian Head, MD	6.000	2.000	Nov 2011	2.000	Oct 2012	-		2.000	0.000	10.000	
Mfg Development (EOC)	C/CPAF	Penn State University:State College, PA (EOC)	9.501	4.230	Oct 2011	4.230	Oct 2012	-		4.230	0.000	17.961	
Award Fee (EOC)	C/CPAF	Penn State University:State College, PA (EOC)	0.349	0.270	Oct 2011	0.270	Oct 2012	-		0.270	0.000	0.889	

PE 0708011N: *Industrial Preparedness* Navy

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R-1 Line #229

Exhibit R-3, RDT&E Project Cost Analysis: PB 2013 Navy

APPROPRIATION/BUDGET ACTIVITY

1319: Research, Development, Test & Evaluation, Navy

BA 7: Operational Systems Development

R-1 ITEM NOMENCLATURE

PE 0708011N: Industrial Preparedness

PROJECT

1050: Manufacturing Tech

DATE: February 2012

Product Development	(\$ in Millio	ns)		FY 2	2012	FY 2 Ba	2013 se		2013 CO	FY 2013 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Mfg Development (iMAST)	C/CPFF	Penn State University:State College, PA (iMAST)	11.199	3.575	Dec 2011	3.875	Dec 2012	-		3.875	0.000	18.649	
Mfg Development (NJC)	C/CPAF	Edison Welding Institute:Columbus, OH	9.175	2.782	Oct 2011	-		-		-	0.000	11.957	
Award Fee (NJC)	C/CPAF	Edison Welding Institute:Columbus, OH	0.575	0.218	Oct 2011	-		-		-	0.000	0.793	
Mfg Development (NMC)	C/CPAF	Concurrent Technologies Corp.:Johnstown, PA	34.300	11.500	Oct 2011	13.563	Oct 2012	-		13.563	0.000	59.363	
Award Fee (NMC)	C/CPAF	Concurrent Technologies Corp.:Johnstown, PA	1.700	0.600	Oct 2011	0.861	Oct 2012	-		0.861	0.000	3.161	
Mfg Development	WR	Naval Air Systems Command (NAVAIR):Patuxent River, MD	1.153	0.400	Nov 2011	0.375	Nov 2012	-		0.375	0.000	1.928	
Mfg Development	WR	Naval Research Laboratory (NRL):Washington, DC	0.400	0.170	Nov 2011	0.470	Nov 2012	-		0.470	0.000	1.040	
Mfg Development	WR	Naval Surface Warfare Center - Carderock Division:Carderock, MD	4.191	1.488	Nov 2011	1.584	Nov 2012	-		1.584	0.000	7.263	
Mfg Development	WR	Naval Undersea Warfare Center - Newport:Newport, RI	0.380	-		-		-		-	0.000	0.380	
Mfg Development	WR	SPAWAR:San Diego, CA	0.010	-		-		-		-	0.000	0.010	
		Subtotal	142.293	48.730		49.174		-		49.174			

PE 0708011N: *Industrial Preparedness* Navy

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2013 Navy

APPROPRIATION/BUDGET ACTIVITY

1319: Research, Development, Test & Evaluation, Navy

BA 7: Operational Systems Development

R-1 ITEM NOMENCLATURE

PE 0708011N: Industrial Preparedness

54.879

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PROJECT

1050: Manufacturing Tech

54.879

DATE: February 2012

Support (\$ in Millions)				FY 2	012		2013 se	FY 2		FY 2013 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Contractor Support (GTEC)	C/CPFF	DRC:Andover, MA	5.562	1.800	Oct 2011	1.800	Oct 2012	-		1.800	0.000	9.162	
Contractor Support (GMST)	C/CPFF	DRC:Andover, MA	0.048	0.140	Oct 2011	0.025	Oct 2012	-		0.025	0.000	0.213	
ManTech Registrations (GMPC)	Various	TBD:TBD	0.026	0.010	Jun 2012	0.010	Jun 2013	-		0.010	0.000	0.046	
ManTech Travel (GMTT)	Various	TBD:TBD	0.235	0.080	Sep 2012	0.080	Sep 2013	-		0.080	0.000	0.395	
Contractor Support (GMST)	C/CPFF	TBD:TBD	0.440	0.135	Dec 2011	0.145	Dec 2012	-		0.145	0.000	0.720	
Miscellaneous (IT Support Bills)	C/CPFF	TBD:TBD	3.200	1.865	Oct 2011	1.459	Oct 2012	-		1.459	0.000	6.524	
Miscellaneous (Stat Reserve)	TBD	TBD:TBD	5.430	1.271	Mar 2012	2.186	Mar 2013	-		2.186	0.000	8.887	
		Subtotal	14.941	5.301		5.705		-		5.705	0.000	25.947	
			Total Prior Years Cost	FY 2	2012		2013 se	FY 2		FY 2013 Total	Cost To Complete	Total Cost	Target Value of Contract

Remarks

PE 0708011N: Industrial Preparedness

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Project Cost Totals

157.234

54.031

Exhibit R-4, RDT&E Schedule Profile: PB 2013 Navy **DATE:** February 2012 **R-1 ITEM NOMENCLATURE PROJECT** APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy PE 0708011N: Industrial Preparedness 1050: Manufacturing Tech BA 7: Operational Systems Development **FY 2011** FY 2012 FY 2013 FY 2014 FY 2015 FY 2016 FY 2017 Proj 1050 Composites Processing and Fabrication -- Annual Investment Guidance (CP&F) -- Project Identification (CP&F) -- Project Evaluation (CP&F) -- Prog Office Commitment (CP&F) -- FY Plan Determined (CP&F) -- Project Award (CP&F) -- Ongoing Projects (CP&F) **Corporate Investments** -- Annual Investment Guidance (CI) -- Project Identification (CI) -- Project Evaluation (CI) -- Prog Office Commitment (CI) -- FY Plan Determined (CI) -- Project Award (CI) -- Ongoing Projects (CI) **Electronics Processing and Fabrication** -- Annual Investment Guidance (EP&F) -- Project Identification (EP&F) -- Project Evaluation (EP&F) -- Prog Office Commitment (EP&F) -- FY Plan Determined (EP&F) -- Project Award (EP&F)

PE 0708011N: Industrial Preparedness Navy

	FY 2011			FY 2012 FY 2013 FY 2014								 FY 2015			FY 2016				FY 2017						
	1	_	2011	4	1	2		4 1	_		4	1	2	_	1	 	15 3 4	1	2		_	1	2	3	4
- Ongoing Projects (EP&F)	•		<u> </u>	7	•		3	י ן ד		- 3	7			<u> </u>	•	 	ין ע	' "				<u> </u>		J 3	
Metals Processing and Fabrication																									
- Annual Investment Guidance (MP&F)																									
- Project Identification (MP&F)																									
- Project Evaluation (MP&F)																									_
- Prog Office Commitment (MP&F)																									_
- FY Plan Determined (MP&F)																									
- Project Award (MP&F)																									
Ongoing Projects (MP&F)																									
Other																									
Annual Investment Guidance (Other)																									
Project Identification (Other)																									
Project Evaluation (Other)																									
Prog Office Commitment (Other)																									
FY Plan Determined (Other)																									
Project Award (Other)																									
Ongoing Projects (Other)																									

PE 0708011N: *Industrial Preparedness* Navy

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Exhibit R-4A, RDT&E Schedule Details: PB 2013 Navy

APPROPRIATION/BUDGET ACTIVITY R-1 ITEM NOMENCLATURE PROJECT

1319: Research, Development, Test & Evaluation, Navy PE 0708011N: Industrial Preparedness 1050: Manufacturing Tech

BA 7: Operational Systems Development

Schedule Details

	Sta	End			
Events by Sub Project	Quarter	Year	Quarter	Year	
Proj 1050					
Composites Processing and Fabrication	4	2011	4	2017	
Annual Investment Guidance (CP&F)	4	2011	4	2016	
Project Identification (CP&F)	4	2011	1	2016	
Project Evaluation (CP&F)	4	2011	2	2016	
Prog Office Commitment (CP&F)	4	2011	2	2016	
FY Plan Determined (CP&F)	4	2011	3	2016	
Project Award (CP&F)	1	2011	2	2017	
Ongoing Projects (CP&F)	1	2011	4	2017	
Corporate Investments	4	2011	4	2017	
Annual Investment Guidance (CI)	4	2011	4	2016	
Project Identification (CI)	4	2011	4	2016	
Project Evaluation (CI)	4	2011	4	2016	
Prog Office Commitment (CI)	4	2011	4	2016	
FY Plan Determined (CI)	4	2011	4	2016	
Project Award (CI)	1	2011	2	2017	
Ongoing Projects (CI)	1	2011	4	2017	
Electronics Processing and Fabrication	4	2011	4	2017	
Annual Investment Guidance (EP&F)	4	2011	4	2016	
Project Identification (EP&F)	4	2011	4	2016	
Project Evaluation (EP&F)	4	2011	4	2016	
Prog Office Commitment (EP&F)	4	2011	4	2016	

Exhibit R-4A, RDT&E Schedule Details: PB 2013 Navy

APPROPRIATION/BUDGET ACTIVITY

1319: Research, Development, Test & Evaluation, Navy

BA 7: Operational Systems Development

R-1 ITEM NOMENCLATURE

PE 0708011N: Industrial Preparedness

PROJECT

1050: Manufacturing Tech

DATE: February 2012

	Sta	Start				
Events by Sub Project	Quarter	Year	Quarter	Year		
FY Plan Determined (EP&F)	4	2011	4	2016		
Project Award (EP&F)	1	2011	2	2017		
Ongoing Projects (EP&F)	1	2011	4	2017		
Metals Processing and Fabrication	4	2011	4	2017		
Annual Investment Guidance (MP&F)	4	2011	4	2016		
Project Identification (MP&F)	4	2011	4	2016		
Project Evaluation (MP&F)	4	2011	4	2016		
Prog Office Commitment (MP&F)	4	2011	4	2016		
FY Plan Determined (MP&F)	4	2011	4	2016		
Project Award (MP&F)	1	2011	2	2017		
Ongoing Projects (MP&F)	1	2011	4	2017		
Other	4	2011	4	2017		
Annual Investment Guidance (Other)	4	2011	4	2016		
Project Identification (Other)	4	2011	4	2016		
Project Evaluation (Other)	4	2011	4	2016		
Prog Office Commitment (Other)	4	2011	4	2016		
FY Plan Determined (Other)	2	2011	4	2016		
Project Award (Other)	1	2011	2	2017		
Ongoing Projects (Other)	1	2011	4	2017		

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