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Exhibit R-2, RDT&E Budget Item Justification: PB 2014 Navy DATE: April 2013

APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 7: Operational Systems Development	R-1 ITEM NOMENCLATURE PE 0708011N: Industrial Preparedness
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COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 [#]	FY 2014 Base	FY 2014 OCO ^{##}	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
Total Program Element	157.234	51.778	54.879	50.933	-	50.933	51.269	55.346	56.099	57.103	Continuing	Continuing
1050: Manufacturing Tech	157.234	51.778	54.879	50.933	-	50.933	51.269	55.346	56.099	57.103	Continuing	Continuing

[#] FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

^{##} The FY 2014 OCO Request will be submitted at a later date

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 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total
Previous President's Budget	54.031	54.879	54.133	-	54.133
Current President's Budget	51.778	54.879	50.933	-	50.933
Total Adjustments	-2.253	0.000	-3.200	-	-3.200
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-0.453	0.000			
• SBIR/STTR Transfer	-1.799	0.000			
• Program Adjustments	0.000	0.000	-0.296	-	-0.296
• Rate/Misc Adjustments	-0.001	0.000	-2.904	-	-2.904

Change Summary Explanation

Technical: Not applicable.

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Schedule: Not applicable.		

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Navy										DATE: April 2013		
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			
COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 [#]	FY 2014 Base	FY 2014 OCO ^{##}	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
1050: Manufacturing Tech	157.234	51.778	54.879	50.933	-	50.933	51.269	55.346	56.099	57.103	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0		0	0	0	0	0		
# FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012												
## The FY 2014 OCO Request will be submitted at a later date												
A. Mission Description and Budget Item Justification												
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 2012	FY 2013	FY 2014	
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, 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 2012 Accomplishments: Continued the following FY 2011 efforts: - 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. - Composite Materials and Process Improvement Thrust for DDG-51 Shipbuilding Affordability Initiative. - Composite Materials and Process Improvement Thrust for CVN-78 Shipbuilding Affordability Initiative. - Composite Materials and Process Improvement Thrust for Air Platforms. Initiated Composite Materials and Process Improvement Thrust for LCS Shipbuilding Affordability Initiative												
FY 2013 Plans:												

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Navy		DATE: April 2013	
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 0708011N: <i>Industrial Preparedness</i>	PROJECT 1050: <i>Manufacturing Tech</i>	
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2012	FY 2013
Continue all efforts of FY 2012.			
FY 2014 Plans: Continue efforts of FY 2013.			
Title: CORPORATE INVESTMENTS		7.559	10.479
Articles:		0	0
Description: The Corporate Investments activity is focused on accelerating defense industrial enterprise progress toward implementation of world-class industrial practices as well as advanced design and information systems that support weapon system development, production, and sustainment. Key emphasis areas include: 1) Benchmarking and accelerating the implementation of world-class industrial practices throughout the contractor base; 2) Demonstrating and validating advanced business practices and information technologies capable of streamlining management functions in all industrial base tiers; and 3) Leveraging information technologies in pursuit of tighter coupling of all defense industrial enterprise elements. Corporate Investment efforts create improvements to cost and cycle time for weapon system development, production, and repair. Additionally, Corporate Investments include the funding of recently identified near-term high priority shipbuilding affordability efforts for the following shipbuilding platforms - DDG-51, CVN-78 Class Carrier, VIRGINIA Class Submarine (VCS), and Littoral Combat Ship (LCS) as well as the Joint Strike Fighter (JSF). The increase from FY 2012 to FY 2013 reflects alignment to manufacturing priorities and provides additional resources for JSF affordability. FY 2012 Accomplishments: Continued the following efforts of FY 2011: - Near-Term High Priority Shipbuilding Affordability Thrust for CVN-78. - Near-Term High Priority Shipbuilding Affordability Thrust for LCS. - Efforts to improve the Navy industrial base through above-the-factory-floor enhancements and supply chain processes/technology improvements for Navy weapon system acquisition programs such as the DDG-51, CVN-78, LCS, VCS, and others. - Near-Term, High Priority Shipbuilding Affordability Thrust for DDG-51. - Near-Term High Priority Shipbuilding Affordability Thrust for VCS. FY 2013 Plans: Continue all efforts of FY 2012. Initiate Near-Term High Priority Affordability Thrust for JSF. FY 2014 Plans:			6.533

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2012	FY 2013
Continue efforts of FY 2013.			FY 2014
Title: ELECTRONICS PROCESSING AND FABRICATION Articles: Description: Electronics Processing and Fabrication efforts develop and deploy affordable, robust manufacturing processes and capabilities for electronics critical to defense applications over their full life cycle. Efforts create new and improved manufacturing processes on the shop floor, as well as repair and maintain facilities such as depots and logistics centers, with a strong emphasis on process maturation. Emphasis is on affordability for the following shipbuilding platforms: DDG-51, CVN-78 Class Carrier, VIRGINIA Class Submarine (VCS), and Littoral Combat Ship (LCS), with some funding geared towards toward electronics / electro-optics improvements for high priority air platforms such as the Joint Strike Fighter (JSF). FY 2012 Accomplishments: Continued the following efforts of FY 2011: - Electronics/Electro-Optics Thrust for VCS Affordability Initiative. Includes continuation of improved affordable electronics/electro-optics efforts. - Electronics/Electro-Optics Thrust for LCS Shipbuilding Affordability Initiative. - Electronics/Electro-Optics Thrust for Air Platforms. Includes continuation of electronics/electro-optics efforts to improve affordability for Air Platforms. - Electronics/Electro-Optics Thrust for DDG-51 Shipbuilding Affordability Initiative. Includes radar/communications efforts to impact DDG-51 affordability. - Electronics/Electro-Optic Thrust for CVN-78 Shipbuilding Affordability Initiative. Includes continuation of electronics/electro-optics efforts to improve affordability for CVN-78 Class Carrier. FY 2013 Plans: Continue all efforts of FY 2012. FY 2014 Plans: Continue efforts of FY 2013.		10.000 0	10.000 0
Title: METALS PROCESSING AND FABRICATION Articles: Description: The objective of the Metals Processing and Fabrication activity is to develop affordable, robust manufacturing processes and capabilities for metals and special materials critical to defense weapon system applications. Major areas that support this objective include: processing methods, special materials, joining, and inspection and compliance. These efforts directly impact the cost and performance of future aircraft, rotorcraft, land combat vehicles, surface and subsurface naval		17.819 0	18.000 0

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2012	FY 2013	FY 2014
platforms, space systems, artillery and ammunition, and defense industry manufacturing equipment. Emphasis is on affordability for the following shipbuilding platforms: DDG-51, CVN-78 Class Carrier, VIRGINIA Class Submarine (VCS), and Littoral Combat Ship (LCS), with some funding geared toward metals processing and fabrication improvements for high priority air platforms such as the Joint Strike Fighter (JSF).				
FY 2012 Accomplishments: Continued the following efforts of FY 2011: - Schedule Compression/Production Engineering Thrust for VCS Shipbuilding Affordability Initiative. - Outfitting Thrust for VCS Shipbuilding Affordability Initiative. - Rapid response efforts. - Metals Materials and Process Improvement Thrust for DDG-51 Shipbuilding Affordability Initiative. Metallic materials and process efforts for DDG-51 include material characterization for optimum processing and fabrication as well as process optimization (welding, bonding, machining, etc.) resulting in reduced cost of fabrication for DDG-51 components. - Metals Materials and Process Improvement Thrust for CVN-78 Shipbuilding Affordability Initiative. Metallic materials and process efforts for CVN 78 include material characterization for optimum processing and fabrication as well as process optimization (welding, bonding, machining, etc.) resulting in reduced cost of fabrication for CVN 78 components. - Metals Thrust for Littoral Combat Ship (LCS) Shipbuilding Affordability Initiative. - Metals Materials and Process Improvement Thrust for VCS Shipbuilding Affordability Initiative. Metallic materials and process efforts for VCS include material characterization for optimum processing and fabrication as well as process optimization (welding, bonding, machining, coating/cladding, etc.) resulting in reduced cost of fabrication for VCS components. - Metal Materials and Process Improvements Thrust for Other Ship/NAVSEA Platforms. - Metals Materials and Process Improvement Thrust for Air Platforms. - Metal Materials and Process Improvements Thrust for Marine Corps Systems.				
FY 2013 Plans: - Continue efforts of FY 2012.				
FY 2014 Plans: - Continue efforts of FY 2013.				
Title: OTHER (SHIPBUILDING, REPAIR TECH, ENERGETICS, AND TECHNICAL ENGINEERING SUPPORT)		10.400	10.400	10.400
Articles:		0	0	0
Description: The "Other" activity includes shipbuilding technology, repair technology, energetics, and technical engineering support. Shipbuilding technology primarily addresses the development of manufacturing process improvements for shipyards and is geared towards affordability efforts for the following shipbuilding platforms: DDG-51, CVN-78 Class Carrier, VIRGINIA Class				

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2012	FY 2013
Submarine (VCS), and Littoral Combat Ship (LCS). Repair technology addresses repair, overhaul, and sustainment functions that emphasize remanufacturing processes and advancing technology. Energetics efforts concentrate on 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 2012 Accomplishments: Continued the following efforts of FY 2011: - Shipbuilding Affordability Thrust for CVN-78. - Shipbuilding Affordability Thrust for VCS. - Shipbuilding Affordability Thrust for LCS. - Shipbuilding Affordability Thrust for DDG-51. - Shipbuilding Thrust for Other Ship/NAVSEA Platforms. - Repair Technology Thrust for repair and sustainment of Navy weapons systems. Includes continuation of Repair Technology projects based on high priority depot needs. - Energetics Thrust for PEO IWS and Other Acquisition Programs. Includes continuation of energetics efforts to support PEO IWS and other acquisition programs. - Provide technical engineering support for the ManTech Program. FY 2013 Plans: - Continue efforts of FY 2012. FY 2014 Plans: - Continue efforts of FY 2013.			
Accomplishments/Planned Programs Subtotals		51.778	54.879
C. Other Program Funding Summary (\$ in Millions)			
N/A			
Remarks			
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 such as the Joint Strike Fighter (JSF).			

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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 and JSF.		

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Navy												DATE: April 2013			
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					
Product Development (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	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	0.000	Oct 2011	0.000		0.000		-		0.000	0.000	6.300	
Mfg Development (CMTc)	C/CPAF	SCRA:Anderson, SC	21.404	7.300	Oct 2011	6.580	Oct 2012	6.580	Oct 2013	-		6.580	Continuing	Continuing	Continuing
Award Fee (CMTc)	C/CPAF	SCRA:Anderson, SC	0.900	0.300	Oct 2011	0.420	Oct 2012	0.420	Oct 2013	-		0.420	0.000	2.040	
Mfg Development (CNST)1	C/CPFF	Advanced Technology Institute (ATI):Charleston, SC	4.697	0.000		0.000		0.000		-		0.000	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	5.922	Oct 2013	-		5.922	0.000	27.703	
Award Fee (CNST)	C/CPAF	Advanced Technology Institute (ATI):Charleston, SC	0.680	0.300	Oct 2011	0.477	Oct 2012	0.378	Oct 2013	-		0.378	0.000	1.835	
Mfg Development (EMPF)	C/CPAF	American Competitiveness Institute (ACI):Philadelphia, PA	18.699	8.227	Oct 2011	6.580	Oct 2012	6.388	Oct 2013	-		6.388	0.000	39.894	
Award Fee (EMPF)	C/CPAF	American Competitiveness Institute (ACI):Philadelphia, PA	1.365	0.373	Oct 2011	0.420	Oct 2012	0.408	Oct 2013	-		0.408	0.000	2.566	
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	Oct 2013	-		2.000	0.000	12.000	
Mfg Development (EOC)	C/CPAF	Penn State University:State College, PA (EOC)	9.501	4.230	Oct 2011	4.230	Oct 2012	4.230	Oct 2013	-		4.230	0.000	22.191	

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Product Development (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Award Fee (EOC)	C/CPAF	Penn State University:State College, PA (EOC)	0.349	0.270	Oct 2011	0.270	Oct 2012	0.270	Oct 2013	-		0.270	0.000	1.159	
Mfg Development (iMAST)	C/CPFF	Penn State University:State College, PA (iMAST)	11.199	3.575	Dec 2011	3.875	Dec 2012	3.575	Oct 2013	-		3.575	0.000	22.224	
Mfg Development (NJC)	C/CPAF	Edison Welding Institute:Columbus, OH	9.175	2.304	Oct 2011	0.000		0.000		-		0.000	0.000	11.479	
Award Fee (NJC)	C/CPAF	Edison Welding Institute:Columbus, OH	0.575	0.218	Oct 2011	0.000		0.000		-		0.000	0.000	0.793	
Mfg Development (NMC)	C/CPAF	Concurrent Technologies Corp.:Johnstown, PA	34.300	11.319	Oct 2011	13.563	Oct 2012	12.160	Oct 2013	-		12.160	0.000	71.342	
Award Fee (NMC)	C/CPAF	Concurrent Technologies Corp.:Johnstown, PA	1.700	0.600	Oct 2011	0.861	Oct 2012	0.776	Oct 2013	-		0.776	0.000	3.937	
Mfg Development	WR	Naval Air Systems Command (NAVAIR):Patuxent River, MD	1.153	0.400	Nov 2011	0.375	Nov 2012	0.375	Oct 2013	-		0.375	0.000	2.303	
Mfg Development	WR	Naval Research Laboratory (NRL):Washington, DC	0.400	0.170	Nov 2011	0.470	Nov 2012	0.380	Oct 2013	-		0.380	0.000	1.420	
Mfg Development	WR	Naval Surface Warfare Center - Carderock Division:Carderock, MD	4.191	1.488	Nov 2011	1.584	Nov 2012	1.424	Oct 2013	-		1.424	0.000	8.687	
Mfg Development	WR	Naval Undersea Warfare Center - Newport:Newport, RI	0.380	0.000		0.000		0.000		-		0.000	0.000	0.380	

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Product Development (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Mfg Development	WR	SPAWAR:San Diego, CA	0.010	0.000		0.000		0.000		-		0.000	0.000	0.010	
Mfg Development	WR	Naval Surface Warfare Center Dahlgren:Dahlgren, VA	0.000	0.000		0.000		0.025	Oct 2013	-		0.025	0.000	0.025	
Subtotal			142.293	48.071		49.174		45.311		0.000		45.311			
Support (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	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	Oct 2013	-		1.800	0.000	10.962	
Contractor Support (GMST)	C/CPFF	DRC:Andover, MA	0.048	0.140	Oct 2011	0.025	Oct 2012	0.025	Oct 2013	-		0.025	0.000	0.238	
ManTech Registrations (GMPC)	Various	TBD:TBD	0.026	0.010	Jun 2012	0.010	Jun 2013	0.010	Oct 2013	-		0.010	0.000	0.056	
ManTech Travel (GMITT)	Various	TBD:TBD	0.235	0.080	Sep 2012	0.080	Sep 2013	0.060	Oct 2013	-		0.060	0.000	0.455	
Contractor Support (GMST)	C/CPFF	TBD:TBD	0.440	0.135	Dec 2011	0.145	Dec 2012	0.126	Oct 2013	-		0.126	0.000	0.846	
Miscellaneous (ONR Support Bills)	C/CPFF	TBD:TBD	3.200	1.434	Oct 2011	1.459	Oct 2012	1.429	Oct 2013	-		1.429	0.000	7.522	
Miscellaneous (Stat Reserve)	TBD	TBD:TBD	5.430	0.108	Mar 2012	2.186	Mar 2013	2.172	Oct 2013	-		2.172	0.000	9.896	
Subtotal			14.941	3.707		5.705		5.622		0.000		5.622	0.000	29.975	
			All Prior Years	FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			157.234	51.778		54.879		50.933		0.000		50.933			

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	All Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	Cost To Complete	Total Cost	Target Value of Contract	
Remarks										

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APPROPRIATION/BUDGET ACTIVITY
1319: *Research, Development, Test & Evaluation, Navy*
BA 7: *Operational Systems Development*

PROJECT
1050: *Manufacturing Tech*

R-1 ITEM NOMENCLATURE

PE 0708011N: *Industrial Preparedness*

- 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)

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Exhibit R-4A, RDT&E Schedule Details: PB 2014 Navy

DATE: April 2013

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

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Proj 1050				
Composites Processing and Fabrication	1	2012	4	2018
-- Annual Investment Guidance (CP&F)	1	2012	4	2017
-- Project Identification (CP&F)	1	2012	1	2018
-- Project Evaluation (CP&F)	1	2012	2	2018
-- Prog Office Commitment (CP&F)	1	2012	2	2018
-- FY Plan Determined (CP&F)	1	2012	3	2018
-- Project Award (CP&F)	1	2012	1	2018
-- Ongoing Projects (CP&F)	1	2012	4	2018
Corporate Investments	1	2012	4	2018
-- Annual Investment Guidance (CI)	1	2012	4	2017
-- Project Identification (CI)	1	2012	1	2018
-- Project Evaluation (CI)	1	2012	2	2018
-- Prog Office Commitment (CI)	1	2012	2	2018
-- FY Plan Determined (CI)	1	2012	3	2018
-- Project Award (CI)	1	2012	1	2018
-- Ongoing Projects (CI)	1	2012	4	2018
Electronics Processing and Fabrication	1	2012	4	2018
-- Annual Investment Guidance (EP&F)	1	2012	4	2017
-- Project Identification (EP&F)	1	2012	1	2018
-- Project Evaluation (EP&F)	1	2012	2	2018
-- Prog Office Commitment (EP&F)	1	2012	2	2018

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		Start		End
Events by Sub Project		Quarter	Year	Quarter Year
-- FY Plan Determined (EP&F)		1	2012	3 2018
-- Project Award (EP&F)		1	2012	1 2018
-- Ongoing Projects (EP&F)		1	2012	4 2018
Metals Processing and Fabrication		1	2012	4 2018
-- Annual Investment Guidance (MP&F)		1	2012	4 2017
-- Project Identification (MP&F)		1	2012	1 2018
-- Project Evaluation (MP&F)		1	2012	2 2018
-- Prog Office Commitment (MP&F)		1	2012	2 2018
-- FY Plan Determined (MP&F)		1	2012	3 2018
-- Project Award (MP&F)		1	2012	1 2018
-- Ongoing Projects (MP&F)		1	2012	4 2018
Other		1	2012	4 2018
-- Annual Investment Guidance (Other)		1	2012	4 2017
-- Project Identification (Other)		1	2012	1 2018
-- Project Evaluation (Other)		1	2012	2 2018
-- Prog Office Commitment (Other)		1	2012	2 2018
-- FY Plan Determined (Other)		1	2012	3 2018
-- Project Award (Other)		1	2012	1 2018
-- Ongoing Projects (Other)		1	2012	4 2018