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Exhibit R-2, RDT&E Budget Item Justification: PB 2012 Navy **DATE:** February 2011

APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 0708730N: <i>Maritime Tech (MARITECH)</i>
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COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
Total Program Element	4.083	-	5.000	-	5.000	5.000	5.000	5.000	5.000	Continuing	Continuing
2466: <i>NSRP ASE</i>	-	-	5.000	-	5.000	5.000	5.000	5.000	5.000	Continuing	Continuing
9999: <i>Congressional Adds</i>	4.083	-	-	-	-	-	-	-	-	0.000	4.083

A. Mission Description and Budget Item Justification

The National Shipbuilding Research Program (NSRP) is an industry and enterprise wide research collaboration that seeks to reduce the Navy's shipbuilding and repair cost. The resulting technologies implemented in NSRP-ASE member shipyards, benefit both the shipyard and the US Navy.

Project 9999 - Congressional Adds: National Shipbuilding Research Program Advanced Shipbuilding Enterprise and Passive RFID Development.

B. Program Change Summary (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
Previous President's Budget	4.083	-	-	-	-
Current President's Budget	4.083	-	5.000	-	5.000
Total Adjustments	-	-	5.000	-	5.000
• Congressional General Reductions		-			
• Congressional Directed Reductions		-			
• Congressional Rescissions	-	-			
• Congressional Adds		-			
• Congressional Directed Transfers		-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Program Adjustments	-	-	5.000	-	5.000

Congressional Add Details (\$ in Millions, and Includes General Reductions)

Project: 9999: *Congressional Adds*

Congressional Add: *National Shipbuilding Research Program Advanced Shipbuilding Enterprise*

Congressional Add: *Passive RFID Development*

Congressional Add Subtotals for Project: 9999

Congressional Add Totals for all Projects

FY 2010	FY 2011
3.187	-
0.896	-
4.083	-
4.083	-

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<u>Change Summary Explanation</u> Technical: Not applicable. Schedule: Not applicable.		

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Exhibit R-2A, RDT&E Project Justification: PB 2012 Navy								DATE: February 2011			
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 7: Operational Systems Development				R-1 ITEM NOMENCLATURE PE 0708730N: Maritime Tech (MARITECH)				PROJECT 2466: NSRP ASE			
COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
2466: NSRP ASE	-	-	5.000	-	5.000	5.000	5.000	5.000	5.000	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		
Note New project in FY 2012											
A. Mission Description and Budget Item Justification NSRP ASE is a collaboration of U.S. shipyards working with the Navy customer to reduce the cost of building and repairing naval ships and improving shipbuilding industry productivity through advanced technology and processes. NSRP ASE is an innovative and proven approach to public/private cooperation to manage cost-shared R&D based on a national consensus Strategic Investment Plan. The Plan targets potential industry-wide technology and process solutions which are vetted by industry experts and builds upon the progress made over the previous years. The collaboration's organizational structure promotes teaming of industry, government and academia to achieve the continuous product and process improvements necessary for improved Navy ship affordability. Solutions include both leverage of best commercial practices and creation of industry-wide initiatives with aggressive technology transfer to, and buy-in by, multiple U.S. shipyards. Navy PEOs (Ships, Subs and Carriers) and NAVSEA are directly involved in NSRP. The Plan calls for matching government and industry investments over several years											
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)								FY 2010	FY 2011	FY 2012	
Title: Technology Development Projects Articles: FY 2012 Plans: (1) Complete technology development projects in the four major initiative areas (Ship Design Technologies, Ship Production Technologies, Business Process and Information Technologies, and Regulatory Compliance and Technology Transfer/Workforce Development) that will be competitively selected by industry subject matter experts and Navy stakeholders during GFY11, targeting the following priorities in Naval shipbuilding and repair: (1) Improving Quality; (2) Reduction of Total Ownership Costs; and, (3) Increasing Energy Efficiency. It is anticipated that projects selected will be in the following areas: - Promotion of Modular Construction - Reduction of Re-work - Improving Production Engineering - Improving Specifications and Standards - Improving Manufacturing Processes - Improving Production Planning - Data Exchange - Improving Safety & Health / Reducing Environmental Impacts								-	-	5.000	
										0	

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2010	FY 2011
- Education and Training - Total Ownership Cost (2) Continued technology transfer among the Navy, shipbuilding industry, academia, equipment and material suppliers and the R&D community			
Accomplishments/Planned Programs Subtotals		-	5.000
C. Other Program Funding Summary (\$ in Millions)			
N/A			
D. Acquisition Strategy			
R&D projects have been solicited and awarded by an industry collaboration represented by the Executive Control Board (ECB) of the National Shipbuilding Research Program (NSRP). The Navy has entered into an agreement with the industry collaboration using "other transaction" authority pursuant to 10 U.S.C. 2371.			
E. Performance Metrics			
Quarterly reports and reviews			

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2012 Navy											DATE: February 2011		
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 7: Operational Systems Development				R-1 ITEM NOMENCLATURE PE 0708730N: Maritime Tech (MARITECH)				PROJECT 2466: NSRP ASE					

Product Development (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 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
Technology Development	SS/TBD	ECB NSRP:Not Specified	-	-		4.700	Dec 2011	-		4.700	Continuing	Continuing	Continuing
Subtotal			-	-		4.700		-		4.700			

Support (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 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
Gov't Support Services	WR	NSWCCD:Not Specified	-	-		0.225	Mar 2012	-		0.225	Continuing	Continuing	Continuing
Contractor Support Services	Various	Various:Not Specified	-	-		0.075	Mar 2012	-		0.075	Continuing	Continuing	Continuing
Subtotal			-	-		0.300		-		0.300			

			Total Prior Years Cost	FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	-		5.000		-		5.000			

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2012 Navy			DATE: February 2011		
APPROPRIATION/BUDGET ACTIVITY		R-1 ITEM NOMENCLATURE		PROJECT	
1319: Research, Development, Test & Evaluation, Navy		PE 0708730N: Maritime Tech (MARITECH)		2466: NSRP ASE	
BA 7: Operational Systems Development					

	FY 2010				FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Proj 2466																												
Ship Collaborative Framework Technologies																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2012 Navy			DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 0708730N: <i>Maritime Tech (MARITECH)</i>	PROJECT 2466: <i>NSRP ASE</i>	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>Proj 2466</i>				
Ship Collaborative Framework Technologies	1	2012	4	2016

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COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
9999: <i>Congressional Adds</i>	4.083	-	-	-	-	-	-	-	-	0.000	4.083
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		

A. Mission Description and Budget Item Justification
 The National Shipbuilding Research Program (NSRP) is an industry and enterprise wide research collaboration that seeks to reduce the cost of NAVSEA and affiliated PEO shipbuilding and repair. The resulting technologies implemented in NSRP-ASE member shipyards, benefiting both the shipyard and the US Navy.

 Project 9999 - Congressional Adds: National Shipbuilding Research Program Advanced Shipbuilding Enterprise and Passive RFID Development.

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2010	FY 2011
<i>Congressional Add:</i> National Shipbuilding Research Program Advanced Shipbuilding Enterprise	3.187	-
<i>FY 2010 Accomplishments:</i> To manage and focus national shipbuilding and repair research and development funding on technologies that will reduce the cost of ships to the US Navy by leveraging best commercial practices and improving the efficiency of the industry. VT Halter Marine in Pascagoula, MS is one of the industry performers.		
<i>Congressional Add:</i> Passive RFID Development	0.896	-
<i>FY 2010 Accomplishments:</i> The Department of Defense and the U.S. Navy will develop a system to track their vast inventories of parts and supplies. This implementation of passive RFID technology will greatly improve visibility of parts as they flow through the DoD supply distribution system to our forward deployed forces afloat. The U.S. Navy believes this effort, which will bring numerous high tech jobs to Northeast Ohio, will reduce logistics, operating and inventory costs, reduce manning needs on Navy ships, and increase military readiness. Industry performer is Main Sail, LLC in Cleveland, OH.		
Congressional Adds Subtotals	4.083	-

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

D. Acquisition Strategy
 N/A

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E. Performance Metrics

Quarterly Program Reviews