

CLASSIFICATION:

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EXHIBIT R-2, RDT&E Budget Item Justification	DATE: June 2001
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APPROPRIATION/BUDGET ACTIVITY RESEARCH DEVELOPMENT TEST & EVALUATION, NAVY/BA-7	R-1 ITEM NOMENCLATURE NAT'L SHIPBLDG RES PROG ADVANCED SHIPBLDG ENTERPRISE/0708730N
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COST (\$ in Millions)	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	Cost to Complete	Total Cost
Total PE Cost	20.512	9.280	20.065							
NSRP ASE/S2466/S2811	20.512	9.280	20.065							
Quantity of RDT&E Articles	N/A	N/A	N/A							

A. Mission Description and Budget Item Justification

The mission of the National Shipbuilding Research Program Advanced Shipbuilding Enterprise (NSRP ASE) is to manage and focus national research funding on technologies that will enhance U.S. commercial shipbuilding competitiveness and reduce the cost of naval ships. NSRP ASE combines DARPA's MARITECH and the Navy's National Shipbuilding Research Program (NSRP).

Industry has developed a landmark long range Strategic Investment Plan which will guide NSRP ASE investments. This Strategic Investment Plan provides a framework to guide collaborative research and development among all segments of the U.S. ship construction and repair industry, educational and research institutions, and Government. The objective is to assist the industry in achieving significant reduction in the cost and time required for both commercial and Navy ship construction, conversion, and repair. The recommended investment portfolio includes major initiatives that tie the strategic vision to proposed industry research through collaborative R&D. The major initiatives include: Shipyard Production Process Technologies, Business Process Technologies, Product Design and Material Technologies, Systems Technologies, Facilities and Tooling. Additionally, several critical success factors were found to cut across all of the major initiatives. These "Crosscut Initiatives" include Education and Training, Technology Transfer, Organizational Change, Environmental Protection and Human Resources.

The collaboration of major shipyards that lead the program are: Electric Boat Corporation, Bath Iron Works, Newport News Shipbuilding, Atlantic Marine, Litton Ingalls Shipbuilding, Friede/Goldman/Halter Marine, Litton Avondale, NASSCO, Todd Pacific, Cascade General and Bender Shipbuilding.

R-1 SHOPPING LIST - 220-1 of 220-5

Exhibit R-2, RDT&E Budget Item Justification
(Exhibit R-2, page 1 of 5)

UNCLASSIFIED

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APPROPRIATION/BUDGET ACTIVITY RESEARCH DEVELOPMENT TEST & EVALUATION, NAVY/BA-7	R-1 ITEM NOMENCLATURE NAT'L SHIPBLDG RES PROG ADVANCED SHIPBLDG ENTERPRISE/0708730N	
<p>FY 2000 ACCOMPLISHMENTS: (20,512K)</p> <ul style="list-style-type: none"> - (U) (10,715K) Continued technology development projects in the six major initiative areas selected from Research Announcement One (13 projects). - (U) (8,202K) Commenced technology development projects in the six major initiative areas selected from Research Announcement Two. - (U) (796K) Continued utilization of industry-led major initiative teams to perform the execution and annual review of the Strategic Investment Plan, including technology transfer among the Navy, the shipbuilding industry, academia, equipment and material suppliers and the R&D community. - (U) (550K) Operated multi-agency support office to facilitate technology transfer between Government and industry. - (U) (249K) Completed close out of DARPA MARITECH and NSRP projects that transferred to NSRP ASE. <p>FY 2001 PLAN: (9,280K)</p> <ul style="list-style-type: none"> - (U) (4,700K) Continue technology development projects in the six major initiative areas selected from Research Announcement One (13 projects). - (U) (3,737K) Continue technology development projects in the six major initiative areas selected from Research Announcement Two. - (U) (300K) Continue utilization of industry-led major initiative teams to perform the execution and annual review of the Strategic Investment Plan, including technology transfer among the Navy, the shipbuilding industry, academia, equipment and material suppliers and the R&D community. - (U) (125K) Initiate transition of projects to shipbuilding programs. - (U) (150K) Operate multi-agency support office to facilitate technology transfer between Government and industry. - (U) (25K) Complete close out of DARPA MARITECH and NSRP projects that transferred to NSRP ASE. - (U) (243K) Portion of extramural program reserved for Small Business Innovation Research assessment in accordance with 15 USC 638. <p>FY 2002 PLAN: (20,065K)</p> <ul style="list-style-type: none"> - (U) (9,100K) Complete all remaining technology development projects in the six major initiative areas selected from Research Announcement One (13 projects). - (U) (10,165K) Continue technology development projects in the six major initiative areas selected from Research Announcement Two. - (U) (400K) Continue utilization of industry-led major initiative teams to perform the execution and annual review of the Strategic Investment Plan, including technology transfer among the Navy, the shipbuilding industry, academia, equipment and material suppliers and the R&D community. - (U) (250K) Continue transition of projects to shipbuilding programs. - (U) (150K) Operate multi-agency support office to facilitate technology transfer between Government and industry. 		

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EXHIBIT R-2, RDT&E Budget Item Justification		DATE:	
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APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE		
RESEARCH DEVELOPMENT TEST & EVALUATION, NAVY/BA-7	NAT'L SHIPBLDG RES PROG ADVANCED SHIPBLDG ENTERPRISE/0708730N		
B. Program Change Summary:			
	FY 2000	FY 2001	FY 2002
FY 2001 President's Budget:	19.681	9.366	15.166
Appropriated Value:	21.431	9.366	
Adjustment to FY 2000/2001 Appropriated Value	-0.919	-0.086	4.899
FY 2001 President's Budget:			
FY 2002 PRES Budget Submit:	20.512	9.280	20.065
Funding: FY00: -\$919K decreases due to congressional undistributed reduction			
FY01: -\$86K congressional undistributed reduction			
FY02: +\$4,899K increase due to program adjustments			
Technical: Not applicable.			
C. Other Program Funding Summary (Related RDT&E): DARPA P.E. 0603746E (MARITECH) - NSRP ASE follows the original DARPA MARITECH program. Work remaining under the original DARPA program has transitioned to the NSRP ASE program			
D. Acquisition Strategy: R&D projects have been solicited and awarded by an industry collaboration represented by the Executive Control Board (ECB) of the Nation Shipbuilding Research Program (NSRP). The Navy has entered into an agreement with the industry collaboration using "other transaction" authority pursuant 10 U.S.C. 2371.			
E. Schedule Profile:			
	FY 00	FY 01	FY 02
Engineering Milestones: N/A			
T&E Milestones: N/A			
Contract Milestones:			
Other Program Events:	2Q Award 2nd Set-Tech. Develop. Projects 3Q Annual Update of Strategic Invest. Plan	3Q Annual Update of Strategic Invest. Plan	3Q Annual Update of Strategic Invest. Plan

R-1 SHOPPING LIST - 220-3 of 220-5

Exhibit R-2, RDT&E Budget Item Justification
(Exhibit R-2, page 3 of 5)

UNCLASSIFIED

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Exhibit R-3 Cost Analysis (page 1)								DATE: June 2001				
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT			PROJECT NAME AND NUMBER						
RDT&E, N			NSRP ASE - PE 0708730N			NSRP ASE/S2466/S2811						
Cost Categories (Tailor to WBS, or System/Item Requirements)	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 00 Cost	FY 00 Award Date	FY 01 Cost	FY 01 Award Date	FY 02 Cost	FY 02 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Technology Development	SS OT*	ECB NSRP**	14.953	19.453	VARIOUS	9.000	VARIOUS	19.835	VARIOUS	9.800	73.041	73.041
Subtotal Product Development			14.953	19.453		9.000		19.835		9.800	73.041	73.041
Remarks: * Other Transactions IAW 10 USC 2371												
Gov't Support Serv/Other Agencies	MIPR/WR	MARAD	2.398	0.050	1Q00	0.050	1Q01	0.050	1Q01	0.050	2.598	2.598
Support Services Revolving Accts	MIPR/WR	VARIOUS	0.292	0.254	1Q00	0.100	1Q01	0.050	1Q01	0.050	0.746	0.746
Subtotal Support			2.690	0.304		0.150		0.100		0.100	3.344	3.344
Remarks:												

R-1 SHOPPING LIST - 220-4 of 220-5

Exhibit R-3, Project Cost Analysis
(Exhibit R-3, page 4 of 5)

UNCLASSIFIED

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UNCLASSIFIED

Exhibit R-3 Cost Analysis (page 2)								DATE: June 2001				
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT			PROJECT NAME AND NUM						
RDT&E, N			NSRP ASE - PE 0708730N			NSRP ASE/S2466/S2811						
Cost Categories (Tailor to WBS, or System/Item Requirements)	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 00 Cost	FY 00 Award Date	FY 01 Cost	FY 01 Award Date	FY 02 Cost	FY 02 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Subtotal T&E			0.000	0.000		0.000		0.000		0.000	0.000	0.000
Remarks:												
Contract Support Services												
Technology Development	Reqn*	TRW/Schafer Corp.	0.410	0.400	3Q00	0.000		0.000		0.000	0.810	0.810
Technology Development	SS	PSU/APL	0.075	0.100	1Q00	0.100	1Q01	0.100	1Q01	0.100	0.475	0.475
PM Support	RC	NASSCO	0.000	0.070	3Q00	0.000		0.000		0.000	0.070	0.070
NSNET	RC	University of Michigan	0.250	0.150	3Q00	0.000		0.000		0.000	0.400	0.400
Travel			0.014	0.035	VARIOUS	0.030	VARIOUS	0.030	VARIOUS	0.030	0.139	0.139
Subtotal Management			0.749	0.755		0.130		0.130		0.130	1.894	1.894
Remarks: * Procure under GSA Schedule												
Total Cost			18.392	20.512		9.280		20.065		10.030	78.279	78.279
Remarks:												

R-1 SHOPPING LIST - 220-5 of 220-5

Exhibit R-3, Project Cost Analysis
(Exhibit R-3, page 5 of 5)

UNCLASSIFIED