CLASSIFICATION:

EXHIBIT R-2, RDT&E Budget Item Justification		FY 2		DATE:				
							Februa	ry 2005
APPROPRIATION/BUDGET ACTIVITY				R-1 ITEM NOMEN	CLATURE			
RDTEN/BA-4		TUDIES						
COST (\$ in Millions)	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
Total PE Cost	0.000	0.000	27.021	33.223	18.663	3.983	1.824	2.540
3127 Sea Base to Shore Connectors	0.000	0.000	14.415	13.849	13.569	0.000	0.000	0.000
3131 Intratheater Connectors	0.000	0.000	4.848	11.850	5.094	3.983	1.824	2.540
3132 Intertheater Connectors	0.000	0.000	7.758	7.524	0.000	0.000	0.000	0.000

A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION: Initial Capabilies and potential Material Approach Alternatives (ship concepts), identified in PE 0603563N (Ship Concept Advanced Design) or other efforts are transitioned to and further developed by this program after an Initial Capabilities Document (ICD) is approved and usually after an approved Concept Decision (CD). This project performs the Ship Feasibility Studies, including development of alternative ship concepts, required to address and support the Analysis of Alternatives (AOA) for new surface ships in the Navy Shipbuilding Plan. Under Acquisition Reform for new ships, traditional distinct phasing of the design process has been replaced with a continuous concurrent engineering process. This project performs impact studies of warfare, hull, mechanical and electrical subsystems on advanced ship designs; enhances ship/ship system design methodologies that support feasibility studies; develops and upgrades the engineering tools, especially ship synthesis models, used to support AOA studies and other engineering efforts accomplished during the feasibility study phase; evaluates advanced and alternative technologies and develops total ship concepts with these technologies to assess their suitability; develops the initial documentation and design methodology required by the government for the design of surface ships in the Shipbuilding Program in accordance with the requirements of the DoD 5000; supports the development of the Capabilities Development Document (CDD) and other documentation required at Milestone A (which is usually program initiation for shipbuilding programs) and accomplishes other efforts for future ship acquisitions in support of a Milestone A. Ship Feasibility Study products include a description of the alternative ships' principal characteristics and mission critical subsystems, weight estimates, general arrangement sketches, technical risk assessments, and Life Cycle Cost estimate (LCCE) The objective of this project is to provide t

B. PROJECT UNIT EFFORTS are as follows

- (1) (3127) Sea Base to Shore Connectors This project supports continued development of AoA studies, and all technical, programmatic and contractual documentation required for the acquisition of the Sea Base Connector. The major effort is the engineering development of the technical and contractual definition of the Sea Base Connector design with sufficient details for the prospective offeror to make a sound estimate of construction cost and schedule. It also serves as the technical definition from which the offeror will develop the detail design and testing package required to build and test the craft.
- (2) (3131) Intratheater Connectors Intratheater connectors, capable of self-deploying to the theater of operations, provide the air and surface means to move forces and supplies over operational distances within a theater. Intratheater connectors provide the JFC a mobility asset that enables rapid force closure to the sea base from advanced bases, movement of logistics, shipto-ship and ship-to-shore replenishment, and in appropriate threat environments, the maneuver of forces to the shore.
- (3) (3132) Intertheater Connectors concept studies in support of ship system that will provide a highly flexible sea lift capability to quickly bring war material and strike aircraft from CONUS to the Seabase and secondarily provide high speed lift within the sea base.

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification	FY	2006/2007 Presi	ident's Budget (\$	M)	DATE:			
						February 2005		
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMI	ENT NUMBER ANI	O NAME		PROJECT NUMBE	R AND NAME		
RDTEN/BA-4	PE 0603564N/SH	IIP PRELIM DES	IGN & FEASIBILI	TY STUDIES	3127 Sea E	Base to Shore Co	onnectors	
COST (\$ in Millions)	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
Project Cost	0.000	0.000	14.415	13.849	13.569	0.000	0.000	0.000
RDT&E Articles Qty								

A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

(3127) Sea Base to Shore Connectors:

This program is designed to develop a High Speed Connector to meet the requirements of the Navy's Sea Base-to-Shore Connector initiatives and will provide an Over-the-Horizon, ship to objective amphibious lift capability as well as the capability to move across the beach. This project supports development of AoA studies, and all technical, programmatic and contractual documentation required for the acquisition of the Sea Base Connector. The major effort is the engineering development of the technical and contractual definition of the Sea Base Connector design with sufficient details for the prospective offeror to make a sound estimate of construction cost and schedule. It also serves as the technical definition from which the offeror will develop the detail design and testing package required to build and test the craft.

CLASSIFICATION:

EXHIBIT R-2, RDT&E Budget Item Justification	FY 2006/2007 President's Budget (\$M)	DATE:
		February 2005
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND NAME
RDTEN/BA-4	PE 0603564N/SHIP PRELIM DESIGN & FEASIBILITY STUDIES	3127 Sea Base to Shore Connectors

B. Accomplishments/Planned Program

	FY 04	FY 05	FY 06	FY 07
Accomplishments/Effort/Subtotal Cost	0.000	0.000	14.415	13.849
RDT&E Articles Quantity	0	0	0	0

This effort encompasses the engineering development of the technical and contractual definition of the Sea Base Connector design with sufficient details for the prospective offeror to make a sound estimate of construction cost and schedule. It also serves as the technical definition from which the offeror will develop the detail design and testing package required to build and test the craft.

CLASSIFICATION:

EXHIBIT R-2, RDT&E Budget Item Justification	FY 2006/2007 I	President's	Budget (\$M)		DATE:
					February 2005
PPROPRIATION/BUDGET ACTIVITY P	ROGRAM ELEMENT NUMBER	AND NAME			PROJECT NUMBER AND NAME
DTEN/BA-4	E 0603564N/SHIP PRELIM	DESIGN & F	EASIBILITY S	TUDIES	3127 Sea Base to Shore Connectors
C. PROGRAM CHANGE SUMMARY:					
Funding:	FY 2004	FY 2005	FY 2006	FY 2007	,
President's Budget 2005	0.000	0.000	0.000	0.000	
President's Budget 2006/2007	<u>0.000</u>	0.000	<u>14.415</u>	13.849	
Total Adjustments	0.000	0.000	14.415	13.849	
Programmatic Adjustments					
ADJUSTMENT TO ADD HIGH SPEED CONNE		0.000	14.560	14.135	
Miscellaneous Adjustments	0.000	0.000	-0.145	-0.286	
Total Adjustment	0.000	0.000	14.415	13.849	
Schedule:					
Not Applicable					
Technical:					
Not Applicable					

CLASSIFICATION:

EXHIBIT R-2, RDT&E Budget Item Justif	ication		FY 2006/2007 Pr	esident's Bud	get (\$M)					DATE:
										February 2005
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEM	ENT NUMBER A	ND NAME			PROJECT NUMBE	R AND NAME	
RDTEN/BA-4			PE 060356	4N/SHIP PREL	IM DESIGN & I	FEASIBILITY S	TUDIES	312	7 Sea Base to	Shore Connectors
D. Other Program Funding Summary SCN 0204411N Surface Connector (55112)	FY2004 0.000	FY2005 0.000	FY2006 0.000	FY2007 0.000	FY2008 0.000	FY2009 0.000	FY2010 99.088	FY2011 209.027	To Complete	Total Cost 308.115
(U) Related RDT&E: 0604567 Ship Contract Design/ Live Fire T&E	0.000	1.696	0.000	0.000	18.156	22.395	8.816	1.719		52.782

E. Acquisition Strategy:

FY05 - AoA, FY06-08 Concept Design, FY08-10 System Development, FY10-11 Production

F. Major Performers:

Field Activities & Locations - Work Performed

NSWC Philadelphia, Phil. PA. Systems Engineering - Propulsion Systems
NSWC Panama City, FL Systems Engineering - Hull, Mechanical & Electrical

Contractors & Locations - Work Performed

TBD

Universities & Locations - Work Performed

TBD

CLASSIFICATION:

Cost Categories Con Mett & Ty Primary Hardware Development Ancillary Hardware Development Aircraft Integration Ship Integration Ship Suitability Systems Engineering Variet Training Development Licenses Tooling GFE	entract Performathod Activity Type Location arious Variou	& n	Total PY s	ESIGN & FEA	ASIBILITY S FY 04 Award Date	FY 05 Cost	FY 05 Award			ID NAME ore Connector		2005	ı						
APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-4 Cost Categories	ontract Performation Activity Type Location	PE 0603564N/S ning & n	Total PY s	FY 04	FY 04 Award	FY 05		3127 Sea B	ase to Sh	ID NAME ore Connector	s								
Cost Categories Con Metl & Ty Primary Hardware Development Ancillary Hardware Development Aircraft Integration Ship Integration Ship Suitability Systems Engineering Varies Training Development Licenses Tooling GFE	ethod Activity Type Locatio	ning & n	Total PY s	FY 04	FY 04 Award	FY 05							1						
Meti & Ty Primary Hardware Development Ancillary Hardware Development Aircraft Integration Ship Integration Ship Suitability Systems Engineering Vari Training Development Licenses Tooling GFE	ethod Activity Type Locatio	& n	PY s	-	Award				FY 06		E) / 07	3127 Sea Base to Shore Connectors							
Meti & Ty Primary Hardware Development Ancillary Hardware Development Aircraft Integration Ship Integration Ship Suitability Systems Engineering Vari Training Development Licenses Tooling GFE	ethod Activity Type Locatio	& n	PY s	-				E) (00			FY 07								
Primary Hardware Development Ancillary Hardware Development Aircraft Integration Ship Integration Ship Suitability Systems Engineering Vari Training Development Licenses Tooling GFE	Type Location	n	Cost	Cost	Date	Cost		FY 06	Award	FY 07	Award	Cost to	Total	Target Value					
Primary Hardware Development Ancillary Hardware Development Aircraft Integration Ship Integration Ship Suitability Systems Engineering Vari Training Development Licenses Tooling GFE							Date	Cost	Date	Cost	Date	Complete	Cost	of Contract					
Aircraft Integration Ship Integration Ship Suitability Systems Engineering Training Development Licenses Tooling GFE	arious Variou												0.000						
Ship Integration Ship Suitability Systems Engineering Vari Training Development Licenses Tooling GFE	arious Variou												0.000						
Ship Suitability Systems Engineering Variating Development Licenses Trooling GFE	arious Variou		•										0.000						
Ship Suitability Systems Engineering Variating Development Licenses Trooling GFE	arious Variou												0.000						
Systems Engineering Vari Training Development Licenses Tooling GFE	arious Variou												0.000						
Licenses Tooling GFE		5						5.855		5.900		5.700	17.455						
Licenses Tooling GFE													0.000						
GFE													0.000						
GFE													0.000						
													0.000						
Award Fees													0.000						
Subtotal Product Development			0.000	0.000		0.000		5.855		5.900		5.700	17.455						
Development Support Varie	arious Variou	3						4.000		3.579		3.489	11.068						
Software Development Varie	arious Variou	}						3.000		2.800		2.800	8.600						
Integrated Logistics Support													0.000						
Configuration Management													0.000						
Technical Data													0.000						
Studies & Analyses													0.000						
GFE													0.000						
Award Fees													0.000						
Subtotal Support			0.000	0.000		0.000		7.000		6.379		6.289	19.668						
Remarks:																			

CLASSIFICATION:

									DATE:						
- 1 1 1 1 B 0 0 1 A 1 1 1 1	۵)								DATE:						
Exhibit R-3 Cost Analysis (pa			•									February 2	005		
APPROPRIATION/BUDGET ACTIV	/ITY		PROGRAM ELEM						PROJECT N						
RDT&E, N / BA-4			PE 0603564N/SH		ESIGN & FEA		UDIES				re Connector				
Cost Categories	Contract	Performing		Total		FY 04		FY 05		FY 06		FY 07			
	Method	Activity &		PY s	FY 04		FY 05	Award		Award	FY 07	Award	Cost to	Total	Target Value
	& Type	Location		Cost	Cost	Date	Cost	Date		Date		Date		Cost	of Contract
Developmental Test & Evaluation									1.200		1.200		1.200		
Operational Test & Evaluation														0.000	
Live Fire Test & Evaluation														0.000	
Test Assets														0.000	
Tooling														0.000	
GFE														0.000	
Award Fees														0.000	
Subtotal T&E				0.000	0.000		0.00)	1.200		1.200)	1.200	3.600	,
Contractor Engineering Support														0.000	
Government Engineering Support														0.000	
Program management Support									0.360		0.370		0.380		
Travel														0.000	
Transportation														0.000	
SBIR Assessment														0.000	
Subtotal Management				0.000	0.000		0.00	O	0.360		0.370		0.380	1.110	,
Remarks:						I									
Total Cost				0.000	0.000	1	0.00)	14.415		13.849		13.569	41.833	
Remarks:			L.								, , , , , , ,				-

CLASSIFICATION:

EXHIBIT R4, Schedu	le Profile																									DATE	:						
A D D D D D A TION ID ID	FT 40TN (1)	T) (DD 04	25444											DD0 11	-0-1		D 4111			Fe	ebrua	ry 20	05		
APPROPRIATION/BUDG															ER ANI			OID!!		TUD		PROJI	-CTN	IUMBE					•				
RDT&E, N /	BA-4									PE 0	60356	54N/S	HIP P	KELII	W DES	SIGN	& FEA	SIBIL	HYS	וטטו	ES			31	27 56	ea Bas	se to S	shore	Conr	ector	'S		
Fiscal Year		20	004				20	05			20	006			20	007			20	800			20	09			201	10		1	20	11	
	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	1	2	3	4
Decision Reviews																Δ	MS A				Δ	MS B											
Acquisition Milestones														Δ	Broad	Indus	try Par	ticipati		try Do	wn Sele	ect											
Concept/Tech Development																																	

CLASSIFICATION:

Exhibit R-4a, Schedule Detail						DATE:		
						F	ebruary 200	5
APPROPRIATION/BUDGET ACTIVITY	PROGRAM E	LEMENT			PROJECT NU	MBER AND N	AME	
RDT&BA-4	PE 0603564	N/SHIP PREL	IM DESIGN 8	FEASIBILITY	3127	Sea Base to	Shore Conne	ctors
Schedule Profile	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
Acquisition Milestones				3Q	4Q			
Contract Award							2Q	
Concept/Tech Development			1Q-4Q	1Q-4Q	1Q-4Q			

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification	FY	2006/2007 Presi	ident's Budget (\$	M)	DATE:			
						February 2005		
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMI	ENT NUMBER AND	O NAME		PROJECT NUMBE	R AND NAME		
RDTEN/BA-4	PE 0603564N/SH	IIP PRELIM DES	IGN & FEASIBILI	TY STUDIES	3131 lr	ntratheater Conn	ectors	
COST (\$ in Millions)	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
Project Cost	0.000	0.000	4.848	11.850	5.094	3.983	1.824	2.540
RDT&E Articles Qty								

A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION: (3131) Intratheater Connectors- develops future capabilities in support of intratheater connectors. These ship systems will be capable of self-deploying to the theater of operations, provide the air and surface means to move forces and supplies over operational distances within a theater. Intratheater connectors provide the JFC a mobility asset that enables rapid force closure to the sea base from advanced bases, movement of logistics, ship-to-ship and ship-to-shore replenishment, and in appropriate threat environments, the maneuver of forces to the shore. The primary mission will be to provide logistical military lift from the advanced base to the sea base. The secondary missions will includes the ability to provide logistical military lift from the seabase to the shore.

The Intratheater connector will have the following characteristics: Moderate payload capacity (100's to 1,000's of short tons) Shallow draft
Self deploying and sustaining for short periods

Cross-theater laden ranges

Beachable and non-beachable options will be investigated.

CLASSIFICATION:

EXHIBIT R-2, RDT&E Budget Item Justification	FY 2006/2007 President's Budget (\$M)	DATE:
		February 2005
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND NAME
RDTEN/BA-4	PE 0603564N/SHIP PRELIM DESIGN & FEASIBILITY STUDIES	3131 Intratheater Connectors

B. Accomplishments/Planned Program

	FY 04	FY 05	FY 06	FY 07
Accomplishments/Effort/Subtotal Cost	0.000	0.000	4.848	11.850
RDT&E Articles Quantity				

R&D Efforts for Intratheater Connector - addressing beaching and non-beaching variants including critical technology development, risk mitigation, analysis of alternatives, concept refinement, and development of analysis of performance specification.

CLASSIFICATION:

XHIBIT R-2, RDT&E Budget Item Justification	FY 2006/2007	President's E	Budget (\$M)		DATE: February 2005	
PPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER	AND NAME			PROJECT NUMBER AND NAME	
	PE 0603564N/SHIP PRELIM		ASIBII ITY S		3131 Intratheater Connectors	
COLLINGO T	TE 000000414/01111 T REELIN	DEGICIT G 1 I	LACIBILITY	TODILO	of of intradicated confections	
C. PROGRAM CHANGE SUMMARY:						
Funding:	FY 2004	FY 2005	FY 2006	FY 2007	•	
President's Budget 2005	0.000	0.000	0.000	0.000		
President's Budget 2006/2007	<u>0.000</u>	0.000	4.848	<u>11.850</u>	<u>)</u>	
Total Adjustments	0.000	0.000	4.848	11.850		
Programmatic Adjustments						
ADJUSTMENT TO ADD INTRATHEATER CO	ONNECTORS 0.000	0.000	4.857	11.874	1	
Miscellaneous Adjustments			-0.009	-0.024		
Total Adjustment	0.000	0.000	4.848	11.850		
•						
Cabadula						
Schedule:						
Not Applicable						
Technical:						
Not Applicable						

CLASSIFICATION:

EXHIBIT R-2, RDT&E Budget Item Justifi	cation		FY 2006/2007 P	resident's Bud	get (\$M)					DATE:	
APPROPRIATION/BUDGET ACTIVITY RDTEN/BA-4		PROGRAM ELEM			FEASIBILITY S		PROJECT NUMBE		February 2005 er Connectors		
D. Other Program Funding Summary PE 0204228N SCN/BLI3043 Intratheater Connector Surface Support	FY2004	FY2005	FY2006	FY2007	FY2008	FY2009 204.622	FY2010 176.873	FY2011 180.609	To Complete TBD	Total Cost 562.104	
(U) Related RDT&E: Not Applicable PE 0604567N (U)SHIP CONTRACT DESIGN/ LIVE FIRE T&E	0.000	0.000	1.942	2.262	13.758	7.903	6.801	1.365	0.000	34.031	

E. Acquisition Strategy:

Feasibility studies will be conducted to determine the best designs to meet new Navy requirements for beachable and non-beachable intratheater connectors.

F. Major Performers:

Field Activities & Locations - Work Performed

NSWC, Carderock, MD - Concept development and engineering support

NSWC, Panama City, FL - Concept development NFESC Pt Hueneme CA - Concept development

SPAWAR Systems Center, Charleston SC - Concept development and engineering support

NAVAIR Pax River, MD - Concept development and engineering support

Office of Naval Research, Arlington, VA - Concept Development

Contractors & Locations - Work Performed CSC, Washington, DC - Engineering Support

Universities & Locations - Work Performed

CLASSIFICATION:

Exhibit R-3 Cost Analysis (pag								_	ebruary 20					
APPROPRIATION/BUDGET ACTIV	ITY	PROGRA	M ELEMENT					PROJECT N	UMBER AND	NAME				
RDT&E, N / BA-4 PE 0603564N/SHIP PRELIM DESIGN & FEASIBILITY STUDIES 3131 Intratheater Connectors														
Cost Categories	Contract	Performing	Total		FY 04		FY 05		FY 06		FY 07			
	Method	Activity &	PY s	FY 04	Award	FY 05	Award	FY 06	Award	FY 07	Award	Cost to	Total	Target Value
	& Type	Location	Cost	Cost	Date	Cost	Date	Cost	Date	Cost	Date	Complete	Cost	of Contract
rimary Hardware Development													0.000)
ncillary Hardware Development													0.000)
owered Lift Options	WX	NSWC						0.400	1Q	2.474	1Q		2.874	1
Ionohull Options	WX	NSWC						0.300	1Q	1.200	1Q		1.500)
lulti-hull Options	WX	NSWC						0.300	1Q	1.976	1Q		2.276	6
isk Mitigation Efforts	MAC	CSC						0.000		1.500	1Q		1.500)
evelop Applicable ABS Rules	MAC	ABS						0.000		0.900	1Q		0.900)
censes													0.000)
ooling													0.000)
FE													0.000)
ward Fees													0.000)
Subtotal Product Development			0.000	0.000)	0.000		1.000		8.050		0.000	9.050)

Remarks: The following elements are a part of the beaching craft critical technology.

Powered Lift Options includes investigating various opitions of vessels that emply dynamic lift including: conventionals SES, retractable sea catamaran, inflatable sidehull SES, and modeling.

Monohull Options includes stern beaching concept, bow beaching concept, and modeling.

Multi-hull Options includes trimaren concept, catamaran concept, and modeling.

Risk Mitigation for beaching craft includes ship interface modeling and shore interface modeling.

Development Support	Various	Various				0.800	1Q	0.800	1Q		1.600	
Software Development											0.000	
Integrated Logistics Support											0.000	
Configuration Management											0.000	
Technical Data											0.000	
Studies & Analyses	Various	Various				3.048	1Q	0.000			3.048	
GFE											0.000	
Award Fees											0.000	
Subtotal Support			0.000	0.000	0.000	3.848		0.800		0.000	4.648	

Remarks:	
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CLASSIFICATION:

	ROGRAM ELEMENT E 0603564N/SHIP PRELIM						February 2					
Cost Categories Cost Categories Contract Method & Type Developmental Test & Evaluation Departional Test & Evaluation Dest Assets Cooling GFE Ward Fees Subtotal T&E Contractor Engineering Support Devermment Engin	0603564N/SHIP PRELIM											
Contract Method Activity & Location evelopmental Test & Evaluation perational Test & Evaluation perati						PROJECT N	NUMBER A	ND NAME				
Method & Activity & Location Developmental Test & Evaluation Operational Test & Evaluation ive Fire Test & Evaluation est Assets Cooling FFE Ward Fees Subtotal T&E Contractor Engineering Support Grogram management Support Fravel Fransportation Bills Assessment Subtotal Management	t Categories Contract Performing Total FY 04 F							nnectors				
Developmental Test & Evaluation Devational Test & Evaluation Live Fire Test & Evaluati	PY s	FY 04	Award	FY 05	FY 05 Award	FY 06	FY 06 Award	FY 07	FY 07 Award	Cost to	Total	Target Value
Operational Test & Evaluation ive Fire Test & Evaluation est Assets fooling GFE ward Fees Subtotal T&E Remarks: Contractor Engineering Support Program management Support Fravel Fransportation Bills Assessment Subtotal Management	Cost	Cost	Date	Cost	Date	Cost	Date	Cost	Date	Complete	Cost	of Contract
ve Fire Test & Evaluation est Assets cooling FE ward Fees Subtotal T&E Remarks: contractor Engineering Support covernment Engineering Support rogram management Support ravel sansportation BIR Assessment Subtotal Management											0.000	
est Assets cooling GFE GFE Subtotal T&E Remarks: Contractor Engineering Support Covernment											0.000	
Cooling SPE SPE SWard Fees Subtotal T&E Remarks: Contractor Engineering Support Sovernment Engineering Support Program management Support Travel Iransportation Iransport											0.000	
ward Fees Subtotal T&E Remarks: Ontractor Engineering Support Overnment Engineering Support orgram management Support ravel Inansportation BIR Assessment Subtotal Management											0.000)
ward Fees Subtotal T&E Remarks: Ontractor Engineering Support Interpretation Support Inte											0.000)
Subtotal T&E Remarks: ontractor Engineering Support MAC CSC Sovernment Engineering Support Forgram management Support Favel Farsensportation BIR Assessment Subtotal Management											0.000)
Subtotal T&E Remarks: Contractor Engineering Support MAC CSC Sovernment Engineering Support Program management Support Pravel Pravel Pravel Prasportation BIR Assessment Subtotal Management											0.000)
Remarks: Contractor Engineering Support MAC CSC Government Engineering Support Program management Support Travel Transportation BBIR Assessment Subtotal Management	0.00	0.000	0	0.0	000	0.000)	0.000		0.000		
covernment Engineering Support rogram management Support ravel rarsportation BIR Assessment Subtotal Management	1		1	1	1	0.000	al .	3.000	1Q		3.000	
rogram management Support ravel			+		-	0.000	,	3.000	IQ		0.000	
ravel ransportation BIR Assessment Subtotal Management			-	_							0.000	
ransportation BIR Assessment Subtotal Management			+								0.000	
BIR Assessment Subtotal Management			-	_							0.000	
Subtotal Management							+				0.000	
	0.0	0.00	0	0.0	000	0.000)	3,000		0.000		
Total Cost		0.000	0	0.0	000	4.848	3	11.850		0.000	16.698	<u> </u>
Remarks:	0.0	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	•		•							•

CLASSIFICATION:

EXHIBIT R4, Schedul	e Profile	е																								DATE Feb	: ruary	2005					
APPROPRIATION/BUDGI	ET ACTIV	/IT\	′							PROC	RAM	ELEM	IENT N	UMBE	R AND	NAM	E					PROJ	ECT N	IUMBE	R ANI								
RDT&E, N /	BA-	4								PE 0	60356	4N/S	HIP P	RELIN	I DES	IGN 8	FEA	SIBIL	ITY S	TUDIE	S				313	1 Intr	athea	ter C	onnec	tors			
Fiscal Year			200)4			200	5			20	06			20	07			20	800			20	09			20	10			20)11	
	1	ı	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	1	2	3	4
Acquisition Milestones													△ MS A							△ MS B													
Preliminary Design & Feasibility Studies																																	

^{*} Not required for Budget Activities 1, 2, 3, and 6

CLASSIFICATION:

Exhibit R-4a, Schedule Detail						DATE:		
						l i	ebruary 200	5
APPROPRIATION/BUDGET ACTIVITY	PROGRAM E	LEMENT			PROJECT NU	MBER AND N	AME	
RDT&BA-4	PE 0603564	N/SHIP PREL	IM DESIGN 8	FEASIBILITY	3.	131 Intrathea	ter Connecto	rs
Schedule Profile	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
AoA Completion				2Q				
Milestone B					3Q			
Contract Award						2Q		

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification	FY	2006/2007 Presi	dent's Budget (\$	M)	DATE:			
						February 2005		
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMI	ENT NUMBER AND	NAME		PROJECT NUMBE	R AND NAME		
RDTEN/BA-4	PE 0603564N/SH	IIP PRELIM DES	IGN & FEASIBILI	TY STUDIES	3132 lr	ntertheater Conn	ectors	
COST (\$ in Millions)	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
Project Cost	0.000	0.000	7.758	7.524	0.000	0.000	0.000	0.000
RDT&E Articles Qty								

A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION: (3132) Intertheater Connectors - conduct feasibility studies and preliminary design studies for a high speed sealift ship to deliver strike aircraft to the sea base. The ship will provide an improved MEB force closure for the sea base by deploying troops, non-self deploying aircraft and other high demand/low density (HD/LD) items via rapid surface strategic lift directly to the sea base. Analysis developed during Joint Staff sponsored Advanced Mobility Concept Study also indicates that rapid surface lift can close larger forces faster than airlift in certain circumstances. Consequently, the Intertheater Connector is envisioned to be a strategic sealift vessel capable of supporting closure of Marine Expeditionary Brigade, Army SBCT, Navy, Air Force or SOF units. Employment could support entire conflict spectrum.

CLASSIFICATION:

EXHIBIT R-2, RDT&E Budget Item Justification	FY 2006/2007 President's Budget (\$M)	DATE:
		February 2005
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND NAME
RDTEN/BA-4	PE 0603564N/SHIP PRELIM DESIGN & FEASIBILITY STUDIES	3132 Intertheater Connectors

B. Accomplishments/Planned Program

	FY 04	FY 05	FY 06	FY 07
Accomplishments/Effort/Subtotal Cost	0.000	0.000	7.758	7.524
RDT&E Articles Quantity				

R&D Efforts for Intertheater Connector - addressing critical technology development, design studies, analysis of alternatives, and concept refinement.

CLASSIFICATION:

XHIBIT R-2, RDT&E Budget Item Justification	FY 2006/2007	President's E	Budget (\$M)		DATE: February 2005	
PPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER	AND NAME			PROJECT NUMBER AND NAME	
RDTEN/BA-4	PE 0603564N/SHIP PRELIM		EASIBILITY S	TUDIES	3132 Intertheater Connectors	
C. PROGRAM CHANGE SUMMARY:					,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Funding:	FY 2004	FY 2005	FY 2006	FY 2007		
President's Budget 2005	0.000	0.000	0.000	0.000		
President's Budget 2006/2007	<u>0.000</u>	0.000	7.758	7.524		
Total Adjustments	0.000	0.000	7.758	7.524	•	
Programmatic Adjustments						
ADJUSTMENT TO ADD INTERTHEATER C	ONNECTORS 0.000	0.000	7.768	7.539)	
Miscellaneuos Adjustments			<u>-0.010</u>	<u>-0.015</u>	<u>5</u>	
Total Adjustment	0.000	0.000	7.758	7.524	1	
Schedule:						
Not Applicable						
Technical:						
Not Applicable						
··-·· rr··						

CLASSIFICATION:

EXHIBIT R-2, RDT&E Budget Item Justific	cation		FY 2006/2007 Pres		DATE:					
										February 2005
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMEN	IT NUMBER AND	NAME			PROJECT NUMBER	AND NAME	
RDTEN/BA-4			PE 0603564	N/SHIP PRELIM	I DESIGN & FE	ASIBILITY STU	JDIES	;	3132 Intertheat	er Connectors
D. Other Program Funding Summary (U) NDSF RDTEN BA 4 09000/3119 HSS	FY2004	FY2005	FY2006	FY2007	FY2008 35.081	FY2009 23.504	FY2010 39.848		To Complete TBD	Total Cost 148.218

(U) Related RDT&E: Not Applicable

E. Acquisition Strategy:

Feasibility studies will be conducted to determine the best designs to meet new Navy requirements for the intertheater connector.

F. Major Performers:

Field Activities & Locations - Work Performed

NSWC, Carderock, MD - Concept development and engineering support

NSWC, Panama City, FL - Concept development NFESC Pt Hueneme CA - Concept development

SPAWAR Systems Center, Charleston SC - Concept development and engineering support

NAVAIR Pax River, MD - Concept development and engineering support

Office of Naval Research, Arlington, VA - Concept Development

Contractors & Locations - Work Performed CSC, Washington, DC - Engineering Support

CLASSIFICATION:

APPROPRIATION/BUDGET ACTI	ige 2)								DATE:	February 2005 PROJECT NUMBER AND NAME										
PPROPRIATION/BUDGET ACTI			PROGRAM ELEME	ENT																
RDT&E, N / BA-4			PE 0603564N/SHIF		ESIGN & FEA	SIBILITY S	STUDIES		3132 Interth											
ost Categories	Contract	Performing		Total		FY 04		FY 05	FY 06 FY 07											
3	Method	Activity &			FY 04	Award		Award	FY 06	Award	FY 07	Award	Cost to	Total	Target Value					
	& Type	Location	C	Cost	Cost	Date	Cost	Date		Date	Cost	Date	Complete	Cost	of Contract					
rimary Hardware Development	J		-											0.00						
ullform Development	WX	NSWC							0.500	1Q	0.500	1Q	0.000							
ropulsor Development	WX	NSWC							2.758		2.524		0.000							
ull/Propulsor Integration	WX	NSWC							1.000		1.000		0.000							
ght Weight Auxiliary Systems	WX	NSWC							0.500		1.000		0.000							
dustry Risk Reduction	WX	NSWC							0.500		0.500	1Q	0.000							
raining Development									0.000		0.000		0.000	0.00						
censes	+	1					†		1		1	1		0.00						
ooling	+	+					-					1	+	0.00						
FE	1	 	+				-				1			0.00						
! L	-													0.00						
ward Fees																				
				0.000	0.000		0.000		5.258		4.524	·	0.000	9.78	2					
Subtotal Product Development				0.000	0.000		0.000		5.258		4.524	·	0.000	9.78	2					
Subtotal Product Development Remarks:				0.000	0.000		0.000		5.258		4.524		0.000	0.000	0					
Subtotal Product Development Remarks: evelopment Support				0.000	0.000		0.000		5.258		4.524		0.000	0.000	0					
Subtotal Product Development Remarks: evelopment Support oftware Development				0.000	0.000		0.000		5.258		4.524		0.000	0.000 0.000 0.000	D D					
Subtotal Product Development Remarks: evelopment Support oftware Development tegrated Logistics Support				0.000	0.000		0.000		5.258		4.524		0.000	0.00 0.00 0.00 0.00	D D D					
Subtotal Product Development Remarks: evelopment Support offware Development tegrated Logistics Support onfiguration Management				0.000	0.000		0.000		5.258		4.524		0.000	0.000 0.000 0.000	D D D					
Subtotal Product Development Remarks: evelopment Support oftware Development tegrated Logistics Support onfiguration Management echnical Data				0.000	0.000		0.000		5.258		4.524		0.000	0.000 0.000 0.000 0.000 0.000	0					
ward Fees Subtotal Product Development Remarks: Development Support oftware Development Integrated Logistics Support configuration Management echnical Data studies & Analyses SFE				0.000	0.000		0.000		5.258		4.524		0.000	0.000 0.000 0.000 0.000	0					
Subtotal Product Development Remarks: evelopment Support oftware Development itegrated Logistics Support onfiguration Management echnical Data tudies & Analyses				0.000	0.000		0.000		5.258		4.524		0.000	0.000 0.000 0.000 0.000 0.000	D D D D D D D					

CLASSIFICATION:

Method Activity & PY s FY 04 Award FY 05 Award FY 07 Award FY 07 Award Cost to Total Target Valid of Contract									DATE:						
DTAEL N BA-4												ebruary 2	2005		
Contract Performing Total Profit Profi		TIVITY													
Method Activity & PY s FY 04 Award FY 05 Award FY 05 Award Cost Date	RDT&E, N / BA-4		PE 06	603564N/SHIP PRELIM D	ESIGN & FE	ASIBILITY	STUDIES		3132 Interti	heater Con	nectors				
State Cost	Cost Categories														
Severage															
perational Test & Evaluation			Location	Cost	Cost	Date	Cost	Date	Cost	Date	Cost	Date	Complete		
Ne Fire Test & Evaluation		n													
### Sest Assets															
soling 0.000 FE 0.000 ward Fees 0.000 0.000 Subtotal T&E 0.000 0.000 Remarks: 1.500 10 1.500 10 0.000 3.000 overnment Engineering Support management Support way NSWC 1.500 10 1.500 10 0.000 2.500 0.000 0.000 2.500 0.000															
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Name															
Subtotal T&E															
Remarks: Contractor Engineering Support MAC CSC															
ontractor Engineering Support MAC CSC	Subtotal T&E			0.000	0.000)	0.00	00	0.000)	0.000)	0.000	0.000	D
Noverment Engineering Support WX NSWC 1.000 1Q 1.500 1Q 0.000 2.500															
rogram management Support 0.000 0.	Contractor Facinacing Support	IMAG	loso						1.500	10	4.500	10	0.000	2 000	
ravel 0.000 cansportation							1	1							
ransportation 0.000	Sovernment Engineering Support													2.500	D
BIR Assessment	overnment Engineering Support rogram management Support													0.000)
Subtotal Management 0.000 0.000 0.000 2.500 3.000 0.000 5.500 Remarks: otal Cost 0.000 0.000 0.000 7.758 7.524 0.000 15.282	overnment Engineering Support rogram management Support ravel													0.000 0.000	
Remarks: otal Cost 0.000 0.000 0.000 7.758 7.524 0.000 15.282	Contractor Engineering Support Sovernment Engineering Support Program management Support Travel Transportation													0.000 0.000 0.000	0
	overnment Engineering Support rogram management Support ravel ransportation BIR Assessment			0.000	0.000		0.0	000	1.000	1Q	1.500	1Q	0.000	0 2.500 0.000 0.000 0.000))))
emarks:	Government Engineering Support Program management Support Travel			0.000	0.000		0.0	000	1.000	1Q	1.500	1Q	0.000	0 2.500 0.000 0.000 0.000))))
	overnment Engineering Support rogram management Support ravel ransportation BIR Assessment Subtotal Management Remarks:					I		·	2.500	1Q	3.000	1Q	0.000	0 2.500 0.000 0.000 0.000 0.000 0.5500))))))

CLASSIFICATION:

EXHIBIT R4, Schedu	le Profile	!																							DATE Feb	:: ruary :	2005					
APPROPRIATION/BUDG	ET ACTIV	ITY							PROG	RAM	ELEM	ENT N	UMBE	R AND	NAM	Ξ					PROJ	ECT N	UMBE	R ANI	D NAN	1E						
RDT&E, N /	BA-4	Į.							PE 0	60356	4N/SI	IIP PI	RELIN	I DES	IGN 8	FEA	SIBIL	ITY S	TUDII	ES				313	2 Inte	rthea	ter Co	nnec	tors			
Fiscal Year		2	004			20	05			20	06			200)7			20	08			20	09			2010				20	11	
	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	1	2	3	4
Acquisition Milestones																																
AoA Completion																\triangle																

^{*} Not required for Budget Activities 1, 2, 3, and 6

CLASSIFICATION:

Exhibit R-4a, Schedule Detail						DATE:									
APPROPRIATION/BUDGET ACTIVITY	PROGRAM EI	LEMENT			PROJECT NU	MBER AND N	AME								
RDT&E, N / BA-4	PE 0603564	N/SHIP PREL	IM DESIGN	& FEASIBILITY ST	31	32 Interthea	ter Connecto	rs							
Schedule Profile	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011							
AoA Completion				4Q											