Exhibit R-2, RDT&E Budget Item Justification: PB 2016 Navy

Date: February 2015

Appropriation/Budget Activity

R-1 Program Element (Number/Name)

1319: Research, Development, Test & Evaluation, Navy I BA 4: Advanced

PE 0604454N I (U)LX (R)

Component Development & Prototypes (ACD&P)

COST (\$ in Millions)	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost
Total Program Element	0.000	-	36.859	46.486	-	46.486	28.690	12.410	9.470	9.703	Continuing	Continuing
2474: LX(R) Design & Total Ship Integration	0.000	-	36.859	46.486	-	46.486	28.690	12.410	9.470	9.703	Continuing	Continuing

Program MDAP/MAIS Code: 461

A. Mission Description and Budget Item Justification

2474 - LX(R) is expected to functionally replace LSD-41 Class ships and LSD-49 Class ships for embark, transport, control, insert, sustainment, and extract of Marine Air-Ground Task Force elements and supporting forces by helicopters, landing craft, and amphibious vehicles. Efforts are required to identify viable alternatives, including examining a reduced cost variant of LPD-17 Class. Efforts include all Gate and Milestone (MS) documentation, Capabilities Development Documentation (CDD), Indicative/Preliminary/Contract Design (ID/PD/CD), and development of all logistics and Test & Evaluation documentation. Program is on track to support FY26 retirement of LSDs.

FY12-FY14 LX(R) efforts previously budgeted in PE 0603564N.

B. Program Change Summary (\$ in Millions)	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Previous President's Budget	-	36.859	56.901	-	56.901
Current President's Budget	-	36.859	46.486	-	46.486
Total Adjustments	-	-	-10.415	-	-10.415
 Congressional General Reductions 	-	-			
 Congressional Directed Reductions 	-	-			
 Congressional Rescissions 	-	-			
Congressional Adds	-	-			
 Congressional Directed Transfers 	-	-			
 Reprogrammings 	-	-			
SBIR/STTR Transfer	-	-			
Program Adjustments	-	-	-10.000	-	-10.000
 Rate/Misc Adjustments 	-	_	-0.415	-	-0.415

Change Summary Explanation

FY 2016 changes reflect program pricing and rate/misc adjustments.

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Exhibit R-2A, RDT&E Project Ju	stification	: PB 2016 N	lavy							Date: Febr	uary 2015	
Appropriation/Budget Activity 1319 / 4		R-1 Progra PE 060445	am Elemen 54N / (U)LX	•	Name)		Number/Name) (R) Design & Total Ship Integration					
COST (\$ in Millions)	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost
2474: LX(R) Design & Total Ship Integration	-	-	36.859	46.486	-	46.486	28.690	12.410	9.470	9.703	Continuing	Continuing
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

2474 - LX(R) is expected to functionally replace LSD-41 Class ships and LSD-49 Class ships for embark, transport, control, insert, sustainment, and extract of Marine Air-Ground Task Force elements and supporting forces by helicopters, landing craft, and amphibious vehicles. Efforts are required to identify viable alternatives, including examining a reduced cost variant of LPD-17 Class. Efforts include all Gate and Milestone (MS) documentation, Capabilities Development Documentation (CDD), Indicative/Preliminary/Contract Design (ID/PD/CD), and development of all logistics and Test & Evaluation documentation. Program is on track to support FY26 retirement of LSDs. Previously, LX(R) efforts, in FY12-FY14, were budgeted in PE 0603564N.

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Title: LX(R) DESIGN/TOTAL SHIP INTEGRATION	-	36.859	46.486	-	46.486
Articles:	-	-	-	-	-
FY 2014 Accomplishments:					
N/A					
FY 2015 Plans:					
The concept design will transition into Preliminary Design where systems are distributed and equipment and					
topside arrangements are identified. Core design team members will be collocated to improve communication and enhance efficiency, as the level of participation from shipbuilders, ship design agents, Naval Warfare					
Centers, PEO C4I, PEO IWS, NAVAIR, and Marine Corps intensifies. Acquisition and life cycle affordability					
trade-off analysis studies will continue as the design is developed to meet the draft Capabilities Development					
Document (CDD). A Milestone A decision or DAE Review will be achieved. The Navy will carry one concept					
coming out of the Gate 2 (Dec 18, 2014). SECNAV, CNO, CMC, and ASNRD&A determined that a derivative					
of the LPD 17 Hull form is the preferred alternative to meet LX(R) operational requirements (Decision Memo					
Oct 14, 2014). There is a significant level of planning and design maturation required to support a Milestone					
A or DAE Review, including the Acquisition Strategy (AS), Engineering Management Plan (EMP), Test and Evaluation Master Plan (TEMP) and a sustainment strategy. The Capabilities Development Document (CDD)					
will be submitted for Navy approval and Joint Requirements Oversight Council (JROC) approval.					
FY 2016 Base Plans:					
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Exhibit R-2A, RDT&E Project Justification: PB 2016 Navy			Date: February 2015
Appropriation/Budget Activity	R-1 Program Element (Number/Name)	Project (N	umber/Name)
1319 / 4	PE 0604454N / (U)LX (R)	2474 I LX(I	R) Design & Total Ship Integration

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Transitioning from Preliminary Design into Contract Design, requires sub system level of detail and most significantly a design that supports the development of a specification for a Gate 4, Requirement Decision Point (RDP), and System Functional Review (SFR). As a planned ACAT 1 program, the design development phase requires the stand up and frequent meeting/support to OSD Integrated Product Teams including systems engineering, acquisition, test, logistics and cost in preparation for MS B. The Capabilities Development Document (CDD) will be approved by the Requirements Oversight Council (JROC) in early FY 2016, which will further inform the development of the ship specification. The contract design effort will explore innovative and cost saving concepts such as flexible infrastructure, incorporation of commonality products, and a common design environment. Continue participation by Shipbuilders to support affordability trade-offs and informing a producible design. Milestone B documents will be developed and refined.					
FY 2016 OCO Plans: N/A					
Accomplishments/Planned Programs Subtotals	_	36.859	46.486	-	46.486

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

			FY 2016	FY 2016	FY 2016					Cost To	
<u>Line Item</u>	FY 2014	FY 2015	Base	OCO	<u>Total</u>	FY 2017	FY 2018	FY 2019	FY 2020	Complete	Total Cost
RDTEN/0603564N: Amphibious	15.356	-	-	-	-	-	-	-	-	-	23.279
Ship Replacement LX(R)											
 SCN/3010: Amphibious 	-	-	-	-	-	-	-	170.751	1,624.107	Continuing	Continuing
Ship Replacement LX(R)											

Remarks

D. Acquisition Strategy

Predecisional, expect competition will be part of the acquisition strategy after MS A or DAE Review.

E. Performance Metrics

Predecisional, performance metrics will be developed in parallel with the CDD.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2016 Navy

Date: February 2015

Appropriation/Budget Activity R-1 Program Element (Number/Name) Project (Number/Name)

1319 / 4 PE 0604454N / (U)LX (R) 2474 / LX(R) Design & Total Ship Integration

Product Developme	nt (\$ in M	illions)		FY 2	2014	FY 2	2015		2016 ise	FY 2		FY 2016 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To	Total Cost	Target Value of Contract
Design/Systems Integration	C/CPIF	CSC, Alion, ICI : Washington, DC	0.000	-		12.269	Jan 2015	17.857	Dec 2015	-		17.857	Continuing	Continuing	Continuing
Design/Systems Integration	WR	NSWC Carderock : NSWC Beth, MD	0.000	-		6.082	Jan 2015	8.308	Nov 2015	-		8.308	Continuing	Continuing	Continuing
Design/Systems Integration	WR	NSWC Dahlgren : Dahlgren, VA	0.000	-		1.497	Jan 2015	0.602	Nov 2015	-		0.602	Continuing	Continuing	Continuing
Design/Systems Integration	WR	PEO C4I, PEO IWS : Washington, DC	0.000	-		4.287	Jan 2015	5.544	Nov 2015	-		5.544	Continuing	Continuing	Continuing
Design/Systems Integration	WR	NAWC Lakehurst : Lakehurst, NJ	0.000	-		0.761	Jan 2015	1.057	Nov 2015	-		1.057	Continuing	Continuing	Continuing
Design/Systems Integration	C/BA	NSWC, Panama City : Panama City, FL	0.000	-		0.483	Jan 2015	0.617	Nov 2015	-		0.617	-	1.100	-
Design/Systems Integration	WR	NSWC, Port Hueneme : Port Hueneme, CA	0.000	-		0.360	Jan 2015	0.576	Nov 2015	-		0.576	Continuing	Continuing	Continuing
Design/Systems Integration	C/CPFF	HII, General Dynamics : Various	0.000	-		11.120	Feb 2015	11.925	Dec 2015	-		11.925	Continuing	Continuing	Continuing
	·	Subtotal	0.000	-		36.859		46.486		-		46.486	-	-	-
			Delan						2046	EV (EV 2046	Cart Ta	Tatal	Target

Prior FY 2016 FY 2016 FY 2016 Cost To Total Value of FY 2015 Years FY 2014 oco Total Complete Contract Base Cost **Project Cost Totals** 0.000 36.859 46.486 46.486

Remarks

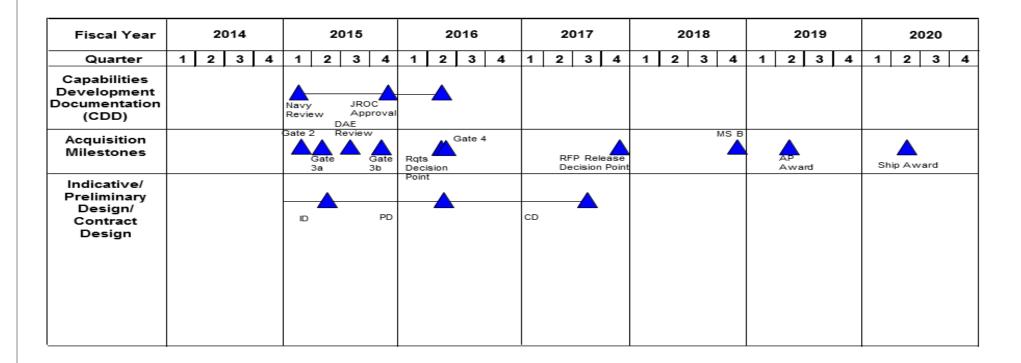
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*The growth in the LX (R) program from FY15 to FY16 is driven by the transition from Preliminary Design (PD) to Contract Design (CD) efforts. CD efforts translate the engineering findings and decisions from the PD into a biddable technical package, including specifications and contract/guidance drawings, which will allow the shipbuilders to develop competitive bids once the Request for Proposal (RFP) is released. Additionally, the FY16 Product Development funds will support the Test & Evaluation planning efforts needed in order to meet an Early Operational Assessment and Live Fire Evaluation in FY17.

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Exhibit R-4, RDT&E Schedule Profile: PB 2016 Navy			Date: February 2015
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Exhibit R-4A, RDT&E Schedule Details: PB 2016 Navy			Date: February 2015
Appropriation/Budget Activity	R-1 Program Element (Number/Name)	Project (N	umber/Name)
1319 / 4	PE 0604454N I (U)LX (R)	2474 I LX(R) Design & Total Ship Integration

Schedule Details

	Sta	art	End		
Events by Sub Project	Quarter	Year	Quarter	Year	
Proj 2474					
Capabilities Development Documentation (CDD)	1	2015	2	2016	
Joint Requirements Oversight Council (JROC) CDD Approval	4	2015	2	2016	
Gate 2	1	2015	1	2015	
Gate 3a	2	2015	2	2015	
DAE Review	3	2015	3	2015	
Gate 3b	4	2015	4	2015	
Indicative/Preliminary Design/Contract Design	1	2015	3	2017	
Requirements Decision Point (RDP)	2	2016	2	2016	
Gate 4	2	2016	2	2016	
RFP Release Decision Point	4	2017	4	2017	
Milestone B	4	2018	4	2018	
Ship Award	2	2020	2	2020	
AP Award	2	2019	2	2019	

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