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Exhibit R-2, RDT&E Budget Item Justification: PB 2014 Navy	DATE: April 2013
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APPROPRIATION/BUDGET ACTIVITY					R-1 ITEM NOMENCLATURE							
1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 5: <i>System Development & Demonstration (SDD)</i>					PE 0204202N: <i>DDG-1000</i>							
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	886.555	249.780	124.655	187.910	-	187.910	185.793	117.850	66.506	38.255	Continuing	Continuing
2464: <i>DD(X) Sys Design, Dev & Integration</i>	672.277	196.357	89.778	187.910	-	187.910	185.793	117.850	66.506	38.255	Continuing	Continuing
4009: <i>Advanced Gun System (AGS) on DD(X)</i>	214.278	53.423	34.877	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	302.578

MDAP/MAIS Code(s): 197

[#] 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

This Program Element (PE) provides funds for development of the DDG 1000 Class of U.S. Navy surface combatants. The mission of the DDG 1000 class is to provide credible independent forward presence/deterrence and operate as an integral part of Naval, Joint or Combined Maritime Forces. DDG 1000 will provide advanced land attack capability in support of the ground campaign and contribute to Naval, Joint or Combined battlespace dominance in littoral operations. DDG 1000 will establish and maintain surface and sub-surface superiority, provide local air defense, and incorporate signature reduction to operate in all threat environments. DDG 1000 will have seamless Joint Interoperability to integrate all source information for battlespace awareness and weapons direction.

B. Program Change Summary (\$ in Millions)	<u>FY 2012</u>	<u>FY 2013</u>	<u>FY 2014 Base</u>	<u>FY 2014 OCO</u>	<u>FY 2014 Total</u>
Previous President's Budget	257.580	124.655	168.047	-	168.047
Current President's Budget	249.780	124.655	187.910	-	187.910
Total Adjustments	-7.800	0.000	19.863	-	19.863
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-0.346	0.000			
• SBIR/STTR Transfer	-7.454	0.000			
• Program Adjustments	0.000	0.000	21.039	-	21.039
• Rate/Misc Adjustments	0.000	0.000	-1.176	-	-1.176

Change Summary Explanation

Increase in FY14 due to additional funds for missile and weapon system integration and testing.

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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 5: System Development & Demonstration (SDD)					R-1 ITEM NOMENCLATURE PE 0204202N: DDG-1000				PROJECT 2464: DD(X) Sys Design, Dev & Integration			
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
2464: DD(X) Sys Design, Dev & Integration	672.277	196.357	89.778	187.910	-	187.910	185.793	117.850	66.506	38.255	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												
This project encompasses DDG 1000 development efforts required to deliver the Flight I DDG 1000 Class Ships. Major efforts include software requirements analysis, architectural and design code and unit testing, integration, qualification testing, and Independent Verification and Validation (IV&V) for Software Release 6 and Spiral Release; execution of Integrated Power Systems (IPS) and ship control system testing and integration; Live Fire Test and Evaluation (LFT&E), Developmental Testing, and Integrated Testing in support of the TEMP and development of Tomahawk Weapon Control System software. Funding for previous years is included in PE 0604300N.												
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)									FY 2012	FY 2013	FY 2014	
Title: Product / Software Development									155.560	49.278	89.381	
									Articles: 0	0	0	
Description: Software Development												
FY 2012 Accomplishments: Continued development of Release 6 Hull, Mechanical & Electrical (HM&E) build to support Ship Activation and Test schedule. Software delivered to support initial light-off of engineering plant. Began development of Release 6 Self Defense Test Ship / Post Delivery Availability (SDTS/PDA) software build.												
FY 2013 Plans: Completion of Release 6 HM&E build. Continuation of development of Release 6 SDTS/PDA software build. Planned delivery of engineering builds to Self Defense Test Ship (SDTS) for Total Ship Computing Environment Infrastructure (TSCEI) integration. Begin system engineering and development of Post Shakedown Availability (PSA) software release.												
FY 2014 Plans: Complete development and test of Release 6 software build requirements for SDTS/PDA. Completion of Multi-Function Radar (MFR) with Volume Search. Capability required to launch and control missiles for ITB-1. Continue development of software												

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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 5: System Development & Demonstration (SDD)	R-1 ITEM NOMENCLATURE PE 0204202N: DDG-1000	PROJECT 2464: DD(X) Sys Design, Dev & Integration		
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2012	FY 2013	FY 2014
build to support PSA required capabilities for full operation of Integrated Undersea Warfare (IUSW), Surface Electronic Warfare Improvement Program (SEWIP), Tomahawk, and Vertical Launch Anti-Submarine Rocket (VLA).				
Title: Test and Evaluation Articles: Description: Test and Evaluation Master Plan Execution FY 2012 Accomplishments: Initiated planning for Developmental Test (DTB3-360) Software Release 6 (SR6) Software Testing. Continued Engineering Survivability Assessments for Live Fire Test and Evaluation. Initiated and completed AIREX, UNDEX Vulnerability and Recoverability Analysis for TEMP Live Fire Test and Evaluation. Completed Composite Blast Testing. Completed signature range upgrades to support DDG 1000 Test and Evaluation. Continued planning for Integrated Test (ITB1-120) Extended Sea Sparrow Missile (ESSM) engagements using the Self Defense Test Ship. Continued X-Band Multi-Function Radar (MFR) modification due to removal of S-Band Volume Search Radar (VSR) during Nunn-McCurdy certification. Completed Electronic Modular Enclosure (EME) shock qualification testing. FY 2013 Plans: Continue planning for Developmental Test (DTB3-360) Software Testing. Complete Engineering Survivability Assessments for Live Fire Test and Evaluation. Continue planning for Integrated Test (ITB1-120) ESSM engagements using the Self Defense Test Ship (SDTS). Prepare for land based testing of anti-air warfare (AAW) SDTS suite at SCSC Wallops Island. Continue development of modeling and simulation (MAS) probability of raid and annihilation (PRA) test bed. Initiate MAS measures of effectiveness (MOE) test bed. FY 2014 Plans: Procure test ordnance ESSM and SM2 to conduct Integrated Test (ITB1 - SDTS and ITB3 - Lead Ship) for Anti-Air Warfare Mission Testing. Procure LRLAP rounds, blast shapes, propellant charges and pallets to conduct Integrated Test (ITB3 - Lead Ship) Land Attack Mission Testing. Procure Tomahawk rounds to conduct Integrated Testing (ITB4 - Lead Ship) Land Attack Mission Testing. Conduct SDTS suite land based test at Wallops Island. Conduct DTB3-414 SPY 3 volume surveillance testing at SCSC Wallops Island. Prepare for installation of the AAW suite on the SDTS. Continue development of MAS PRA and MOE.		40.127 0	40.000 0	98.129 0
Title: Management Support Articles: Description: Government and Contractor Engineering Support. FY 2012 Accomplishments:		0.670 0	0.500 0	0.400 0

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APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 5: System Development & Demonstration (SDD)				R-1 ITEM NOMENCLATURE PE 0204202N: DDG-1000				PROJECT 2464: DD(X) Sys Design, Dev & Integration				
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)										FY 2012	FY 2013	FY 2014
Continued to provide travel.												
FY 2013 Plans: Continue to provide travel.												
FY 2014 Plans: Continue to provide travel.												
Accomplishments/Planned Programs Subtotals										196.357	89.778	187.910
C. Other Program Funding Summary (\$ in Millions)												
Line Item	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	
• SCN / 2119: DDG 1000	508.727	669.222	231.694		231.694	321.257	0.000	0.000	0.000	0.000	3,356.516	
• OMN / 3B1K: Specialized Skill Training	4.449	3.858	3.721		3.721	3.777	3.780	3.865	3.935	0.000	27.385	
• WPN / 2307: Evolved Sea Sparrow Missile	0.000	7.207	0.000		0.000	0.000	0.000	0.000	0.000	0.000	7.207	
• RDTE / 0439: Standard Missile Improvement	16.918	22.744	12.706		12.706	0.000	0.000	0.000	0.000	0.000	52.368	
• PANMC / 0198: LRLAP 6	0.000	7.102	3.906		3.906	18.832	32.015	31.039	56.028	0.000	148.922	
• OPN/9020: OPN Spares	0.000	0.000	4.844		4.844	12.624	0.000	0.000	0.000	0.000	17.468	
• SCN/5110: Outfitting/Post Delivery	4.276	10.630	48.446		48.446	74.922	77.085	71.874	25.612	96.098	408.943	
Remarks												
D. Acquisition Strategy												
A revised acquisition strategy has been determined that supports the DDG-1000/DDG-51 restart shipyard allocation workload MOAs. Execution of the MOAs shifted primary construction of all three DDG-1000 class ships to Bath Iron Works (BIW). Award of the DDG 1001/1002 to BIW occurred in September 2011.												
E. Performance Metrics												
Successfully achieve Milestone C. Successfully achieve Initial Operational Capability. Successfully complete Operation Test Readiness Review. Successfully complete Developmental Test/Operational Test.												

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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 5: System Development & Demonstration (SDD)						R-1 ITEM NOMENCLATURE PE 0204202N: DDG-1000				PROJECT 2464: DD(X) Sys Design, Dev & Integration					
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
Ship Integration Development Phase IV	SS/CPAF	Raytheon:Tewksbury MA	500.571	149.560	Dec 2011	39.378	Dec 2012	89.381	Jan 2014	-		89.381	Continuing	Continuing	Continuing
Ship Integration Development	SS/CPFF	Converteam:Pittsburgh, PA	6.250	6.000	Jan 2012	9.900	Jan 2013	0.000		-		0.000	Continuing	Continuing	Continuing
Subtotal			506.821	155.560		49.278		89.381		0.000		89.381			
Test and Evaluation (\$ 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
Live Fire Test and Evaluation	Various	Various:Various	1.100	0.000		0.000		0.000		-		0.000	0.000	1.100	
Live Fire Test and Evaluation	WR	NSWC:Bethesda, MD	0.700	0.000		0.000		0.000		-		0.000	0.000	0.700	
Live Fire Test and Evaluation	C/CPIF	ROI:Mullica Hills, NJ	2.300	5.650	Jan 2012	0.000		0.000		-		0.000	Continuing	Continuing	Continuing
SDTS (ITB1-120) / PRA TB	SS/CPFF	Raytheon:Portsmouth, RI	53.126	20.300	Oct 2011	21.845	Oct 2012	16.981	Oct 2013	-		16.981	Continuing	Continuing	Continuing
T&E Engineering	C/CPIF	CSC:Washington, DC	0.300	0.515	Feb 2012	1.022	Dec 2012	1.600	Dec 2013	-		1.600	0.000	3.437	
SDTS/PRA	SS/CPFF	JHU/APL:Laurel, MD	0.300	0.500	Jan 2012	2.678	Dec 2012	5.430	Dec 2013	-		5.430	Continuing	Continuing	Continuing
PRA Test Bed	C/CPIF	NSMA:Arlington, VA	1.700	0.000		1.077	Dec 2012	0.000		-		0.000	Continuing	Continuing	Continuing
Eng/M&S/Cert Agents	WR	NSWC:Dahlgren, VA	2.840	1.736	Nov 2011	2.018	Dec 2012	2.100	Nov 2013	-		2.100	Continuing	Continuing	Continuing
Integrated Test	WR	NSWC:Bethesda, MD	7.210	1.900	Nov 2011	0.500	Dec 2012	1.700	Nov 2013	-		1.700	Continuing	Continuing	Continuing
SDTS/PRA	WR	NSWC:Port Hueneme, CA	2.014	1.820	Oct 2011	2.518	Dec 2012	4.310	Nov 2013	-		4.310	Continuing	Continuing	Continuing
SDTS/PRA/Test Bed	WR	NRL:Washington, DC	1.125	0.650	Nov 2011	0.200	Dec 2012	0.030	Oct 2013	-		0.030	Continuing	Continuing	Continuing
SDTS/PRA/Test Bed	WR	NAWC:China Lake, CA	3.070	1.200	Nov 2011	1.200	Dec 2012	1.200	Dec 2013	-		1.200	Continuing	Continuing	Continuing

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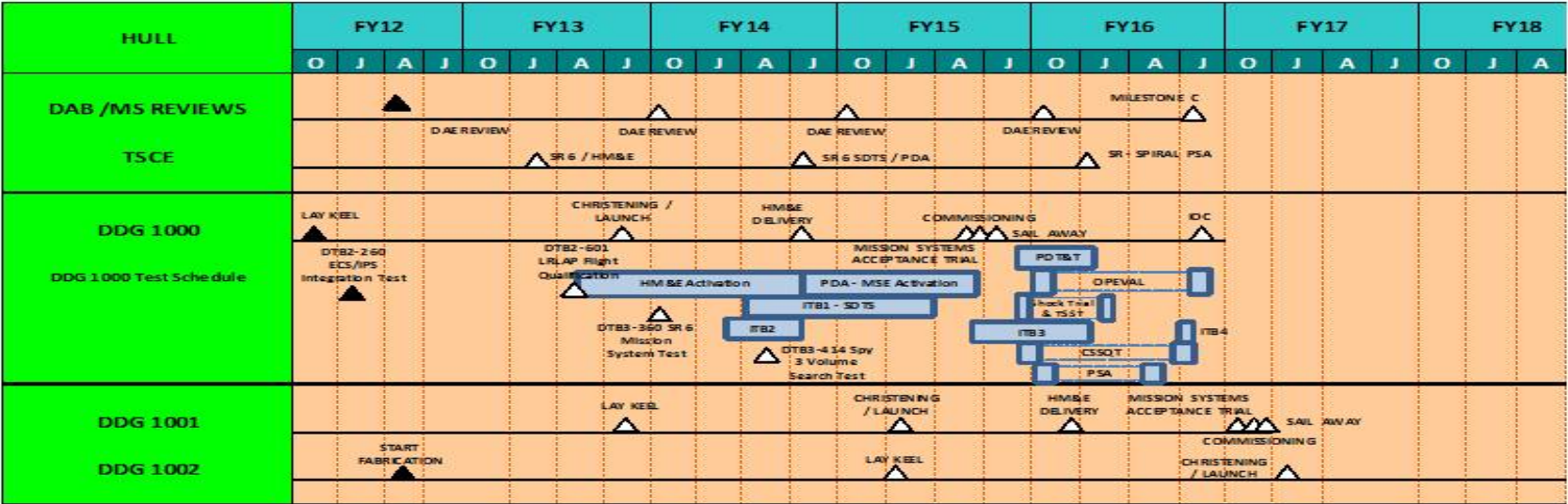
Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Navy												DATE: April 2013			
APPROPRIATION/BUDGET ACTIVITY						R-1 ITEM NOMENCLATURE				PROJECT					
1319: Research, Development, Test & Evaluation, Navy BA 5: System Development & Demonstration (SDD)						PE 0204202N: DDG-1000				2464: DD(X) Sys Design, Dev & Integration					
Test and Evaluation (\$ 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
SDTS	WR	SCSC:Wallops, Is, VA	6.127	0.000		0.601	Dec 2012	1.640	Oct 2013	-		1.640	Continuing	Continuing	Continuing
OA/DT Assist	WR	COTF:Norfolk, VA.	2.634	1.136	Oct 2011	1.409	Dec 2012	4.700	Dec 2013	-		4.700	Continuing	Continuing	Continuing
LRLAP Test Article	C/CPIF	BAE:Minneapolis, MN	0.000	0.000		0.000		19.000	Jan 2014	-		19.000	0.000	19.000	
LFT&E Engineering	C/CPIF	ROI:Mullica Hills, NJ	27.071	0.000		1.246	Dec 2012	3.200	Oct 2013	-		3.200	0.000	31.517	
ESSM/SM2	C/CPIF	Raytheon:Tucson, AZ	0.000	4.715	Mar 2012	1.300	Dec 2012	3.600	Jan 2014	-		3.600	0.000	9.615	
MOE Test Bed	WR	NUWC:Newport, RI	0.000	0.005	Nov 2011	0.573	Dec 2012	0.000		-		0.000	0.000	0.578	
SDTS/PRA	WR	NSWC:Corona, CA	0.000	0.000		1.637	Dec 2012	1.360	Dec 2013	-		1.360	0.000	2.997	
TTWCS	C/CPIF	Lockheed Martin:Valley Forge, PA	0.000	0.000		0.000		6.000	Jan 2014	-		6.000	0.000	6.000	
SDTS	WR	NSWC:Pt. Mugu	0.000	0.000		0.050	Dec 2012	0.000		-		0.000	0.000	0.050	
Travel	Various	NAVSEA:Washington DC	0.000	0.000		0.048	Oct 2012	0.049	Oct 2013	-		0.049	0.000	0.097	
SDTS/Integrated Test	Various	IWS:Washington DC	0.000	0.000		0.078	Dec 2012	25.229	Dec 2013	-		25.229	0.000	25.307	
Subtotal			111.617	40.127		40.000		98.129		0.000		98.129			
Management Services (\$ 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
Government Engineering Services	WR	NSWC:Dahlgren VA	6.781	0.000		0.000		0.000		-		0.000	Continuing	Continuing	Continuing
Government Engineering Services	WR	NSWC:Philadelphia PA	8.488	0.000		0.000		0.000		-		0.000	0.000	8.488	
Government Engineering Services	WR	NSWC:Port Hueneme CA	3.091	0.000		0.000		0.000		-		0.000	Continuing	Continuing	Continuing
Government Engineering Services	WR	NAWC:Patuxent River MD	6.934	0.000		0.000		0.000		-		0.000	Continuing	Continuing	Continuing

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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 5: System Development & Demonstration (SDD)						R-1 ITEM NOMENCLATURE PE 0204202N: DDG-1000				PROJECT 2464: DD(X) Sys Design, Dev & Integration					
Management Services (\$ 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
Government Engineering Services	WR	NSWC:Bethesda MD	15.810	0.000		0.000		0.000		-		0.000	Continuing	Continuing	Continuing
Government Engineering Services	Various	Other Govt Activities:Various	0.322	0.000		0.000		0.000		-		0.000	0.000	0.322	
Travel	Various	NAVSEA:Washington DC	1.400	0.670	Dec 2011	0.500	Dec 2012	0.400	Dec 2013	-		0.400	Continuing	Continuing	Continuing
Contractor Engineering Support	SS/CPFF	General Dynamics:Fairfax, VA	5.614	0.000		0.000		0.000		-		0.000	0.000	5.614	
Contractor Engineering Support	SS/CPAF	Alion:Washington, DC	1.703	0.000		0.000		0.000		-		0.000	0.000	1.703	
Contractor Engineering Support	SS/CPFF	JHU/APL:Laurel, MD	2.696	0.000		0.000		0.000		-		0.000	0.000	2.696	
Contractor Engineering Support	SS/CPFF	EG&G:Fairfax, VA	0.200	0.000		0.000		0.000		-		0.000	0.000	0.200	
Contractor Engineering Support	SS/CPAF	Sayres:Washington,DC	0.800	0.000		0.000		0.000		-		0.000	0.000	0.800	
Subtotal			53.839	0.670		0.500		0.400		0.000		0.400			
			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			672.277	196.357		89.778		187.910		0.000		187.910			
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2014 Navy		DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJECT
1319: Research, Development, Test & Evaluation, Navy	PE 0204202N: DDG-1000	2464: DD(X) Sys Design, Dev & Integration
BA 5: System Development & Demonstration (SDD)		



KEY

DAB

DAE

SR

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HM&E

SDTS

PDA

PSA

IOC

IPS

ECS

LRLAP

PDT&T

TSST

OPEVAL

DEFENSE ACQUISITION BOARD

DEFENSE ACQUISITION EXECUTIVE

SOFTWARE RELEASE

COMPLETED EVENT

HULL, MECHANICAL & ELECTRICAL

SELF-DEFENSE TEST SHIP

POST DELIVERY AVAILABILITY

POST SHAKEDOWN AVAILABILITY

INITIAL OPERATIONAL CAPABILITY

INTEGRATED POWER SYSTEM

ENGINEERING CONTROL SYSTEM

LONG RANGE LAND ATTACK PROJECTILE

POST DELIVERY TEST & TRIALS

TOTAL SHIP SURVIVABILITY TEST

OPERATIONAL EVALUATION

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Exhibit R-4A, RDT&E Schedule Details: PB 2014 Navy		DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 5: <i>System Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0204202N: <i>DDG-1000</i>	PROJECT 2464: <i>DD(X) Sys Design, Dev & Integration</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>Proj 2464</i>				
Software Release SR6/HM&E	2	2013	2	2013
Software Release SR6 Self Defense Test Ship/Post Delivery Availability	4	2014	4	2014
Software Release-Spiral Post Shakedown Availability	2	2016	2	2016

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APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 5: System Development & Demonstration (SDD)					R-1 ITEM NOMENCLATURE PE 0204202N: DDG-1000				PROJECT 4009: Advanced Gun System (AGS) on DD(X)			
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
4009: Advanced Gun System (AGS) on DD(X)	214.278	53.423	34.877	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	302.578
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												
These funds provide for the development of the Advanced Gun System (AGS) and the development, qualification and initial production of the Long Range Land Attack Projectile (LRLAP) associated with the development of DDG 1000. The AGS will consist of a major caliber gun, an automated ammunition handling system, and a guided projectile/propelling charge. The AGS will, at a minimum, meet the Land Attack and Surface Dominance Missions assigned to the gun system. The system will provide a high rate of fire (10 rounds per minute) with a magazine capacity of 600 rounds (total for both guns). LRLAP will be stored throughout its life cycle in an 8 round pallet which is handled by the AGS magazine. By palletizing the munition, AGS is able to significantly reduce manning and improve munition reliability, safety and resupply. System Design and Development began in FY06 with final land based qualification testing planned in FY13. The Long Range Land Attack Projectile (LRLAP) is a rocket-assisted projectile that will deliver a high explosive unitary payload with Global Positioning System (GPS) accuracy. Funding for previous years is included in PE 0604300N.												
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)									FY 2012	FY 2013	FY 2014	
Title: System Engineering, Development and Testing Articles: Description: System Engineering, Development and Testing FY 2012 Accomplishments: LRLAP System Design, development, guided flight tests and qualification testing. FY 2013 Plans: LRLAP guided flight tests and qualification testing.									43.423	34.877	0.000	
									0	0		
Title: Procurement of Ordnance Test Assets Articles: Description: Procurement of Ordnance Test Assets FY 2012 Accomplishments:									10.000	0.000	0.000	
									0			

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APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 5: System Development & Demonstration (SDD)				R-1 ITEM NOMENCLATURE PE 0204202N: DDG-1000				PROJECT 4009: Advanced Gun System (AGS) on DD(X)				
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)										FY 2012	FY 2013	FY 2014
Procurement of LRLAP rounds for qualification testing.												
Accomplishments/Planned Programs Subtotals										53.423	34.877	0.000
C. Other Program Funding Summary (\$ in Millions)												
Line Item	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	
• SCN / 2119: DDG 1000	508.727	669.222	231.694		231.694	321.257	0.000	0.000	0.000	0.000	3,356.516	
• OMN / 3B1K: Specialized Skill Training	4.449	3.858	3.721		3.721	3.777	3.780	3.865	3.935	0.000	27.385	
• WPN / 2307: Evolved Sea Sparrow Missile	0.000	7.207	0.000		0.000	0.000	0.000	0.000	0.000	0.000	7.207	
• RDTE / 0439: Standard Missile Improvement	16.918	22.744	12.706		12.706	0.000	0.000	0.000	0.000	0.000	52.368	
• PANMC/0198: LRLAP 6	0.000	7.102	3.906		3.906	18.832	32.015	31.039	56.028	0.000	148.922	
• OPN/9020: OPN Spares	0.000	0.000	4.844		4.844	12.624	0.000	0.000	0.000	0.000	17.468	
• SCN/5110: Outfitting/Post Delivery	4.276	10.630	48.446		48.446	74.922	77.085	71.874	25.612	96.098	408.943	
Remarks												
D. Acquisition Strategy												
A revised acquisition strategy has been determined that supports the DDG-1000/DDG-51 restart shipyard allocation workload MOAs. Execution of the MOAs shifted primary construction of all three DDG-1000 class ships to Bath Iron Works (BIW). DDG 1001/1002 awarded to BIW 4th quarter FY11. AGS is developed via a sole source contract to BAE. Lockheed is the key supplier to BAE for LRLAP development.												
E. Performance Metrics												
Successfully achieve LRIP Decision. Successfully achieve Integrated Operational Capability. Successfully complete LRLAP guided flights and Initial Operational Test and Evaluation (IOT&E) test events.												

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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 5: System Development & Demonstration (SDD)						R-1 ITEM NOMENCLATURE PE 0204202N: DDG-1000						PROJECT 4009: Advanced Gun System (AGS) on DD(X)			
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
Primary Hardware Development	C/CPAF	BAE:Minneapolis MN	201.227	45.375	Dec 2011	22.270	Dec 2012	0.000		-		0.000	0.000	268.872	
Subtotal			201.227	45.375		22.270		0.000		0.000		0.000	0.000	268.872	
Test and Evaluation (\$ 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
Test and Evaluation	Various	Various:Not Specified	6.872	0.000		0.000		0.000		-		0.000	0.000	6.872	
Test and Evaluation	WR	White Sands Missile Range:New Mexico	1.686	3.910	Dec 2011	6.400	Nov 2012	0.000		-		0.000	0.000	11.996	
Subtotal			8.558	3.910		6.400		0.000		0.000		0.000	0.000	18.868	
Management Services (\$ 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 Engineering Services	Various	Various:Not Specified	0.852	0.350	Dec 2011	0.320	Dec 2012	0.000		-		0.000	0.000	1.522	
Government Engineering Services	WR	NSWC DD:Dahlgren VA	2.291	2.592	Dec 2011	3.054	Nov 2012	0.000		-		0.000	0.000	7.937	
Government Engineering Services	WR	NSWC PHD:Pt Hueneme CA	0.590	0.226	Nov 2011	0.281	Nov 2012	0.000		-		0.000	0.000	1.097	
Government Engineering Services	WR	NSWC IHD:Indian Head MD	0.760	0.745	Dec 2011	1.325	Nov 2012	0.000		-		0.000	0.000	2.830	
Government Engineering Services	WR	NAWC, China Lake:China Lake, CA	0.000	0.225	Dec 2011	1.227	Nov 2012	0.000		-		0.000	0.000	1.452	
Subtotal			4.493	4.138		6.207		0.000		0.000		0.000	0.000	14.838	

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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 5: System Development & Demonstration (SDD)					R-1 ITEM NOMENCLATURE PE 0204202N: DDG-1000					PROJECT 4009: Advanced Gun System (AGS) on DD(X)			
	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	214.278	53.423		34.877		0.000		0.000		0.000	0.000	302.578	

Remarks

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

DATE: April 2013

APPROPRIATION/BUDGET ACTIVITY

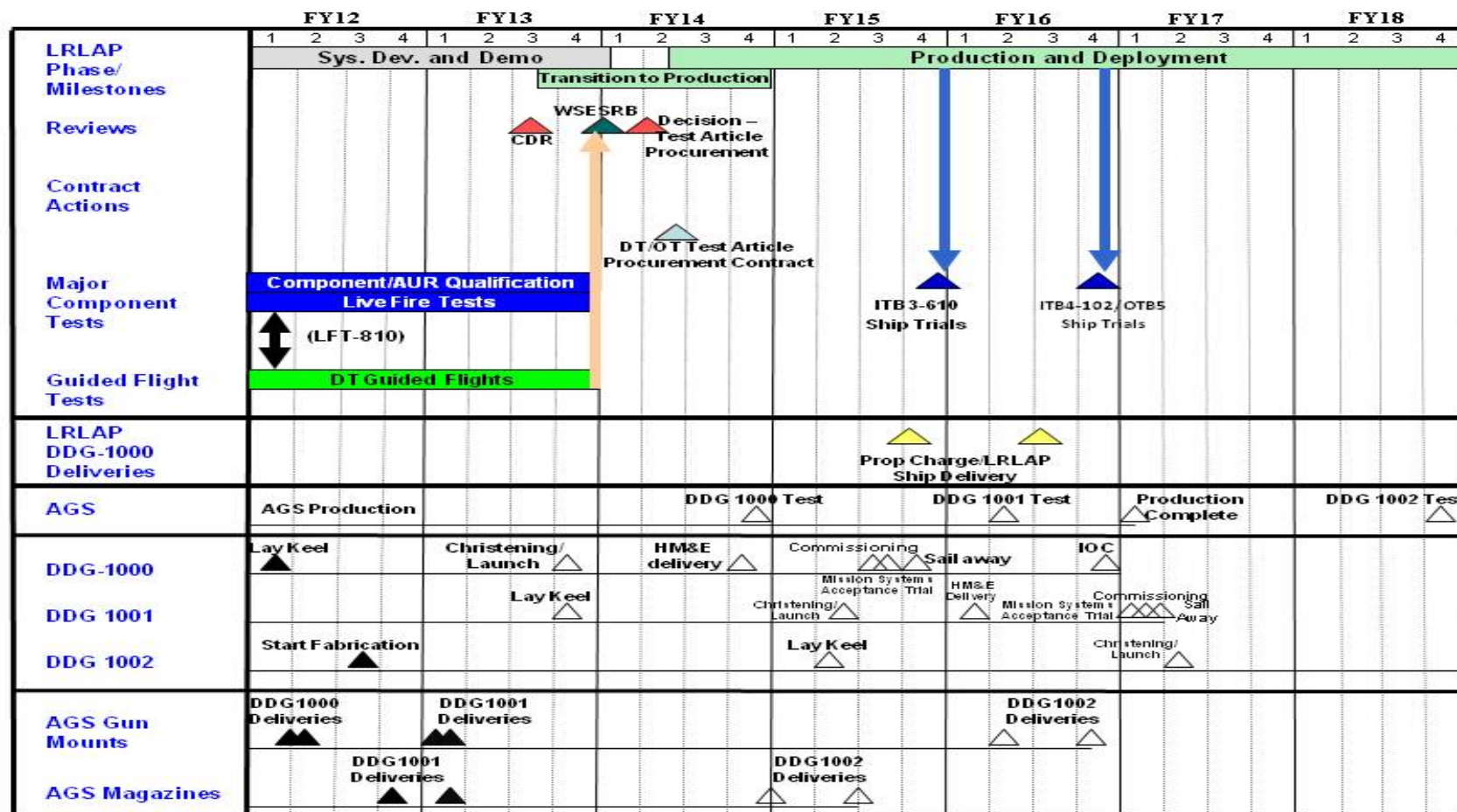
1319: Research, Development, Test & Evaluation, Navy
BA 5: System Development & Demonstration (SDD)

R-1 ITEM NOMENCLATURE

PE 0204202N: DDG-1000

PROJECT

4009: Advanced Gun System (AGS) on DD(X)



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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 5: System Development & Demonstration (SDD)

R-1 ITEM NOMENCLATURE

PE 0204202N: DDG-1000

PROJECT

4009: Advanced Gun System (AGS) on DD(X)

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Proj 4009				
Critical Design Review (CDR)	3	2013	3	2013
Wpn Sys Explosive Safety Revw Bd (WSESRB)	1	2014	1	2014
DT/OT Test Article Decision	2	2014	2	2014
DT/OT Test Article Contract Award	2	2014	2	2014
Component/AUR Qualification	1	2012	4	2013
Live Fire Tests	1	2012	4	2013
DT Guided Flights	1	2012	4	2013
Prop Charge/LRLAP Ship Delivery	4	2015	3	2016
AGS Production	1	2012	1	2017
AGS DDG 1000 Test	4	2014	4	2014
AGS DDG 1001 Test	2	2016	2	2016
AGS DDG 1002 Test	4	2018	4	2018
DDG 1000 Gun Mount Deliveries	1	2012	2	2012
DDG 1001 Gun Mount Deliveries	1	2013	1	2013
DDG 1002 Gun Mount Deliveries	2	2016	4	2016
DDG 1001 AGS Magazine Deliveries	4	2012	1	2013
DDG 1002 AGS Magazine Deliveries	1	2015	2	2015