Exhibit R-2, **RDT&E Budget Item Justification:** PB 2014 Navy

APPROPRIATION/BUDGET ACTIVITY

R-1 ITEM NOMENCLATURE

1319: Research, Development, Test & Evaluation, Navy

PE 0605863N: RDT&E Ship & Aircraft Support

BA 6: RDT&E Management Support

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	0.000	134.087	144.033	141.778	-	141.778	158.167	104.539	101.612	103.869	Continuing	Continuing		
0568: RDT&E Acft Flt Hours	0.000	35.457	37.215	34.271	-	34.271	35.075	35.095	35.895	36.458	Continuing	Continuing		
0569: RDT&E Acft Supt	0.000	40.010	38.044	36.157	-	36.157	36.938	37.319	38.189	38.786	Continuing	Continuing		
2924: SDTS	0.000	21.232	8.277	8.332	-	8.332	8.801	8.736	8.456	8.557	Continuing	Continuing		
3206: T&E Enterprise	0.000	37.388	60.497	63.018	-	63.018	77.353	23.389	19.072	20.068	Continuing	Continuing		

[#] FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

A. Mission Description and Budget Item Justification

This continuing program provides support for ships and aircraft required to accommodate Research, Development, Test and Evaluation (RDT&E) of new systems. The RDT&E ship and aircraft inventory is required to adequately test new and improved weapon systems, stay current with threats, and increase warfighting capability of the fleet. The program provides integrated logistics support for aircraft at selected field activities; provides depot-level rework of aircraft, engines, and components for the Navy inventory of RDT&E aircraft; and provides support for ships and aircraft bailed to contractors for Navy RDT&E projects. Costs covered under this element include aircrew training and proficiency, fuel, supplies, equipment, repair, Aviation Depot Level Repairables, overhaul of ships and aircraft, as well as organizational, intermediate, and depot maintenance of ships and aircraft in the Navy RDT&E inventory.

JUSTIFICATION FOR BUDGET ACTIVITY: This program is funded under RESEARCH, DEVELOPMENT, TEST and EVALUATION MANAGEMENT SUPPORT because it supports efforts directed toward sustaining or modernizing installations or operations required for general research, development, test and evaluation.

PE 0605863N: RDT&E Ship & Aircraft Support

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^{##} The FY 2014 OCO Request will be submitted at a later date

Exhibit R-2, RDT&E Budget Item Justification: PB 2014 Navy

APPROPRIATION/BUDGET ACTIVITY

1319: Research, Development, Test & Evaluation, Navy

BA 6: RDT&E Management Support

R-1 ITEM NOMENCLATURE

PE 0605863N: RDT&E Ship & Aircraft Support

DATE: April 2013

B. Program Change Summary (\$ in Millions)	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total
Previous President's Budget	136.531	144.033	151.577	-	151.577
Current President's Budget	134.087	144.033	141.778	-	141.778
Total Adjustments	-2.444	0.000	-9.799	-	-9.799
 Congressional General Reductions 	-	-			
 Congressional Directed Reductions 	-	-			
 Congressional Rescissions 	-	-			
 Congressional Adds 	-	-			
 Congressional Directed Transfers 	-	-			
 Reprogrammings 	-0.553	0.000			
SBIR/STTR Transfer	-1.891	0.000			
 Program Adjustments 	0.000	0.000	1.297	-	1.297
Rate/Misc Adjustments	0.000	0.000	-11.096	-	-11.096

Change Summary Explanation

Technical: Not applicable.

Schedule: Not applicable.

PE 0605863N: RDT&E Ship & Aircraft Support Navy

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Navy

APPROPRIATION/BUDGET ACTIVITY

1319: Research, Development, Test & Evaluation, Navy
BA 6: RDT&E Management Support

PROJECT

0568: RDT&E Acft Flt Hours

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
0568: RDT&E Acft Flt Hours	0.000	35.457	37.215	34.271	-	34.271	35.075	35.095	35.895	36.458	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

A. Mission Description and Budget Item Justification

Research, Development, Test and Evaluation (RDT&E) Aircraft Flight Hours. This non-acquisition project supports direct flight hour costs, including organizational and intermediate level maintenance, as well as associated consumables, including petroleum, oil, and lubricants. These flight hours are used for post-maintenance test flights, aircrew training, and the accomplishment of pilot proficiency requirements (approximately 3 hours per pilot per month), in support of Research and Development programs at four Naval Air Systems Command/Naval Surface Warfare Center/Office of Naval Research flight activities.

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2012	FY 2013	FY 2014
Title: RDT&E Acft Flt Hours	35.457	37.215	34.271
Articles:	0	0	0
FY 2012 Accomplishments: Continue to provide planned organizational and intermediate-level maintenance, supply and petroleum, oil and lubricants in support of RDT&E aircraft operations.			
FY 2013 Plans: Continue to provide planned organizational and intermediate-level maintenance, supply and petroleum, oil and lubricants in support of RDT&E aircraft operations.			
FY 2014 Plans: Continue to provide planned organizational and intermediate-level maintenance, supply and petroleum, oil and lubricants in support of RDT&E aircraft operations.			
Accomplishments/Planned Programs Subtotals	35.457	37.215	34.271

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

N/A

Navy

Remarks

PE 0605863N: RDT&E Ship & Aircraft Support

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^{##} The FY 2014 OCO Request will be submitted at a later date

Exhibit R-2A, RDT&E Project Justification: PB 2014 Navy									
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 6: RDT&E Management Support	R-1 ITEM NOMENCLATURE PE 0605863N: RDT&E Ship & Aircraft Support	PROJECT 0568: RDT&E Acft Flt Hours							
D. Acquisition Strategy									
Not Applicable									
E. Performance Metrics									
This Research, Development, Test and Evaluation (RDT&E) Aircraft program aircrew training and the accomplishment of pilot proficiency requirements.	supports approximately 3 hours per pilot per	month of post-maintenance test flights,							

PE 0605863N: RDT&E Ship & Aircraft Support Navy

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Navy DATE: April 2013 APPROPRIATION/BUDGET ACTIVITY R-1 ITEM NOMENCLATURE **PROJECT** 1319: Research, Development, Test & Evaluation, Navy PE 0605863N: RDT&E Ship & Aircraft 0569: RDT&E Acft Supt BA 6: RDT&E Management Support Support

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
0569: RDT&E Acft Supt	0.000	40.010	38.044	36.157	-	36.157	36.938	37.319	38.189	38.786	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

A. Mission Description and Budget Item Justification

Research, Development, Test and Evaluation (RDT&E) Aircraft Support. This continuing project funds costs associated with RDT&E fixed and rotary wing aircraft which accommodate test and evaluation of aircraft/weapon systems. Testing aboard these platforms reduces the number of fleet units required to support RDT&E efforts. Included in these costs are Aviation Depot-Level Repairables (AVDLR), which are spare and replacement aircraft parts and components to support overhead maintenance related flight operations, aircrew training, and proficiency flight hours. This project also funds airframe Standard Depot Level Maintenance (SDLM), the Integrated Maintenance Concept (IMC) and Phased Depot Maintenance (PDM), in-service repairs, emergency repairs, and engine repairs, as well as aircraft material condition and field inspections. Additionally, it funds Individual Material Readiness List (IMRL) tools and support equipment, and other systems for application to and compatibility with RDT&E requirements.

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2012	FY 2013	FY 2014
Title: Aircraft/Engine Maintenance and AVDLR/IMRL Support	38.376	36.375	34.487
Articles:	0	0	0
FY 2012 Accomplishments: Continue planned transition from Aircraft Structural Periodic Adjustment (ASPA)/SDLM to the IMC/PDM program for depot maintenance requirements, while sustaining the following programs: AVDLR/IMRL, engine repairs, support of aircraft in the RDT&E inventory. Continue operation and implementation of maintenance and material management programs at Naval Air Warfare Center activities.			
FY 2013 Plans: Continue planned transition from ASPA/SDLM to the IMC/PDM program for depot maintenance requirements, while sustaining the following programs: AVDLR/IMRL, engine repairs, support of aircraft in the RDT&E inventory. Continue operation and implementation of maintenance and material management programs at Naval Air Warfare Center activities.			
FY 2014 Plans:			

PE 0605863N: RDT&E Ship & Aircraft Support

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R-1 Line #150

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^{##} The FY 2014 OCO Request will be submitted at a later date

Exhibit R-2A, RDT&E Project Justification: PB 2014 Navy		DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJECT
1319: Research, Development, Test & Evaluation, Navy	PE 0605863N: RDT&E Ship & Aircraft	0569: RDT&E Acft Supt
BA 6: RDT&E Management Support	Support	

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2012	FY 2013	FY 2014
Continue planned transition from ASPA/SDLM to the IMC/PDM program for depot maintenance requirements, while sustaining the following programs: AVDLR/IMRL, engine repairs, support of aircraft in the RDT&E inventory. Continue operation and implementation of maintenance and material management programs at Naval Air Warfare Center activities.			
Title: In-Service Repairs Articles:	1.634 0	1.669 0	1.670 0
FY 2012 Accomplishments: Continue to provide planned In-Service Repair funds for emergent repair requirements to aircraft performing mission critical test and evaluation projects.			
FY 2013 Plans: Continue to provide planned In-Service Repair funds for emergent repair requirements to aircraft performing mission critical test and evaluation projects.			
FY 2014 Plans: Continue to provide planned In-Service Repair funds for emergent repair requirements to aircraft performing mission critical test and evaluation projects.			
Accomplishments/Planned Programs Subtotals	40.010	38.044	36.157

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

N/A

Remarks

D. Acquisition Strategy

N/A

Navy

E. Performance Metrics

The Research, Development, Test & Evaluation (RDT&E) Aircraft Support program goal is to provide the required funds to meet NAVAIR Aircraft Controlling Custodian aircraft sustainment requirements. These sustainment costs include providing annual support for required Planned Depot Maintenance events, In-service Repairs (P&E, Repairs, Mods), Depot Engine Inductions, Individual Material Readiness List Repairs, along with the funding of management oversight of the aircraft and the Aviation Depot Level Repairable costs associated with pilot readiness requirements.

PE 0605863N: RDT&E Ship & Aircraft Support

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Exhibit R-2A, RDT&E Project Justific	cation: PB 2014 N	Navy			,				DATE: Apr	il 2013
APPROPRIATION/BUDGET ACTIVITY	Y		R-1 ITEM NOMENCLATURE PROJECT							
1319: Research, Development, Test & Evaluation, Navy				PE 060586	E 0605863N: RDT&E Ship & Aircraft 2924: SD					
BA 6: RDT&E Management Support										

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
2924: <i>SDTS</i>	0.000	21.232	8.277	8.332	-	8.332	8.801	8.736	8.456	8.557	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

A. Mission Description and Budget Item Justification

This project provides for the maintenance of Hull Mechanical and Electrical (HM&E) and installed Combat Systems of the Self-Defense Test Ship (SDTS) in support of the Navy Research, Development, Test and Evaluation (RDT&E) of ship self-defense systems. Testing aboard this ship reduces the number of fleet units required to support RDT&E efforts.

SDTS provides the capability to safely test self-defense weapon systems within their minimum range. A major cost of this project is regularly scheduled ship, combat system and remote control maintenance. The remainder of the funds is used for purchase of expendable supplies and routine equipment, fuel and petroleum products, and repairs and supporting services. Most costs are fixed and are associated with simply having this platform in the inventory.

This project will no longer provide for the maintenance installed Combat Systems of the SDTS (FY14 forward), funding has been moved to the 3206 line.

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2012	FY 2013	FY 2014
Title: SDTS	21.232	8.277	8.332
Articles:	0	0	0
FY 2012 Accomplishments: NSWC PHD continued to conduct planning, scheduling and performing routine HM&E, combat systems and remote control systems maintenance on the SDTS to provide the Navy a safe operational test asset. Conducted a dry dock availability.			
FY 2013 Plans: NSWC PHD continue to conduct planning, scheduling and performing routine HM&E, combat systems and remote control systems maintenance on the SDTS to provide the Navy a safe operational test asset.			
FY 2014 Plans: NSWC PHD continue to conduct planning, scheduling and performing routine HM&E and remote control systems maintenance on the SDTS to provide the Navy a safe operational test asset.			
Accomplishments/Planned Programs Subtotals	21.232	8.277	8.332

PE 0605863N: RDT&E Ship & Aircraft Support

Navy

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R-1 Line #150

^{***} The FY 2014 OCO Request will be submitted at a later date

Exhibit R-2A, RDT&E Project Justification: PB 2014 Navy			DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJECT	
1319: Research, Development, Test & Evaluation, Navy	PE 0605863N: RDT&E Ship & Aircraft	2924: SDT	S
BA 6: RDT&E Management Support	Support		

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

N/A

Remarks

D. Acquisition Strategy

This line of accounting is for recurring HM&E and ship maintenance.

E. Performance Metrics

Successfully remain safe, operational and available for testing and evaluation of systems. Successfully develop applicable operation and maintenance documentation and reporting of installations. Successfully timely report funding, schedule and technical delays, and issues in an unmanned, remotely controlled mode, if necessary affecting its availability status.

PE 0605863N: RDT&E Ship & Aircraft Support Navy

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Navy

DATE: April 2013

APPROPRIATION/BUDGET ACTIVITY R-1 ITEM NOMENCLATURE PROJECT

1319: Research, Development, Test & Evaluation, Navy PE 0605863N: RDT&E Ship & Aircraft 3206: T&E Enterprise

BA 6: RDT&E Management Support Support

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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
3206: T&E Enterprise	0.000	37.388	60.497	63.018	-	63.018	77.353	23.389	19.072	20.068	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

A. Mission Description and Budget Item Justification

The T&E Enterprise consolidates all Air Warfare (AW) Ship Self Defense (SSD) at-sea testing across multiple class ships, beginning with CVN 74, LHD 8, LPD17, LSD 41/49, LHA 6, DDG 1000, CVN 78, and Littoral Combat Ship (LCS). This consolidated AW SSD test and evaluation approach meets the Probability of Raid Annihilation (PRA) (PRA is defined as a required surface ship defense against Anti-Ship Cruise Missiles), Self Defense Test Ship (SDTS) testing requirements as outlined in Air Warfare Ship Self Defense Enterprise TEMP 1714, and lead/operational ship testing requirements for ESSM TEMP 1471, RAM Blk 2 TEMP 286-1, DDG 1000 TEMP 1560, CVN 78 TEMP 1610, CEC TEMP 1415, SSDS TEMP 1400, LHA 6 TEMP 1697, AN/SPQ-9B TEMP 1463, SEWIP TEMP 1658 (Block 1A), 0686, and LCS TEMP 1695.

LHA 6 acquisition, installation and testing supports all big deck Amphibs and Carriers in the OA configuration as well as RAM BLK 2 OPEVAL, SSDS OA with RAM BLK 2. First non AEGIS SEWIP and ESSM.

This project provides for the maintenance installed Combat Systems of the SDTS (FY14 forward).

The T&E Enterprise merges common ship, element, and system requirements into the least number of test events while leveraging planned Combat System Ship Qualification Trials (CSSQTs) to accomplish Developmental Testing (DT) and Operational Testing (OT) requirements. All tests on the SDTS require the sharing of infrastructure, missile range allocations, execution time and underway time to eliminate duplicative testing.

T&E Enterprise preserves end-to-end mission Operational Testing in a realistic operational environment, capitalizing on Probability of Raid Annihilation M&S data validated with results of that Operational Testing, and ensuring a consistent approach across ship classes. Applicability of all test events is beneficial across multiple ship classes with the same variation under test.

The T&E Enterprise acquires equipment (FY12-14) for installation onboard the SDTS (FY12-15), conducts test and evaluation on the SDTS and lead/operational ships (FY12-18) and satisfies the Probability of Raid Annihilation (PRA) Testbed Model Development and test execution requirements (FY12-18).

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2012	FY 2013	FY 2014
Title: T&E Enterprise		37.388	60.497	63.018
	Articles:	0	0	0

PE 0605863N: RDT&E Ship & Aircraft Support

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^{##} The FY 2014 OCO Request will be submitted at a later date

Exhibit R-2A, RDT&E Project Justification: PB 2014 Navy		DATE:	April 2013					
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJE						
1319: Research, Development, Test & Evaluation, Navy BA 6: RDT&E Management Support	PE 0605863N: RDT&E Ship & Aircraft Support	3206: To	6: T&E Enterprise					
· · · · · · · · · · · · · · · · · · ·	, ,							
B. Accomplishments/Planned Programs (\$ in Millions, Article Qu	uantities in Each)		FY 2012	FY 2013	FY 2014			
FY 2012 Accomplishments: The Enterprise conducted ET-03 on the SDTS in the October - Nove board (FRB) to examine system of system (SoS) observations from the planned for Q4FY12 - Q1FY13 has been split into two test periods (Cost).	the test. As a result of the FRB, ET-05 which had bee							
	The Enterprise planned on the SDTS entering dry dock availability in August 2011 but due to contacting delays and a protest of the eventual award, the SDTS did not enter the shipyard until January 2012. Upon completion of dry dock which is now scheduled for August 2013, the SDTS will participate in ET-05.							
The PRA testbed completed DT 6 and DT 6.5 adding new and newly	matured software capability to the federate.							
FY 2013 Plans: The Enterprise plans on completing the second portion of ET-05 Q4FY13-Q3FY14.								
The Enterprise plans on receiving DDG-1000 CS elements and common								
The Enterprise plans on receiving the SeaRAM launcher system and								
The PRA Testbed plans on conducting a Critical Design Review (CD testbed will conduct a DT 7 and DT 7.5 adding new and newly matur	RA							
FY 2014 Plans: The Enterprise plans on acquiring the LCS(A) air search RADAR alo the OEM. The Enterprise plans on acquiring all remaining LCS comb FY15/16 and test on SDTS in FY16.								
The Enterprise plans on the acquisition of CVN-78 combat systems	elements.							
The Enterprise plans on completing installation of CS element for the	e DDG-1000 on the SDTS.							
The Enterprise plans on continuing SDTS test event for the LHA-6 cl was recently notified of a delay in the delivery of the Multi Stage Sep planned to be moved to FY17.								

PE 0605863N: RDT&E Ship & Aircraft Support Navy

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Navy	DATE: April 2013		
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJECT	·
1319: Research, Development, Test & Evaluation, Navy	PE 0605863N: RDT&E Ship & Aircraft	3206: T&E Enterprise	
BA 6: RDT&E Management Support	Support		

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2012	FY 2013	FY 2014
The Enterprise plans on conducting DT8 and DT 8.5 for the PRA Testbed to support OT ET15 for LHA 6 OT, OT ET-17B LCS			
(B), OT ET18 for LSD 41/49, and OT ET 19 for CVN 78 adding new and newly matured software capability to the federate. DT			
8 will include updates on the SPQ-9B TUP, SPS-48E, SPS-49A, CEC, SSDS, RAM Blk 1A, RAM Blk 2, MK57/ESSM, CIWS,			
SLQ-32B(V)2, Decoys (Nulka, Chaff, Giant), SeaRAM, threats, and virtual range models.			
Accomplishments/Planned Programs Subtotals	37.388	60.497	63.018

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

N/A

Navy

Remarks

D. Acquisition Strategy

Acquire CS elements for Enterprise Ship Classes.

Acquire LCS CS elements in FY14 and FY15 and CVN-78 CS elements in FY15.

Acquisition of systems is tailored to each ship class with benefits across multiple classes with similar CS elements.

E. Performance Metrics

Successfully complete required documentation and reporting for Enterprise installations and required check out and testing of installations. Successfully complete all Enterprise Operational Test Readiness Reviews (OTRR). Successfully complete required Enterprise developmental testing/operational testing DT/OT testing and combat system ship qualification trials (CSSQT) related tests with 0 casualty delays. Successfully collect related test result data and distribute accordingly.

PE 0605863N: RDT&E Ship & Aircraft Support

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