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Exhibit R-2, RDT&E Budget Item Justification: PB 2013 Navy	DATE: February 2012
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APPROPRIATION/BUDGET ACTIVITY				R-1 ITEM NOMENCLATURE							
1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 6: <i>RDT&E Management Support</i>				PE 0604759N: <i>Major T&E Investment</i>							
COST (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
Total Program Element	37.331	37.957	35.894	-	35.894	36.089	37.082	37.670	37.898	Continuing	Continuing
2195: <i>T & E Investment</i>	37.331	37.957	35.894	-	35.894	36.089	37.082	37.670	37.898	Continuing	Continuing

A. Mission Description and Budget Item Justification

This project improves visibility and commonality of Test and Evaluation (T&E) resources across the Service for Major T&E investment funding. These funds correct major deficiencies, improve T&E capabilities, and increase T&E support effectiveness. The T&E Investment project provides improved test capabilities at the following test facilities: the Naval Undersea Warfare Center Division Newport Atlantic Undersea Test and Evaluation Center, Andros Island, Bahamas; the Nanoose and Dabob ranges of the Naval Undersea Warfare Center Division Keyport, Keyport, WA; the Sea Range, Land Range, Electronic Combat Range, Targets, Ordnance T&E Facility, Test Wing Pacific, and the Air Vehicle Modification and Instrumentation facility located at the Naval Air Warfare Center Weapons Division, Point Mugu, CA and China Lake, CA; and the Atlantic Test Range, Air Combat Environment T&E Facility, Electromagnetic Environmental Effects, Air Vehicle Modification and Instrumentation facility, Test Wing Atlantic, Targets, and the Propulsion Systems Evaluation Facility located at the Naval Air Warfare Center Aircraft Division, Patuxent River, MD and the test and evaluation capabilities located at the Pacific Missile Range Facility, Kauai, HI.

B. Program Change Summary (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total
Previous President's Budget	37.522	37.957	34.675	-	34.675
Current President's Budget	37.331	37.957	35.894	-	35.894
Total Adjustments	-0.191	-	1.219	-	1.219
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Program Adjustments	-	-	1.060	-	1.060
• Rate/Misc Adjustments	-	-	0.159	-	0.159
• Congressional General Reductions Adjustments	-0.191	-	-	-	-

Change Summary Explanation

Technical: Not applicable.

Schedule: Not applicable.

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Exhibit R-2A, RDT&E Project Justification: PB 2013 Navy								DATE: February 2012			
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 6: RDT&E Management Support				R-1 ITEM NOMENCLATURE PE 0604759N: Major T&E Investment				PROJECT 2195: T & E Investment			
COST (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
2195: T & E Investment	37.331	37.957	35.894	-	35.894	36.089	37.082	37.670	37.898	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		
A. Mission Description and Budget Item Justification											
This project improves visibility and commonality of Test and Evaluation (T&E) resources across the Service for Major T&E investment funding. These funds correct major deficiencies, improve T&E capabilities, and increase T&E support effectiveness. The T&E Investment project provides improved test capabilities at the following test facilities: the Naval Undersea Warfare Center Division Newport Atlantic Undersea Test and Evaluation Center (AUTEC), Andros Island, Bahamas; the Nanoose and Dabob ranges of the Naval Undersea Warfare Center Division Keyport, Keyport, WA; the Sea Range, Land Range, Electronic Combat Range, Targets, Ordnance T&E Facility, Test Wing Pacific, and the Air Vehicle Modification and Instrumentation facility located at the Naval Air Warfare Center Weapons Division, Point Mugu, CA and China Lake, CA; and the Atlantic Test Range, Air Combat Environment T&E Facility, Electromagnetic Environmental Effects, Air Vehicle Modification and Instrumentation facility, Test Wing Atlantic, Targets, and the Propulsion Systems Evaluation Facility located at the Naval Air Warfare Center Aircraft Division, Patuxent River, MD and the test and evaluation capabilities located at the Pacific Missile Range Facility, Kauai, HI.											
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)								FY 2011	FY 2012	FY 2013	
Title: UNDERSEA RANGE INVESTMENTS								13.416	10.894	8.700	
Articles:								0	0	0	
Description: This effort funds the modernization, upgrades, and new test and evaluation capabilities required at the Navy's Major Range Test Facility Base undersea ranges, to include AUTEC, Andros Island, Bahamas; the Nanoose and Dabob ranges of the Naval Undersea Warfare Center Division Keyport, Keyport, WA.											
FY 2011 Accomplishments:											
- Continued the refurbishment and service life extension of a range vessel at AUTEC. This effort includes costs incurred during the dry dock period with the majority of that cost in FY 2011.											
- Continued the modernization and upgrade of acoustic acquisition, tracking and processing systems and hydrophone arrays at Nanoose & Dabob.											
- Continued the development and installation of broadband capable bottom mounted targets at Nanoose and Dabob.											
- Continued the modernization and upgrade of the optical tracking and surveillance system at Nanoose and Dabob.											
- Continued the minor upgrade and modernization of test capabilities at AUTEC, Nanoose and Dabob.											
- Completed the modernization and upgrade of the aircraft sonobuoy simulation and stimulation capability at AUTEC.											
- Completed the modernization and upgrade of the electronic warfare simulator capability at AUTEC.											
- Initiated the overhaul of a range craft. This effort includes cost for the craft to be in dry dock in FY11.											

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2011	FY 2012	FY 2013
<div>- Initiated the acquisition of a new range recovery system at Nanoose and Dabob.</div> <div>FY 2012 Plans:</div> <div>- Continue all efforts of FY 2011, less those noted as complete above.</div> <div>- Complete the refurbishment and service life extension of a range vessel at Atlantic Undersea Test and Evaluation Center (AUTC).</div> <div>- Complete the development and installation of broadband capable bottom mounted targets at Nanoose and Dabob.</div> <div>- Complete the modernization and upgrade of the optical tracking and surveillance system at Nanoose and Dabob.</div> <div>- Complete the acquisition of a new range recovery system at Nanoose and Dabob.</div> <div>- Initiate the upgrade to the Test and Evaluation (T&E) target at Nanoose and Dabob.</div> <div>FY 2013 Plans:</div> <div>- Continue all efforts of FY 2012, less those noted as complete above.</div> <div>- Initiate and complete the development and installation of broadband capable T&E targets at Nanoose and Dabob.</div> <div>- Initiate the refurbishment and service life extension of a range vessel at AUTC.</div> <div>- Initiate the development of Information Operations T&E capability at AUTC.</div>				
<div>Title: OPEN AIR RANGE INVESTMENTS</div> <div>Articles:</div> <div>Description: This effort funds the modernization and upgrades of existing capabilities and the development of new T&E capabilities required at the Navy's Major Range Test Facility Base open air ranges at the Naval Air Warfare Center Aircraft Division (NAWCAD), Patuxent River, MD, Naval Air Warfare Center Weapons Division (NAWCWD), Point Mugu, CA and China Lake, CA and Pacific Missile Range Facility (PMRF), Kauai, HI.</div> <div>FY 2011 Accomplishments:</div> <div>- Continued the minor upgrade and modernization of test capabilities at NAWCAD, NAWCWD and PMRF.</div> <div>- Continued the clean up of expended depleted uranium at NAWCWD.</div> <div>- Continued the modernization of the Kineto Tracking Mounts at NAWCWD.</div> <div>- Continued the modernization and upgrade of crypto equipment at NAWCAD, NAWCWD and PMRF.</div> <div>- Continued the modernization of optical and radar tracking equipment and telemetry systems at PMRF.</div> <div>- Completed the modernization and upgrade of the range timing and sensor interface system at NAWCWD.</div> <div>- Completed the modernization and upgrade of communication and fiber infrastructure at NAWCWD.</div> <div>- Completed the modernization and upgrade of the Multiple Target Instrumented Radar at NAWCAD.</div> <div>- Completed the development of an automated aircraft maintenance tracking system at NAWCAD.</div> <div>- Completed the modernization and upgrade of the mobile radio communications system at NAWCWD.</div>		18.541 0	22.463 0	20.069 0

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2011	FY 2012	FY 2013
<ul style="list-style-type: none">- Completed the modernization and upgrade of communications and data fiber and equipment at locations around the bay at Naval Air Warfare Center Aircraft Division (NAWCAD).- Completed an automated test tracking system at NAWCAD.- Initiate the development and installation of a remote telemetry system for San Nicolas Island at Naval Air Warfare Center Weapons Division (NAWCWD). <p>FY 2012 Plans:</p> <ul style="list-style-type: none">- Continue all efforts of FY 2011, less those noted as complete above.- Initiate cultural resource surveys at NAWCWD.- Initiate aircraft prototyping secure network installation at NAWCAD.- Initiate radar service life extension project at NAWCAD.- Initiate telemetry re-radiation pod modernization at NAWCAD.- Initiate video instrumentation modernization at NAWCAD.- Initiate the Mobile Aerial Target Support System modernization at Pacific Missile Range Facility (PMRF). <p>FY 2013 Plans:</p> <ul style="list-style-type: none">- Continue all efforts of FY 2012, less those noted as complete above.- Complete the modernization and upgrade of crypto equipment at NAWCAD, NAWCWD and PMRF.- Complete the development and installation of a remote telemetry system for San Nicolas Island at NAWCWD.- Complete the modernization of the Kineto Tracking Mounts at NAWCWD.- Complete telemetry re-radiation pod modernization at NAWCAD.- Continue cultural resources surveys at NAWCWD.- Initiate development of the Aircraft Prototype Facility secure network at NAWCAD.				
Title: TEST FACILITIES INVESTMENTS		5.374	4.600	7.125
Articles:		0	0	0
Description: This effort funds the modernization and upgrades of existing capabilities and the development of new test and evaluation capabilities required at the Navy's Major Range Test Facility Base test facilities at the NAWCAD, Patuxent River, MD, and NAWCWD, Point Mugu, CA and China Lake, CA.				
FY 2011 Accomplishments:				
<ul style="list-style-type: none">- Continued the minor upgrade and modernization of test capabilities at NAWCAD and NAWCWD.- Completed the modernization and upgrade of the warhead insensitive munitions and safety test site at NAWCWD.- Completed the development of a Common Data Link test capability at Naval Air Warfare Center Aircraft Divison (NAWCAD).				
FY 2012 Plans:				

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2011	FY 2012
<ul style="list-style-type: none"> - Continue all efforts of FY 2011, less those noted as completed above. - Initiate the helicopter drive system test facility sustainment program at NAWCAD. - Initiate the bio-fuel blending and evaluation facility development at NAWCAD. - Initiate and complete the drop tower facility upgrade at Naval Air Warfare Center Weapons Division (NAWCWD). - Initiate and complete the propulsion control room upgrade at NAWCWD. - Initiate and complete upgrade of the CT-1 facility at NAWCWD. <p><i>FY 2013 Plans:</i></p> <ul style="list-style-type: none"> - Continue all efforts of FY 2012, less those noted as complete above. - Complete the bio-fuel blending and evaluation facility development at NAWCAD. - Initiate and complete the development of a Joint Precision Approach and Landing System capability at NAWCAD. 			
Accomplishments/Planned Programs Subtotals		37.331	37.957
C. Other Program Funding Summary (\$ in Millions) N/A			
D. Acquisition Strategy Not Applicable.			
E. Performance Metrics Successfully achieve Initial Operational Capability of 8-15 Improvement and Modernization projects per year and have 90% of test capabilities scheduled in support of Navy acquisition test programs within 180 days.			