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**Exhibit R-2, RDT&E Budget Item Justification: PB 2012 Navy** **DATE:** February 2011

<b>APPROPRIATION/BUDGET ACTIVITY</b> 1319: <i>Research, Development, Test &amp; Evaluation, Navy</i> BA 6: <i>RDT&amp;E Management Support</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 0605864N: <i>Test &amp; Evaluation Support</i>
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COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
Total Program Element	368.819	376.418	335.367	-	335.367	334.401	332.010	334.961	339.385	Continuing	Continuing
0541: <i>AUTEC</i>	55.609	57.885	56.239	-	56.239	56.768	56.232	56.959	57.739	Continuing	Continuing
0566: <i>NAVAIR Environmental Compliance</i>	4.070	2.098	4.324	-	4.324	4.359	4.399	4.478	4.534	Continuing	Continuing
0653: <i>NAWC Weapons Division</i>	150.103	154.442	140.716	-	140.716	141.627	140.994	141.474	143.394	Continuing	Continuing
0654: <i>NAWC Acft Division</i>	116.049	122.604	95.321	-	95.321	96.120	95.629	96.327	97.536	Continuing	Continuing
2921: <i>Pacific Missile Range Facility</i>	5.119	5.227	5.220	-	5.220	1.349	0.041	0.046	0.057	Continuing	Continuing
2922: <i>MRTFB Maint &amp; Repair</i>	25.368	21.300	21.026	-	21.026	21.547	22.086	22.792	23.073	Continuing	Continuing
3029: <i>T&amp;E Policy Support</i>	0.755	0.782	0.748	-	0.748	0.747	0.757	0.773	0.783	Continuing	Continuing
3154: <i>Nanoose and Dabob Bay Ranges</i>	11.746	12.080	11.773	-	11.773	11.884	11.872	12.112	12.269	Continuing	Continuing

**A. Mission Description and Budget Item Justification**

This program provides institutional maintenance and operations support for: the Naval Undersea Warfare Center Detachment Atlantic Undersea Test and Evaluation Center (AUTEC), Andros Island, Bahamas; the Environmental Compliance Program; Naval Air Warfare Center Weapons Division (NAWCWD), Point Mugu and China Lake, CA; Naval Air Warfare Center Aircraft Division (NAWCAD), Patuxent River, MD; Test and Evaluation (T&E) related capabilities at the Pacific Missile Range Facility, Barking Sands, HI; Maintenance and Repair at NAWCWD and NAWCAD; and the Naval Undersea Warfare Center Keyport (NUWC KEYPORT) Nanoose and Dabob Bay Ranges. The T&E activities make up the Navy portion of the Department of Defense's Major Range and Test Facility Base (MRTFB). These activities are chartered to perform T&E for the development and acquisition of technology advanced weapons systems. Core T&E capabilities and capacity are operated to obtain weapons system performance documentation for acquisition program milestone decisions to provide operational forces with effective weapons systems. This program provides Navy Acquisition Program Managers required test capabilities; lowers cost of T&E; removes cost and scheduling impact of providing their own T&E resources; and retains the physical airspace, land space and sea space needed to conduct testing.

**UNCLASSIFIED**

**UNCLASSIFIED**

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<b>APPROPRIATION/BUDGET ACTIVITY</b> 1319: <i>Research, Development, Test &amp; Evaluation, Navy</i> BA 6: <i>RDT&amp;E Management Support</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 0605864N: <i>Test &amp; Evaluation Support</i>
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<b>B. Program Change Summary (\$ in Millions)</b>	<b>FY 2010</b>	<b>FY 2011</b>	<b>FY 2012 Base</b>	<b>FY 2012 OCO</b>	<b>FY 2012 Total</b>
Previous President's Budget	369.154	376.418	358.005	-	358.005
Current President's Budget	368.819	376.418	335.367	-	335.367
Total Adjustments	-0.335	-	-22.638	-	-22.638
• Congressional General Reductions		-			
• Congressional Directed Reductions		-			
• Congressional Rescissions	-	-			
• Congressional Adds		-			
• Congressional Directed Transfers		-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.367	-			
• Program Adjustments	-	-	-10.166	-	-10.166
• Rate/Misc Adjustments	-	-	-12.472	-	-12.472
• Congressional General Reductions Adjustments	0.032	-	-	-	-

**Change Summary Explanation**

Technical: Not applicable.

Schedule: Not applicable.

**UNCLASSIFIED**

**Exhibit R-2A, RDT&E Project Justification:** PB 2012 Navy **DATE:** February 2011

<b>APPROPRIATION/BUDGET ACTIVITY</b> 1319: <i>Research, Development, Test &amp; Evaluation, Navy</i> BA 6: <i>RDT&amp;E Management Support</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 0605864N: <i>Test &amp; Evaluation Support</i>	<b>PROJECT</b> 0541: <i>AUTEC</i>
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COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
0541: <i>AUTEC</i>	55.609	57.885	56.239	-	56.239	56.768	56.232	56.959	57.739	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		

**A. Mission Description and Budget Item Justification**

As a detachment of Naval Undersea Warfare Center (NUWC), Division Newport, the mission of the Atlantic Undersea Test and Evaluation Center (AUTEC) is to provide the US Navy an underwater range facility for full-spectrum test and evaluation of Undersea Warfare (USW) systems and for Fleet training and readiness assessment. The AUTEC Program Office is headquartered at Newport, RI. AUTEC's administrative offices are located at West Palm Beach, Florida. Test facilities are located at Andros Island, Sites 1 through 4, and the Berry Islands in the Bahamas. AUTEC aircraft make scheduled daily flights between West Palm Beach and Andros Town Airport.

AUTEC manages and, under service contract, maintains and operates a 500 square nautical miles deep-water and a 100 square nautical miles shallow-water acoustic tracking range; air-target tracking capabilities; sonobuoy simulation systems; electronic warfare threat simulation systems; fixed and rotary wing aircraft; aircraft ground support facilities; acoustic targets; torpedo retrieval and flushing capabilities; open-ocean range craft; marine support facilities; and, data processing and analysis capabilities.

Major test facilities on Andros Island are located at Site 1. The Command Control Building houses the range tracking displays and replay centers, the computer center, operations support functions, communications center, and the central timing system. The Range Support Facility houses a torpedo post-run workshop, Mark 46 /Mark 50 lightweight torpedo Intermediate Maintenance Activity (IMA), a Mark 30 undersea target IMA, a Mark 48 heavyweight torpedo Research and Development (R&D) Turnaround facility and related technical facilities. The complex includes electrical and physical calibration labs, a complete electronics maintenance shop, a dive locker, a precision machine shop, and logistics support areas.

AUTEC has a 285-foot concrete pier with a controlling depth of 17 feet (5.2 meters) at mean low tide. An adjacent wharf is approximately 240 feet in length (72 meters) with a controlling depth of 15 feet at mean low tide. Power is available at both locations. Facilities at the pier/marine area include fully equipped machine /fabrication and marine overhaul shops. Also at Site 1, six Range User Buildings (RUBs) are maintained for assembling test equipment and equipment check-out during test mobilization or dockside periods. These staging areas are equipped with a variety of power sources, gantry cranes, compressed air and security features. A fully equipped range user hanger for ground maintenance and storage of helicopters is located at the AUTEC helicopter airstrip. Sites 2, 3, and 4 are small instrumented areas located south of Site 1 used to extend tracking of sonobuoys, communications, and air target track.

**B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)**

	FY 2010	FY 2011	FY 2012
<b>Title:</b> Atlantic Undersea Test and Eval Ctr Facility	44.559	46.835	45.189
<b>Articles:</b>	0	0	0

**UNCLASSIFIED**

<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2012 Navy		<b>DATE:</b> February 2011			
<b>APPROPRIATION/BUDGET ACTIVITY</b> 1319: <i>Research, Development, Test &amp; Evaluation, Navy</i> BA 6: <i>RDT&amp;E Management Support</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 0605864N: <i>Test &amp; Evaluation Support</i>		<b>PROJECT</b> 0541: <i>AUTEC</i>		
<b>B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)</b>			<b>FY 2010</b>	<b>FY 2011</b>	<b>FY 2012</b>
<p><b>Description:</b> AUTEC is a Test and Evaluation (T&amp;E) facility for collecting selected underwater, surface and air tracking data on test participants. This project funds the overhead/institutional costs required to sustain the Major Range and Test Facility (MRTFB) capabilities at AUTEC in accordance with Department of Defense Directive 3200.11.</p> <p><b>FY 2010 Accomplishments:</b> AUTEC Facility. Maintained and operated mission essential/core test support resources, instrumentation systems and marine craft required to meet customer test workload. Funded civilian labor, travel, transportation, equipment, supplies, communication, equipment maintenance, purchased service contracts, annual utilities and any costs necessary to manage and sustain MRTFB operations. Reimbursed the Command for General and Administrative support services.</p> <p><b>FY 2011 Plans:</b> AUTEC Facility. Continue to maintain and operate mission essential/core test support resources, instrumentation systems and marine craft required to meet customer test workload. Fund civilian labor, travel, transportation, equipment, supplies, communication, equipment maintenance, purchased service contracts, annual utilities and any costs necessary to manage and sustain MRTFB operations. Reimburse the Command for General and Administrative support services.</p> <p><b>FY 2012 Plans:</b> Continue all efforts of FY2011.</p>					
<p><b>Title:</b> Bahamian Lease</p> <p align="right"><b>Articles:</b></p> <p><b>Description:</b> Rental payments to the Bahamian government for use of land and ocean in the Bahamas.</p> <p><b>FY 2010 Accomplishments:</b> Bahamian Lease. Provided rental payments to the Bahamian government for use of land and ocean in the Bahamas.</p> <p><b>FY 2011 Plans:</b> Bahamian Lease. Continue to provide rental payments to the Bahamian government for use of land and ocean in the Bahamas.</p> <p><b>FY 2012 Plans:</b> Continue all efforts of FY2011.</p>			11.050 0	11.050 0	11.050 0
<b>Accomplishments/Planned Programs Subtotals</b>			55.609	57.885	56.239

**UNCLASSIFIED**

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2012 Navy		<b>DATE:</b> February 2011
<b>APPROPRIATION/BUDGET ACTIVITY</b> 1319: <i>Research, Development, Test &amp; Evaluation, Navy</i> BA 6: <i>RDT&amp;E Management Support</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 0605864N: <i>Test &amp; Evaluation Support</i>	<b>PROJECT</b> 0541: <i>AUTEC</i>

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

N/A

**D. Acquisition Strategy**

Not applicable.

**E. Performance Metrics**

Maintain MRTFB infrastructure in a ready state to provide between 2,500-2,900 range hours in support of multiple Navy and DoD acquisition programs and fleet training.

**UNCLASSIFIED**

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<b>APPROPRIATION/BUDGET ACTIVITY</b> 1319: <i>Research, Development, Test &amp; Evaluation, Navy</i> BA 6: <i>RDT&amp;E Management Support</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 0605864N: <i>Test &amp; Evaluation Support</i>	<b>PROJECT</b> 0566: <i>NAVAIR Environmental Compliance</i>
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COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
0566: <i>NAVAIR Environmental Compliance</i>	4.070	2.098	4.324	-	4.324	4.359	4.399	4.478	4.534	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		

**A. Mission Description and Budget Item Justification**

This continuing project supports environmental compliance, conservation and pollution prevention related efforts at the Navy Major Range and Test Facility Base (MRTFB) located at Patuxent River, MD, China Lake, CA, Point Mugu, CA, and Atlantic Undersea Test and Evaluation Center (AUTEC), Bahamas. The Navy MRTFB environmental projects include ongoing efforts to comply with Federal, State, and local environmental requirements.

The MRTFB are test and evaluation facilities that provide for Department of Defense (DoD) test and evaluation support missions. These missions include: Weapons system testing, military operational squadron training on new weapon systems, and validation of performance or operational characteristics.

**B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)**

	FY 2010	FY 2011	FY 2012
<b>Title:</b> Environmental Compliance	4.070	2.098	4.324
<b>Articles:</b>	0	0	0
<b>Description:</b> Continues hazardous waste disposal, solid waste disposal, natural and cultural resources programs, environmental permits, and environmental monitoring at AUTEC, Patuxent River, China Lake and San Nicolas Island.			
<b>FY 2010 Accomplishments:</b> Environmental Compliance. Continued comprehensive air pollution meteorology studies at Point Mugu. Continued range contamination assessments at impact areas and lay down yards at China Lake. Continued to monitor range operations environmental effects. Continued to monitor endangered species and marine mammals which is required in order to comply with applicable laws and regulations.			
<b>FY 2011 Plans:</b> Continue mandated monitoring of range operations environmental impacts. Continue monitoring of endangered species and marine mammals which is required in order to comply with applicable laws and regulations.			
<b>FY 2012 Plans:</b> Continue mandated monitoring of range operations environmental impacts. Continue monitoring of endangered species and marine mammals which is required in order to comply with applicable laws and regulations.			
<b>Accomplishments/Planned Programs Subtotals</b>	4.070	2.098	4.324

**UNCLASSIFIED**

UNCLASSIFIED

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

N/A

**D. Acquisition Strategy**

Not applicable.

**E. Performance Metrics**

Execute 15-20 environmental projects per year required to comply with existing laws, regulations, executive orders, and final governing standards.

**UNCLASSIFIED**

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COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
0653: <i>NAWC Weapons Division</i>	150.103	154.442	140.716	-	140.716	141.627	140.994	141.474	143.394	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		

**A. Mission Description and Budget Item Justification**

Project provides continuing maintenance and operational support for the Naval Air Warfare Center Weapons Division (NAWCWD) Test and Evaluation (T&E) capabilities. These capabilities include the Pacific Ranges and Facilities, consisting of China Lake Ranges and the Point Mugu Sea Range, aerial and surface targets, test instrumentation, and T&E aircraft. The Pacific Ranges use China Lake's 1.1 million acres of land and 17,000 square miles of military restricted (R-2508) airspace together with Point Mugu's 125,000 square miles of instrumented sea range and 36,000 square miles of controlled overlying airspace, and airfield and test instrumentation at San Nicolas Island to perform its T&E mission. Included in the China Lake ranges is the Electronic Combat Range (ECR), which provides outdoor free space development and operational testing of airborne electronic warfare systems and tactics against shipboard and land based air defense systems. These ranges perform metric radar, multilateration and optical tracking of test objects; command, control, and destruct for range safety purposes; communications; frequency interference control and analysis; collection processing and display of telemetered data; real-time data processing and display; and the operation of a sub scale aerial target launch capability. Other test capabilities include an outdoor High Power Microwave (HPM) measurement facility; propulsion, warhead, environmental, rocket motor, and other missile component test facilities; and gun ranges. This project funds costs that are not chargeable to customers.

**B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)**

	FY 2010	FY 2011	FY 2012
<b>Title:</b> Pacific Ranges	62.718	65.958	57.426
<b>Articles:</b>	0	0	0
<b>Description:</b> In accordance with (IAW) Department of Defense Directive (DoDD) 3200.11., this project funds the overhead/institutional costs required to sustain the Major Range Test Facility Base (MRTFB) capabilities at the Pacific Ranges and Facilities located at China Lake and Point Mugu CA. These facilities provide safe, instrumented, controlled open air testing utilizing the Land Range, Sea Range, Electronic Combat Range, Air Vehicle Modification and Instrumentation, and San Nicholas Island.			
<b>FY 2010 Accomplishments:</b> Pacific Ranges. Maintained and operated mission essential/core test support resources. These resources include test article instrumentation and/or modification for Flight Test Aircraft, Weapons Under Test and Aircraft Engines Undergoing Un-installed test. Scheduled and controlled air, land, sea and associated range operating areas required to meet customer test workload. Funded civilian labor, travel, transportation, equipment, supplies, communication, equipment maintenance, purchased service contracts, annual utilities and any costs necessary to manage and sustain MRTFB operations.			
<b>FY 2011 Plans:</b> Pacific Ranges. Continue to maintain and operate mission essential/core test support resources. These resources include test article instrumentation and/or modification for Flight Test Aircraft, Weapons Under Test and Aircraft Engines Undergoing Un-			

**UNCLASSIFIED**

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<b>B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)</b>		<b>FY 2010</b>	<b>FY 2011</b>	<b>FY 2012</b>
<p>installed test. Schedule and control air, land, sea and associated range operating areas required to meet customer test workload. Fund civilian labor, travel, transportation, equipment, supplies, communication, equipment maintenance, purchased service contracts, annual utilities and any costs necessary to manage and sustain MRTFB operations.</p> <p><b>FY 2012 Plans:</b> Continue all efforts of FY2011.</p>				
<p><b>Title:</b> Navy Test Wing Pacific</p> <p><b>Description:</b> This project funds the overhead/institutional costs required to sustain the MRTFB capabilities of the Naval Test Wing Pacific located at China Lake and Point Mugu CA. These facilities provide the Navy's principal Pacific test activity for Naval Aviation Systems Team aircraft, engaged in or supporting T&amp;E of aircraft, weapons and weapons systems.</p> <p><b>FY 2010 Accomplishments:</b> Navy Test Wing Pacific. Maintained and operated mission essential/core test support resources associated with 13 aircraft and related systems and flight test safety required to meet customer test workload. Funded civilian labor, travel, transportation, equipment, supplies, communication, equipment maintenance, purchased service contracts, annual utilities and any costs necessary to manage and sustain MRTFB operations.</p> <p><b>FY 2011 Plans:</b> Navy Test Wing Pacific. Continue to maintain and operate mission essential/core test support resources associated with 13 aircraft and related systems and flight test safety required to meet customer test workload. Fund civilian labor, travel, transportation, equipment, supplies, communication, equipment maintenance, purchased service contracts, annual utilities and any costs necessary to manage and sustain MRTFB operations.</p> <p><b>FY 2012 Plans:</b> Navy Test Wing Pacific. Continue to maintain and operate mission essential/core test support resources associated with 10 aircraft and related systems and flight test safety required to meet customer test workload. Fund civilian labor, travel, transportation, equipment, supplies, communication, equipment maintenance, purchased service contracts, annual utilities and any costs necessary to manage and sustain MRTFB operations.</p>		<p>25.163 0</p> <p><b>Articles:</b></p>	<p>25.940 0</p>	<p>20.124 0</p>
<p><b>Title:</b> Threat/Target Systems</p> <p><b>Description:</b> This project funds the overhead/institutional costs required to sustain the MRTFB capabilities of the Threat/Target Systems facilities. These facilities provide the airborne and seaborne threats for test and evaluation.</p>		<p>11.964 0</p> <p><b>Articles:</b></p>	<p>12.302 0</p>	<p>10.875 0</p>

**UNCLASSIFIED**

**UNCLASSIFIED**

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<b>B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)</b>		<b>FY 2010</b>	<b>FY 2011</b>	<b>FY 2012</b>
<p><b><i>FY 2010 Accomplishments:</i></b> Threat/Target Systems. Maintained and operated mission essential/core test support resources associated with airborne and seaborne targets required to meet customer test workload. Funds civilian labor, travel, transportation, equipment, supplies, communication, equipment maintenance, purchased service contracts, annual utilities and any costs necessary to manage and sustain MRTFB operations.</p> <p><b><i>FY 2011 Plans:</i></b> Threat/Target Systems. Continue to maintain and operate mission essential/core test support resources associated with airborne and seaborne targets required to meet customer test workload. Funds civilian labor, travel, transportation, equipment, supplies, communication, equipment maintenance, purchased service contracts, annual utilities and any costs necessary to manage and sustain MRTFB operations.</p> <p><b><i>FY 2012 Plans:</i></b> Continue all efforts of FY2011.</p>				
<p><b><i>Title:</i></b> Test and Evaluation Ordnance</p> <p align="right"><b><i>Articles:</i></b></p> <p><b><i>Description:</i></b> This project funds the overhead/institutional costs required to sustain the MRTFB capabilities of the Test and Evaluation Ordnance facilities. These facilities provide test and evaluation of All-Up live ordnance and components.</p> <p><b><i>FY 2010 Accomplishments:</i></b> Test and Evaluation Ordnance. Maintained and operated mission essential/core test support resources associated propulsion, warhead, environmental, rocket motor, and other missile component test facilities required to meet customer test workload. Funds civilian labor, travel, transportation, equipment, supplies, communication, equipment maintenance, purchased service contracts, annual utilities and any costs necessary to manage and sustain MRTFB operations.</p> <p><b><i>FY 2011 Plans:</i></b> Test and Evaluation Ordnance. Continue to maintain and operate mission essential/core test support resources associated propulsion, warhead, environmental, rocket motor, and other missile component test facilities required to meet customer test workload. Funds civilian labor, travel, transportation, equipment, supplies, communication, equipment maintenance, purchased service contracts, annual utilities and any costs necessary to manage and sustain MRTFB operations.</p> <p><b><i>FY 2012 Plans:</i></b> Continue all efforts of FY2011.</p>		3.342 0	3.459 0	2.824 0
<b><i>Title:</i></b> Staff		46.916	46.783	49.467

**UNCLASSIFIED**

**UNCLASSIFIED**

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<b>B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)</b>		<b>FY 2010</b>	<b>FY 2011</b>	<b>FY 2012</b>
<b>Articles:</b>		0	0	0
<p><b>Description:</b> This project funds the overhead/institutional costs required to sustain the NAWCWD MRTFB Test and Evaluation capabilities.</p> <p><b>FY 2010 Accomplishments:</b> Staff. Reimburses the Command for General and Administrative Support services. Funds civilian labor, travel, transportation, equipment, supplies, communication, equipment maintenance, purchased service contracts, annual utilities and any costs necessary to manage and sustain MRTFB operations. Additional funds for utility costs increases and implementation of Department of Defense Inspector General (DoD IG) utility charging findings.</p> <p><b>FY 2011 Plans:</b> Staff. Continue to reimburse the Command for General and Administrative Support services. Continue to fund civilian labor, travel, transportation, equipment, supplies, communication, equipment maintenance, purchased service contracts, annual utilities and any costs necessary to manage and sustain MRTFB operations. Additional funds for utility costs increases and implementation of DoD IG utility charging findings.</p> <p><b>FY 2012 Plans:</b> Continue all efforts of FY2011.</p>				
<b>Accomplishments/Planned Programs Subtotals</b>		150.103	154.442	140.716
<b>C. Other Program Funding Summary (\$ in Millions)</b>				
N/A				
<b>D. Acquisition Strategy</b>				
Not applicable.				
<b>E. Performance Metrics</b>				
Maintain MRTFB infrastructure in a ready state to provide between 4,300-4,800 range hours, 125-150 aerial target presentations, 400-450 surface target presentations, 11,000-11,500 ordnance test hours, and over 6,000 flight hours in support of multiple Navy and DoD acquisition programs and fleet training.				

**UNCLASSIFIED**

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<b>APPROPRIATION/BUDGET ACTIVITY</b> 1319: <i>Research, Development, Test &amp; Evaluation, Navy</i> BA 6: <i>RDT&amp;E Management Support</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 0605864N: <i>Test &amp; Evaluation Support</i>	<b>PROJECT</b> 0654: <i>NAWC Acft Division</i>
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COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
0654: <i>NAWC Acft Division</i>	116.049	122.604	95.321	-	95.321	96.120	95.629	96.327	97.536	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 provides funds for the maintenance and operations of the Naval Air Warfare Center Aircraft Division's (NAWCAD's) Major Range Test Facility Base (MRTFB) capabilities used to conduct test and evaluation for air platforms. NAWCAD has extensive airfield, flight test ranges, aircraft systems test facilities and simulation laboratories to support aircraft Research Development Test and Evaluation (RDT&E). This includes 50,000 square miles of airspace, 39,375 square miles of sea space, and 7,950 acres of land space. Product areas include aircraft systems flight test and evaluation, carrier suitability certification, test article preparation, installed system test and evaluation, and modeling and simulation support of the acquisition process. The Test and Evaluation (T&E) Group, Patuxent River, performs development and operational test and evaluation of manned and unmanned air vehicle systems, including mission systems, equipment, subsystems, components, and support systems. This project also provides test and evaluation facilities for air-breathing propulsion systems and extensive facilities for conducting both installed and uninstalled aircraft engine development and test and evaluation. This project funds costs that are not chargeable to customers.

**B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)**

	FY 2010	FY 2011	FY 2012
<b>Title:</b> Atlantic Ranges	25.105	25.065	23.275
<b>Articles:</b>	0	0	0
<b>Description:</b> This project funds the overhead/institutional costs required to sustain the MRTFB capabilities associated with the Atlantic Ranges and Facilities and Air Vehicle Modification and Instrumentation. These facilities provide safe, instrumented, controlled flight testing and training in air, sea, and land arenas.			
<b>FY 2010 Accomplishments:</b> Atlantic Ranges. Maintained and operated mission essential/core test support resources. These resources include test article instrumentation and/or modification for Flight Test Aircraft and Weapons Under Test as well as, ground and flight test instrumentation systems, range instrumentation systems and data processing and communication systems required to meet customer test workload. Funded civilian labor, travel, transportation, equipment, supplies, communication, equipment maintenance, purchased service contracts, annual utilities and any costs necessary to manage and sustain MRTFB operations. Increase for the Aircraft Prototype Facility.			
<b>FY 2011 Plans:</b> Atlantic Ranges. Continue to maintain and operate mission essential/core test support resources. These resources include test article instrumentation and/or modification for Flight Test Aircraft and Weapons Under Test as well as, ground and flight test instrumentation systems, range instrumentation systems and data processing and communication systems required to meet customer test workload. Fund civilian labor, travel, transportation, equipment, supplies, communication, equipment maintenance,			

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2012 Navy		<b>DATE:</b> February 2011		
<b>APPROPRIATION/BUDGET ACTIVITY</b> 1319: <i>Research, Development, Test &amp; Evaluation, Navy</i> BA 6: <i>RDT&amp;E Management Support</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 0605864N: <i>Test &amp; Evaluation Support</i>	<b>PROJECT</b> 0654: <i>NAWC Acft Division</i>		
<b>B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)</b>		<b>FY 2010</b>	<b>FY 2011</b>	<b>FY 2012</b>
<p>purchased service contracts, annual utilities and any costs necessary to manage and sustain MRTFB operations. Increase for the Aircraft Prototype Facility.</p> <p><b>FY 2012 Plans:</b> Continue all efforts of FY2011.</p>				
<p><b>Title:</b> Electromagnetic Environmental Effects (E-Cubed) and Air Combat Environment Test and Evaluation Facility (ACETEF)</p> <p><b>Articles:</b></p> <p><b>Description:</b> This project funds the overhead/institutional costs required to sustain the MRTFB capabilities associated with E-Cubed and Air Combat Environment Test and Evaluation Facility. These facilities provide T&amp;E support with integrated, interactive, and repeatable synthetic environments and reduce the risk and cost for programs with the use of installed systems tests to include simulation and stimulation tools, techniques and technologies.</p> <p><b>FY 2010 Accomplishments:</b> E-Cubed and ACETEF. Maintained and operated mission essential/core test support resources required to meet customer test workload. Funded civilian labor, travel, transportation, equipment, supplies, communication, equipment maintenance, purchased service contracts, annual utilities and any costs necessary to manage and sustain MRTFB operations.</p> <p><b>FY 2011 Plans:</b> E-Cubed and ACETEF. Continue to maintain and operate mission essential/core test support resources required to meet customer test workload. Fund civilian labor, travel, transportation, equipment, supplies, communication, equipment maintenance, purchased service contracts, annual utilities and any costs necessary to manage and sustain MRTFB operations.</p> <p><b>FY 2012 Plans:</b> Continue all efforts of FY2011.</p>		21.469 0	21.326 0	19.692 0
<p><b>Title:</b> Propulsion Systems Test Facility</p> <p><b>Articles:</b></p> <p><b>Description:</b> This project funds the overhead/institutional costs required to sustain the MRTFB capabilities of the Propulsion System Evaluation facility. These facilities perform T&amp;E of propulsion systems in the laboratories, engine test chambers and component test rigs of the Propulsion Systems Test Facility and the Aircraft T&amp;E Facility. Propulsion Systems consists of engines, engine components and accessories.</p> <p><b>FY 2010 Accomplishments:</b></p>		4.589 0	4.469 0	4.200 0

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2012 Navy		<b>DATE:</b> February 2011		
<b>APPROPRIATION/BUDGET ACTIVITY</b> 1319: <i>Research, Development, Test &amp; Evaluation, Navy</i> BA 6: <i>RDT&amp;E Management Support</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 0605864N: <i>Test &amp; Evaluation Support</i>	<b>PROJECT</b> 0654: <i>NAWC Acft Division</i>		
<b>B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)</b>		<b>FY 2010</b>	<b>FY 2011</b>	<b>FY 2012</b>
<p>Maintained and operated mission essential/core test support resources required to meet customer test workload. Funded civilian labor, travel, transportation, equipment, supplies, communication, equipment maintenance, purchased service contracts, annual utilities and any costs necessary to manage and sustain MRTFB operations.</p> <p><b>FY 2011 Plans:</b> Continue to maintain and operate mission essential/core test support resources required to meet customer test workload. Fund civilian labor, travel, transportation, equipment, supplies, communication, equipment maintenance, purchased service contracts, annual utilities and any costs necessary to manage and sustain MRTFB operations.</p> <p><b>FY 2012 Plans:</b> Continue all efforts of FY2011.</p>				
<p><b>Title:</b> Threat/Target Systems</p> <p align="right"><b>Articles:</b></p> <p><b>Description:</b> This project funds the overhead/institutional costs required to sustain the MRTFB capabilities of the Threat/Target Systems facilities. These facilities provide the airborne and seaborne threats for test and evaluation.</p> <p><b>FY 2010 Accomplishments:</b> Threat/Target Systems. Maintained and operated mission essential/core test support resources associated with airborne and seaborne targets required to meet customer test workload. Funded civilian labor, travel, transportation, equipment, supplies, communication, equipment maintenance, purchased service contracts, annual utilities and any costs necessary to manage and sustain MRTFB operations.</p> <p><b>FY 2011 Plans:</b> Threat/Target Systems. Continue to maintain and operate mission essential/core test support resources associated with airborne and seaborne targets required to meet customer test workload. Fund civilian labor, travel, transportation, equipment, supplies, communication, equipment maintenance, purchased service contracts, annual utilities and any costs necessary to manage and sustain MRTFB operations.</p> <p><b>FY 2012 Plans:</b> Continue all efforts of FY2011.</p>		1.954 0	1.961 0	1.564 0
<p><b>Title:</b> Naval Test Wing Atlantic</p> <p align="right"><b>Articles:</b></p>		34.221 0	44.693 0	22.694 0

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2012 Navy		<b>DATE:</b> February 2011		
<b>APPROPRIATION/BUDGET ACTIVITY</b> 1319: <i>Research, Development, Test &amp; Evaluation, Navy</i> BA 6: <i>RDT&amp;E Management Support</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 0605864N: <i>Test &amp; Evaluation Support</i>	<b>PROJECT</b> 0654: <i>NAWC Acft Division</i>		
<b>B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)</b>		<b>FY 2010</b>	<b>FY 2011</b>	<b>FY 2012</b>
<p><b>Description:</b> This project funds the overhead/institutional costs required to sustain the MRTFB capabilities of the Naval Test Wing Atlantic. These facilities provide support for Naval Aviation Systems Team aircraft, engaged in or supporting T&amp;E aircraft systems.</p> <p><b>FY 2010 Accomplishments:</b> Naval Test Wing Atlantic. Maintained and operated mission essential/core test support resources associated with 20 aircraft and related systems and flight test safety required to meet customer test workload. Funded civilian labor, travel, transportation, equipment, supplies, communication, equipment maintenance, purchased service contracts, annual utilities and any costs necessary to manage and sustain MRTFB operations. Increased to support additional chase and tanker aircraft required to support F/A-18E/F/G and Joint Strike Fighter (JSF).</p> <p><b>FY 2011 Plans:</b> Naval Test Wing Atlantic. Continue to maintain and operate mission essential/core test support resources associated with 23 aircraft and related systems and flight test safety required to meet customer test workload. Fund civilian labor, travel, transportation, equipment, supplies, communication, equipment maintenance, purchased service contracts, annual utilities and any costs necessary to manage and sustain MRTFB operations. Increase to support additional chase and tanker aircraft required to support F/A-18E/F/G and JSF.</p> <p><b>FY 2012 Plans:</b> Continue to maintain and operate mission essential/core test support resources associated with only 12 aircraft and related systems and flight test safety required to meet customer test workload. Funds civilian labor, travel, transportation, equipment, supplies, communication, equipment maintenance, purchased service contracts, annual utilities and any costs necessary to manage and sustain MRTFB operations.</p>				
<p><b>Title:</b> Staff</p> <p align="right"><b>Articles:</b></p>		28.711 0	25.090 0	23.896 0
<p><b>Description:</b> This project funds the overhead/institutional costs required to sustain the NAWCAD MRTFB Test and Evaluation capabilities.</p> <p><b>FY 2010 Accomplishments:</b> Staff. Reimbursed the Command for General and Administrative Support services. Funded civilian labor, travel, transportation, equipment, supplies, communication, equipment maintenance, purchased service contracts, annual utilities and any costs necessary to manage and sustain MRTFB operations.</p> <p><b>FY 2011 Plans:</b></p>				

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2012 Navy		<b>DATE:</b> February 2011		
<b>APPROPRIATION/BUDGET ACTIVITY</b> 1319: <i>Research, Development, Test &amp; Evaluation, Navy</i> BA 6: <i>RDT&amp;E Management Support</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 0605864N: <i>Test &amp; Evaluation Support</i>	<b>PROJECT</b> 0654: <i>NAWC Acft Division</i>		
<b>B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)</b>		<b>FY 2010</b>	<b>FY 2011</b>	<b>FY 2012</b>
<p>Staff. Continue to reimburse the Command for General and Administrative Support services. Continue to fund civilian labor, travel, transportation, equipment, supplies, communication, equipment maintenance, purchased service contracts, annual utilities and any costs necessary to manage and sustain MRTFB operations. Continue all efforts of FY2010 except for the funding of NMCI equipment which was realigned to different program element.</p> <p><b><i>FY 2012 Plans:</i></b> Continue all efforts of FY2011.</p>				
<b>Accomplishments/Planned Programs Subtotals</b>		116.049	122.604	95.321
<b>C. Other Program Funding Summary (\$ in Millions)</b>				
N/A				
<b>D. Acquisition Strategy</b>				
Not applicable.				
<b>E. Performance Metrics</b>				
Maintain MRTFB infrastructure in a ready state to provide between 8,700-9,200 range hours, 4,900-5,300 chamber hours, 9,500-10,000 E-Cubed test hours, and over 10,000 flight hours in support of multiple Navy and Department of Defense (DoD) acquisition programs and fleet training.				

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**Exhibit R-2A, RDT&E Project Justification:** PB 2012 Navy **DATE:** February 2011

<b>APPROPRIATION/BUDGET ACTIVITY</b> 1319: <i>Research, Development, Test &amp; Evaluation, Navy</i> BA 6: <i>RDT&amp;E Management Support</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 0605864N: <i>Test &amp; Evaluation Support</i>	<b>PROJECT</b> 2921: <i>Pacific Missile Range Facility</i>
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COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
2921: <i>Pacific Missile Range Facility</i>	5.119	5.227	5.220	-	5.220	1.349	0.041	0.046	0.057	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		

**A. Mission Description and Budget Item Justification**

This program provides continuing maintenance and operations support for Test & Evaluation (T&E) related capabilities at the Pacific Missile Range Facility (PMRF) located at Barking Sands on Kauai, HI. PMRF's T&E capabilities include precision radar and telemetry assets, the Mobile Aerial Target Support System (MATSS), and optical tracking systems. These assets support Navy, Department of Defense, and Army Missile Defense Test & Evaluation. This project funds costs not chargeable to customers. Effective FY 12 and out, PMRF instrumentation will be phased out due to large funding reductions.

**B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)**

	FY 2010	FY 2011	FY 2012
<b>Title:</b> Pacific Missile Range Facility	5.119	5.227	5.220
<b>Articles:</b>	0	0	0
<b>Description:</b> This project funds the overhead/institutional costs required to sustain the recognized Major Range Test Facility Base (MRTFB) capabilities at PMRF in accordance with Department of Defense Directive 3200.11.			
<b>FY 2010 Accomplishments:</b> PMRF Test and Evaluation Assets. Maintained and operated mission essential/core test support resources including the precision radar and telemetry assets, the MATSS, the Stabilized High-accuracy Optical Tracking System (SHOTS), and the Telemetry Systems required to meet customer test workload. Funds civilian labor, travel, transportation, equipment, supplies, communication, equipment maintenance, purchased service contracts, annual utilities and any costs necessary to manage and sustain MRTFB operations. Reimburses the Command for General and Administrative support services.			
<b>FY 2011 Plans:</b> PMRF Test and Evaluation Assets. Continue to maintain and operate mission essential/core test support resources including the precision radar and telemetry assets, the MATSS, the SHOTS, and the Telemetry Systems required to meet customer test workload. Funds civilian labor, travel, transportation, equipment, supplies, communication, equipment maintenance, purchased service contracts, annual utilities and any costs necessary to manage and sustain MRTFB operations. Reimburses the Command for General and Administrative support services.			
<b>FY 2012 Plans:</b> Effective FY 12 and out, PMRF instrumentation will be phased out due to large funding reductions.			
<b>Accomplishments/Planned Programs Subtotals</b>	5.119	5.227	5.220

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Exhibit R-2A, RDT&E Project Justification: PB 2012 Navy		DATE: February 2011
<b>APPROPRIATION/BUDGET ACTIVITY</b> 1319: <i>Research, Development, Test &amp; Evaluation, Navy</i> BA 6: <i>RDT&amp;E Management Support</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 0605864N: <i>Test &amp; Evaluation Support</i>	<b>PROJECT</b> 2921: <i>Pacific Missile Range Facility</i>

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

N/A

**D. Acquisition Strategy**

Not applicable.

**E. Performance Metrics**

Maintain MRTFB infrastructure in a ready state to provide between 600-1,000 range hours in support of multiple Navy and DoD acquisition programs and fleet training.

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**Exhibit R-2A, RDT&E Project Justification:** PB 2012 Navy **DATE:** February 2011

<b>APPROPRIATION/BUDGET ACTIVITY</b> 1319: <i>Research, Development, Test &amp; Evaluation, Navy</i> BA 6: <i>RDT&amp;E Management Support</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 0605864N: <i>Test &amp; Evaluation Support</i>	<b>PROJECT</b> 2922: <i>MRTFB Maint &amp; Repair</i>
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COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
2922: <i>MRTFB Maint &amp; Repair</i>	25.368	21.300	21.026	-	21.026	21.547	22.086	22.792	23.073	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 provides funding for the maintenance and repair of the Major Range Test Facility Base (MRTFB) Real Property Maintenance Activities (RPMA) at the Naval Air Warfare Center Weapons Division (NAWCWD), the Naval Air Warfare Center Aircraft Division (NAWCAD), and the Atlantic Undersea Test and Evaluation Center (AUTEC). Funds mission critical emergency services, recurring maintenance and repair, and major repair projects. In addition it addresses priority items on the Backlog of Maintenance and Repair list.

**B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)**

	FY 2010	FY 2011	FY 2012
<b>Title:</b> Facility Maintenance and Repair	25.368	21.300	21.026
<b>Articles:</b>	0	0	0
<b>Description:</b> Maintenance and repair of the MRTFB RPMA at NAWCWD, NAWCAD, and AUTEC.			
<b>FY 2010 Accomplishments:</b> Facility Maintenance and Repair. Supported mission critical emergency services, recurring maintenance and repair, and minor and major repair efforts at NAWCWD, NAWCAD, and AUTEC. FY10 budget funds MRTFB facility to 90% of Department of Defense (DoD) sustainment model and addresses restoration and modernization of Hangars and roads.			
<b>FY 2011 Plans:</b> Facility Maintenance and Repair. Continue to support mission critical emergency services, recurring maintenance and repair, and minor and major repair efforts at NAWCWD, NAWCWD, and AUTEC. FY11 budget funds MRTFB facility to 90% of DoD sustainment model.			
<b>FY 2012 Plans:</b> Continue all efforts of FY2011.			
<b>Accomplishments/Planned Programs Subtotals</b>	25.368	21.300	21.026

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

N/A

**D. Acquisition Strategy**

Not applicable.

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2012 Navy		<b>DATE:</b> February 2011
<b>APPROPRIATION/BUDGET ACTIVITY</b> 1319: <i>Research, Development, Test &amp; Evaluation, Navy</i> BA 6: <i>RDT&amp;E Management Support</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 0605864N: <i>Test &amp; Evaluation Support</i>	<b>PROJECT</b> 2922: <i>MRTFB Maint &amp; Repair</i>

**E. Performance Metrics**

Maintain the 141, 357, and 784 building/structures at AUTECH, NAWCAD, and NAWCWD respectively. Execute 15-20 major repair projects per year to address mission critical services.

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**Exhibit R-2A, RDT&E Project Justification:** PB 2012 Navy **DATE:** February 2011

<b>APPROPRIATION/BUDGET ACTIVITY</b> 1319: <i>Research, Development, Test &amp; Evaluation, Navy</i> BA 6: <i>RDT&amp;E Management Support</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 0605864N: <i>Test &amp; Evaluation Support</i>	<b>PROJECT</b> 3029: <i>T&amp;E Policy Support</i>
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COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
3029: <i>T&amp;E Policy Support</i>	0.755	0.782	0.748	-	0.748	0.747	0.757	0.773	0.783	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 provides funds to support Test and Evaluation (T&E) policy, transformation, programming, requirements validation, and T&E dispute arbitration and resolution in an evolutionary acquisition environment. This expertise is also used as required to support the completion of the Navy T&E mission including oversight of T&E plans for Navy and Joint acquisition programs, liaison with other agencies on T&E matters, development of T&E strategic plans, conduct of T&E studies and assessments, formulation and validation of T&E capability needs, assessment and support of future testing of formal acquisition programs, and identification of Science and Technologies required to support T&E of future acquisition programs.

**B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)**

	FY 2010	FY 2011	FY 2012
<b>Title:</b> T&E Policy & Requirements Validation Support	0.755	0.782	0.748
<b>Articles:</b>	0	0	0
<b>Description:</b> T&E policy and requirements validation.			
<b>FY 2010 Accomplishments:</b> T&E Policy & Requirements Validation Support. Provided funding for labor, material, and travel in support of the T&E policy and requirements validation.			
<b>FY 2011 Plans:</b> T&E Policy & Requirements Validation Support. Continue to provide funding for labor, material, and travel in support of the T&E policy and requirements validation.			
<b>FY 2012 Plans:</b> Continue all efforts of FY2011.			
<b>Accomplishments/Planned Programs Subtotals</b>	0.755	0.782	0.748

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

N/A

**D. Acquisition Strategy**

Not applicable.

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2012 Navy		<b>DATE:</b> February 2011
<b>APPROPRIATION/BUDGET ACTIVITY</b> 1319: <i>Research, Development, Test &amp; Evaluation, Navy</i> BA 6: <i>RDT&amp;E Management Support</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 0605864N: <i>Test &amp; Evaluation Support</i>	<b>PROJECT</b> 3029: <i>T&amp;E Policy Support</i>

**E. Performance Metrics**

Assess and validate requirements for over 25 Navy and Joint test capability investments per year.

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**Exhibit R-2A, RDT&E Project Justification:** PB 2012 Navy **DATE:** February 2011

<b>APPROPRIATION/BUDGET ACTIVITY</b> 1319: <i>Research, Development, Test &amp; Evaluation, Navy</i> BA 6: <i>RDT&amp;E Management Support</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 0605864N: <i>Test &amp; Evaluation Support</i>	<b>PROJECT</b> 3154: <i>Nanoose and Dabob Bay Ranges</i>
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COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
3154: <i>Nanoose and Dabob Bay Ranges</i>	11.746	12.080	11.773	-	11.773	11.884	11.872	12.112	12.269	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 provides maintenance and operations support for the Nanoose and Dabob Bay Ranges along with associated support systems to provide Test and Evaluation (T&E) and readiness assessment services for acquisition programs and the Fleet. Operates ocean-based environment, measurement and support systems. Maintains and repairs systems that measure warfare system performance. Oversees test, training, and measurement facilities, equipment, operations and maintenance processes. Satisfies customer exercise and measurement requirements through the operation of ocean based test and measurement systems. Assures the readiness of systems through the implementation of calibration, maintenance, repair and life cycle processes. Performs exercise planning, exercise interpretation and development of surrogate environments, measurement and support systems. Assists in the design, fabrication and testing of systems for Undersea Warfare (USW) warfare environment simulation and performance measurement. Oversees the manning and maintenance of Naval Undersea Warfare Center (NUWC) Division Keyport range craft and range craft systems.

**B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)**

	FY 2010	FY 2011	FY 2012
<b>Title:</b> Undersea Ranges	11.746	12.080	11.773
<b>Articles:</b>	0	0	0
<b>Description:</b> This project funds the overhead/Institutional costs required to sustain the Major Range Test Facility Base (MRTFB) capabilities at the Nanoose and Dabob Bay undersea tracking ranges.			
<b>FY 2010 Accomplishments:</b> Undersea Ranges. Maintained and operated mission essential/core test support resources associated with the unique test environments for test and evaluation of undersea weapons, sensors, submarines and other undersea systems required to meet customer test workload. Funds civilian labor, travel, transportation, equipment, supplies, communication, equipment maintenance, purchased service contracts, annual utilities and any costs necessary to manage and sustain MRTFB operations. Reimburses the Command for General and Administrative support services.			
<b>FY 2011 Plans:</b> Undersea Ranges. Continue to maintain and operate mission essential/core test support resources associated with the unique test environments for test and evaluation of undersea weapons, sensors, submarines and other undersea systems required to meet customer test workload. Funds civilian labor, travel, transportation, equipment, supplies, communication, equipment			

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2012 Navy		<b>DATE:</b> February 2011		
<b>APPROPRIATION/BUDGET ACTIVITY</b> 1319: <i>Research, Development, Test &amp; Evaluation, Navy</i> BA 6: <i>RDT&amp;E Management Support</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 0605864N: <i>Test &amp; Evaluation Support</i>	<b>PROJECT</b> 3154: <i>Nanoose and Dabob Bay Ranges</i>		
<b>B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)</b>		<b>FY 2010</b>	<b>FY 2011</b>	<b>FY 2012</b>
maintenance, purchased service contracts, annual utilities and any costs necessary to manage and sustain MRTFB operations. Reimburses the Command for General and Administrative support services. <b><i>FY 2012 Plans:</i></b> Undersea Ranges. Continue all efforts of FY2011.				
<b>Accomplishments/Planned Programs Subtotals</b>		11.746	12.080	11.773
<b>C. Other Program Funding Summary (\$ in Millions)</b> N/A				
<b>D. Acquisition Strategy</b> Not applicable.				
<b>E. Performance Metrics</b> Maintain MRTFB infrastructure in a ready state to provide between 1,600-2,000 range hours in support of multiple Navy and Department of Defense (DoD) acquisition programs and fleet training.				