

EXHIBIT R-2, RDT&E Budget Item Justification							DATE: <b>May 2009</b>	
APPROPRIATION/BUDGET ACTIVITY <b>RESEARCH DEVELOPMENT TEST &amp; EVALUATION, NAVY / BA-6</b>					R-1 ITEM NOMENCLATURE 0605864N, TEST AND EVALUATION SUPPORT			
COST (\$ in Millions)	FY 2008	FY 2009	FY 2010					
Total PE Cost	334.124	340.890	380.733					
0541 AUTC	53.646	55.082	56.195					
0566 NAVAIR ENVIRONMENTAL COMPL	3.679	3.826	4.087					
0653 NAWC WEAPONS	142.711	145.823	150.710					
0654 NAW AIRCRAFT	101.845	103.285	126.574					
2921 PACIFIC MISSILE RANGE FACILITY	4.800	5.003	5.140					
2922 MRTFB MAINT AND REPAIR	15.383	15.520	25.474					
3029 T&E POLICY SUPPORT	0.671	0.691	0.758					
3154 NANOOSE AND DABOB	11.389	11.660	11.795					
<p><b>A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:</b> This program provides institutional maintenance and operations support for: the Naval Undersea Warfare Center Detachment Atlantic Undersea Test and Evaluation Center (NAVUNSEAWARCEN DET AUTC), Andros Island, Bahamas; the Environmental Compliance Program; Naval Air Warfare Center Weapons Division (NAVAIRWARCENWPNDIV), Point Mugu and China Lake, CA; Naval Air Warfare Center Aircraft Division (NAVAIRWARCENACDIV), Patuxent River, MD; T&amp;E related capabilities at the Pacific Missile Range Facility, Barking Sands, HI; Maintenance and Repair at NAVAIRWARCENWPNDIV and NAVAIRWARCENACDIV; and the Naval Undersea Warfare Center Keyport (NAVUNSEAWARCENKEYPORT) Nanoose and Dabob Bay Ranges. The Test and Evaluation (T&amp;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&amp;E for the development and acquisition of technology advanced weapons systems. Core T&amp;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&amp;E; removes cost and scheduling impact of providing their own T&amp;E resources; and retains the physical airspace, land space and sea space needed to conduct testing.</p>								

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**B. PROGRAM CHANGE SUMMARY:**

Funding:	FY08	FY09	FY10
President's Budget 2009:	329.026	356.254	356.930
President's Budget 2010:	334.124	340.890	380.733
Total Adjustments	5.098	-15.364	23.803
Summary of Adjustments			
Congressional Rescissions			
Congressional Adjustments		-14.427	
SBIR/STTR/FTT Assessments	4.598		
Program Adjustments	0.500		24.404
Rate/Misc Adjustments		-0.937	-0.601
Subtotal	5.098	-15.364	23.803

Schedule:  
Not Applicable.

Technical:  
Not Applicable.

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APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;E, N / BA-6</b>		PROGRAM ELEMENT NUMBER AND NAME 0605864N, TEST AND EVALUATION SUPPORT			PROJECT NUMBER AND NAME 0541, AUTEC			
COST (\$ in Millions)	FY 2008	FY 2009	FY 2010					
Project Cost	<b>53.646</b>	<b>55.082</b>	<b>56.195</b>					
RDT&E Articles Qty "Not Applicable"								

**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 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.

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**B. Accomplishments/Planned Program**

Atlantic Undersea Test and Eval Ctr Facility	FY 08	FY 09	FY 10	
Accomplishments/Effort/Subtotal Cost	42.596	44.032	45.145	
RDT&E Articles Quantity "Not Applicable"				

AUTEK is a Test and Evaluation (T&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 MRTFB capabilities at AUTEK in accordance with Department of Defense Directive 3200.11. Funds are used to maintain and operate mission essential/core test support resources, instrumentation systems and marine craft 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.

Bahamian Lease	FY 08	FY 09	FY 10	
Accomplishments/Effort/Subtotal Cost	11.050	11.050	11.050	
RDT&E Articles Quantity "Not Applicable"				

Provide rental payments to the Bahamian government for use of land and ocean in the Bahamas.

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<b>RDT&amp;E, N / BA-6</b>	0605864N, TEST AND EVALUATION SUPPORT	0541, AUTEK	
<b>C. OTHER PROGRAM FUNDING SUMMARY:</b> Not Applicable.			
<u>Line Item No. &amp; Name</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>
<b>D. ACQUISITION STRATEGY:</b>			
Not Applicable.			

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COST (\$ in Millions)	FY 2008	FY 2009	FY 2010					
Project Cost	<b>3.679</b>	<b>3.826</b>	<b>4.087</b>					
RDT&E Articles Qty "Not Applicable"								

**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.

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**B. Accomplishments/Planned Program**

Environmental Compliance	FY 08	FY 09	FY 10	
Accomplishments/Effort/Subtotal Cost	3.679	3.826	4.087	
RDT&E Articles Quantity "Not Applicable"				

Continues hazardous waste disposal, solid waste disposal, natural and cultural resources programs, environmental permits, and environmental monitoring at AUTECH, Patuxent River, China Lake and San Nicolas Island. Continue the removal and disposal of Polychlorinated Biphenyls (PCBs) contaminated items at China Lake. Continued comprehensive air pollution meteorology studies at Point Mugu. Continue range contamination assessments at impact areas and lay down yards at China Lake.

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<b>RDT&amp;E, N / BA-6</b>	0605864N, TEST AND EVALUATION SUPPORT	0566, NAVAIR ENVIRONMENTAL COMPLIANCE	
<b>C. OTHER PROGRAM FUNDING SUMMARY:</b> Not Applicable.			
<u>Line Item No. &amp; Name</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>
<b>D. ACQUISITION STRATEGY:</b>			
Not Applicable.			

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COST (\$ in Millions)	FY 2008	FY 2009	FY 2010					
Project Cost	<b>142.711</b>	<b>145.823</b>	<b>150.710</b>					
RDT&E Articles Qty "Not Applicable"								

**A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:** Project provides continuing maintenance and operational support for the Naval Air Warfare Center Weapons Division (NAVAIRWARCENWPNDIV) 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 (EW) 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.

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**B. Accomplishments/Planned Program**

Pacific Ranges	FY 08	FY 09	FY 10	
Accomplishments/Effort/Subtotal Cost	65.947	63.333	63.942	
RDT&E Articles Quantity "Not Applicable"				

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. Funds are used 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-installed test. as well as, scheduling and control of air, land, sea and associated range operating areas 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.

Navy Test Wing Pacific	FY 08	FY 09	FY 10	
Accomplishments/Effort/Subtotal Cost	23.734	24.899	25.163	
RDT&E Articles Quantity "Not Applicable"				

IAW with DoDD 3200.11., 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&E of aircraft, weapons and weapons systems. Funds are used to maintain and operate mission essential/core test support resources associated with 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.

Threat/Target Systems	FY 08	FY 09	FY 10	
Accomplishments/Effort/Subtotal Cost	11.368	11.835	11.964	
RDT&E Articles Quantity "Not Applicable"				

This project funds the overhead/institutional costs required to sustain the MRTFB capabilities of the Threat/Target Systems facilities IAW DoDD 3200.11. These facilities provide the airborne and seaborne threats for test and evaluation. Funds are used 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.

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**B. Accomplishments/Planned Program (Cont.)**

Test and Evaluation Ordnance	FY 08	FY 09	FY 10	
Accomplishments/Effort/Subtotal Cost	3.271	3.300	3.342	
RDT&E Articles Quantity "Not Applicable"				

This project funds the overhead/institutional costs required to sustain the MRTFB capabilities of the Test and Evaluation Ordnance facilities IAW DoDD 3200.11. These facilities provide test and evaluation of All-Up live ordnance and components. Funds are used 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.

Staff	FY 08	FY 09	FY 10	
Accomplishments/Effort/Subtotal Cost	38.391	42.456	46.299	
RDT&E Articles Quantity "Not Applicable"				

This project funds the overhead/institutional costs required to sustain the Naval Air Warfare Center Weapons Division (NAWCWD) MRTFB Test and Evaluation capabilities IAW DoDD 3200.11. 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.

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<b>RDT&amp;E, N / BA-6</b>	0605864N, TEST AND EVALUATION SUPPORT	0653, NAWC WEAPONS	
<b>C. OTHER PROGRAM FUNDING SUMMARY:</b> Not Applicable.			
<u>Line Item No. &amp; Name</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>
<b>D. ACQUISITION STRATEGY:</b>			
Not Applicable.			

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COST (\$ in Millions)	FY 2008	FY 2009	FY 2010					
Project Cost	<b>101.845</b>	<b>103.285</b>	<b>126.574</b>					
RDT&E Articles Qty "Not Applicable"								

**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 (NAVAIRWARCENACDIV's) Major Range Test Facility Base (MRTFB) capabilities used to conduct test and evaluation for air platforms. NAVAIRWARCENACDIV 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.

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**B. Accomplishments/Planned Program**

Atlantic Ranges	FY 08	FY 09	FY 10	
Accomplishments/Effort/Subtotal Cost	25.209	23.957	25.105	
RDT&E Articles Quantity "Not Applicable"				

In accordance with (IAW) Department of Defense Directive (DoDD) 3200.11., 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. Funds are used 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. 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.

Electromagnetic Environmental Effects (E-Cubed) and Air Combat Environment Test and Evaluation Facility (ACETEF)	FY 08	FY 09	FY 10	
Accomplishments/Effort/Subtotal Cost	21.439	21.598	21.469	
RDT&E Articles Quantity "Not Applicable"				

In accordance with DoDD 3200.11., this project funds the overhead/institutional costs required to sustain the MRTFB capabilities associated with Electromagnetic Environmental Effects (E-Cubed) and Air Combat Environment Test and Evaluation Facility . These facilities provide T&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. Funds are used to maintain and operate mission essential/core test support resources 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.

Propulsion Systems Test Facility	FY 08	FY 09	FY 10	
Accomplishments/Effort/Subtotal Cost	4.500	4.545	4.589	
RDT&E Articles Quantity "Not Applicable"				

This project funds the overhead/institutional costs required to sustain the MRTFB capabilities of the Propulsion System Evaluation facility IAW DoDD 3200.11. These facilities perform T&E of propulsion systems in the laboratories, engine test chambers and component test rigs of the Propulsion Systems Test Facility and the Aircraft T&E Facility. Propulsion Systems consists of engines, engine components and accessories. Funds are used to maintain and operate mission essential/core test support resources 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.

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**B. Accomplishments/Planned Program (Cont.)**

Threat/Target Systems	FY 08	FY 09	FY 10
Accomplishments/Effort/Subtotal Cost	1.802	1.472	1.954
RDT&E Articles Quantity "Not Applicable"			

This project funds the overhead/institutional costs required to sustain the MRTFB capabilities of the Threat/Target Systems facilities IAW DoDD 3200.11. These facilities provide the airborne and seaborne threats for test and evaluation. Funds are used 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.

Naval Test Wing Atlantic	FY 08	FY 09	FY 10
Accomplishments/Effort/Subtotal Cost	22.685	23.638	44.221
RDT&E Articles Quantity "Not Applicable"			

IAW with DoDD 3200.11., 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&E of aircraft and aircraft systems. Funds are used to maintain and operate mission essential/core test support resources associated with 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. FY10-11 budget increased to support additional chase and tanker aircraft required to support F/A-18E/F/G and JSF.

Staff	FY 08	FY 09	FY 10
Accomplishments/Effort/Subtotal Cost	26.210	28.075	29.236
RDT&E Articles Quantity "Not Applicable"			

This project funds the overhead/institutional costs required to sustain the Naval Air Warfare Center Aircraft Division (NAWCAD) MRTFB Test and Evaluation capabilities IAW DoDD 3200.11. 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.

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<b>RDT&amp;E, N / BA-6</b>	0605864N, TEST AND EVALUATION SUPPORT	0654, NAWC AIRCRAFT	
<b>C. OTHER PROGRAM FUNDING SUMMARY:</b> Not Applicable.			
<u>Line Item No. &amp; Name</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>
<b>D. ACQUISITION STRATEGY:</b>			
Not Applicable.			

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COST (\$ in Millions)	FY 2008	FY 2009	FY 2010					
Project Cost	<b>4.800</b>	<b>5.003</b>	<b>5.140</b>					
RDT&E Articles Qty "Not Applicable"								

**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, DOD, and Army Missile Defense Test & Evaluation. This project funds costs not chargeable to customers.

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**B. Accomplishments/Planned Program**

PMRF Test and Evaluation Assets	FY 08	FY 09	FY 10
Accomplishments/Effort/Subtotal Cost	4.800	5.003	5.140
RDT&E Articles Quantity "Not Applicable"			

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. Funds are used to maintain and operate mission essential/core test support resources including the precision radar and telemetry assets, the Mobile Aerial Target Support System (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.

# UNCLASSIFIED

**CLASSIFICATION:**

EXHIBIT R-2a, RDT&E Project Justification		DATE:	
		<b>May 2009</b>	
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND NAME	
<b>RDT&amp;E, N / BA-6</b>	0605864N, TEST AND EVALUATION SUPPORT	2921, PACIFIC MISSILE RANGE FACILITY	
<b>C. OTHER PROGRAM FUNDING SUMMARY:</b> Not Applicable.			
<u>Line Item No. &amp; Name</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>
<b>D. ACQUISITION STRATEGY:</b>			
Not Applicable.			

R-1 SHOPPING LIST - Item No.149

# UNCLASSIFIED

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification							DATE: <b>May 2009</b>	
APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;E, N / BA-6</b>		PROGRAM ELEMENT NUMBER AND NAME 0605864N, TEST AND EVALUATION SUPPORT			PROJECT NUMBER AND NAME 2922, MRTFB MAINT AND REPAIR			
COST (\$ in Millions)	FY 2008	FY 2009	FY 2010					
Project Cost	<b>15.383</b>	<b>15.520</b>	<b>25.474</b>					
RDT&E Articles Qty "Not Applicable"								

**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 (W0653) and the Naval Air Warfare Center Aircraft Division (0654). 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 (BMAR) list.

R-1 SHOPPING LIST - Item No.149

**UNCLASSIFIED**

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**CLASSIFICATION:**

EXHIBIT R-2a, RDT&E Project Justification		DATE: <b>May 2009</b>
APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;E, N / BA-6</b>	PROGRAM ELEMENT NUMBER AND NAME 0605864N, TEST AND EVALUATION SUPPORT	PROJECT NUMBER AND NAME 2922, MRTFB MAINT AND REPAIR

**B. Accomplishments/Planned Program**

Facility Maintenance and Repair	FY 08	FY 09	FY 10	
Accomplishments/Effort/Subtotal Cost	15.383	15.520	25.474	
RDT&E Articles Quantity "Not Applicable"				

Support mission critical emergency services, recurring maintenance and repair, and minor and major repair efforts at the Naval Air Warfare Center Weapons Division, the Naval Air Warfare Center Aircraft Division, and the Atlantic Undersea Test and Evaluation Center (AUTECE). FY10-11 budget funds MRTFB facility to 90% of DoD sustainment model.

# UNCLASSIFIED

**CLASSIFICATION:**

EXHIBIT R-2a, RDT&E Project Justification		DATE:	
		<b>May 2009</b>	
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND NAME	
<b>RDT&amp;E, N / BA-6</b>	0605864N, TEST AND EVALUATION SUPPORT	2922, MRTFB MAINT AND REPAIR	
<b>C. OTHER PROGRAM FUNDING SUMMARY:</b> Not Applicable.			
<u>Line Item No. &amp; Name</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>
<b>D. ACQUISITION STRATEGY:</b>			
Not Applicable.			

R-1 SHOPPING LIST - Item No.149

# UNCLASSIFIED

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification							DATE: <b>May 2009</b>	
APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;E, N / BA-6</b>		PROGRAM ELEMENT NUMBER AND NAME 0605864N, TEST AND EVALUATION SUPPORT			PROJECT NUMBER AND NAME 3029, T&E POLICY SUPPORT			
COST (\$ in Millions)	FY 2008	FY 2009	FY 2010					
Project Cost	<b>0.671</b>	<b>0.691</b>	<b>0.758</b>					
RDT&E Articles Qty "Not Applicable"								
<p><b>A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:</b> This project provides funds to support Test and Evaluation (T&amp;E) policy, transformation, programming, requirements validation, and T&amp;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&amp;E mission including oversight of T&amp;E plans for Navy and Joint acquisition programs, liaison with other agencies on T&amp;E matters, development of T&amp;E strategic plans, conduct of T&amp;E studies and assessments, formulation and validation of T&amp;E capability needs, assessment and support of future testing of formal acquisition programs, and identification of Science and Technologies required to support T&amp;E of future acquisition programs.</p>								

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EXHIBIT R-2a, RDT&E Project Justification		DATE: <b>May 2009</b>
APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;E, N / BA-6</b>	PROGRAM ELEMENT NUMBER AND NAME 0605864N, TEST AND EVALUATION SUPPORT	PROJECT NUMBER AND NAME 3029, T&E POLICY SUPPORT

**B. Accomplishments/Planned Program**

T&E Policy & Requirements Validation Support	FY 08	FY 09	FY 10	
Accomplishments/Effort/Subtotal Cost	0.671	0.691	0.758	
RDT&E Articles Quantity "Not Applicable"				

Provides funding for labor, material, and travel in support of the Test and Evaluation (T&E) policy and requirements validation.

# UNCLASSIFIED

**CLASSIFICATION:**

EXHIBIT R-2a, RDT&E Project Justification		DATE:	
		<b>May 2009</b>	
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND NAME	
<b>RDT&amp;E, N / BA-6</b>	0605864N, TEST AND EVALUATION SUPPORT	3029, T&E POLICY SUPPORT	
<b>C. OTHER PROGRAM FUNDING SUMMARY:</b> Not Applicable.			
<u>Line Item No. &amp; Name</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>
<b>D. ACQUISITION STRATEGY:</b>			
Not Applicable.			

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# UNCLASSIFIED

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification							DATE: <b>May 2009</b>	
APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;E, N / BA-6</b>		PROGRAM ELEMENT NUMBER AND NAME 0605864N, TEST AND EVALUATION SUPPORT			PROJECT NUMBER AND NAME 3154, NANOOSE AND DABOB			
COST (\$ in Millions)	FY 2008	FY 2009	FY 2010					
Project Cost	<b>11.389</b>	<b>11.660</b>	<b>11.795</b>					
RDT&E Articles Qty "Not Applicable"								

**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.

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EXHIBIT R-2a, RDT&E Project Justification		DATE: <b>May 2009</b>
APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;E, N / BA-6</b>	PROGRAM ELEMENT NUMBER AND NAME 0605864N, TEST AND EVALUATION SUPPORT	PROJECT NUMBER AND NAME 3154, NANOOSE AND DABOB

**B. Accomplishments/Planned Program**

Undersea Ranges	FY 08	FY 09	FY 10	
Accomplishments/Effort/Subtotal Cost	11.389	11.660	11.795	
RDT&E Articles Quantity "Not Applicable"				

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. Funds are used 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 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.

# UNCLASSIFIED

**CLASSIFICATION:**

EXHIBIT R-2a, RDT&E Project Justification		DATE:	
		<b>May 2009</b>	
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND NAME	
<b>RDT&amp;E, N / BA-6</b>	0605864N, TEST AND EVALUATION SUPPORT	3154, NANOOSE AND DABOB	
<b>C. OTHER PROGRAM FUNDING SUMMARY:</b> Not Applicable.			
<u>Line Item No. &amp; Name</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>
<b>D. ACQUISITION STRATEGY:</b>			
Not Applicable.			

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