EXHIBIT R-2, RDT&E Budget Item Justification							DATE: <b>Februar</b>	v 2006
APPROPRIATION/BUDGET ACTIVITY RESEARCH DEVELOPMENT TEST & EVALUATION, NAVY /	ļ	BA-6			R-1 ITEM NOME 0605864N Test a			y 2000
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	
Total PE Cost	253.260	316.021	328.276	342.855	352.425	358.932	367.084	
0541 Atlantic Undersea Test and Evaluation Center (AUTEC)	44.667	50.883	53.303	55.045	56.288	57.748	59.137	
0566 NAVAIR Environmental Compliance	3.809	3.992	3.605	3.769	3.885	3.973	4.116	
0653 Naval Air Warfare Center Weapons Division	109.003	134.639	139.176	146.000	150.342	152.893	156.353	
0654 Naval Air Warfare Center Aircraft Division	77.923	96.792	100.364	105.465	108.507	110.371	112.884	
2921 Pacific Missile Range Facility	2.130	4.293	5.356	5.052	5.152	5.252	5.354	
2922 Maintenance and Repair	13.708	14.028	14.663	15.448	15.962	16.157	16.476	
3029 T&E Policy Support		0.610	0.653	0.693	0.724	0.754	0.787	
3154 Nanoose and Dabob Bay Ranges		10.784	11.156	11.383	11.565	11.784	11.977	
9094 Safety & Survivability Study of Protective Pumice Technology	2.020							

#### 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 (NAVUNSEAWARCEN DET AUTEC), 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&E related capabilities at the Pacific Missile Range Facility, Barking Sands, HI; Maintenance and Repair at NAVAIRWARCENAVENVPNDIV and NAVAIRWARCENACDIV; and the Naval Undersea Warfare Center Keyport (NAVUNSEAWARCEN KEYPORT) Nanoose and Dabob Bay Ranges. The Test and Evaluation (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.

EXHIBIT R-2, RDT&E Budget Item Justification			DATE:
·			February 2006
APPROPRIATION/BUDGET ACTIVITY	MENCLATUR	E	
RESEARCH DEVELOPMEN BA-6 0605864N		st and Evaluat	ion Support
B. PROGRAM CHANGE SUMMARY:			
Funding:	FY 2005	FY 2006	FY 2007
Previous President's Budget:	255.455	320.133	329.921
Current BES/President's Budget	253.260	316.021	328.276
Total Adjustments	-2.195	-4.112	-1.645
Summary of Adjustments  Congressional Undistributed Reductions Congressional Increases Economic Assumptions Program Adjustments Subtotal	-0.476 0.005 -1.724 -2.195	-3.430 0.775 -1.457 0.000 -4.112	5.708 -7.353 -1.645
Schedule: Not Applicable			
Technical: Not Applicable			
C. OTHER PROGRAM FUNDING SUMMARY: Not Applicable.			
D. ACQUISITION STRATEGY: Not Applicable.			

EXHIBIT R-2a, RDT&E Project Justification							DATE:	
							Februai	ry 2006
APPROPRIATION/BUDGET ACTIVITY					PROJECT NUM	IBER AND NAM	1E	
RDT&E, N / BA-6	0605864N Test a	nd Evaluation Sup	oport		0541 Atlantic Ui	ndersea Test an	t and Evaluation Center (AUTEC	
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	
Project Cost	44.667	50.883	53.303	55.045	56.288	57.748	59.137	
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 sqare 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.

FY06 includes Hurricane Relief \$.775M.

EXHIBIT R-2a, RDT&E Project Justification				DATE:	
					uary 2006
PPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER ANI	D NAME	PROJECT NUMBER AND N	1AME	
DT&E, N / BA-6	0605864N Test and Evaluation Suppo	ort	0541 Atlantic Undersea Tes	t and Evaluation Center (AUT	ΓEC)
Assessment laborated Discount Description					
. Accomplishments/Planned Program					
	FY 05	FY 06	FY 07		7
Accomplishments/Effort/Subtotal Cost	33.817	40.033	42.453		
RDT&E Articles Qty					
AUTEC is a Test and Evaluation (T&E) facility					
systems and marine craft required to meet cus annual utilities and any costs necessary to ma					nce, purchased service contrac
		F)/ 00	EV 07	_	7
Accomplishments/Effort/Subtotal Cost	FY 05 10.850	FY 06 10.850	FY 07 10.850		_
RDT&E Articles Qty	10.050	10.650	10.650	+	_
TETAL THURSD GU			<b>L</b>		<b>_</b>
Provide rental payments to the Bahamian gov	vernment for use of land and ocean in the Baha	amas.			

EXHIBIT R-2a, RDT&E Project Justificat	tion							DATE:		
								Februa	ry 2006	
APPROPRIATION/BUDGET ACTIVITY PROJECT NUMBER AND NAM							E			
RDT&E, N /	BA-6	PE 0605864N	PE 0605864N Test and Evaluation Support 0566 NAVAIR Environmental				nvironmental C	tal Compliance		
COST (\$ in Millions)		FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011		
Project Cost		3.809	3.992	3.605	3.769	3.885	3.973	4.116		
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 Test Facility Bases (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.

### B. Accomplishments/Planned Program

	FY 05	FY 06	FY 07
Accomplishments/Effort/Subtotal Cost	3.809	3.992	3.605
RDT&E Articles Qty			

Continues hazardous waste disposal, solid waste disposal, natural & cultural resources programs, environmental permits, and environmental monitoring at AUTEC, Patuxent River, China Lake and San Nicholas Island. Continue the removal and disposal of Polychlorinated Biphenyls (PCBs) contaminated items at China Lake. Continued upgrade of an oily waste/waste oil (OW/WO) management/recycle facility at Patuxent River. Continued comprehensive air pollution meteorology studies at Point Mugu. Continue range contamination assessments at impact areas and lay down yards at China Lake.

EXHIBIT R-2a, RDT&E Project Justification							DATE:	
							February	2006
APPROPRIATION/BUDGET ACTIVITY					PROJECT NUMBER	R AND NAME		
RDT&E, N / BA-6	0605864N Test a	0605864N Test and Evaluation Support 0653 Naval Air Warfare Center Weapon				oons Division		
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	
Project Cost	109.003	134.639	139.176	146.000	150.342	152.893	156.353	
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.

EXHIBIT R-2a, RDT&E Project Justification			DATE:
			February 2006
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND	NAME
RDT&E, N / BA-6	0605864N Test and Evaluation Support	0653 Naval Air Warfare Ce	enter Weapons Division

#### B. Accomplishments/Planned Program

	FY 05	FY 06	FY 07	
Accomplishments/Effort/Subtotal Cost	59.903	65.632	66.315	
RDT&E Articles Qty				

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.

	FY 05	FY 06	FY 07	
Accomplishments/Effort/Subtotal Cost	5.394	18.858	20.337	
RDT&E Articles Qty				

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.

EXHIBIT R-2a, RDT&E Project Justification			DATE:
			February 2006
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AN	D NAME
RDT&E, N / BA-6	0605864N Test and Evaluation Support	0653 Naval Air Warfare 0	Center Weapons Division

#### B. Accomplishments/Planned Program

	FY 05	FY 06	FY 07	
Accomplishments/Effort/Subtotal Cost	7.980	11.155	11.632	
RDT&E Articles Qty				

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.

	FY 05	FY 06	FY 07	
Accomplishments/Effort/Subtotal Cost	2.708	3.209	3.406	
RDT&E Articles Qty				

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.

	FY 05	FY 06	FY 07	
Accomplishments/Effort/Subtotal Cost	33.018	35.785	37.486	
RDT&E Articles Qty				

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.

EXHIBIT R-2a, RDT&E Project Justification						DATE:		
						F	ebruary 2006	6
APPROPRIATION/BUDGET ACTIVITY					PROJECT NUMBER AND NAME			
RDT&E, N / BA-6	0605864N Test	0605864N Test and Evaluation Support 0654 Naval Air			Air Warfare Center Aircraft Division			
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	
Project Cost	77.923	96.792	100.364	105.465	108.507	110.371	112.884	
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.

EXHIBIT R-2a, RDT&E Project Justification			DATE:
			February 2006
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND	NAME
RDT&E, N / BA-6	0605864N Test and Evaluation Support	0654 Naval Air Warfare Ce	nter Aircraft Division

#### B. Accomplishments/Planned Program

	FY 05	FY 06	FY 07	
Accomplishments/Effort/Subtotal Cost	19.980	24.013	24.726	
RDT&E Articles Qty				

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.

	FY 05	FY 06	FY 07	
Accomplishments/Effort/Subtotal Cost	18.881	21.132	20.987	
RDT&E Articles Qty				

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.

	FY 05	FY 06	FY 07	
Accomplishments/Effort/Subtotal Cost	4.272	4.061	4.348	
RDT&E Articles Qty				

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.

EXHIBIT R-2a, RDT&E Project Justification			DATE:
			February 2006
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND	NAME
RDT&E, N / BA-6	0605864N Test and Evaluation Support	0654 Naval Air Warfare C	enter Aircraft Division

#### B. Accomplishments/Planned Program

	FY 05	FY 06	FY 07	
Accomplishments/Effort/Subtotal Cost	1.074	1.424	1.480	
RDT&E Articles Qty				

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.

	FY 05	FY 06	FY 07	
Accomplishments/Effort/Subtotal Cost	6.917	19.642	21.128	
RDT&E Articles Qty				

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.

	FY 05	FY 06	FY 07	
Accomplishments/Effort/Subtotal Cost	26.799	26.520	27.695	
RDT&E Articles Qty				

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.

EXHIBIT R-2a, RDT&E Project Justification							DATE:	
							Februar	y 2006
APPROPRIATION/BUDGET ACTIVITY PROJECT NUMBER AND NAME						E		
RDT&E, N / BA-6	0605864N Test a	0605864N Test and Evaluation Support 2921 Pacific Missile Range Faci				lity		
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	
Project Cost	2.130	4.293	5.356	5.052	5.152	5.252	5.354	
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.

### B. Accomplishments/Planned Program

	FY 05	FY 06	FY 07	
Accomplishments/Effort/Subtotal Cost	2.130	4.293	5.356	
RDT&E Articles Qty				

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.

EXHIBIT R-2a, RDT&E Project Justification							DATE:	
							Februa	ry 2006
APPROPRIATION/BUDGET ACTIVITY					PROJECT NUM	BER AND NAM	E	
RDT&E, N / BA-6	0605864N Test	and Evaluation	Support		2922 Maintenan	ce and Repair		
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	
Project Cost	13.708	14.028	14.663	15.448	15.962	16.157	16.476	
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.

### B. Accomplishments/Planned Program

	FY 05	FY 06	FY 07	
Accomplishments/Effort/Subtotal Cost	13.708	14.028	14.663	
RDT&E Articles Qty				

Support mission critical emergency services, recurring maintenance and repair, and minor and major repair efforts at the Naval Air Warfare Center Weapons Division and Naval Air Warfare Center Aircraft Division.

EXHIBIT R-2a, RDT&E Project Justification							DATE:	
							Februar	y 2006
APPROPRIATION/BUDGET ACTIVITY					PROJECT NUMBE	R AND NAME		
RDT&E, N / BA-6	0605864N Test	and Evaluation	Support		3029 T&E Policy St	upport		
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	
Project Cost		0.610	0.653	0.693	0.724	0.754	0.787	
RDT&E Articles Qty NOT APPLICABLE								

### 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 Program

	FY 05	FY 06	FY 07
Accomplishments/Effort/Subtotal Cost		0.610	0.653
RDT&E Articles Qty			

Provides funding for labor, r	material, and travel in support of the 7	Fest and Evaluation (T&E) poli	cv and requirements validation.

EXHIBIT R-2a, RDT&E Project Justification						DATE:		
						F	ebruary 2006	6
APPROPRIATION/BUDGET ACTIVITY					PROJECT NU	JMBER AND NA	ME	
RDT&E, N / BA-6	0605864N Test	and Evaluation	Support		3154 Nanoos	e and Dabob Ba	y Ranges	
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	
Project Cost		10.784	11.156	11.383	11.565	11.784	11.977	
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 measurements 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 Program

	FY 05	FY 06	FY 07
Accomplishments/Effort/Subtotal Cost		9.434	9.765
RDT&E Articles Qty			

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.

	FY 05	FY 06	FY 07
Accomplishments/Effort/Subtotal Cost		1.350	1.391
RDT&E Articles Qty			

Covers the cost of the Memorandum of Understanding (MOU) between NUWC Division Keyport and Canadian Forces Maritime Experimental Test Range (CFMETR). Costs include United States, Navy (USN) funded personnel, jointly shared Operations and Maintenance (O&M) costs, personnel overtime at USN request, fuel, second range vessel, and helicopter usage.

EXHIBIT R-2a, RDT&E Project Justification	HIBIT R-2a, RDT&E Project Justification													
							Februa	ary 2006						
APPROPRIATION/BUDGET ACTIVITY					PROJECT NUM	IBER AND NAM	Ė							
RDT&E, N / BA-6	0605864N Test	and Evaluation	Support		9094 Safety & S	Survivability Stud	ly of Protective Pu	ımice Technology						
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011							
Project Cost	2.020													
RDT&E Articles Qty NOT APPLICABLE														

### A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

Pumice is a chock-absorbing medium that can prevent sympathetic detonation of many of the ordnance devices used by the Department of Defense (DOD). The Pumice structure fill is composed of lightweight low density non lethal particles capable of absorbing blast energy and greatly reducing the lethal blast radius. The structure is capable of stopping vehicle parts and blast energy without providing a secondary threat from barrier disintegration. The FY05 funding will gather more empirical blast data and apply available computer modeling of blast effects. Information gathered will be applied to a threat analysis and corresponding Pumice barrier defense for a likely terrorist target.

### B. Accomplishments/Planned Program

	FY 05	FY 06	FY 07	
Accomplishments/Effort/Subtotal Cost	2.020			
RDT&E Articles Qty				

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