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|--|---------|---|---------|---------|-----------------------|--|---------|--|
| CLASSIFICATION: | | UNCLASSIFIED | | | | | | |
| EXHIBIT R-2a, RDT&E PROJECT JUSTIFICATION | | | | | DATE February 2008 | | | |
| APPROPRIATION/BUDGET ACTIVITY RD TEN/BA 6 | | PROGRAM ELEMENT NUMBER AND NAME 0605863N/RDT&E SHIP AND AIRCRAFT SUPPORT | | | | PROJECT NUMBER AND NAME 0354/RDT&E Ships Supt | | |
| COST (In Millions) | FY 2007 | FY 2008 | FY 2009 | FY 2010 | FY 2011 | FY 2012 | FY 2013 | |
| Project Cost | 0.465 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | |
| RDT&E Articles Qty | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| <p>A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION: S0354, RDT&E Ships Support. This project provides for operation and maintenance of a platform used as Sea Based Test Site in support of the Navy Research, Development, Test and Evaluation (RDT&E) program. This project is for the USS DOLPHIN (AGSS-555). Testing aboard this platform reduces the number of fleet units required to support RDT&E efforts. A major cost of this project is regularly scheduled ship maintenance. The remainder of the funds are used for purchase of supplies and equipment, fuel and petroleum products, repairs, and supporting modifications. Most costs are fixed and are associated with simply having these platforms in the inventory. A lesser portion of the costs varies with the tempo and type of ship operations and provides for systems improvements and replacement planning. The nature of the operations determined by the overall Navy/DoD R&D testing program.</p> <p>This budget reflects the decision after FY07 President's Budget to deactivate the USS DOLPHIN. The FY07 funds will be used for continued operations, then a transition to deactivation.</p> | | | | | | | | |

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| APPROPRIATION/BUDGET ACTIVITY RDTEN/BA 6 | PROGRAM ELEMENT NUMBER AND NAME 0605863N/RDT&E SHIP AND AIRCRAFT SUPPORT | PROJECT NUMBER AND NAME 0354/RDT&E Ships Supt | | |
| B. ACCOMPLISHMENTS/PLANNED PROGRAM: | | | | |
| | | FY 2007 | FY 2008 | FY 2009 |
| Accomplishments/Effort/Subtotal Cost | | 0.465 | 0.000 | 0.000 |
| RDT&E Articles Quantity | | 0 | 0 | 0 |
| FY 2006 Plans: Plan on conducting periodic maintenance and to support continued operations. FY2007 Plans: Funds used to deactivate the USS DOLPHIN. | | | | |
| C. OTHER PROGRAM FUNDING SUMMARY: N/A | | | | |
| D. ACQUISITION STRATEGY: N/A | | | | |
| E. MAJOR PERFORMERS: N/A | | | | |

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| EXHIBIT R-2a, RDT&E PROJECT JUSTIFICATION | | | | | DATE February 2008 | | |
| APPROPRIATION/BUDGET ACTIVITY RDTEN/BA 6 | | PROGRAM ELEMENT NUMBER AND NAME 0605863N/RDT&E SHIP AND AIRCRAFT SUPPORT | | | PROJECT NUMBER AND NAME 0568/A/C FLT Hours | | |
| COST (In Millions) | FY 2007 | FY 2008 | FY 2009 | FY 2010 | FY 2011 | FY 2012 | FY 2013 |
| Project Cost | 30.023 | 31.938 | 34.191 | 35.098 | 36.257 | 36.874 | 37.407 |
| RDT&E Articles Qty | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

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

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| APPROPRIATION/BUDGET ACTIVITY RDTEN/BA 6 | PROGRAM ELEMENT NUMBER AND NAME 0605863N/RDT&E SHIP AND AIRCRAFT SUPPORT | PROJECT NUMBER AND NAME 0568/A/C FLT Hours | | |
| B. ACCOMPLISHMENTS/PLANNED PROGRAM: | | | | |
| | | FY 2007 | FY 2008 | FY 2009 |
| Accomplishments/Effort/Subtotal Cost | | 30.023 | 31.938 | 34.191 |
| RDT&E Articles Quantity | | 0 | 0 | 0 |
| Providing organizational and intermediate-level maintenance, supply and Petroleum, Oil and Lubricants (POL) in support of RDT&E aircraft operations. | | | | |
| C. OTHER PROGRAM FUNDING SUMMARY: | | | | |
| Not Applicable | | | | |
| D. ACQUISITION STRATEGY: | | | | |
| Not Applicable | | | | |
| E. MAJOR PERFORMERS: | | | | |
| NAWCAD - Patuxent River, MD:Support of direct flight hour costs in support of R&D programs at NAWCAD. Award Date in FY07 is Oct-06; in FY08 is Oct-07; and in FY09 is Oct-08. | | | | |
| NAWCWD - Point Mugu, CA:Support of direct flight hour costs in support of R&D programs at NAWCWD. Award Date in FY07 is Oct-06; in FY08 is Oct-07; and in FY09 is Oct-08. | | | | |

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| EXHIBIT R-2a, RDT&E PROJECT JUSTIFICATION | | | | | DATE February 2008 | | | |
| APPROPRIATION/BUDGET ACTIVITY RDTEN/BA 6 | | PROGRAM ELEMENT NUMBER AND NAME 0605863N/RDT&E SHIP AND AIRCRAFT SUPPORT | | | | PROJECT NUMBER AND NAME 0569/A/C Support | | |
| COST (In Millions) | FY 2007 | FY 2008 | FY 2009 | FY 2010 | FY 2011 | FY 2012 | FY 2013 | |
| Project Cost | 35.872 | 35.641 | 45.661 | 37.108 | 38.435 | 38.982 | 39.560 | |
| RDT&E Articles Qty | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |

A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

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

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| APPROPRIATION/BUDGET ACTIVITY RDTEN/BA 6 | PROGRAM ELEMENT NUMBER AND NAME 0605863N/RDT&E SHIP AND AIRCRAFT SUPPORT | PROJECT NUMBER AND NAME 0569/A/C Support | | |
| B. ACCOMPLISHMENTS/PLANNED PROGRAM: | | | | |
| | | FY 2007 | FY 2008 | FY 2009 |
| Accomplishments/Effort/Subtotal Cost | | 34.349 | 34.259 | 43.975 |
| RDT&E Articles Quantity | | 0 | 0 | 0 |
| Continuing the transition from ASPA/SDLM/MCAPP to the IMC/PDM program for depot maintenance requirements, while sustaining the following programs: AVDLR/IMRL, engine repairs, support of aircraft in the RDT&E inventory. Continuing operation and implementation of maintenance and material management programs at Naval Air Warfare Center activities. | | | | |
| | | FY 2007 | FY 2008 | FY 2009 |
| Accomplishments/Effort/Subtotal Cost | | 1.523 | 1.382 | 1.686 |
| RDT&E Articles Quantity | | 0 | 0 | 0 |
| Providing In-Service Repair (ISR) funds for emergent repair requirements to aircraft performing mission critical test and evaluation projects. | | | | |
| C. OTHER PROGRAM FUNDING SUMMARY: | | | | |
| Not Applicable | | | | |
| D. ACQUISITION STRATEGY: | | | | |
| Not Applicable | | | | |
| E. MAJOR PERFORMERS: | | | | |
| NAWCAD - Patuxent River, MD: Support of aircraft in the RDT&E inventory; AVDLR/IMRL support; Operation and implementation of maintenance and material management programs. Award Date in FY07 is Oct-06; in FY08 is Oct-07; and in FY09 is Oct-08. | | | | |
| NAWCWD - Point Mugu, CA: Support of aircraft in the RDT&E inventory; AVDLR/IMRL support; Operation and implementation of maintenance and material management programs. Award Date in FY07 is Oct-06; in FY08 is Oct-07; and in FY09 is Oct-08. | | | | |
| NADEP - Jacksonville, FL: Provide aircraft depot maintenance and engine repairs on RDT&E aircraft, as well as support for in-service repairs. Award Date in FY07 is Oct-06; in FY08 is Oct-07; and in FY09 is Oct-08. | | | | |
| NADEP - North Island, CA: Provide aircraft depot maintenance on RDT&E aircraft, as well as support for in-service repairs. Award Date in FY07 is Oct-06; in FY08 is Oct-07; and in FY09 is Oct-08. | | | | |

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| CLASSIFICATION: | | UNCLASSIFIED |
| EXHIBIT R-2a, RDT&E PROJECT JUSTIFICATION (CONTINUATION) | | DATE February 2008 |
| APPROPRIATION/BUDGET ACTIVITY RDTEN/BA 6 | PROGRAM ELEMENT NUMBER AND NAME 0605863N/RDT&E SHIP AND AIRCRAFT SUPPORT | PROJECT NUMBER AND NAME 0569/A/C Support |
| Hill Air Force Base - Hill AFB, UT: Provide aircraft depot maintenance on RDT&E aircraft. Award Date in FY08 is Oct-07. | | |

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| EXHIBIT R-2a, RDT&E PROJECT JUSTIFICATION | | | | | DATE February 2008 | | |
| APPROPRIATION/BUDGET ACTIVITY RDTEN/BA 6 | | PROGRAM ELEMENT NUMBER AND NAME 0605863N/RDT&E SHIP AND AIRCRAFT SUPPORT | | | PROJECT NUMBER AND NAME 2924/SDTS | | |
| COST (In Millions) | FY 2007 | FY 2008 | FY 2009 | FY 2010 | FY 2011 | FY 2012 | FY 2013 |
| Project Cost | 8.202 | 8.889 | 9.494 | 9.783 | 10.054 | 10.238 | 10.427 |
| RDT&E Articles Qty | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

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

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

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| EXHIBIT R-2a, RDT&E PROJECT JUSTIFICATION | | | DATE February 2008 |
| APPROPRIATION/BUDGET ACTIVITY RDTEN/BA 6 | PROGRAM ELEMENT NUMBER AND NAME 0605863N/RDT&E SHIP AND AIRCRAFT SUPPORT | PROJECT NUMBER AND NAME 2924/SDTS | |
| B. ACCOMPLISHMENTS/PLANNED PROGRAM: | | | |
| | FY 2007 | FY 2008 | FY 2009 |
| Accomplishments/Effort/Subtotal Cost | 8.202 | 9.083 | 9.543 |
| RDT&E Articles Quantity | 0 | 0 | 0 |
| <p>2006: NAVSURFWARCENDIV Port Hueneme, CA completed a two year conversion and installation of LPD 17 equipment. DDG 1000 Multi-Function Radar and element level programs were planned and scheduled. Testing was completed along with the HM&E and Combat System maintenance onboard SDTS.</p> <p>2007: NAVSURFWARCENDIV Port Hueneme, CA will plan, schedule and perform HM&E and CS maintenance onboard SDTS in support of check out and installation and work ups for the testing of LPD 17, MFR and element programs. SDTS will support Probability of Raid Annihilation (Pra) and end to end test efforts for LPD 17 combat system.</p> <p>2008: SDTS priority consists of installing multiple configurations, deinstalling unused equipment, modifying top side and below deck equipment to coincide with appropriate elements and Combat Systems, testing of all systems listed in the Air Warfare Ship Self Defense T&E Enterprise TEMP, and executing according to the Enterprise TEMP. SDTS will also plan, schedule, and perform maintenance onboard EDD 964 for HME, CS and remote control elements in support of such activities.</p> <p>2009: NAVSURFWARCENDIV Port Hueneme, CA will plan, schedule, and perform maintenance on board EDD 964 and continue to support installation of Enterprise Equipment for multiple ship classes (LHDs/CVNs, DDG 1000, and 2 versions of LCS) PHD will also determine the feasibility of multiple configurations in support of the Navy AAW SSD Enterprise Strategy.</p> | | | |
| C. OTHER PROGRAM FUNDING SUMMARY: | | | |
| Not Applicable | | | |
| D. ACQUISITION STRATEGY: | | | |
| This line of accounting is for recurring ship maintenance. | | | |
| E. MAJOR PERFORMERS: | | | |
| NSWC PHD | | | |
| Northrop Grumman | | | |

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| EXHIBIT R-2a, RDT&E PROJECT JUSTIFICATION | | | | | DATE February 2008 | | |
| APPROPRIATION/BUDGET ACTIVITY RDTEN/BA 6 | | PROGRAM ELEMENT NUMBER AND NAME 0605863N/RDT&E SHIP AND AIRCRAFT SUPPORT | | | PROJECT NUMBER AND NAME 3186/Air and Missile Defense Radar | | |
| COST (In Millions) | FY 2007 | FY 2008 | FY 2009 | FY 2010 | FY 2011 | FY 2012 | FY 2013 |
| Project Cost | 0.000 | 104.121 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| RDT&E Articles Qty | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

This project provides Test and Evaluation Enterprise efforts for DDG 1000, LHA 6, CVN 78, and LCS programs. The T&E Enterprise solution integrates Self Defense Test Ship, Probability of Raid Annihilation Test Bed, and lead and operational ship at-sea test events across combat system variants to eliminate duplication and minimize combat system testing across ship classes.

Title of the PU (Air and Missile Defense Radar) is misleading. When funding PU was established, it was mislabeled in the database. Establishment of a new PU name (T&E Enterprise) , with a new title was established as PU 3206 and FY09 and out funding was moved to that line.

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| EXHIBIT R-2a, RDT&E PROJECT JUSTIFICATION | | | DATE February 2008 |
| APPROPRIATION/BUDGET ACTIVITY RDTEN/BA 6 | PROGRAM ELEMENT NUMBER AND NAME 0605863N/RDT&E SHIP AND AIRCRAFT SUPPORT | PROJECT NUMBER AND NAME 3186/Air and Missile Defense Radar | |
| B. ACCOMPLISHMENTS/PLANNED PROGRAM: | | | |
| | FY 2007 | FY 2008 | FY 2009 |
| Accomplishments/Effort/Subtotal Cost | 0.000 | 106.393 | 0.000 |
| RDT&E Articles Quantity | 0 | 0 | 0 |
| <p>2008: This effort will initiate Enterprise Acquisition & Installatiion, Probability of Raid Annihilation Testbed, and Lead and Operational Ship test and evaluation for the Air Warfare, Ship Self Defense Test and Evaluation Enterprise Strategy.</p> <p>C. OTHER PROGRAM FUNDING SUMMARY: Not Applicable</p> <p>D. ACQUISITION STRATEGY: Begin acquisition of DDG1000 and LCS equipment set in FY08.</p> <p>Acquisition of LHA 6 begins in FY09.</p> <p>Acquisition of CVN 21 begins in FY12/13.</p> <p>Acquisition of systems is tailored to each ship class.</p> <p>DDG 1000 equipment will be acquired through a direct contract. LHA 6 components will be acquired through the applicable PEO MPM. LCS equipment will have some acquisition through the PMS 501 and direct on contract.</p> <p>E. MAJOR PERFORMERS: NSWC PHD</p> <p>Northrop Grumman</p> <p>LHA 6, CVN 78, DDG 1000, LCS</p> <p>PEO IWS MPM's</p> | | | |

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| EXHIBIT R-2a, RDT&E PROJECT JUSTIFICATION | | | | | DATE February 2008 | | |
| APPROPRIATION/BUDGET ACTIVITY RDTEN/BA 6 | | PROGRAM ELEMENT NUMBER AND NAME 0605863N/RDT&E SHIP AND AIRCRAFT SUPPORT | | | PROJECT NUMBER AND NAME 3206/T&E Enterprise | | |
| COST (In Millions) | FY 2007 | FY 2008 | FY 2009 | FY 2010 | FY 2011 | FY 2012 | FY 2013 |
| Project Cost | 0.000 | 0.000 | 105.671 | 122.806 | 31.580 | 123.164 | 70.616 |
| RDT&E Articles Qty | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

This project provides Self Defense Test Ship Test and Evaluation Enterprise efforts for DDG 1000, LHA 6, CVN 78, and LCS programs. The T&E Enterprise solution integrates Self Defense Test Ship, Probability of Raid Annihilation Test Bed, and lead and operational ship at-sea test events across combat system variants to eliminate duplication and minimize combat system testing across ship classes.

Title of the PU (Air and Missile Defense Radar) is misleading. When funding PU was established, it was mislabeled in the database. Establishment of a new PU name (T&E Enterprise), with a new title was established as PU 3206 and FY09 and out funding was moved to that line.

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| CLASSIFICATION: | | UNCLASSIFIED | | |
| EXHIBIT R-2a, RDT&E PROJECT JUSTIFICATION | | | | DATE February 2008 |
| APPROPRIATION/BUDGET ACTIVITY RDTEN/BA 6 | PROGRAM ELEMENT NUMBER AND NAME 0605863N/RDT&E SHIP AND AIRCRAFT SUPPORT | PROJECT NUMBER AND NAME 3206/T&E Enterprise | | |
| B. ACCOMPLISHMENTS/PLANNED PROGRAM: | | | | |
| | | FY 2007 | FY 2008 | FY 2009 |
| Accomplishments/Effort/Subtotal Cost | | 0.000 | 0.000 | 105.671 |
| RDT&E Articles Quantity | | 0 | 0 | 0 |
| 2009: Acquisition and Installation of Enterprise Test Equipment on the Self Defense Test Ship. | | | | |
| C. OTHER PROGRAM FUNDING SUMMARY: Not Applicable. | | | | |
| D. ACQUISITION STRATEGY: Begin acquisition of DDG 1000 and LCS equipment set in FY08. Acquisition of LHA 6 begins in FY09. Acquisition of CVN 21 begins in FY12/13. Acquisition of systems is tailored to each ship class. DDG 1000 equipment will be acquired through a direct contract. LHA 6 components will be acquired through the applicable PEO MPM. LCS equipment will have some acquisition through the PMS 501 and direct on contract. | | | | |
| E. MAJOR PERFORMERS: NSWC PHD Cutlass Systems Engineering Northrop Grumman NRL AVW Visitech Point Mugu | | | | |

| EXHIBIT R-2, RDT&E Budget Item Justification | | | | | | DATE: February 2008 | | |
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| APPROPRIATION/BUDGET ACTIVITY RESEARCH DEVELOPMENT TEST & EVALUATION, NAVY / BA-6 | | | | | | R-1 ITEM NOMENCLATURE 0605864N, TEST AND EVALUATION SUPPORT | | |
| COST (\$ in Millions) | FY 2007 | FY 2008 | FY 2009 | FY 2010 | FY 2011 | FY 2012 | FY 2013 | |
| Total PE Cost | 327.886 | 329.026 | 356.254 | 356.930 | 363.315 | 370.525 | 377.772 | |
| 0541 AUTECH | 52.834 | 53.088 | 55.429 | 57.327 | 58.715 | 59.819 | 60.965 | |
| 0566 NAVAIR ENVIRONMENTAL COMPL | 3.591 | 3.623 | 3.890 | 4.065 | 4.173 | 4.249 | 4.325 | |
| 0653 NAWC WEAPONS | 138.651 | 140.557 | 153.493 | 153.246 | 156.435 | 159.730 | 162.775 | |
| 0654 NAWC AIRCRAFT | 100.735 | 100.308 | 110.174 | 107.777 | 108.729 | 110.847 | 113.174 | |
| 2921 PACIFIC MISSILE RANGE FACILITY | 5.202 | 4.914 | 5.017 | 5.140 | 5.228 | 5.330 | 5.438 | |
| 2922 MRTFB MAINT AND REPAIR | 14.608 | 14.658 | 15.804 | 16.532 | 16.963 | 17.259 | 17.572 | |
| 3029 T&E POLICY SUPPORT | .651 | .661 | .703 | .753 | .778 | .784 | .791 | |
| 3154 NANOOSE AND DABOB | 11.614 | 11.217 | 11.744 | 12.090 | 12.294 | 12.507 | 12.732 | |

(U) 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 AUTECH), Andros Island, Bahamas; the Environmental Compliance Program; Naval Air Warfare Center Weapons Division (NAVAIRWARCENMPNDIV), 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 NAVAIRWARCENMPNDIV 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.

B. PROGRAM CHANGE SUMMARY

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|------------------------------|---------|---------|---------|
| Funding: | FY 2007 | FY 2008 | FY 2009 |
| Previous President's Budget: | 327.038 | 336.130 | 351.430 |
| Current BES Budget: | 327.886 | 329.026 | 356.254 |
| Total Adjustments | 0.848 | -7.104 | 4.824 |

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|--|--------|--------|--------|
| Summary of Adjustments | | | |
| Congressional Reductions | | | |
| Congressional Rescissions | | | |
| Congressional Undistributed Reductions | -0.402 | -2.136 | |
| Congressional Increases | | | |
| Economic Assumptions | | | -2.050 |
| Miscellaneous Adjustments | 1.250 | -4.968 | 6.874 |
| Subtotal | 0.848 | -7.104 | 4.824 |

Schedule:

Project Unit 0541. Not Applicable.
 Project Unit 0566. Not Applicable.
 Project Unit 0653. Not Applicable.
 Project Unit 0654. Not Applicable.
 Project Unit 2921. Not Applicable.
 Project Unit 2922. Not Applicable.
 Project Unit 3029. Not Applicable.
 Project Unit 3154. Not Applicable.

Technical:

Project Unit 0541. Not Applicable.
 Project Unit 0566. Not Applicable.
 Project Unit 0653. Not Applicable.
 Project Unit 0654. Not Applicable.
 Project Unit 2921. Not Applicable.
 Project Unit 2922. Not Applicable.
 Project Unit 3029. Not Applicable.
 Project Unit 3154. Not Applicable.

| EXHIBIT R-2a, RDT&E Project Justification | | | | | | DATE: | | | | | | |
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| APPROPRIATION/BUDGET ACTIVITY RDT&E,N / BA-6 | | | | | | PROGRAM ELEMENT NUMBER AND NAME 0605864N, TEST AND EVALUATION SUPPORT | | | PROJECT NUMBER AND NAME 0541, AUTECH | | | |
| COST (\$ in Millions) | | | | | | FY 2007 | FY 2008 | FY 2009 | FY 2010 | FY 2011 | FY 2012 | FY 2013 |
| 0541 AUTECH | | | | | | 52.834 | 53.088 | 55.429 | 57.327 | 58.715 | 59.819 | 60.965 |
| 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 (AUTECH) 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 AUTECH Program Office is headquartered at Newport, RI. AUTECH'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. AUTECH aircraft make scheduled daily flights between West Palm Beach and Andros Town Airport.

AUTECH 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.

AUTECH 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 AUTECH 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 PROGRAM:

| Atlantic Undersea Test and Eval Ctr Facility | FY 2007 | FY 2008 | FY 2009 |
|--|---------|---------|---------|
| Accomplishments / Effort / Sub-total Cost | 41.834 | 42.038 | 44.379 |
| RDT&E Articles Qty | | | |

AUTECH 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 AUTECH 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.

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| EXHIBIT R-2a, RDT&E Project Justification | | DATE: February 2008 |
| APPROPRIATION/BUDGET ACTIVITY RDT&E,N / BA-6 | PROGRAM ELEMENT NUMBER AND NAME 0605864N, TEST AND EVALUATION SUPPORT | PROJECT NUMBER AND NAME 0541, AUTECH |

| Bahamian Lease | FY 2007 | FY 2008 | FY 2009 |
|---|---------|---------|---------|
| Accomplishments / Effort / Sub-total Cost | 11.000 | 11.050 | 11.050 |
| RDT&E Articles Qty | | | |
| | | | |

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

C. OTHER PROGRAM FUNDING SUMMARY: Not Applicable.

| <u>List Item No. & Name</u> | <u>FY 2007</u> | <u>FY 2008</u> | <u>FY 2009</u> | <u>FY 2010</u> | <u>FY 2011</u> | <u>FY 2012</u> | <u>FY 2013</u> | <u>To Complete</u> | <u>Total Cost</u> |
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D. ACQUISITION STRATEGY: Not Applicable.

| EXHIBIT R-2a, RDT&E Project Justification | | | | | | DATE: | | | | | | |
|---|--|--|--|--|--|--|---------|---------|---|---------|---------|---------|
| APPROPRIATION/BUDGET ACTIVITY RDT&E,N / BA-6 | | | | | | PROGRAM ELEMENT NUMBER AND NAME 0605864N, TEST AND EVALUATION SUPPORT | | | PROJECT NUMBER AND NAME 0566, NAVAIR ENVIRONMENTAL COMPL | | | |
| COST (\$ in Millions) | | | | | | FY 2007 | FY 2008 | FY 2009 | FY 2010 | FY 2011 | FY 2012 | FY 2013 |
| 0566 NAVAIR ENVIRONMENTAL COMPL | | | | | | 3.591 | 3.623 | 3.890 | 4.065 | 4.173 | 4.249 | 4.325 |
| 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:

| Environmental Compliance | FY 2007 | FY 2008 | FY 2009 |
|---|---------|---------|---------|
| Accomplishments / Effort / Sub-total Cost | 3.591 | 3.623 | 3.890 |
| 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 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.

C. OTHER PROGRAM FUNDING SUMMARY: Not Applicable.

| List Item No. & Name | FY 2007 | FY 2008 | FY 2009 | FY 2010 | FY 2011 | FY 2012 | FY 2013 | To Complete | Total Cost |
|----------------------|---------|---------|---------|---------|---------|---------|---------|-------------|------------|
| | | | | | | | | | |

D. ACQUISITION STRATEGY: Not Applicable.

| EXHIBIT R-2a, RDT&E Project Justification | | | | | | DATE: | | | | | | |
|---|--|--|--|--|--|--|---------|---------|---|---------|---------|---------|
| APPROPRIATION/BUDGET ACTIVITY RDT&E,N / BA-6 | | | | | | PROGRAM ELEMENT NUMBER AND NAME 0605864N, TEST AND EVALUATION SUPPORT | | | PROJECT NUMBER AND NAME 0653, NAWC WEAPONS | | | |
| COST (\$ in Millions) | | | | | | FY 2007 | FY 2008 | FY 2009 | FY 2010 | FY 2011 | FY 2012 | FY 2013 |
| 0653 NAWC WEAPONS | | | | | | 138.651 | 140.557 | 153.493 | 153.246 | 156.435 | 159.730 | 162.775 |
| 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.

B. ACCOMPLISHMENTS / PLANNED PROGRAM:

| Pacific Ranges | FY 2007 | FY 2008 | FY 2009 |
|---|---------|---------|---------|
| Accomplishments / Effort / Sub-total Cost | 66.890 | 65.335 | 67.400 |
| 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.

| Navy Test Wing Pacific | FY 2007 | FY 2008 | FY 2009 |
|---|---------|---------|---------|
| Accomplishments / Effort / Sub-total Cost | 18.855 | 23.714 | 25.234 |
| 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.

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|---|--|---|
| EXHIBIT R-2a, RDT&E Project Justification | | DATE: February 2008 |
| APPROPRIATION/BUDGET ACTIVITY RDT&E,N / BA-6 | PROGRAM ELEMENT NUMBER AND NAME 0605864N, TEST AND EVALUATION SUPPORT | PROJECT NUMBER AND NAME 0653, NAWC WEAPONS |

| Threat/Target Systems | FY 2007 | FY 2008 | FY 2009 |
|---|---------|---------|---------|
| Accomplishments / Effort / Sub-total Cost | 12.221 | 11.280 | 11.998 |
| 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.

| Test and Evaluation Ordnance | FY 2007 | FY 2008 | FY 2009 |
|---|---------|---------|---------|
| Accomplishments / Effort / Sub-total Cost | 3.305 | 3.271 | 3.342 |
| 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.

| Staff | FY 2007 | FY 2008 | FY 2009 |
|---|---------|---------|---------|
| Accomplishments / Effort / Sub-total Cost | 37.380 | 36.957 | 45.519 |
| 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.

C. OTHER PROGRAM FUNDING SUMMARY: Not Applicable.

| List Item No. & Name | FY 2007 | FY 2008 | FY 2009 | FY 2010 | FY 2011 | FY 2012 | FY 2013 | To Complete | Total Cost |
|----------------------|---------|---------|---------|---------|---------|---------|---------|-------------|------------|
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D. ACQUISITION STRATEGY: Not Applicable.

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| EXHIBIT R-2a, RDT&E Project Justification | | | | | | DATE: February 2008 | | |
| APPROPRIATION/BUDGET ACTIVITY RDT&E,N / BA-6 | | PROGRAM ELEMENT NUMBER AND NAME 0605864N, TEST AND EVALUATION SUPPORT | | | PROJECT NUMBER AND NAME 0654, NAWC AIRCRAFT | | | |
| COST (\$ in Millions) | | FY 2007 | FY 2008 | FY 2009 | FY 2010 | FY 2011 | FY 2012 | FY 2013 |
| 0654 NAWC AIRCRAFT | | 100.735 | 100.308 | 110.174 | 107.777 | 108.729 | 110.847 | 113.174 |
| 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.

B. ACCOMPLISHMENTS / PLANNED PROGRAM:

| | | | | |
|---|--|---------|---------|---------|
| Atlantic Ranges | | FY 2007 | FY 2008 | FY 2009 |
| Accomplishments / Effort / Sub-total Cost | | 24.433 | 23.709 | 24.230 |
| 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.

Electromagnetic Environmental Effects (E-Cubed) and Air Combat Environment Test and Evaluation Facility (ACETEF)

| | | | | |
|---|--|---------|---------|---------|
| | | FY 2007 | FY 2008 | FY 2009 |
| Accomplishments / Effort / Sub-total Cost | | 20.737 | 21.439 | 21.910 |
| 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.

| | | | | |
|---|--|---------|---------|---------|
| Propulsion Systems Test Facility | | FY 2007 | FY 2008 | FY 2009 |
| Accomplishments / Effort / Sub-total Cost | | 4.183 | 4.500 | 4.599 |
| 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.

| | | |
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| EXHIBIT R-2a, RDT&E Project Justification | | DATE: February 2008 |
| APPROPRIATION/BUDGET ACTIVITY RDT&E,N / BA-6 | PROGRAM ELEMENT NUMBER AND NAME 0605864N, TEST AND EVALUATION SUPPORT | PROJECT NUMBER AND NAME 0654, NAWC AIRCRAFT |

| Threat/Target Systems | FY 2007 | FY 2008 | FY 2009 |
|---|---------|---------|---------|
| Accomplishments / Effort / Sub-total Cost | 1.712 | 1.441 | 1.472 |
| 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.

| Naval Test Wing Atlantic | FY 2007 | FY 2008 | FY 2009 |
|---|---------|---------|---------|
| Accomplishments / Effort / Sub-total Cost | 20.949 | 22.685 | 24.952 |
| 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.

| Staff | FY 2007 | FY 2008 | FY 2009 |
|---|---------|---------|---------|
| Accomplishments / Effort / Sub-total Cost | 28.721 | 26.534 | 33.011 |
| 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.

C. OTHER PROGRAM FUNDING SUMMARY: Not Applicable.

| List Item No. & Name | FY 2007 | FY 2008 | FY 2009 | FY 2010 | FY 2011 | FY 2012 | FY 2013 | To Complete | Total Cost |
|----------------------|---------|---------|---------|---------|---------|---------|---------|-------------|------------|
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D. ACQUISITION STRATEGY: Not Applicable.

| EXHIBIT R-2a, RDT&E Project Justification | | | | | | DATE: | | | | | | |
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| APPROPRIATION/BUDGET ACTIVITY RDT&E,N / BA-6 | | | | | | PROGRAM ELEMENT NUMBER AND NAME 0605864N, TEST AND EVALUATION SUPPORT | | PROJECT NUMBER AND NAME 2921, PACIFIC MISSILIE RANGE FACILITY | | | | |
| COST (\$ in Millions) | | | | | | FY 2007 | FY 2008 | FY 2009 | FY 2010 | FY 2011 | FY 2012 | FY 2013 |
| 2921 PACIFIC MISSILIE RANGE FACILITY | | | | | | 5.202 | 4.914 | 5.017 | 5.140 | 5.228 | 5.330 | 5.438 |
| 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:

| PMRF Test and Evaluation Assets | FY 2007 | FY 2008 | FY 2009 |
|---|---------|---------|---------|
| Accomplishments / Effort / Sub-total Cost | 5.202 | 4.914 | 5.017 |
| 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.

C. OTHER PROGRAM FUNDING SUMMARY: Not Applicable.

| List Item No. & Name | FY 2007 | FY 2008 | FY 2009 | FY 2010 | FY 2011 | FY 2012 | FY 2013 | To Complete | Total Cost |
|----------------------|---------|---------|---------|---------|---------|---------|---------|-------------|------------|
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D. ACQUISITION STRATEGY: Not Applicable.

| EXHIBIT R-2a, RDT&E Project Justification | | | | | | DATE: | | | | | | |
|---|--|--|--|--|--|--|---------|---|---------|---------|---------|---------|
| APPROPRIATION/BUDGET ACTIVITY RDT&E,N / BA-6 | | | | | | PROGRAM ELEMENT NUMBER AND NAME 0605864N, TEST AND EVALUATION SUPPORT | | PROJECT NUMBER AND NAME 2922, MRTFB MAINT AND REPAIR | | | | |
| COST (\$ in Millions) | | | | | | FY 2007 | FY 2008 | FY 2009 | FY 2010 | FY 2011 | FY 2012 | FY 2013 |
| 2922 MRTFB MAINT AND REPAIR | | | | | | 14.608 | 14.658 | 15.804 | 16.532 | 16.963 | 17.259 | 17.572 |
| 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:

| Facility Maintenance and Repair | FY 2007 | FY 2008 | FY 2009 |
|---|---------|---------|---------|
| Accomplishments / Effort / Sub-total Cost | 14.608 | 14.658 | 15.804 |
| 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.

C. OTHER PROGRAM FUNDING SUMMARY: Not Applicable.

| <u>List Item No. & Name</u> | <u>FY 2007</u> | <u>FY 2008</u> | <u>FY 2009</u> | <u>FY 2010</u> | <u>FY 2011</u> | <u>FY 2012</u> | <u>FY 2013</u> | <u>To Complete</u> | <u>Total Cost</u> |
|---------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|--------------------|-------------------|
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D. ACQUISITION STRATEGY: Not Applicable.

| EXHIBIT R-2a, RDT&E Project Justification | | | | | | DATE: February 2008 | | |
|---|--|--|---------|---------|---|---------------------|---------|---------|
| APPROPRIATION/BUDGET ACTIVITY RDT&E,N / BA-6 | | PROGRAM ELEMENT NUMBER AND NAME 0605864N, TEST AND EVALUATION SUPPORT | | | PROJECT NUMBER AND NAME 3029, T&E POLICY SUPPORT | | | |
| COST (\$ in Millions) | | FY 2007 | FY 2008 | FY 2009 | FY 2010 | FY 2011 | FY 2012 | FY 2013 |
| 3029 T&E POLICY SUPPORT | | .651 | .661 | .703 | .753 | .778 | .784 | .791 |
| 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:

| T&E Policy & Requirements Validation Support | FY 2007 | FY 2008 | FY 2009 |
|--|---------|---------|---------|
| Accomplishments / Effort / Sub-total Cost | .651 | .661 | .703 |
| RDT&E Articles Qty | | | |

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

C. OTHER PROGRAM FUNDING SUMMARY: Not Applicable.

| List Item No. & Name | FY 2007 | FY 2008 | FY 2009 | FY 2010 | FY 2011 | FY 2012 | FY 2013 | To Complete | Total Cost |
|----------------------|---------|---------|---------|---------|---------|---------|---------|-------------|------------|
| | | | | | | | | | |

D. ACQUISITION STRATEGY: Not Applicable.

| EXHIBIT R-2a, RDT&E Project Justification | | | | | | DATE: | | | | | | |
|---|--|--|--|--|--|--|---------|---------|--|---------|---------|---------|
| APPROPRIATION/BUDGET ACTIVITY RDT&E,N / BA-6 | | | | | | PROGRAM ELEMENT NUMBER AND NAME 0605864N, TEST AND EVALUATION SUPPORT | | | PROJECT NUMBER AND NAME 3154, NANOOSE AND DABOB | | | |
| COST (\$ in Millions) | | | | | | FY 2007 | FY 2008 | FY 2009 | FY 2010 | FY 2011 | FY 2012 | FY 2013 |
| 3154 NANOOSE AND DABOB | | | | | | 11.614 | 11.217 | 11.744 | 12.090 | 12.294 | 12.507 | 12.732 |
| 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.

B. ACCOMPLISHMENTS / PLANNED PROGRAM:

| Undersea Ranges | FY 2007 | FY 2008 | FY 2009 |
|---|---------|---------|---------|
| Accomplishments / Effort / Sub-total Cost | 10.223 | 9.675 | 10.155 |
| 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.

| Canadian Memorandum of Understanding (MOU) | FY 2007 | FY 2008 | FY 2009 |
|--|---------|---------|---------|
| Accomplishments / Effort / Sub-total Cost | 1.391 | 1.542 | 1.589 |
| 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.

C. OTHER PROGRAM FUNDING SUMMARY: Not Applicable.

| List Item No. & Name | FY 2007 | FY 2008 | FY 2009 | FY 2010 | FY 2011 | FY 2012 | FY 2013 | To Complete | Total Cost |
|----------------------|---------|---------|---------|---------|---------|---------|---------|-------------|------------|
| | | | | | | | | | |

D. ACQUISITION STRATEGY: Not Applicable.