

UNCLASSIFIED

FY 2009 RDT&E,N BUDGET ITEM JUSTIFICATION SHEET
Exhibit R-2

DATE: February 2008

BUDGET ACTIVITY: 06
PROGRAM ELEMENT: 0605155N
PROGRAM ELEMENT TITLE: FLEET TACTICAL DEVELOPMENT AND EVALUATION

COST: (Dollars in Thousands)

Project Number & Title	FY 2007 Actual	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate
Total PE	2,526	0	0	0	0	0	0
0151 INTERTYPE TACT D&E	2,526	0	0	0	0	0	0

A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION: This program element develops and updates tactics, techniques, and procedures (TTP) for new and existing weapons systems that directly improve the fleet's use of the Navy's weapon systems. Due to the evolving force structures and changing threat scenarios of 21st century warfare, the Navy faces a growing and continuous need to update fleet operational tactics. Through technical and analytical evaluations of fielded weapon systems, the Fleet Tactical Development and Evaluation (TAC D&E) Program funds the development and updating of fleet tactical procedures to better employ current and new weapon systems.

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B. PROGRAM CHANGE SUMMARY:

	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
FY 2008/FY 2009 President's Budget Submission	2,585	0	0
SBIR Assessment	-59	0	0
FY 2009 President's Budget Submission	2,526	0	0

PROGRAM CHANGE SUMMARY EXPLANATION:

Technical: Not applicable.

Schedule: Not applicable.

C. OTHER PROGRAM FUNDING SUMMARY:

Not applicable.

D. ACQUISITION STRATEGY:

E. PERFORMANCE METRICS:

Tactical Development and Evaluation Projects are submitted by fleet commands and Warfare Centers of Excellence to the Numbered Fleet Commanders on an annual basis. The Numbered Fleets vet and prioritize shortfalls for Tactical Memorandum (TACMEMO) development. Once prioritized by the Expeditionary Strike Group (ESG), Navy Warfare Development Command (NWDC) competes each TAC D&E project through qualified subject matter expert (SME) contractors or Navy laboratories using performance based contracting. This process ensures the best value by targeting industry SMEs for short-term contracts while minimizing unnecessary or duplicative government infrastructure. Milestones are based on completed TACMEMOs and their use in fleet/unit operations. Currently we have 100% completion rate of projects funded over the last 5 years. Additional milestones are based on validation of TACMEMOs and their incorporation into operational doctrine.

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PROGRAM ELEMENT: 0605155N

PROJECT NUMBER: 0151

PROGRAM ELEMENT TITLE: FLEET TACTICAL DEVELOPMENT AND EVALUATION

PROJECT TITLE: INTERTYPE TACT D&E

COST: (Dollars in Thousands)

Project Number & Title	FY 2007 Actual	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate
0151 INTERTYPE TACT D&E	2,526	0	0	0	0	0	0

A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION: This project develops and updates TTPs for new and existing weapons systems that directly improve the fleet's use of the Navy's weapon systems. Due to the evolving force structures and changing threat scenarios of 21st century warfare, the Navy faces a growing and continuous need to update fleet operational tactics. Through technical and analytical evaluations of fielded weapon systems, the Fleet TAC D&E Program funds the development and updating of fleet tactical procedures to better employ current and new weapon systems.

B. ACCOMPLISHMENTS/PLANNED PROGRAM:

	FY 2007	FY 2008	FY 2009
CHANGING THREAT SCENARIOS TO IMPROVE AND MEASURE FORCE READINESS	430	0	0

The current asymmetric mode of warfare, as evidenced by the attacks on USS Cole and other U.S. interests, requires a detailed look at development of tactics and procedures to provide Naval forces protection, afloat and ashore. These projects provide a tactical advantage to Naval forces enabling continuous operation from an expanded and secure maneuver area on both land and sea. Additionally, these TTPs provide the means to accomplish this advantage thereby assuring freedom of access throughout the battle space.

FY 2007 Accomplishments:

- Completed TTP for Unmanned Air Vehicle (UAV) into Close Air Support (CAS).
- Completed TTP for Threat Specific SSK Diesel Submarine Tactical Memorandum (TACMEMO).
- Completed TTP for Submarine Mast Radar Vulnerability.
- Completed TTP for MK 234 NULKA Protection in vicinity of High Value Units (HVU).

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PROGRAM ELEMENT TITLE: FLEET TACTICAL DEVELOPMENT AND EVALUATION

PROJECT TITLE: INTERTYPE TACT D&E

- Developed TTP for Ship Stationing Tactical Decision Aid.
- Developed TTP to employ Air related Nontraditional Intelligence, Surveillance and Reconnaissance (NTISR).
- Developed TTP to maximize Mine Hunting Sonar's.
- Developed TTP to develop tactics for Jamming Coordination and Control.
- Established TTP from a detailed analysis of multiple target motion analysis (TMA) algorithms which are currently utilized to support submarine tactical and sonar systems.
- Established TTP for Integrating Naval Special Warfare and Information Operations.

FY 2008 Plans:

Program Terminated

	FY 2007	FY 2008	FY 2009
NEWLY EVOLVING FORCE STRUCTURES	993	0	0

The TTPs being developed around evolving force structures provide the operational construct and architectural framework for Naval Warfare in the Information Age. They integrate warriors, sensors, networks, command and control, platforms and weapons into a distributed combat system scalable across the spectrum of conflict from seabed to space and sea to land.

FY 2007 Accomplishments:

- Completed TTP for Cross Track Error and Channel Width Determination.
- Completed TTP for Maritime Interdiction Operations (MIO) Crisis Response Plan.
- Completed TTP for Integrated Hard Kill and Soft Kill Planning.
- Completed TTP for P-3C Aircraft Diesel Anti-Submarine Warfare (ASW) Tactics and Performance Validation.
- Developed TTP to Optimize Joint Forces Maritime Component Commander Airspace Control Authority.
- Developed TTP for SSN (Nuclear Submarine) Mine Susceptibility.
- Developed TTP to determine effectiveness of precision ammunition from a MK45 5"54 Light Weight Gun Mount, against small homing Unmanned Air Vehicles (UAVs) in vertical terminal dives.
- Developed TTP for Information Operations Tactics across all Warfare Areas.

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- Developed TTP for Fusing Electronic Warfare (EW) and Automatic Identification System (AIS) Data to Enhance Maritime Domain Awareness.
- Developed TTP for Coordinated Airborne EW in a Campaign Scenario.
- Developed TTP to optimize against FA-18 Infrared-Red (IR) Vulnerabilities and Counter-Attack.

FY 2008 Plans:

Program Terminated

	FY 2007	FY 2008	FY 2009
NEW AND EXISTING WEAPON SYSTEMS EMPLOYMENT	1,103	0	0

The emerging development and updating of advanced sensors and weapons systems requires continuous revision and promulgation of advanced tactics and procedures to assure that the Navy can project decisive and persistent offensive power anywhere in the world. TACMEMO's, i.e. TTP, that are developed maximize the Navy's Sea Strike capability through Network Centric Warfare and Navy Fires Networks.

FY 2007 Accomplishments:

- Completed TTP for Standoff Land Attack Missile Expanded Response (SLAM-ER) Platform Specific Surface Warfare (SUW) Tactics.
- Completed TTP for SLAM-ER call for fires.
- Completed TTP MK-50/54 Torpedo Surface Mode Modeling.
- Completed TTP MK-50/54 Torpedo Re-Attack Guidance.
- Completed TTP for Threat Specific Torpedo Evasion TACMEMO.
- Developed TTP for Air ASW Tactics to counter sprint and drift Submarines.
- Developed TTP to employ MK 54 Lightweight Hybrid Torpedo.
- Developed TTP for the Analysis of preferred Aircraft placement of MK 54 Torpedoes.
- Developed TTP to conduct Reevaluation of Mine Warfare Bottom Types employment.
- Developed TTP for Tactical use of Kingfisher to detect torpedoes, low Doppler (hovering/bottomed) and 'midget' submarines.

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- Established TTP for Torpedo Selection and Employment in a specified geographic area to support the current Operations Plan.
- Established TTP for Launch Platform Mission Planning (LPMP) Supporting Time Sensitive Targeting (TST).
- Established TTP for preemptive launch of IR decoys in a hostile landing zone.

FY 2008 Plans:

Program Terminated

C. OTHER PROGRAM FUNDING SUMMARY - NAVY RELATED RDT&E:

Not applicable.

OTHER PROGRAM FUNDING SUMMARY - NON-NAVY RELATED RDT&E:

Not applicable.

D. ACQUISITION STRATEGY:

Not applicable.