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FY 2007 RDT&E,N BUDGET ITEM JUSTIFICATION SHEET
Exhibit R-2

DATE: Feb 2006

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

COST: (Dollars in Thousands)

Project Number & Title	FY 2005 Actual	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate
Total PE	2,261	2,233	2,595	2,689	2,747	2,813	2,887

0151 INTERTYPE TACTICAL DEVELOPMENT AND EVALUATION							
	2,261	2,233	2,595	2,689	2,747	2,813	2,887

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 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, 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 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>
FY 2006 President's Budget Submission	2,290	2,266	2,740
Congressional Undistributed Reductions/Rescissions	-2	-33	0
Functional Realignment for OPNAV Program Support Costs	0	0	-41
FY 2005 SBIR	-28	0	0
Program Adjustments	1	0	-137
Rate Adjustments	0	0	33
FY 2007 President's Budget Submission	2,261	2,233	2,595

PROGRAM CHANGE SUMMARY EXPLANATION:

Technical: Not applicable.

Schedule: Not applicable.

C. OTHER PROGRAM FUNDING SUMMARY:

Not applicable.

D. ACQUISITION STRATEGY:

Not applicable.

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

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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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PROJECT NUMBER: 0151

PROGRAM ELEMENT TITLE: FLEET TACTICAL DEVELOPMENT AND EVALUATION

PROJECT TITLE: INTERTYPE TACTICAL DEVELOPMENT AND EVALUATION

COST: (Dollars in Thousands)

Project Number & Title	FY 2005 Actual	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate
0151 INTERTYPE TACTICAL DEVELOPMENT AND EVALUATION	2,261	2,233	2,595	2,689	2,747	2,813	2,887

A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION: This project develops and updates TTPs for new and existing weapons systems that directly improve the fleet 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 2005	FY 2006	FY 2007
CHANGING THREAT SCENARIOS TO IMPROVE AND MEASURE FORCE READINESS	307	687	430

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 2005 Accomplishments:

- Developed TTP for Account For Variance in Contact Localization Accuracy.
- Developed TTP for Maritime Tactical Development for Armed Unmanned Combat Vehicle's (UCV).

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FY 2006 Plans:

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

FY 2007 Plans:

- Develop TTP for defense against Small Boat Attacks using Armed Unmanned Surface Vehicles (USV).
- Develop TTP to defend Navy Shore establishments against terrorist attacks.
- Develop TTP to defend Naval Port facilities against terrorist attacks.
- Develop TTP to defend Naval Vessels against attack when visiting foreign ports.
- Establish TTP for Multi-Amphibious Assault Ship (LHA/LHD) Tactics for Marine Expeditionary Force (MEF).
- Establish TTP for Helicopter Intercept of Low Slow Flyer.

	FY 2005	FY 2006	FY 2007
NEWLY EVOLVING FORCE STRUCTURES	787	685	1,024

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 2005 Accomplishments:

- Developed TTP for Long Range Acoustic Devices (LADS).
- Developed TTP for Operational Tactics for the Command/Control Radar Aircraft (E-2C) for an Expeditionary Environment.
- Developed TTP for Tactical Employment of a Wireless Local Area Network (LAN) for Maritime Interdiction Ops (MIO).
- Developed TTP for Red Force Counter Exploitation.
- Developed TTP for Non-Kinetic Fires and Targeting.
- Developed TTP for Diesel Submarine (SSK) Tactical Guidance.

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- Developed TTP for Counter Intelligence, Surveillance, Reconnaissance and Targeting (ISRT) Tactics in the littoral.
- Developed TTP for Attack Criteria Utilizing Torpedo Decision Tree.

FY 2006 Plans:

- Develop TTP for Cross Track Error and Channel Width Determination.
- Develop TTP for Maritime Interdiction Operations (MIO) Crisis Response Plan.
- Develop TTP for Integrated Hard Kill and Soft Kill Planning.
- Develop TTP for P-3C Aircraft Diesel Anti-Submarine Warfare (ASW) Tactics and Performance Validation.

FY 2007 Plans:

- Develop TTP to Optimize Tactical Advantage in the littoral through Counter-Surveillance.
- Develop TTP for Coastal Mine Hunter (MHC)/MCM Survivability Data.
- Develop TTP for SH-60/S-3B Coordinated Covert "QUICK STRIKE" Against Diesel Submarines.
- Develop TTP for Jamming Coordination and Control of Comms Within the Amphibious Assault Area.
- Develop TTP for LONG-RANGE Advance Capability (ADCAP) Employment.
- Develop TTP for Harpoon Missile Exercise Safety Study.
- Develop TTP for Maritime Information Operations/Information Warfare (IO/IW) Support to Homeland Security.

	FY 2005	FY 2006	FY 2007
NEW AND EXISTING WEAPON SYSTEMS EMPLOYMENT	1,167	861	1,141

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 2005 Accomplishments:

- Developed TTP for S-3 Minus Airwing.
- Developed TTP for Multi-Functional Information Distribution System (MIDS) in a Joint Air-to-Ground Arena.
- Developed TTP for JDAM Target of Opportunity (TOO) Tactics.

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- Developed TTP for Tactical Tomahawk/Third Party Targeting.
- Developed TTP for Multi-Platform Coordinated Anti-Surface Warfare Tactics.
- Developed TTP for Helicopter-Based Electro-Optical Recognition System.

FY 2006 Plans:

- Develop TTP for SLAM-ER Platform Specific Surface Warfare (SUW) Tactics.
- Develop TTP for Standoff Land Attack Missile Expanded Response (SLAM-ER) call for fires.
- Develop TTP MK-50/54 Torpedo Surface Mode Modeling.
- Develop TTP MK-50/54 Torpedo Re-Attack Guidance.
- Develop TTP for Threat Specific Torpedo Evasion TACMEMO.

FY 2007 Plans:

- Develop TTP for attacking Time Critical Targets using emergent target mensuration systems.
- Develop TTP to define effectiveness of EA-6B Jamming on Anti-Ship Missiles and proper employment of such systems.
- Develop TTP for employment of Coastal (MHC) Dyad Influence Mine Sweeping System.
- Develop TTP for employment of the P-3 in a naval surface fires supporting role.
- Develop TTP for employment of E-2C in an overland surface detection and tracking role.
- Establish TTP for Torpedo Selection and Employment in a specified geographic area to support the current Operations Plan.
- Establish TTP for MCM Reconnaissance Tactics.
- Establish TTP for preemptive launch of IR decoys in a hostile landing zone.

C. OTHER PROGRAM FUNDING SUMMARY:

Not applicable.

D. ACQUISITION STRATEGY:

Not applicable.