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FY 2005 RDT&E,N BUDGET ITEM JUSTIFICATION SHEET
Exhibit R-2

DATE: Feb 2004

BA: 06 PROGRAM ELEMENT: 0605155N
PROGRAM ELEMENT TITLE: Fleet Tactical Development

COST: (Dollars in Thousands)

Project	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009
Number Actual Estimate Estimate Estimate Estimate Estimate Estimate							
& Title							
0151 INTERTYPE TAC D&E							
	2,639	1,984	2,338	2,390	2,883	2,934	2,990
Totals	2,639	1,984	2,338	2,390	2,883	2,934	2,990

A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION: This project supports all Naval warfare task areas and provides technical and analytical support to the fleet operating forces to develop and evaluate tactics for newly evolving force structures, new and existing weapon system employment, and changing threat scenarios to improve and measure force readiness.

PROGRAM CHANGE SUMMARY:

	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>
FY 2004-2005 President's Budget Submission	2,707	2,006	2,348
Cong. Rescissions/Adjustments/Undist.Reductions	0	-22	0
Execution Adjustments	-26	0	0
Inflation Savings	0	0	-7
Rate Adjustments	0	0	-3
SBIR Assessment	-42	0	0
FY 2005 President's Budget Submission	2,639	1,984	2,338

PROGRAM CHANGE SUMMARY EXPLANATION:

Technical: Not applicable.
Schedule: Not applicable.

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BA: 06 PROGRAM ELEMENT: 0605155N PROGRAM ELEMENT TITLE: Fleet Tactical Development
PROJECT NUMBER: 0151 PROJECT TITLE: INTERTYPE TAC D&E

COST: (Dollars in Thousands)

Project	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009
Number	Actual	Estimate	Estimate	Estimate	Estimate	Estimate	Estimate
& Title							

0151 INTERTYPE TAC D&E							
	2,639	1,984	2,338	2,390	2,883	2,934	2,990

A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION: This project supports all Naval warfare task areas and provides technical and analytical support to the fleet operating forces to develop and evaluate tactics for newly evolving force structures, new and existing weapon system employment, and changing threat scenarios to improve and measure force readiness.

B. ACCOMPLISHMENTS/PLANNED PROGRAM:

	FY 2003	FY 2004	FY 2005
Changing Threat Scenarios to Improve and Measure Force Readiness	1,100	567	321

The current asymmetric mode of warfare, as evidenced by the attacks on USS Cole and other US interests, requires a detailed look and development of tactics and procedures to provide Naval forces protection, afloat and ashore. These projects provide that tactical advantage to Naval forces for operating continuously from an expanded and secure maneuver area on both land and sea. Additionally, these tactics, techniques and procedures provide the means to do that and thus assure freedom of access throughout the battle space.

FY 2003 Accomplishments:

- Developed Tactics, Techniques and Procedures (TTP) to formalize procedures for AEGIS surface combatants performing High Value Airborne Asset Protection (HVAAP).
- Developed TTP for the use of Thermal Imaging Sensor Systems (TISS) in counter drug operations.
- Developed TTP for Submarine Mine Vulnerability.
- Initiate development of TTP for Mine Counter Measures (MCM) in Homeland Defense.
- Developed TTP for Amphibious Ready Groups (ARGs) to conduct long range raids for inserting Marines ahead of the main landing force.
- Developed TTP for evaluating the validity of the assault lane width for Amphibious Assault Craft working in a mined environment.

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- Developed TTP for Explosive Ordnance Disposal (EOD) and Very Shallow Water (VSW) diver's susceptibility to exploited foreign mines.

FY 2004 Plans:

- Develop TTP to optimize Amphibious Assault Craft Lane Width in a Mined Environment.
- Continue to develop TTP for MCM Operations in Homeland Defense.
- Develop TTP for Ballistic Missile Submarine Nuclear (SSBN) Minefield Penetration Tactics.
- Develop TTP for Amphibious Assault Ship (General Purpose)/Amphibious Assault Ship (Multipurpose), (LHA/LHD) Air Control Tactics.
- Develop TTP for Amphibious Landing Craft Control.

FY 2005 Plans:

- Develop TTP for EOD and VSW Diver Susceptibility.
- Develop TTP for Organic Mine Counter-Measures (OMCM) helicopters assigned to ARGs.
- Develop TTP for utilization of Mine Warfare and Environmental Decision Aid Library (Medal) to the Advance Force Commander.

	FY 2003	FY 2004	FY 2005
Newly Evolving Force Structures	299	765	1,201

The tactics, techniques and procedures 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 2003 Accomplishments:

- Developed TTP to retrograde Marine forces in a Chemical/Biological (CHEM/BIO) Environment.
- Developed TTP for Multi Aircraft Carrier Nuclear/(CVN) Battlegroup Operations.

FY 2004 Plans:

- Develop TTP for Suspended Sediment Layer Mine Counter Measures Acoustic Tactics.
- Develop TTP for minefield navigation systems for VSW operations while operating in a hostile environment in support of MCM operations that underpin amphibious operations.
- Develop TTP for Surface Chokepoint Transit Guidance.

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- Develop TTP for Operational Tactics for Airborne Detection of NBC Weapons.
- Develop TTP for MHC51/MCM1 Damage Curves.

FY 2005 Plans:

- Develop TTP for Threat VSW Ship Mine Counter Measures (SMCM) Systems Matrix.
- Develop TTP for a Common Data Link Management System (CDLMS).
- Develop TTP for Underway Replenishment Ship Susceptibility.
- Develop TTP for Battle Force/Battle Group (BF/BG) Interface Control.
- Develop TTP for Fixed Wing Patrol/Anti-Submarine Warfare (ASW) aircraft (P-3C)/ Aircraft Carrier (Nuclear) (VP/CVN) Tactical Imagery Dissemination.
- Develop TTP for E-2C Hawkeye as the Carrier Battle Group/Carrier Air Wing (CVBG/CVW) Have Quick Auto Time of Day (ATOD) Source.
- Develop TTP for Submarine Mine Vulnerability.
- Develop TTP for E-2C Hawkeye aircraft Group 2 Overland Surface Detection and Tracking.
- Develop TTP for E-2C Hawkeye Weapons System Recording Capability for Playback of Theater-Wide Events.

	FY 2003	FY 2004	FY 2005
New and Existing Weapon Systems Employment	1,240	652	808

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. Tactical Memorandum (TACMEMOs), i.e. TTP, that are developed maximize the Navy's Sea Strike capability through Network Centric Warfare and Navy Fires Networks.

FY 2003 Accomplishments:

- Developed TTP for effectiveness of heliborne machine guns against small craft.
- Developed TTP for Laser Guided Bombing through the weather tactics.
- Developed TTP for S-3B (Viking) SLAM-ER missile (AGM-84F) launch tactics.
- Developed TTP to more effectively utilize submarine launched torpedoes in specific geographic areas.
- Developed TTP for the utilization of High Frequency (HF) passive engagement.
- Developed TTP to employ all multi-static (or bi-static) active acoustic sonar systems within the fleet.
- Developed a matrix of SMCM systems capabilities versus exploited foreign mines.
- Developed TTP for the employment of the F-14B's ALR-67 radar warning receiver (RWR) with ASPJ antennas and improved sensors.

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FY 2004 Plans:

- Develop TTP for SSBN MK48 ADCAP Torpedo Employment.
- Develop TTP to determine EA-6B effectiveness using ALE-43 Bulk Chaff and Chaff Illumination verses Side Lobe Suppression (SLS).
- Develop TTP for Air ASW Torpedo Selection and Employment.
- Develop TTP for Multi Carrier Battle Group Specific Emitter Identification (SEI).
- Develop TTP for the employment of Joint Direct Attack Munitions (JDAM) in a Friendly Environment.
- Develop TTP for measuring Information Warfare (IW) effectiveness.
- Develop TTP for ASW Screen Planners Tactical Decision Aid.

FY 2005 Plans:

- Develop TTP to enhance ASDS-SSN Employment Tactics.
- Develop TTP for employment of New Inventory CV(N) Force Protection Weapons.
- Develop TTP for Preemptive Launch of IR Expendable Decoys by Helicopters to Defeat IR Manpad Threat.
- Develop TTP for Deadeye Wheel Attack Gameplan for Paveway II Weapons.
- Develop TTP for Long-Range Advanced Capability MK-48 Torpedo (ADCAP) upgrade.

C. OTHER PROGRAM FUNDING SUMMARY:

Not Applicable.

D. ACQUISITION STRATEGY:

Not Applicable.