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FY 2004/2005 RDT&E,N BUDGET ITEM JUSTIFICATION SHEET
Exhibit R-2

DATE: February 2003

BUDGET ACTIVITY: 6 PROGRAM ELEMENT: 0605155N
PROGRAM ELEMENT Title: Fleet Tactical Development and Evaluation

COST: (Dollars in Thousands)

PROJECT NUMBER/ TITLE	FY 2002 ACTUAL	FY 2003 ESTIMATE	FY 2004 ESTIMATE	FY 2005 ESTIMATE	FY 2006 ESTIMATE	FY 2007 ESTIMATE	FY 2008 ESTIMATE	FY 2009 ESTIMATE
R0151 Intertype Tactical Development and Evaluation	2,746	2,707	2,006	2,348	2,409	2,907	2,956	3,009
Total	2,746	2,707	2,006	2,348	2,409	2,907	2,956	3,009

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. PROGRAM CHANGE SUMMARY:

	FY 2002	FY 2003	FY 2004	FY 2005
2003 President's Budget Submission:	2,886	2,771	2,646	2,905
Adjustments from FY 2003 President's Budget:				
Non-S&T R&D Offset			-217	
ACTD offsets			-35	-49
Cong. Recissions/Adjustments/Undist. Reductions	-14	-32		
Post-Production R&D Continuation			-311	-420
SBIR	-70			
NWCF Rate Adjustments			-1	1
Efficiencies at NWCF Activities			-28	-30
Pay Raise/Inflation Adjustments		-32	-48	-59
Execution Adjustment	-56			
2004/2005 President's Budget Submission:	2,746	2,707	2,006	2,348

PROGRAM CHANGE SUMMARY EXPLANATION:

Schedule: Not applicable.
Technical: Not applicable.

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FY 2004/2005 RDT&E,N BUDGET ITEM JUSTIFICATION SHEET Exhibit R-2a

DATE: February 2003

BUDGET ACTIVITY: 6 PROGRAM ELEMENT: 0605155N Project Number: R0151
PROGRAM ELEMENT TITLE: Fleet Tactical Development Project Title: Intertype Tactical
and Evaluation Development and
Evaluation

COST: (Dollars in Thousands)

PROJECT NUMBER/ TITLE	FY 2002 ACTUAL	FY2003 ESTIMATE	FY 2004 ESTIMATE	FY 2005 ESTIMATE	FY 2006 ESTIMATE	FY 2007 ESTIMATE	FY 2008 ESTIMATE	FY 2009 ESTIMATE
R0151 Intertype Tactical Development and Evaluation	2,746	2,707	2,006	2,348	2,409	2,907	2,956	3,009

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 02	FY 03	FY 04	FY 05
Newly Evolving Force Structures	740	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 2002 ACCOMPLISHMENTS:

- Developed Tactics, Techniques and Procedures(TTP) to employ the Secret Internet Protocol Router Network(SIPRNET) and associated Information Technology for the 21st Century (IT21) equipment as a method for managing the Force Over-the-Horizon Target Coordinator(FOTC) Database.
- Established and publish the Damage Curves for Mine Hunting Class (MHC) 51 and Mine Countermeasures Ship (MCM-1).
- Developed TTP for protection of a High Value Unit (Carrier/Amphibious ship) with the NULKA (Chaff Decoy used to protect High Value Units) self defense system.
- Developed TTP for doing Anti-Submarine Warfare (ASW) using the Acoustic Communications (A-Comms) system.
- Developed TTP to delineate Air Defense Command Relationship for Carrier Battle Group (CVBG) Support Amphibious Ready Group (ARG).

FY 2003 PLANS:

- Develop TTP to retrograde Marine Forces in a Chemical/Biological (CHEM/BIO) Environment.
- Develop TTP for S-3B(Viking) SLAM-ER missile(AGM-84F) launch tactics.

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- Develop TTP for Multi CVN Battlegroup Operations.

FY 2004 PLANS:

- Develop TTP for Mine Counter Measures (MCM) Reconnaissance Tactics.
- Develop TTP for use of Night Vision Devices in Amphibious Operations.
- Develop TTP for Tactical Naval Information Operations (IO) Support to Humanitarian Assistance.
- Develop TTP for Naval IO Targeting to support SEA STRIKE.
- Develop TTP for Remote Buoy Active Search and Track.
- Develop TTP for MHC/MCM Survivability Data.
- Develop TTP for Tactical Exploitation of Real Time AAS-44 Forward Looking Infrared Sensor (FLIR) Radar Terrian Following (RTF).

FY 2005 PLANS:

- Develop TTP for Threat Very Shallow (VS) 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.

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	FY 02	FY 03	FY 04	FY 05
New and Existing Weapon Systems Employment	1,157	1,308	674	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 (TACMEMO's), i.e. TTP, that are developed maximize the Navy's Sea Strike capability through Network Centric Warfare and Navy Fires Networks.

FY 2002 ACCOMPLISHMENTS:

- Developed a targeting process for attacking Time Critical Targets using emergent target mensuration systems.
- Developed TTP defining the effectiveness of EA-6B Jamming on Anti-Ship Missiles and proper employment of such systems.
- Established TTP for Torpedo Employment in a Korean geographic area in support of the current Operations (Op) plan.
- Established TTP for Mine Counter Measure Reconnaissance Tactics.
- Developed TTP for employment of the Minehunter Coastal (MHC) Dyad Influence Sweeping system.
- Established and published the TTP for Preemptive Launch of Infrared (IR) Decoys in a hostile landing zone.
- Developed TTP for employment of the P-3 in a Naval Surface Fires Supporting role.
- Developed TTP for employment of E-2C II as an Overland Surface Detection and Tracking asset.

FY 2003 PLANS:

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

FY 2004 PLANS:

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- Develop TTP to govern the Tactical and Operational Utility of the Royal Australian Navy's High-Speed Lighterage/Theater Support Vessel.
- Develop TTP for utilization of Joint Strike Fighter (JSF) and MV-22 with ARG Operations.
- Develop TTP for Torpedo Selection and Employment.
- Develop TTP for Advanced Seal Delivery System Tactics using a Nuclear Submarine (ASDS-SSN) Employment Tactics.
- Develop TTP for Surface Warfare 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 Tactical Employment of Underwater Sonar (Active/Passive) AN/BQQ-10 Sonar System.
- 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.

	FY 02	FY 03	FY 04	FY 05
Changing Threat Scenarios to Improve and Measure Force Readiness	849	1,100	567	339

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 2002 ACCOMPLISHMENTS:

- Developed TTP for defending against Small Boat Attacks using Swarm tactics with an Armed Helo.
- Established TTP for Amphibious Assault Ships (LHA/LHD) Air Control Tactics in a Marine Expeditionary Force (MEF) environment.
- Established TTP for Helicopter Intercept of Low Slow Flyer.
- Developed TTP to defend naval shore establishments against terrorist attacks.
- Developed TTP to defend naval port facilities against terrorist attacks.
- Developed TTP to defend submarines in foreign ports against terrorist attacks.

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FY 2003 PLANS:

- Develop TTP to formalize procedures for AEGIS surface combatants performing High Value Airborne Asset Protection (HVAAP).
- Develop TTP for the use of Thermal Imaging Sensor Systems (TISS) in counter drug operations.
- Develop TTP for Submarine Mine Vulnerability.
- Develop TTP for Mine Counter Measures (MCM) in homeland defense.
- Develop TTP for Amphibious Ready Groups (ARG) to conduct long range raids for inserting Marines ahead of the main landing force.
- Develop TTP for evaluating the validity of the assault lane width for Amphibious assault craft working in a mined environment.
- Develop 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.
- Develop TTP for Organic Mine Counter-Measures (OMCM) Helicopters Assigned to Amphibious Ready Groups.
- Develop TTP for Amphibious Operations in a Chemical/Biological Threat Environment.
- Develop TTP for utilization of Mine Warfare and Environmental Decision Aid Library (Medal) to the Advance Force Commander.
- Develop TTP for MCM Operations in Homeland Defense.

FY 2005 PLANS:

- Develop TTP for Amphibious Assault through a Mined Very Shallow Water (VSW) Environment.
- Develop TTP for Explosive Ordnance Disposal (EOD) and Very Shallow Water (VSW) Diver Susceptibility.

C. OTHER PROGRAM FUNDING SUMMARY: Not Applicable.

D. ACQUISITION STRATEGY: Not Applicable.

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