

# UNCLASSIFIED

FY 2006/2007 RDT&E,N BUDGET ITEM JUSTIFICATION SHEET  
Exhibit R-2

DATE: Feb 2005

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

COST: (Dollars in Thousands)

Project Number & Title	FY 2004 Actual	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate
<b>Total PE</b>	1,964	2,290	2,266	2,740	2,832	2,891	2,959	3,031
R0151      INTERTYPE TACTICAL DEVELOPMENT	1,964	2,290	2,266	2,740	2,832	2,891	2,959	3,031

**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.

# UNCLASSIFIED

FY 2006/2007 RDT&E,N BUDGET ITEM JUSTIFICATION SHEET  
Exhibit R-2

DATE: Feb 2005

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

## PROGRAM CHANGE SUMMARY:

	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>
FY 2005 President's Budget Submission	1,984	2,338	2,390	2,883
Cong Rescissions/Adjustments/Undist. Reductions	0	-47	0	0
Program Adjustments	0	-1	-122	-149
Rate Adjustments	0	0	-2	6
SBIR Assessment	-20	0	0	0
FY 2006/2007 President's Budget Submission	1,964	2,290	2,266	2,740

## PROGRAM CHANGE SUMMARY EXPLANATION:

Technical: Not applicable.

Schedule: Not applicable.

UNCLASSIFIED

# UNCLASSIFIED

FY 2006/2007 RDT&E,N BUDGET ITEM JUSTIFICATION SHEET  
Exhibit R-2a

DATE: Feb 2005

BUDGET ACTIVITY: 06

PROGRAM ELEMENT: 0605155N

PROJECT NUMBER: R0151

PROGRAM ELEMENT TITLE: FLEET TACTICAL DEVELOPMENT

PROJECT TITLE: INTERTYPE TACTICAL DEVELOPMENT & EVALUATION

COST: (Dollars in Thousands)

Project Number & Title	FY 2004 Actual	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate
------------------------------	-------------------	---------------------	---------------------	---------------------	---------------------	---------------------	---------------------	---------------------

R0151 INTERTYPE TACTICAL DEVELOPMENT & EVALUATION

1,964	2,290	2,266	2,740	2,832	2,891	2,959	3,031
-------	-------	-------	-------	-------	-------	-------	-------

**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 2004	FY 2005	FY 2006	FY 2007
CHANGING THREAT SCENARIOS TO IMPROVE AND MEASURE FORCE READINESS	557	322	358	450

The current asymmetric mode of warfare, as evidenced by the attacks on USS Cole and other US interests, requires a detailed look at development of tactics and procedures to provide Naval forces protection, afloat and ashore. These projects provide that 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 do that thereby assuring freedom of access throughout the battlespace.

# UNCLASSIFIED

FY 2006/2007 RDT&E,N BUDGET ITEM JUSTIFICATION SHEET  
Exhibit R-2a

DATE: Feb 2005

BUDGET ACTIVITY: 06

PROGRAM ELEMENT: 0605155N

PROJECT NUMBER: R0151

PROGRAM ELEMENT TITLE: FLEET TACTICAL DEVELOPMENT

PROJECT TITLE: INTERTYPE TACTICAL DEVELOPMENT & EVALUATION

## **FY 2004 Accomplishments:**

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

## **FY 2005 Plans:**

- Develop TTP for Account For Variance in Contact Localization Accuracy.
- Develop TTP for Bottom Boundary Layer Effect on Acoustic Systems.
- Develop TTP for Maritime Tactical Development for Armed Unmanned Combat Vehicle's (UCV).

## **FY 2006 Plans:**

- Develop TTP for Explosive Ordnance Disposal (EOD) and Very Shallow Water (VSW) Diver Susceptibility.
- Develop TTP for Organic Mine Counter-Measures (OMCM) helicopters assigned to Amphibious Ready Groups (ARG).
- Develop TTP for utilization of Mine Warfare and Environmental Decision Aid Library (MEDAL) to the Advance Force Commander.

## **FY 2007 Plans:**

- Develop TTP for defense against Small Boat Attacks using Armed Unmanned Surface Vehicles (USV).
- Establish TTP for Multi-Amphibious Assault Ship (LHA/LHD) Tactics for Marine Expeditionary Force (MEF).
- Establish TTP for Helicopter Intercept of Low Slow Flyer.
- 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.

# UNCLASSIFIED

FY 2006/2007 RDT&E,N BUDGET ITEM JUSTIFICATION SHEET  
Exhibit R-2a

DATE: Feb 2005

BUDGET ACTIVITY: 06

PROGRAM ELEMENT: 0605155N

PROJECT NUMBER: R0151

PROGRAM ELEMENT TITLE: FLEET TACTICAL DEVELOPMENT

PROJECT TITLE: INTERTYPE TACTICAL DEVELOPMENT & EVALUATION

	FY 2004	FY 2005	FY 2006	FY 2007
NEWLY EVOLVING FORCE STRUCTURES	753	791	1,200	1,086

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 2004 Accomplishments:**

- Developed TTP for Suspended Sediment Layer MCM Acoustic Tactics.
- Developed TTP for minefield navigation systems for VSW operations while operating in a hostile environment in support of MCM operations that underpin amphibious operations.
- Developed TTP for Surface Chokepoint Transit Guidance.
- Developed TTP for Operational Tactics for Airborne Detection of Nuclear, Biological, and Chemical (NBC) Weapons.

## **FY 2005 Plans:**

- Develop TTP for Long Range Acoustic Devices (LADS).
- Develop TTP for Operational Tactics for the Command/Control Radar Aircraft (E-2C) for an Expeditionary Environment.
- Develop TTP for Tactical Employment of a Wireless Local Area Network (LAN) for Maritime Interdiction Ops (MIO).
- Develop TTP for Red Force Counter Exploitation.
- Develop TTP for Non-Kinetic Fires and Targeting.
- Develop TTP for Diesel Submarine (SSK) Tactical Guidance.
- Develop TTP for Counter Intelligence, Surveillance, Reconnaissance and Targeting (ISRT) Tactics in the littoral.
- Develop TTP for Attack Criteria Utilizing Torpedo Decision Tree.

# UNCLASSIFIED

FY 2006/2007 RDT&E,N BUDGET ITEM JUSTIFICATION SHEET  
Exhibit R-2a

DATE: Feb 2005

BUDGET ACTIVITY: 06

PROGRAM ELEMENT: 0605155N

PROJECT NUMBER: R0151

PROGRAM ELEMENT TITLE: FLEET TACTICAL DEVELOPMENT

PROJECT TITLE: INTERTYPE TACTICAL DEVELOPMENT & EVALUATION

## FY 2006 Plans:

- Develop TTP for Threat VSW Ship MCM 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) 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 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 2004	FY 2005	FY 2006	FY 2007
NEW AND EXISTING WEAPON SYSTEMS EMPLOYMENT	654	1,177	708	1,204

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.

# UNCLASSIFIED

FY 2006/2007 RDT&E,N BUDGET ITEM JUSTIFICATION SHEET  
Exhibit R-2a

DATE: Feb 2005

BUDGET ACTIVITY: 06

PROGRAM ELEMENT: 0605155N

PROJECT NUMBER: R0151

PROGRAM ELEMENT TITLE: FLEET TACTICAL DEVELOPMENT

PROJECT TITLE: INTERTYPE TACTICAL DEVELOPMENT & EVALUATION

## **FY 2004 Accomplishments:**

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

## **FY 2005 Plans:**

- Develop TTP for S-3 Minus Airwing.
- Develop TTP for Multi-Functional Information Distribution System (MIDS) in a Joint Air-to-Ground Arena.
- Develop TTP for JDAM Target of Opportunity (TOO) Tactics.
- Develop TTP for Tactical Tomahawk/Third Party Targeting.
- Develop TTP for Multi-Platform Coordinated Anti-Surface Warfare Tactics.
- Develop TTP for Helicopter-Based Electro-Optical Recognition System.

## **FY 2006 Plans:**

- Develop TTP to enhance Advanced Seal Delivery System (ASDS-SSN) Employment Tactics.
- Develop TTP for employment of New Inventory CV(N) Force Protection Weapons.
- Develop TTP for Preemptive Launch of infra-red (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 ADCAP MK-48 Torpedo Upgrade.

# UNCLASSIFIED

FY 2006/2007 RDT&E,N BUDGET ITEM JUSTIFICATION SHEET  
Exhibit R-2a

DATE: Feb 2005

BUDGET ACTIVITY: 06

PROGRAM ELEMENT: 0605155N

PROJECT NUMBER: R0151

PROGRAM ELEMENT TITLE: FLEET TACTICAL DEVELOPMENT

PROJECT TITLE: INTERTYPE TACTICAL DEVELOPMENT & EVALUATION

## **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.
- Establish TTP for Torpedo Selection and Employment in a specified geographic area to support the current Operations Plan.
- Establish TTP for MCM Reconnaissance Tactics.
- Develop TTP for employment of Coastal (MHC) Dyad Influence Mine Sweeping System.
- Establish TTP for preemptive launch of IR decoys in a hostile landing zone.
- 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.

## **C. OTHER PROGRAM FUNDING SUMMARY:**

Not applicable.

## **D. ACQUISITION STRATEGY:**

Not applicable.