

# UNCLASSIFIED

FY 2003 RDT&E,N BUDGET ITEM JUSTIFICATION SHEET

DATE: FEBRUARY 2002

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

(U) COST: (Dollars in thousands)

PROJECT NUMBER & TITLE	FY 2001 ACTUAL	FY 2002 ESTIMATE	FY 2003 ESTIMATE	FY 2004 ESTIMATE	FY 2005 ESTIMATE	FY 2006 ESTIMATE	FY 2007 ESTIMATE	TO COMPLETE	TOTAL PROGRAM
R0151 Intertype Tactical Development and Evaluation	2,675	2,886	2,771	2,646	2,905	2,953	3,008	CONT.	CONT.

A. (U) MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION: This program element 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.

(U) JUSTIFICATION FOR BUDGET ACTIVITY: This program is funded under RDT&E MANAGEMENT SUPPORT because it supports the operations and installations required for general research and development use.

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PROGRAM ELEMENT TITLE: Fleet Tactical Development and Evaluation      PROJECT TITLE: Intertype Tactical Development and Evaluation

(U) PROGRAM ACCOMPLISHMENTS AND PLANS:

1. (U) FY 2001 ACCOMPLISHMENTS:

- (U) (\$32) Developed the Tactics, Techniques and Procedures (TTP) to effectively employ various assets to accomplish Time Critical Strike.
- (U) (\$90) Explored, analyzed, and constructed baseline standardization for Surface Combatant Commander/ Air Combatant Commander (SSC/ACC) Coordination.
- (U) (\$105) Developed the procedures to tactically employ selected ASW Tactical Decision Aids (TDAs) to fully support the planning, execution, and performance assessment of the Antisubmarine Warfare (ASW) search.
- (U) (\$125) Developed the TTP to negate the impact of single ship automated programmed chaff employment on the NATO Sea Sparrow missile system radar tracking of the threat.
- (U) (\$120) Developed a matrix for a number of foreign and US mines pertinent to current operations. The document included all mine parameters relevant to Mine Warfare (MIW) operations (dedicated and organic systems).
- (U) (\$112) Developed the TTP on the use of the Anti-Air Defense Commandeer module by an embarked staff.
- (U) (\$165) Established the TTP to effectively employ the Cooperative Engagement Capability within the Composite Warfare concept.
- (U) (\$90) Developed and evaluated a tactic for amphibious littoral air defense.

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- (U) (\$275) Developed light weight torpedo (LWT) attack tactics which included target-specific weapons aimpoints and weapons presets. The project evaluated the Probability of Hit (Phit) for the MK-46 and MK-50 in order to optimize LWT selection, and determined the number of LWT required for this target.
- (U) (\$160) Analyzed lethality of Hellfire against this database of targets based on the aimpoints/impact point.
- (U) (\$90) Determined optimum sweep tactics for fields containing more than one mine type. These sweep tactics provide the optimum sweep current pulse cycle when sweeping more than one mine type.
- (U) (\$100) Developed TTP for a Sea Combat Commander fusion plot to optimize the employment of sensors and weapons.
- (U) (\$125) Developed a user-friendly Surface Warfare (SUW) surveillance planning aid to optimize asset effectiveness.
- (U) (\$100) Developed and validated tactics for employment of the E-2C+ radar in near and overland environments.
- (U) (\$225) Developed/refined tactical guidance for engaging quiet modern submarines in close encounter scenarios.
- (U) (\$105) Established TTP for incorporating USSPACECOM computer network defense support into Navy led operations.
- (U) (\$100) Refined existing multi-plane "extended echo ranging" tactics as a viable large area search tool.

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- (U) (\$70) Developed procedures to standardize the use of IT-21 capabilities used in support of the Force Over-the-Horizon Targeting Coordinator (FOTC).
- (U) (\$205) Identified the techniques, procedures, manning, training, material and logistics requirements to conduct data link operations at sea in a Navy, naval, joint, allied or coalition environment.
- (U) (\$110) Evaluated the effects of weather, terrain and range on the utility of the cooperative interrogator transponder system.
- (U) (\$10) Created a CD-ROM Tactical Decision Aid for the Maritime Patrol Aircraft support of Carrier Battle Group operations.
- (U) (\$17) Created a CD-ROM Tactical Decision Aid to aid in the coordination between surface ships and Maritime Patrol Aircraft.
- (U) (\$87) Developed new/updated tactics for the escort of Combat Search and Rescue (CSAR) helicopters.
- (U) (\$57) Program Support.

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## 2. (U) FY 2002 PLAN:

- (U) (\$ 75) Develop TTP to employ the SIPRNET and associated IT21 equipment as a method for managing the FOTC Database.
- (U) (\$185) Develop TTP for protection of a High Value Unit (Carrier/Amphibious ship) with the NULKA self defense system.
- (U) (\$200) Develop a targeting process for attacking Time Critical Targets using emergent target mensuration systems.
- (U) (\$110) Develop TTP for defending against Small Boat Attacks using Swarm tactics with an Armed Helo.
- (U) (\$ 85) Develop TTP defining the effectiveness of EA-6B Jamming on Anti-Ship Missiles and proper employment of such systems.
- (U) (\$ 95) Establish TTP for LHA/LHD Air Control Tactics in a Marine Expeditionary Force (MEF) environment.
- (U) (\$160) Establish and publish the Damage Curves for Mine Hunting Class 51 and Mine Countermeasures Ship 1 (MCM-1).
- (U) (\$160) Develop TTP for doing Anti-Submarine Warfare Using the A-Comms communications system.
- (U) (\$200) Establish TTP for Torpedo Employment in a Korean geographic area in support of the current Operations (Op) plan.

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- (U) (\$225) Establish TTP for Mine Counter Measure Reconnaissance Tactics.
- (U) (\$110) Establish TTP for Helicopter Intercept of Low Slow Flyer.
- (U) (\$140) Develop TTP for employment of the Minehunter Coastal (MHC) Dyad Influence Sweeping system.
- (U) (\$175) Establish and publish the TTP for Preemptive Launch of Infrared (IR) Decoys in a hostile landing zone.
- (U) (\$100) Develop TTP to delineate Air Defense Command Relationship for CVBG Support ARG.
- (U) (\$110) Develop TTP for employment of the P-3 in a Naval Surface Fires Supporting role.
- (U) (\$ 60) Develop TTP for employment of E-2C II as an Overland Surface Detection and Tracking asset.
- (U) (\$224) Develop TTP to defend naval shore establishments against terrorist attacks.
- (U) (\$225) Develop TTP to defend naval port facilities against terrorist attacks.
- (U) (\$190) Develop TTP to defend submarines in foreign ports against terrorist attacks.
- (U) (\$ 57) Program Support.

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## 3. (U) FY 2003 PLAN:

- (U) (\$150) Develop TTP for multiple-ship Anti-Ship Torpedo Defense.
- (U) (\$150) Develop TTP for Mine Warfare Battlespace Environmental Assessments.
- (U) (\$180) Develop TTP to maximize the effectiveness of the AH-1W Night Targeting System.
- (U) (\$130) Develop TTP for the Employment of Multi-Static Assets.
- (U) (\$110) Develop TTP to coordinate the use of multiple ASW Tactical Decision Aids.
- (U) (\$230) Develop TTP to more effectively utilize submarine launched torpedoes in specific geographic areas.
- (U) (\$160) Develop TTP for the utilization of High Frequency (HF) Active Engagement.
- (U) (\$130) Develop TTP to govern Tactical Naval Information Operations Support to Humanitarian Assistance Operations.
- (U) (\$130) Develop TTP for the use of the Advanced SEAL Delivery System (SDS) by SSNs.
- (U) (\$180) Develop TTP for the effective utilization of the AH-1W in a Close Air Support role.
- (U) (\$130) Develop TTP to govern the Crafting of the Tactical Force Influence Operations Posture.

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- (U) (\$120) Develop TTP for Counter-Influence Operations for the CVBG/ARG Commanders.
- (U) (\$240) Develop TTP required to maintain C4I tactical capabilities against an electronic jamming threat.
- (U) (\$180) Develop TTP to utilize Synthetic Aperture Radars to provide target ID.
- (U) (\$130) Develop TTP for the Joint Staff embark aboard a deployed ARG/MEU flagship.
- (U) (\$180) Develop TTP for the employment of electronic warfare assets in the littoral.
- (U) (\$193) Develop TTP for the employment of Organic MCM Assets in support of the ARG/MEU.
- (U) (\$48) Program Support.

## B. (U) PROGRAM CHANGE SUMMARY:

	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>
(U) FY 2002 President's Budget:	2,715	2,912	
(U) Adjustments from PRESBUDG			
(U) SBIR Adjustment	-40		
(U) Section 8123 - Management Reform Initiative Reduction		-26	
(U) FY 2003 President's Budget Submission:	2,675	2,886	2,771

(U) Schedule: Not applicable.

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(U) Technical: Not applicable.

C. (U) OTHER PROGRAM FUNDING SUMMARY: Not applicable.

D. (U) SCHEDULE PROFILE: Not applicable.

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