

UNCLASSIFIED

FY 2000 RDT&E,N BUDGET ITEM JUSTIFICATION SHEET

DATE: February 1999

BUDGET ACTIVITY: 6

PROGRAM ELEMENT: 0605804N

PROGRAM ELEMENT TITLE: Technical Information Services

(U) COST: (Dollars in Thousands)

PROJECT NUMBER & TITLE	FY 1998 ACTUAL	FY 1999 ESTIMATE	FY 2000 ESTIMATE	FY 2001 ESTIMATE	FY 2002 ESTIMATE	FY 2003 ESTIMATE	FY 2004 ESTIMATE	FY 2005 ESTIMATE	TO COMPLETE	TOTAL PROGRAM
R0835	Technical Information Services									
	725	943	964	959	950	936	948	987	CONT.	CONT.
R2296	Federal Laboratory Consortium									
	246	0	0	0	0	0	0	0	CONT.	CONT.
R2322	Acquisition Center of Excellence									
	5,551	5,052	5,732	4,827	3,454	2,456	2,433	2,478	CONT.	CONT.
Total	6,522	5,995	6,696	5,786	4,404	3,392	3,381	3,465	CONT.	CONT.

A. (U) MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION: Technical Information Services provides support to achieve affordability in the development of Navy systems and reduction of life-cycle costs through the facilitation of advanced technology associations between U.S. industry and the Navy. The goals for project R0835 are met through the following:

- (U) Navy leverage of the industry independent research and development science and technology base by facilitation of voluntary Technical Information Meetings between Navy, DOD components, and the private sector.
- (U) Support for the Navy Acquisition Research and Development Center to provide the private sector with information on Navy research and development requirements and advanced acquisition information.
- (U) Transfer of appropriate Navy-developed innovative concepts and inventions to the private sector for purposes of commercialization (Public Law 96-480, Federal Technology Transfer Act of 1986) through Cooperative Research and Development Agreements and Cooperative Agreements through Offices of Research and Technology Applications.
- (U) Promotion of advanced information acquisition and distribution techniques (in conjunction with the Defense Technical Information Center) to disseminate research, development, and technology transfer efforts of Navy components, including the networking of Navy components' technology transfer databases (Scientific and Technical Information Program).

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• (U) Support for controlled access to, and exchange of, scientific and technical information by Navy/DOD components and present/potential contractors (Navy Potential Contractor Program).
(U) This program also provides the DON interface to Director, Defense Research and Engineering, Office of Technology Transition for matters relating to policy and DOD reporting requirements for technology transfer.

(U) The Acquisition Center of Excellence program conducts the enabling research and development of the methods, processes and techniques that form the foundations for developing the databases, infrastructure, and tools that will lead to the reduction of acquisition cycle time, reduction of system total ownership cost and the collection, analysis and data dissemination to improve decision making in the DoN. The goals for project R2322 are met through the following:

- (U) Development of the advanced tools that can be used for evaluating alternate business strategies so that program managers may readily make informed and timely business strategy decisions.
- (U) Development of the methods, techniques, and the advanced tools associated with navigation, access, retrieval, and storage of diverse data types that exist in very large distributed databases so that program managers can rapidly find, develop, and assess information critical to program comprehension and decision making.
- (U) Development of the methods, techniques, and the advanced systems associated with the effects of information visualization, presentation and interaction in a learning environment for the purpose of enhancing the processes for evaluating, transforming, interacting, and communicating that information to a broad set of users.

(U) The Federal Laboratory Consortium (FLC) for Technology Transfer is an organization of Federal Research and Development Laboratories and Centers chartered by the "Stevenson-Wydler Technology Innovation Act of 1980" as amended by Public Law 99-502, the "Federal Technology Transfer Act of 1986." It was established to identify and mobilize the necessary resources to provide the environment, the organization, and the necessary technology transfer mechanisms required to facilitate the fullest possible use of federally sponsored R&D results by both public and private sector potential users. Funding of the FLC is a recurring requirement with the yearly funding level based on an amount equal to eight thousandths of one percent (0.008%) of each Federal department/agency Research and Development (R&D) budget.

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

(U) PROGRAM CHANGE FOR TOTAL P.E.:

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PROGRAM ELEMENT TITLE: Technical Information Services

	<u>FY 1998</u>	<u>FY 1999</u>	<u>FY 2000</u>
(U) FY 1999 President's Budget:	3,166	8,513	967
(U) Appropriated Value:	-	6,013	-
(U) Adj from FY 1999 President's Budget:	+3,356	-2,518	+5,729
(U) FY 2000 President's Budget Submission:	6,522	5,995	6,696

(U) CHANGE SUMMARY EXPLANATION:

(U) Funding: FY 1998 adjustment is due to SBIR assessment (-81), update to reflect actual execution (-10), Federal Technology Transfer Funding (+248), and ACE below threshold reprogramming (+3,199). FY 1999 adjustments due to Congressional Undistributed Reductions (-18), and FY99 congressional reduction for slow enterprise development (-2,500). FY 2000 adjustments due to Navy Working Capital Fund Rates (+16), Civilian Pay Rates (+10), Non Pay Inflation (-97), and Acquisition Center of Excellence Funding Adjustment (+5,800).

(U) Schedule: Not applicable.

(U) Technical: Not applicable.

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PROGRAM ELEMENT: 0605804N

PROGRAM ELEMENT TITLE: Technical Information Services

(U) COST: (Dollars in Thousands)

PROJECT NUMBER & TITLE	FY 1998 ACTUAL	FY 1999 ESTIMATE	FY 2000 ESTIMATE	FY 2001 ESTIMATE	FY 2002 ESTIMATE	FY 2003 ESTIMATE	FY 2004 ESTIMATE	FY 2005 ESTIMATE	TO COMPLETE	TOTAL PROGRAM
R0835	Technical Information Services	725	943	964	959	950	936	948	987	CONT. CONT.

A. (U) MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION: This program provides support to achieve affordability in the development of Navy systems and reduction of life-cycle costs through the facilitation of advanced technology associations between U.S. industry and the Navy. These goals are met through the following:

- (U) Navy leverage of the industry independent research and development science and technology base by facilitation of voluntary Technical Information Meetings between Navy, DOD components, and the private sector.
- (U) Support for the Navy Acquisition Research and Development Center (NARDIC) to provide the private sector with information on Navy research and development requirements and advanced acquisition information.
- (U) Transfer of appropriate Navy-developed innovative concepts and inventions to the private sector for purposes of commercialization (Public Law 96-480, Federal Technology Transfer Act of 1986) through Cooperative Research and Development Agreements and Cooperative Agreements (CRADAs) through Offices of Research and Technology Applications.
- (U) Promotion of advanced information acquisition and distribution techniques (in conjunction with the Defense Technical Information Center (DTIC)) to disseminate research, development, and technology transfer efforts of Navy

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PROGRAM ELEMENT TITLE: Technical Information PROJECT TITLE: Technical Information Services

components, including the networking of Navy components' technology transfer databases (Scientific and Technical Information Program (STIP)).

- (U) Support for controlled access to, and exchange of, scientific and technical information by Navy/DOD components and present/potential contractors (Navy Potential Contractor Program (NPCP)). This program also provides the DON interface to Director, Defense Research and Engineering (DDR&E), Office of Technology Transition for matters relating to policy and DOD reporting requirements for technology transfer.

(U) PROGRAM ACCOMPLISHMENTS AND PLANS:

1. (U) FY 1998 ACCOMPLISHMENTS:

- (U) (\$725) Maintained coordination efforts with Systems Commands, Program Executive Offices, Direct Reporting Program Managers, and Navy laboratories and warfare centers to leverage industry research and development efforts to meet Navy performance/affordability needs and encouraged submission of technical data by the private sector to the DTIC CD-ROM in order to help integrate defense production with the commercial industrial base. Supported the NARDIC as the primary outreach resource to the private sector. Supported NARDIC development of electronic bulletin board residing on the World Wide Web to facilitate advance commercial planning in support of Navy/Marine Corps technology needs. Completed development of the networked technology transfer database capability at the laboratory, the ONR, and DDR&E levels, which enables the tracking of technology transfer efforts. In FY 1998, Navy laboratories entered 134 new agreements in areas such as the following: Fiber optic sensor systems for geophysical exploration; Marine archeological techniques for artifact location; SWATH ship for military and civilian uses; Navy-developed network-centric, multi-tiered client/server for easy navigation to and management of information; modular, reconfigurable, distributed, interactive radar simulation; malaria vaccine research; open circuit dive regulator for cold water diving; composite materials and fabrication techniques for spacecraft components; advanced state-of-the-art printed wiring board manufacturing. Supported the Navy Offices of Research and Technology Applications (ORTA) through the National Technology Transfer Center (NTTC) Entrepreneurial Training Apprenticeship Program (ETAP) which provided minority students to work in the ORTA supporting technical information services and technology transfer activities.

2. (U) FY 1999 PLAN:

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DATE: February 1999

BUDGET ACTIVITY: 6

PROGRAM ELEMENT: 0605804N

PROJECT NUMBER: R0835

PROGRAM ELEMENT TITLE: Technical Information

PROJECT TITLE: Technical Information Services

- (U) (\$929) Maintain coordination efforts with Systems Commands, Program Executive Offices, Direct Reporting Program Managers, and Navy laboratories and warfare centers to leverage industry research and development efforts to meet Navy performance/affordability needs and encourage submission of technical data by the private sector to the DTIC database in order to help integrate defense production with the commercial industrial base. Support DoD effort to migrate voluntary private sector technical submissions from CD-ROM medium to internet-based exchange. Support the NARDIC as the primary outreach resource to the private sector, including development and maintenance of open and password-protected electronic bulletin boards residing on the World Wide Web. Investigate incorporation of NPCP information into networked tech transfer database. Support the Navy ORTA through the NTTC ETAP which provides minority students to work in the ORTA supporting technical information services and technology transfer activities.
- (U) (\$14) Portion of extramural program reserved for Small Business Innovation Research assessment in accordance with 15 USC 638.

3. (U) FY 2000 PLAN:

- (U) (\$964) Maintain coordination efforts with Systems Commands, Program Executive Offices, Direct Reporting Program Managers, and Navy laboratories and warfare centers to leverage industry research and development effort to meet Navy performance/affordability needs and encourage submission of technical data by the private sector to the DTIC database in order to help integrate defense production with the commercial industrial base. Support the NARDIC as the primary outreach resource to the private sector, including maintenance of open and password-protected electronic bulletin boards residing on the World Wide Web. Incorporate NPCP information into networked tech transfer database. Support the Navy ORTA through the NTTC ETAP which provides minority students to work in the ORTA supporting technical information services and technology transfer activities.

B. (U) PROGRAM CHANGE SUMMARY: See total program change summary for P.E.

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

(U) RELATED RDT&E: Not applicable.

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PROGRAM ELEMENT: 0605804N

PROJECT NUMBER: R0835

PROGRAM ELEMENT TITLE: Technical Information

PROJECT TITLE: Technical Information Services

D. (U) SCHEDULE PROFILE: Not applicable.

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PROGRAM ELEMENT TITLE: Technical Information

(U) COST: (Dollars in Thousands)

PROJECT NUMBER & TITLE	FY 1998 ACTUAL	FY 1999 ESTIMATE	FY 2000 ESTIMATE	FY 2001 ESTIMATE	FY 2002 ESTIMATE	FY 2003 ESTIMATE	FY 2004 ESTIMATE	FY 2005 ESTIMATE	TO COMPLETE	TOTAL PROGRAM
R2322										
Acquisition Center of Excellence										
	5,551	5,052	5,732	4,827	3,454	2,456	2,433	2,478	CONT.	CONT.

A. (U) MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION: This program conducts the enabling research and development of the methods, processes and techniques to assist the Department of the Navy acquisition community to shorten acquisition cycle time and to reduce system total ownership costs. The Acquisition Center of Excellence (ACE) is comprised of three primary elements: (1) An 21,000 square-foot facility located in Building 22 of the Washington Navy Yard; (2) A team of government and contractor personnel who are experts in various aspects of DoD acquisition processes; and (3) an advanced system of computers, decision support applications and visualization displays. These elements are focused on facilitating a dramatic cultural change in the way DoN weapons systems are acquired. The program will develop techniques, methodologies and concepts to achieve these changes through coordinated efforts using the acquisition experts, the Acquisition Center of Excellence facility and the advanced computer-based decision support systems. The near term objective of the program are to provide support to DoN Systems Commands and Program Managers in six specific areas that will result in a reduction of total ownership costs and enhanced decision making capability. Full scale operations commenced in February 1998. The support areas include:

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PROGRAM ELEMENT: 0605804N

PROJECT NUMBER: R2322

PROGRAM ELEMENT TITLE: Technical Information

PROJECT TITLE: Acquisition Center of Excellence

1. (U) PRE-AWARD SUPPORT ASSISTANCE: Pre-Award Support Assistance is consulting assistance delivered by an ASN(RDA) team of Acquisition Reform experts. This assistance will span a variety of pre-award support issues including the transformation of operational requirements into program objectives, acquisition strategy, Request For Proposals (RFP) development and source selection. The team draws on advanced acquisition tools and subject matter experts from diverse acquisition disciplines to review, assess, recommend approaches, share recent lessons learned and suggest alternative solicitation and contract provisions. The ACE team will support acquisition programs in eight specific Pre-Award Support Assistance areas: (1) development of market research programs, (2) development of performance based requirements for acquisitions, (3) development of effective risk management strategies, (4) application of Electronic Commerce/Electronic Data Interchange (EC\EDI) to enhance the acquisition process, (5) application of Total Ownership Cost(TOC)/Cost As An Independent Variable (CAIV) to contracts, (6) reviewing RFPs for acquisition reform, (7) development of virtual RFPs, and (8) electronic source selection.

2. (U) TOTAL OWNERSHIP COST (TOC)/COST AS AN INDEPENDENT VARIABLE (CAIV): TOC/CAIV includes in-direct costs and costs incurred to other programs as a result of decisions within a program and includes effects on infrastructure. The Acquisition Center of Excellence team will consult programs to support the application of TOC/CAIV , and on metrics and measures that programs could consider for management. Acquisition Center of Excellence staff assists in the development of the Navy policy; are in touch with industry on their initiatives; and can advise on best practices. TOC/CAIV offerings include the following: Investment balance analysis; affordability analysis; cost reduction activity; design trades; cost estimation; systems dynamics cost modeling; risk estimation & management; activity-based costing/management.

3. (U) BUSINESS WARGAMING: The Acquisition Center of Excellence will support the conduct of business wargames for the Navy Acquisition Executive, program managers and staffs. Business wargaming enables the program manager to simulate a realistic business environment and to see the possible reaction to his actions by other managers. The three wargaming functions performed at the Acquisition Center of Excellence include: (1) to develop and test solutions in a benign environment; (2) to train acquisition management teams; and (3) to enhance PM strategic decision making skills. Acquisition Center of Excellence provides a framework for business wargames with its data access and visualization capability, access to models and data, decision support processes and tools. The Acquisition Center of Excellence will access senior managers from the government and industry to play key roles on the red or blue teams to more effectively simulate business operations. Acquisition Center of Excellence will use gaming methodologies proven through actual application in business and government. Wargaming techniques include such elements as suspension of reality and

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alternative role playing; use of decision support tools and systems dynamic modeling; background information to support players' roles, and just-in-time training when required.

4. (U) SYMPOSIA/CONFERENCES/WORKSHOPS: Workshops will include many topics including CAIV, Electronic Source Selection, Simulation Based Acquisition and Risk Management, Small Business Innovation Research (SBIR) program and Best Manufacturing Practices (BMP) highlights. Presenters will discuss current initiatives and use the Acquisition Center of Excellence's high performance computing technology and synthetic environments to demonstrate advanced techniques. Proceedings will be transmitted via voice, data, and video to remote sites, when appropriate to reduce costs and to maximize visibility. Through these workshops and symposia ACE will assist in the deployment of the products and services developed at all the Navy Manufacturing Technology (MANTECH) Centers of Excellence.

5. (U) DECISION SUPPORT & ANALYSIS: Acquisition Center of Excellence Decision Support & Analysis provides dedicated environment for data gathering, analysis and decision making, to improve program management operational efficiency through the use of advanced meeting facilities and systems. Acquisition Center of Excellence provides the following capabilities: fact-based decision making; facilitated small group processes; large screen projections to support visual data synthesis; connectivity to enable rapid data access; state-of-the art software tools for data analysis.

6. SIMULATION BASED ACQUISITION The concept of Simulation Based Acquisition (SBA) refers to the application of computer systems to enable the acquisition community to proceed from requirements generation through system development, testing and simulated operations before committing to expenditure of significant funding for actual construction of the system.

(U) PROGRAM ACCOMPLISHMENTS AND PLANS:

1. (U) FY 1998 ACCOMPLISHMENTS:

(U) (\$ 5,551)

- (U) Continued development and deployment of program manager tools focused on streamlining operations and providing a central repository of best business practices.
- (U) Initiated the development of the first generation dynamic system model(s) based on CAIV techniques.

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PROGRAM ELEMENT TITLE: Technical Information PROJECT TITLE: Acquisition Center of Excellence

- (U) Continued development of the ACE information repository and the associated connections to the other DoD/DoN databases.
- (U) Initiated process/performance templates for real time access of multimedia data for acquisition program managers.
- (U) Defined and executed decision support and analysis collaboration to assist program managers in resolving real-world acquisition program issues.
- (U) Completed the establishment of the Acquisition Center of Excellence in the Washington Navy Yard.
- (U) Conducted approximately 150 interactions with over 300 different government and industry organizations, contacting greater than 3,500 individuals.
- (U) Conducted workshops and symposia addressing total ownership cost, electronic source selection tools, and pre-contract award support activities.
- Conducted wargames supporting the Chief of Naval Operations as well as acquisition program managers.

2. (U) FY 1999 PLAN:

(U) (\$ 4,976)

- (U) Continue to define and execute acquisition exercises with program managers.
- (U) Continue to provide Program Managers Assistance Group for any program manager requiring support.
- (U) Conduct acquisition reform-related symposia and workshops addressing pre-award support assistance, TOC/CAIV, Decision support and analysis, and simulation-based acquisition.
- (U) Initiate development of the SBA enterprise.
- (U) Initiate development of the required structured methods, smart product model structures, and concurrent processes in conjunction with the efforts in DARPA, ONR, DMSO, DoNMSO, DISA, and industry.
- (U) (\$76) Portion of extramural program reserved for Small Business Innovation Research assessment in accordance with 15 USC 638.

3. (U) FY 2000 PLAN:

(U) (\$5,732)

- (U) Continue to develop the concepts and methodologies for SBA use by program offices.

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PROGRAM ELEMENT TITLE: Technical Information PROJECT TITLE: Acquisition Center of Excellence

- (U) Develop and implement workshops for DoN wide deployment in TOC/CAIV, Acquisition streamlining.
- (U) Continue implementation of electronic source selection best practices.
- (U) Develop tools for use in Pre-Award Support Assistance efforts, streamline practices and implement lessons learned.
- (U) Continue implementation of Wargaming techniques among program offices including system reviews of requirement documents and acquisition strategies.
- (U) Provide the tools to enhance decision support process and analysis at all levels of DoN leadership.
- (U) Establish cooperative agreements with private industry to share decision support tools and techniques.
- (U) Provide the means for centrally sharing information between private industry and DoN activities related to streamlined acquisition, deployment and support of weapon systems.
- (U) Investigate and validate a fee for service system to allow direct service funding by users.

B. (U) PROGRAM CHANGE SUMMARY: See total program change summary for P.E.

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

(U) RELATED RDT&E: Not applicable.

D. (U) SCHEDULE PROFILE: Not applicable.

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