



DEPARTMENT OF THE NAVY
NAVAL ELECTRONIC SYSTEMS COMMAND
WASHINGTON, D.C. 20360

NAVELEX INST 9080.2
ELEX 05E
18 MAR 1978

NAVELEX INSTRUCTION 9080.2

From: Commander, Naval Electronic Systems Command

Subj: Total Ship Test Program (TSTP); implementation of

Ref: (a) NAVMATINST 9080.1A of 3 May 1977

Encl: (1) Total Ship Test Organization and Responsibilities

1. Purpose. To set forth the policy of the Naval Electronic Systems Command (NAVELEX) with respect to the support of the Total Ship Test Program and assign responsibilities within the Command for its development in consonance with paragraph 7.c of reference (a).
2. Background. Reference (a) sets forth a program to develop a Total Ship Test Program based on system testing of ship systems and subsystems. The program further requires that these tests be developed within the existing PMS (Planned Maintenance Subsystem) of the Navy's Maintenance and Material Management as defined in OPNAV 42P2.
3. Objective. The Total Ship Test Program is designed to produce a series of System and Subsystem Tests to determine the status of ships' systems, subsystems and where prudent and necessary of individual equipments during the life cycle of the ship. Inherent in the system and subsystem level testing is the reduction of test time by testing at the highest level technically practical, minimizing redundant and unnecessary testing and providing for integration and consolidation of test procedures used by varying levels of construction, repair, and maintenance within the Navy.
4. Information. Reference (a) provides the management concept and a structured test development and management organization to develop, and in some cases, conduct shipboard Total Ship Testing. Enclosure (1) to this instruction summarizes the Total Ship Test Organization and Responsibilities.

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5. Responsibility.

a. NAVELEX 05 (05E) shall be responsible for coordination of the program in NAVELEX and will promulgate policy and procedures for its accomplishment.

b. Test Procedure Development Managers (TPDMs) (enclosure (1)) are assigned as follows:

- (1) External Communications: NAVELEX Code 510 (R)
- (2) Electronic Warfare: PME-107
- (3) IFF, ACLS and Navigation: NAVELEX Code 520 (R)
- (4) Satellite Communications: PME-106 (R)
- (5) Closed-Circuit Television: NAVELEX Code 570 (A)

The TPDMs will accomplish the functions of enclosure (1) and appoint Test Procedure Development Agents (TPDAs) as necessary. NAVELEXSYSENGCEN San Diego is assigned responsibility as the Technical Manager in accordance with NAVELEXINST 5200.19 for Shipboard Testing to accomplish the functions as delineated in enclosure (1).

c. NAVELEX 04 shall provide maintenance engineering services to the TPDMs developing maintenance subsystem documentation in support of the program.

d. Other NAVELEX codes and PMEs shall provide the Coordinator and the TPDMs information, support, and assistance as may be required within their basic responsibilities.

6. Action. Addressees shall take necessary action to carry out the responsibilities assigned in paragraph 5.

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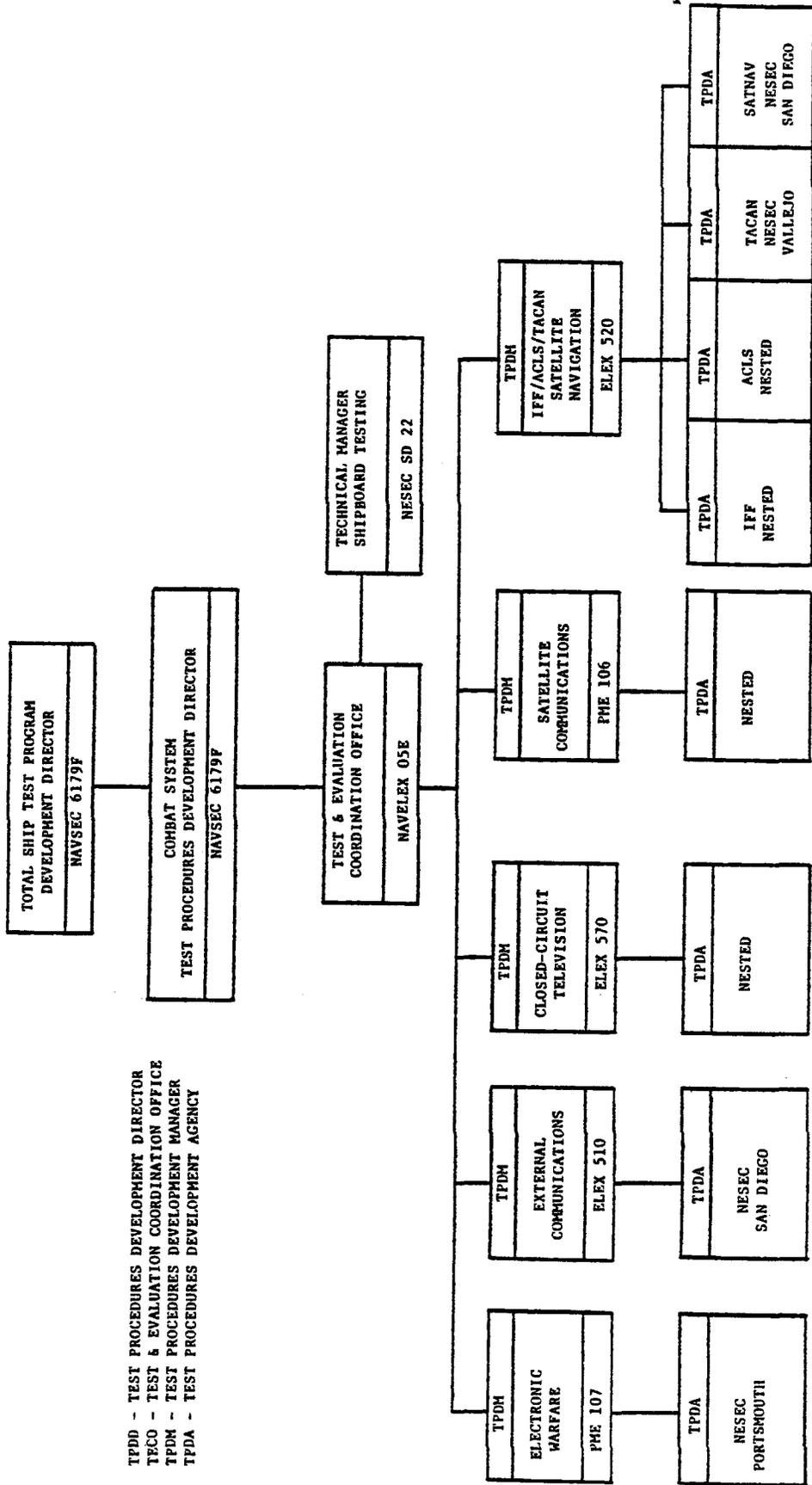
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H. A. McGRATH
Deputy Commander
for Material Acquisition

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NAVELEXSYS COM TSTP LINE ORGANIZATION



TPDD - TEST PROCEDURES DEVELOPMENT DIRECTOR
 TECO - TEST & EVALUATION COORDINATION OFFICE
 TPDM - TEST PROCEDURES DEVELOPMENT MANAGER
 TPDA - TEST PROCEDURES DEVELOPMENT AGENCY

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RESPONSIBILITIES1. Total Ship Test Procedures Development Director

The Test Procedures Development Director (TPDD) is responsible to organize, plan, manage, and control the test program for a ship system. As such, he will:

- a. Develop system level tests which integrate the elements that comprise the assigned ship systems.
- b. Request appointment of TPDMs and TPDA's from cognizant System Commands.
- c. Direct TPDMs to ensure complimentary and non-redundant testing by:
 - (1) Ensuring existing PMS is integrated into the requirements and procedures of the test and trials program.
 - (2) Ensuring that deficiencies in existing PMS are resolved via cognizant TPDM.
 - (3) Adjusting periodicities in existing PMS to complement the added system level tests.
 - (4) Developing the system test sequence network.
- d. Provide requirements to the Total Ship Test Director (TSTD) necessary to organize a Total Ship Test Team (TSTT) by:
 - (1) Providing the system requirements to TSTD.
 - (2) Providing the test team members, utilizing technical representatives from the designated TPDMs and TPDA's.
- e. Compare total ship test program manning requirements with current Ship Manning Document and notify cognizant agency as to new requirements.

2. Naval Electronic Systems Command (05E) TSTP Coordinator

(A)

The NAVEXLEX TSTP Coordinator is responsible for overall coordination of the program within NAVEXLEXSYSCOM. As such, he will:

- a. Serve as the focal point of contact for all TSTP matters within NAVEXLEXSYSCOM and provide a single point of contact for NAVEXLEXSYSCOM to the TPDD.

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- b. Establish policies and procedures for execution of TSTP within NAVELEXSYSCOM and for interface with other SYSCOMs and with the TPDD.
- c. Review TPDM program management plans for each area for compliance with established policies and procedures.
- d. Fund TPDA's, within available resources, to enable TPDA's to meet planned program objectives and milestones.

3. Technical Manager for Shipboard Testing

(A)

Naval Electronic Systems Engineering Center, San Diego, as the assigned Technical Manager for Shipboard Testing (TM/ST) is responsible to:

- a. Provide technical advice and support to ELEX 05E on the overall Total Ship Test Program.
- b. Compile an Integrated Management Plan (IMP) of all activities associated with TSTP including, but not limited to, the individual management plans provided by each TPDA.
- c. In accordance with NAVELEXINST 4700.4A, develop and maintain a Data Management System for a master test library for ELEX combat systems and subsystems.

4. Test Procedure Development Manager

(A)

The Test Procedure Development Manager (TPDM) is responsible to organize, plan, manage, and control the test program for a specific system normally under his cognizance. As such, he will:

- a. Appoint TPDA's to support test efforts.
- b. Review TPDA management plans to assure congruity with the objectives of prime system development and acquisition.
- c. Identified deficiencies in PMS for existing and/or planned systems. Directs efforts of TPDA to eliminate any such deficiencies.
- d. Review TPDA Quarterly Status Reports (QSRs) for compliance with management plans. Coordinates with ELEX 05E and with the assigned TM/ST to assure compliance with overall TSTP objectives and specific NAVELEX defined objectives.
- e. Supports TSTP by:
 - (1) Identifying and providing, when necessary, data and/or equipment for test development and validation by the TPDA.

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(2) Assuring that TSTP PMS requirements are satisfactory, included in all new systems or equipments and within all existing systems within his cognizance.

(3) Provides or assists in the provision of supplementary funds for test development and/or procurement of special test equipment as may be necessary to meet the requirements of TSTP for the systems under his cognizance.

5. Test Procedure Development Agent

(A)

The Test Procedure Development Agent (TPDA) will, for their respective area, as the technical agency appointed by the TPDM, have the following responsibilities:

a. Develop system, subsystem, and equipment level tests which implement the objectives and requirements of TSTP by:

(1) Ensuring existing PMS is integrated within the requirements of existing systems and new system acquisitions for both shipboard and industrial types of tests are in accordance with NAVSEA 0900-LP-085-0010 and NAVSEA 0900-LP-095-2010.

b. Develop management plans for implementation of their assigned responsibility as TPDA which include task descriptions, milestone plans, and cost estimates, and periodically update their management plan and report progress and problems through Quarterly Status Reports to the TPDM.

c. Implement TSTP by developing system test sequence networks and test procedures; validate test procedures and maintain currency of test procedures as necessary to incorporate system and subsystem configuration changes; and review and take action to resolve fleet feedback reports for TSTP procedures.

d. Develop Special Test Equipment (SPETE) and/or improve or modify General Purpose Test Equipment (GPETE) to support the implementation of TSTP for their respective area.

e. When directed, provide Total Ship Test Teams (TSTTs) as necessary to execute industrial type TSTP and/or support shipboard type TSTP.

f. Support the Combat Systems Test and Certification Program (CST&CP).

g. Support the development and execution of platform level TSTP, and when directed, provide test team members for TSTP platform level tests including Overall Combat System Operability Tests (OCSOTs) and Combat System Ship Qualification Tests (CSSQTs), and other industrial type tests.

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h. Support the Advance Testing Technology (ATT) Program. (A)

i. Develop and maintain a data management system for their respective area in support of the NAVELEX Combat System data management system developed and maintained by the TM/ST.