



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

NAVELEX INST 4000.10A
ELEX 08
1 JUN 1981

NAVELEX INSTRUCTION 4000. 10A

From: Commander, Naval Electronic Systems Command

Subj: Integrated Logistic Support Plans (ILSPs)
and Operational Logistic Support Summaries (OLSSs)
for Electronic Systems and Equipment

Ref: (a) NAVELEXINST 5200.22 Naval Electronic Systems
Command Computer Resources Acquisition Management
(b) NAVELEXINST 5200.23 NAVELEX Computer Software
Life-Cycle Management Guide
(c) NAVELEXINST 4000.6C Integrated Logistic Support;
Policy and Responsibilities
(d) NAVELEX Logistics Procedures Manual, May 1980

Encl: (1) Guide for Preparation of Integrated Logistic
Support Plans
(2) Guide for Preparation of Operational Logistic
Support Summaries
(3) Review/Certification Procedures
(4) Logistics Program Funding Plan
(5) Definitions of Applicable Terms and Acronyms
(6) Sample Milestone Charts/Requirement Summaries

1. Purpose. The purpose of this instruction is to provide guidance for the development, preparation, and promulgation of Integrated Logistic Support Plans (ILSPs) and Operational Logistic Support Summaries (OLSSs) for electronic systems and equipments including those systems/equipments containing embedded computer resources procured by or for the Naval Electronic Systems Command (NAVELEXSYSCOM).

2. Cancellation. NAVELEXINST 4000.10 of 12 October 1973 is hereby superseded and cancelled.

3. Applicability. This instruction applies to all NAVELEX-SYSCOM Acquisition Directorates, NAVELEX Project Managers (PMEs), and NAVELEXSYSCOM field activities. Because ILS requirements for electronic system/equipment acquisitions vary greatly, this instruction is designed to permit tailoring of a program's specific requirements in accordance with the guidance provided in the NAVELEX ILS procedures manual.

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4. Objective. The objective of this instruction is to describe the specific content format requirements, and control of ILSPs and OLSSs to be developed in support of systems and equipments procured by or for NAVELEXSYSCOM.

5. Policy. Policy for the development, preparation, promulgation, and review and approval of ILSPs and OLSS is outlined herein.

6. Responsibilities.

a. The Life Cycle Engineering & Platform Integration Directorate NAVELEX 08, is responsible for the following:

(1) Review and approval of all ILSPs and OLSSs under NAVELEXSYSCOM cognizance.

(2) Assignment of official NAVELEXSYSCOM identification numbers to all ILSPs, OLSSs, changes/modifications thereto prior to their promulgation.

(3) Keeping the master Command file of ILSPs and OLSSs.

(4) Funding of revisions to OLSSs for those equipments which have already transitioned from the development or acquisition code.

b. Project Managers, Deputy Commanders, and others with development and acquisition responsibilities, NAVELEX 09F, the International Programs Office and NAVELEX Field Activities are responsible for the following actions for systems and equipments under their purview:

(1) Development of ILSPs and OLSSs in accordance with enclosures (1) through (6), to include funding, preparation, printing, distribution, revision, change, and stocking.

(2) Coordination of ILSP and OLSS content with designated NAVELEX 08 Logistic Element Managers (LEMs) and ILS Policy Managers.

(3) Submission of final draft ILSP and OLSS to the assigned NAVELEX 08 ILSM for review and assignment of official NAVELEXSYSCOM identification numbers, in accordance with enclosure (3).

(4) Certification and forwarding of ILSPs and OLSSs in accordance with enclosure (3).

7. Action. Addresses shall comply with this instruction and references (a) through (d).

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8. Form Availability. NAVELEX 4000/3 (Rev 5-81) is available
in ELEX 1052, Room 1W08, National Center #1.



Deputy Commander
Life Cycle Engineering and
Platform Integration Directorate

DISTRIBUTION:
NAVELEX LIST 3
SNDL PART II
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ENCLOSURE 1

GUIDE FOR THE PREPARATION OF
INTEGRATED LOGISTIC SUPPORT PLANNING DOCUMENTS

Enclosure (1).

⑤

INTRODUCTION

The purpose of this enclosure is to provide the writer of an ILSP with a comprehensive guide for development of the document. This guide is to be followed for all ILSPs written for NAVELEXSYSCOM systems and equipments.

An ILSP is a dynamic document to be first published for Milestone I of an acquisition. The initial ILSP may encompass only general planning, since specific program data may be unavailable to the writer. As hardware development progresses through the evolutionary stages into production, the ILSP will be revised "as a minimum at each major milestone" to reflect program progress. Content of the ILSP will develop with the activity in an acquisition. Subject areas which may be incomplete between Concept Formulation (Milestone 0) and Demonstration and Validation (Milestone I) will become highly detailed during Full Scale Engineering Development (Milestone II). After the acquisition has reached Production and Deployment (Milestone III), the ILSP will contain mostly summary data describing existing support for the program. At this point an OLSS will be developed which incorporates data from the ILSP and will serve as the basic logistics document for the deployment phase.

Figure 1-1 depicts ILSP development for a major program during the acquisition process. This figure should be used as a guide only. ILS planning and development should be tailored to the specific needs of each program.

The ILSP should be revised to reflect significant changes. It is used as a planning document and as a means for auditing the conduct of logistics during the life of a program. The system's Acquisition Manager will retain on file one copy of each superseded ILSP in order to maintain the audit trail. Major milestones such as Defense System Acquisition Review Council (DSARC), Department of the Navy System Acquisition Review Council (DNSARC), Logistics Review Group (LRG), or a change in the acquisition phase are points at which the ILSP will be revised.

The ILS documents required by this instruction will normally be unclassified to allow for the widest distribution. Classified material should be included in a classified appendix and referenced in the body of the plan.

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ACQUISITION MILESTONE	PHASE	ILS DOCUMENT
0	Concept Formulation Phase	General ILSP Formulation
I	Demonstration and Validation (Advanced Development)	ILSP ready for approval
II	Full Scale Engineering Development Phase (Design and Operational Test and Evaluation)	ILSP Revision
III	Production and Deployment (Operation and Maintenance)	ILSP Revision Initial OLSS
	Deployment/Operation	OLSS Revisions as required

FIGURE 1-1.

ILSP/OLSS DEVELOPMENT DURING
THE ACQUISITION LIFECYCLE
OF A MAJOR PROGRAM

The following sections outline ILSP and OLSS content for each phase of an Acquisition. Each section is color-coded in accordance with NAVELEXINST 4000.6C and the NAVELEX Logistics Procedures Manual. Suggested topic outlines for the ILSPs and OLSS are presented at the end of each section.

It is recommended that the ILSP and OLSS be constructed in a loose leaf notebook to simplify revision.

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ILSP CONTENT FOR MILESTONE I
DEMONSTRATION AND VALIDATIONINTRODUCTION

Although there is no requirement for a formal Integrated Logistic Support Plan (ILSP) during the Concept Formulation phase of an acquisition, logistics planning must begin at Milestone 0 in order for an ILSP to be available at the Milestone I decision point. The ILSP shall include general logistic planning information, based on available data, on each logistic element:

- . The Maintenance Plan
- . Manpower and Personnel
- . Supply Support (including Initial Provisioning)
- . Support and Test Equipment
- . Training and Training Devices
- . Technical Data
- . Computer Resources Support
- . Packaging, Handling, Storage and Transportation
- . Facilities
- . Logistics Funding.

In addition, the ILSP shall address standard administrative procedures. The following is a suggested annotated outline to be used for the Demonstration and Validation phase ILSP.

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ANNOTATED OUTLINE FOR ILSP DEVELOPMENT
DURING DEMONSTRATION AND VALIDATION
PHASE (MILESTONE I) OF AN ACQUISITION

I. Front Matter.

The front matter of the ILSP shall include the following:

- . Front Cover
- . Title Page, including date of publication
- . Signature Sheet
- . Record of Changes
- . List of Applicable Pages
- . Distribution List
- . Table of Contents
- . List of Illustrations/Tables
- . Administration
- . List of Terms and Acronyms.

II. Section 1.0 Introduction. (Program Purpose, Scope, Highlights, Background, and Constraints)

The Introduction shall provide a brief synopsis of the scope of the program, purpose, unique characteristics or constraints, and the funding method through which it shall be introduced into the Fleet (i.e., Fleet Modernization Program, new procurements, or new construction program). The Introduction shall outline historical data from the Concept Formulation phase, and state whether the system supplants existing systems. Improvements expected as a result of the system's introduction to the Fleet in performance, cost, reliability and maintainability (R&M), or operational availability shall be described. This section shall reference applicable planning documents in accordance with the guidelines of NAVELEXINST 4000.6C, NAVMATINST 3000.2, and NAVMATINST 5000.39.

The operational requirements and the intended operational availability for the system/equipment shall be addressed.

III. Section 2.0 System/Equipment Description, Delivery, and Installation Plan.

The following physical and functional system/equipment descriptions shall be provided to the extent they are known:

- . Environmental impact considerations
- . Performance/operational parameters
- . Physical characteristics.

Drawings, photographs, specifications, and block diagrams of the projected system/equipment shall be included in this section. Hardware procurement schedules, projected delivery schedules, and installation schedules shall be outlined.

IV. Section 3.0 Related Programs.

This section shall discuss the interface between the ILS program and related program areas, defined below:

- . System/Equipment Interface: This section shall identify projected system/equipment interface required for operation and maintenance, and use throughout the operational environment. This section shall also identify unique considerations required for system/equipment life cycle support.
- . Standardization: This section shall address planned use for the standard electronic module programs, Government-Industry Data Exchange Program, (GIDEP), and other standard programs as applicable.
- . Configuration Management: This section shall address the objectives of configuration management and how it shall be accomplished under the designated acquisition for the system/equipment being developed or produced.

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- . Since the items may be developed or procured from or through a separate contractor, intra-service efforts, a multi-service effort, or a government activity, a listing of persons responsible for the various aspects of configuration management effort shall be included. CM Plans applicable to the specific program or item should be listed.

V. Section 4.0 Planning/Programming.

An ILS program planning schedule shall be developed to ensure that the ILS program has been adequately planned. The ILS program planning schedule will address the requirements necessary for each logistic element. This schedule shall depict the development process for information and documentation necessary for the support of the system/equipment being procured.

For programming purposes the minimum lead times required to meet ready-for-training dates are:

- . Six years for major training devices;
- . Four years for military construction projects and technical training equipment; and
- . Three years for billets.

Figure 6-1 is a sample ILS program planning schedule which shall include, but not be limited to, the following:

- . ILS Management and Funding
- . Maintenance Plan
- . Manpower and Personnel
- . Supply Support (including Initial Provisioning)
- . Support and Test Equipment
- . Training and Training Devices
- . Technical Data
- . Computer Resources Support
- . Packaging, Handling, Storage and Transportation
- . Facilities

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VI. Section 5.0 Major ILS Events (Chronological).

This section shall contain a Milestone Summary which shall relate significant ILS events to major program milestones (see Figure 6-2). To ensure that acquisition management planning and ILS planning are coordinated and that they augment each other in accordance with DODD 5000.39, DODD 5000.1, DODI 5000.2, and NAVELEXINST 4000.6C.

VII. Section 6.0 Logistics Management.

This section of an ILSP shall describe the logistics management network including the structure, objectives, function, and responsibilities of the Integrated Logistic Support Management Team (ILSMT). If there is no ILSMT, it should be so stated, and the alternative method for logistics management should be explained.

Logistics management data and methods of implementation should be discussed in this section. These may include Logistic Support Analysis (LSA), Level of Repair (LOR) Analysis, and other computational means for deriving logistics decisions. In addition, milestone charts of key events should be included for each logistic element. Management methods and responsible codes/activities shall be identified.

VIII. Section 7.0 Logistic Element Management.

This section shall summarize logistic element management actions and responsibilities for the Demonstration and Validation Phase. The following subsections shall be addressed in accordance with the logistic element descriptions promulgated by DODD 5000.39.

- 7.1 The Maintenance Plan
- 7.2 Manpower and Personnel
- 7.3 Supply Support (including Initial Provisioning)
- 7.4 Support and Test Equipment
- 7.5 Training and Training Devices
- 7.6 Technical Data
- 7.7 Computer Resources Support
- 7.8 Packaging, Handling, Storage and Transportation
- 7.9 Facilities
- 7.10 Logistics Funding

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7.1 The Maintenance Plan.

The Maintenance Plan is the foundation for all logistics support planning. The Maintenance Plan section of the ILSP for the Demonstration and Validation Phase shall contain:

- . Maintenance Concept
- . An estimate of anticipated maintenance capabilities
- . A proposed maintenance plan, encompassing an evaluation of feasible alternatives
- . Maintenance evaluation criteria
- . A definition of Reliability and Maintainability (R&M) guidelines that shall be used to meet operational readiness criteria
- . A description of anticipated interim support.

7.2 Manpower and Personnel

This section of the ILSP shall identify the manpower and personnel requirements for the operation and maintenance of the procured system/equipment. The ILSP shall identify:

- . Anticipated skill levels of operators
- . New skill requirements
- . Number and skill levels of maintenance personnel according to the proposed maintenance plan.

7.3 Supply Support (including Initial Provisioning).

This section of the ILSP shall indicate the anticipated supply support objective for the life cycle of the system/equipment. The Milestone I ILSP shall describe plans for supply support during each phase. If standard Navy supply channels are to be used for provisioning, it should be so stated. Procedures for contractor support shall be explained, if applicable. If contractor support is used as an interim measure, the transition to the Navy Supply System shall be discussed.

The Primary Inventory Control Activity (PICA) and Principal Development Activity (PDA) shall be identified.

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Planned implementation of support procedures, requisitioning procedures, and interservice requirements, shall be discussed here. If Government-Furnished Equipment (GFE) or Contractor-Furnished Equipment (CFE) is required, such requirements shall be identified. In addition, related provisioning actions shall be explained and administration of support requirements outlined.

7.4 Support and Test Equipment.

The Support and Test Equipment (S&TE) section of an ILSP shall address the following requirements:

- . Planned schedules for availability of General Purpose Electronic Test Equipment (GPETE), Automatic Test Equipment (ATE), and Special Purpose Electronic Test Equipment (SPETE) requirements;
- . Planned development dates and minimum system/equipment measurement requirements for GPETE, SPETE and ATE;
- . Calibration requirements for SPETE (including procedures, intervals and standards);
- . Noun name and minimum measurement requirements of support and test equipment to be required;
- . Intervals for reviewing Built-In Testing (BIT) and Built-In Test Equipment (BITE) during the acquisition.

In addition, the ILSP shall include a Support and Test Equipment Maintenance Plan Development Chart, in accordance with the suggested format shown in Figure 6-3.

7.5 Training and Training Devices.

This section of the ILSP shall discuss the proposed training concept to be applied to the acquisition.

Anticipated types of training required for operator, maintenance, and supervisory personnel shall be described. Training equipment including prime equipment, training devices and related support equipment, and test equipment shall be identified.

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7.6 Technical Data.

This section of the ILSP shall identify the type and quality of Technical Data to be required for the acquisition. The ILSP shall address the following issues, where applicable:

- . Technical data acquisition policy
- . Agency responsible for development of technical manuals
- . Development/provision of contractor-furnished technical manuals
- . Development/provision of government-furnished technical manuals
- . Technical data management and quality assurance procedures
- . Technical manual validation and verification procedures
- . Storage and retrieval procedures
- . Technical manual change control procedures.

Anticipated technical data requirements for software support, if known, shall be referenced herein and discussed in detail in Section 7.7.

7.7 Computer Resources Support.

The Computer Resources support section of an ILSP shall define those tasks, procedures, and functions to be performed in support of the computer hardware, software, and firmware associated with the acquisition. This section of the ILSP shall be prepared in accordance with NAVELEXINST 5200.23, Appendix E. If a Computer Resources Life Cycle Management Plan (CRLCMP) has been prepared for the program, this section of the ILSP should summarize the software support program while referencing the CRLCMP for detail. Documentation requirements for

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software shall be addressed according to the format in Figure 6-4. This list is comprehensive. All or part of the documentation may be required during any phase of the system acquisition, depending upon how the software acquisition cycle interfaces with the system cycle. The organizations responsible for management of the software during the acquisition process shall be addressed in a format including responsible activity, points of contact, and phone numbers. The Software Management Organization includes:

- . Acquisition Management Offices
- . Computer Resources Manager
- . Software Change Review Board
- . Software Support Activity
- . Operational Advisor
- . Technical Advisors
- . Software Development Activity
- . Third-Party Software Monitor.

Software training shall be addressed in the applicable sections of the ILSP and referenced in the Computer Resources Support section.

7.8 Packaging, Handling, Storage and Transportation (PHS&T).

This section of the ILSP shall address the anticipated PHS&T plan, including standard transportation procedures and any special requirements anticipated for the system/equipment.

7.9 Facilities.

The facilities section of the ILSP shall address the following issues:

- . Facilities policy and specifications, where applicable
- . The process of identification and planning for facilities requirements
- . Funding.

Facilities planning for any program should begin with an assessment of the adequacy of currently existing facilities. Programs requiring new or extended facility capacity should identify their needs as early as possible in the program life cycle. In cases where new facilities requiring MILCON

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funding are identified, planning should be coordinated with cognizant NAVFAC codes so that construction schedules can be coordinated with other program milestones.

In cases where new facilities need to be acquired, the requirements for a Facility Development and Acquisition Plan should be defined so that Beneficial Occupancy Dates (BOD) for system deployment/operation can be met.

7.10 Logistics Program Funding Plan.

The Logistics Program Funding Plan (Enclosure 4) shall be completed for each major acquisition to allow for complete budget and resource planning during the life cycle of the system/equipment. This enclosure contains a detailed explanation of each subset of individual logistic elements requiring resource allocation.

XVII. Classified Appendices

The body of the ILSP shall contain only unclassified material to allow the broadest use of the plan. Classified data should be referenced in the body of the ILSP and contained in a separately bound classified appendix with a security classification assigned in accordance with NAVELEXINST 5510.3.

SUGGESTED TOPIC OUTLINE FOR
DEMONSTRATION AND VALIDATION PHASE ILSP

- 1.0 Introduction
 - 1.1 Scope
 - . Purpose - Authority
 - . Unique characteristics or constraints
 - . Method of introduction into the Fleet
 - 1.2 Historical Data
 - 1.3 Applicable Planning Documents
 - 1.4 System/Equipment Mission and Use
 - 1.5 Logistics Philosophy
- 2.0 System/Equipment Description, Delivery, and Installation Plan
 - 2.1 Physical and Functional System/Equipment Description
 - . Environmental impact considerations
 - . Performance/operational parameters
 - . Physical characteristics
 - 2.2 Hardware Procurement Schedule
 - 2.3 Delivery Schedule
 - 2.4 Installation Schedule (if applicable)
- 3.0 Related Programs
 - 3.1 System/Equipment Interface
 - . Operation
 - . Maintenance
 - 3.2 Standardization
 - 3.3 Configuration Management
 - . Instructions
 - . Objectives
 - . CM Plans (if applicable)
 - . Activity responsible for Configuration Control
 - . Interface responsibility and agreements
 - . Procedures

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- 4.0 Planning/Programming
- 5.0 Major ILS Events
 - 5.1 Acquisition Management Planning
 - 5.2 ILS Requirements Planning
- 6.0 Logistics Management
 - 6.1 Integrated Logistic Support Management Team (ILSMT)
 - . Objective
 - . Organizational functions
 - . Responsibilities
 - . Interface responsibilities
 - . Members (name, function, organizational code, telephone number)
 - 6.2 Schedule of meetings
 - 6.3 Logistics Management Data (as applicable)
 - . LSA, LOR
 - . Utilization of data
 - . Management method
 - . Responsible codes/activities.
- 7.0 Logistic Element Management
 - 7.1 The Maintenance Plan
 - 7.1.1 The Maintenance Concept
 - 7.1.2 The Proposed Maintenance Plan
 - . Organizational
 - . Intermediate
 - . Depot
 - . Alternatives
 - 7.1.3 Maintenance Evaluation Criteria
 - 7.1.4 Required Maintenance Skills
 - 7.1.5 Reliability and Maintainability Data
 - 7.1.6 Interim Support (Maintenance)
 - 7.2 Manpower and Personnel
 - 7.2.1 Anticipated Skill Levels (including new skills)
 - . Operator personnel
 - . Maintenance personnel
 - 7.2.2 Projected Manning Levels (if applicable)
 - 7.3 Supply Support (including Initial Provisioning)
 - 7.3.1 Supply Support Objective
 - . Standard Navy Supply Channels and Provisioning Procedures
 - . Contractor Support
 - . Transition to Navy Supply System

- 7.3.2 Implementation of Supply Support Procedures
 - . Requisitioning procedures
 - . Interservice requirements
 - . PICA
 - . PDA
- 7.3.3 Provisioning Actions
- 7.4 Support and Test Equipment
 - 7.4.1 General Purpose Electronic Test Equipment
 - . Planned requirements
 - . Development dates
 - 7.4.2 Special Purpose Electronic Test Equipment
 - . Planned requirements
 - . Development dates
 - . Calibration
 - 7.4.3 BIT/BITE
 - 7.4.4 ATE
 - 7.4.5 S&TE Maintenance Plan
- 7.5 Training and Training Devices
 - 7.5.1 Proposed Training Concept
 - 7.5.2 Anticipated Training
 - . Operator personnel
 - . Maintenance personnel
 - . Supervisory personnel
 - 7.5.3 Training Equipment
 - . Prime equipment
 - . Support equipment
 - . Test equipment
- 7.6 Technical Data
 - 7.6.1 Technical Data Acquisition
 - . Technical manual development
 - . Contractor-furnished technical manuals
 - . Government-furnished technical manuals
 - 7.6.2 Validation and verification
 - 7.6.3 Change Control Procedures
- 7.7 Computer Resources Support
 - 7.7.1 Software Program Management
 - . Software program schedule
 - . Funding requirements
 - 7.7.2 Management Organizations Responsible for Computer Resources Support

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- 7.7.3 Documentation
 - . Computer Resources Life Cycle Management Plan
 - . Software Configuration Management Plan
 - . Other Documentation
- 7.8 Packaging, Handling, Storage and Transportation
 - 7.8.1 Standard Procedures
 - 7.8.2 Special Requirements
- 7.9 Facilities
 - 7.9.1 General Facility Requirements
 - . Adequacy of existing facilities
 - . Installation requirements (installation, testing and integration, certification)
 - . Base Electronic Systems Engineering Plan (BESEP) Interface
 - 7.9.2 Special requirements
 - 7.9.3 Maintenance Facility Requirements
 - 7.9.4 Training Facility Requirements
 - 7.9.5 Other Facility Planning Factors
- 7.10 Logistics Funding

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ILSP CONTENT FOR MILESTONE II
FULL SCALE ENGINEERING DEVELOPMENT (FSED)

INTRODUCTION

As an acquisition progresses from the Demonstration and Validation phase to Full Scale Engineering Development (Milestone II), logistics activity increases, and the Integrated Logistic Support Plan becomes more detailed, describing the elements of logistic support in greater depth.

The ILSP during this phase is a revision of the original document approved at Milestone I. However, at this point, definitive planning for the Full Scale Engineering Development phase has been implemented, with goals established for transition to initial stages of the Production Phase. At this time in the Acquisition Cycle, it is necessary to effect ILS for the FSED Phase and consolidate planning for Production/Deployment.

The FSED Phase ILSP shall include logistic planning information on the following elements:

- . The Maintenance Plan
- . Manpower and Personnel
- . Supply Support (including Initial Provisioning)
- . Support and Test Equipment
- . Training and Training Devices
- . Technical Data
- . Computer Resources Support
- . Packaging, Handling, Storage and Transportation
- . Facilities
- . Logistics Funding

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OUTLINE FOR THE GENERATION OF
ILSPs DURING FULL SCALE
ENGINEERING DEVELOPMENT PHASE
(MILESTONE II) OF AN ACQUISITION

I. Front Matter.

The front matter of the ILSP shall include the following:

- . Front Cover
- . Title Page, including date of publication
- . Signature Sheet
- . Record of Changes
- . List of Applicable Pages
- . Distribution List
- . Table of Contents
- . List of Illustrations/Tables
- . ILSP Administration
- . List of Terms and Acronyms.

II. Section 1.0 Introduction. (Program Purpose, Scope, Highlights, Background, and Constraints)

The Introduction shall be written to provide each participant in the program with a brief synopsis of the scope of the acquisition in terms of purpose, unique characteristics or constraints, and the method by which the system/equipment shall be introduced into the Fleet (i.e., Fleet Modernization Program, new procurement, or new construction program). The Introduction shall outline historical data from the concept formulation phase, if applicable. It shall state whether the system supplants existing systems and what the expected improvements to the Fleet are in performance, cost, R&M, or operational availability. This section shall reference applicable planning documents in accordance with NAVELEXINST 4000.6C.

III. Section 2.0 System/Equipment Description, Delivery, and Installation Plan.

Physical and Functional System/Equipment Descriptions shall include:

- . Environmental impact considerations
- . Performance/operational parameters
- . Physical characteristics.

Drawings, photographs, specifications, and block diagrams of the system/equipment may be included in this section. Hardware procurement schedules shall be outlined, as well as projected delivery and installation schedules.

IV. Section 3.0 Related Programs.

This section provides the technical data and management interfaces of the ILS program to related programs as defined below:

- . System/Equipment Interfaces: This section shall identify equipment/system interfaces required for operation and maintenance throughout the operational life cycle of the system/equipment.
- . Standardization: This section shall address planned use for the standard electronic module programs, Government Industry Data Exchange Program (GIDEP) and other standard programs as applicable.
- . Configuration Management: This section shall address the objectives of configuration management and how it shall be accomplished under the designated acquisition for the system/equipment.
- . Human Factors Since the items may be developed or procured by a separate contractor, an intraservice effort, a multi-service effort, or a government activity, a listing of persons responsible for the various aspects of the configuration management effort shall be included. If more than one of the above is involved, a statement as to how they propose to interface with each other shall also be included. Configuration Management Plans applicable to the specific program or item should be listed.

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V. Section 4.0 Planning/Programming.

An ILS program planning schedule shall be developed showing requirements necessary for the preparation of each logistic element, in order to demonstrate that adequate planning has been considered for the development of an integrated logistic support program. This schedule shall be revised from the previous phase to reflect the development process for information and documentation necessary to properly support the system/equipment being procured. Figure 6-1 is a representative example of an ILS planning schedule which shall include, but not be limited to, the following:

- . ILS Management and Funding
- . Maintenance Plan
- . Manpower and Personnel
- . Supply Support (including Initial Provisioning)
- . Support and Test Equipment
- . Training and Training Devices
- . Technical Data
- . Computer Resources Support
- . Packaging, Handling, Storage and Transportation
- . Facilities.

VI. Section 5.0 Major ILS Events (Chronological)

This section shall contain a Milestone Summary which shall relate anticipated significant ILS events to major program milestones (see Figure 6-2), thus ensuring that acquisition management planning and ILS planning can be coordinated in accordance with DODD 5000.39, DODD 5000.1, DODI 5000.2, and NAVELEXINST 4000.6C.

VII. Section 6.0 Logistics Management

This section of an ILSP shall present the Logistics Management network with particular emphasis placed upon the structure, objectives, function, and responsibilities of the ILSMT. If there is to be no ILSMT, it should be so stated, and the alternative method for logistics management should be explained.

The logistics management methods implemented for the acquisition should be discussed in this section. Proposed methodology for utilization and management of data obtained from LSA, LOR, and similar analyses, together with responsible codes/activities, should also be described.

VIII. Section 7.0 Logistic Element Management.

This section shall summarize logistic element management actions and responsibilities for the Full Scale Engineering Development Phase. It shall contain the following subsections, in accordance with the logistic element descriptions promulgated by DODD 5000.39.

- 7.1 The Maintenance Plan
- 7.2 Manpower and Personnel
- 7.3 Supply Support (including Initial Provisioning)
- 7.4 Support and Test Equipment
- 7.5 Training and Training Devices
- 7.6 Technical Data
- 7.7 Computer Resources Support
- 7.8 Packaging, Handling, Storage and Transportation
- 7.9 Facilities
- 7.10 Logistics Funding.

7.1 The Maintenance Plan

This section of the ILSP shall include an outline of the maintenance concept describing the manner in which the system/equipment shall be maintained. The Department of the Navy authorizes maintenance to be performed at three levels: Organizational, Intermediate, and Depot (O, I & D). The maintenance section of the Milestone II ILSP shall:

- . Mention the three levels of maintenance even though all three may not be used;
- . Describe how each level of maintenance shall be utilized. If all three levels are not used, the reason for omission should be stated;
- . Designate the intermediate and depot maintenance activities;

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- . Define planned and corrective maintenance tasks at each level, including generation of Maintenance Requirements Cards (MRCs), Maintenance Index Pages (MIPs), and their respective feedback systems;
- . Define special maintenance skills and quantities required for each level;
- . List Maintenance Support Equipment required for each maintenance level;
- . Define the maintenance plan for Support and Test Equipment (S&TE);
- . Describe provisions for special maintenance personnel, equipment, or facilities;
- . Assign maintenance tasks for software maintenance;
- . Delineate safety procedures;
- . Reference the Depot Maintenance Interservice Support Agreement (DMISA), if interservice support shall be required;
- . Provide R&M Data such as:
 - Mean Time Between Failure (MTBF)
 - Mean Time To Repair (MTTR)
 - Operational Availability (Ao)
- . Include a description of interim support being provided before Approval for Service Use (ASU);
- . Outline procedures for obtaining technical services, such as Mobile Technical Units (MOTUs).

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7.2 Manpower and Personnel

This section shall identify the personnel requirements and skill levels necessary for successful completion of the system/equipment mission under all normal conditions of readiness (I, II, III, IV, and V). Both operational manning and maintenance manpower requirements at all applicable maintenance levels should be addressed. Manning levels and schedules should be identified by maintenance level for each anticipated field site.

The ILSP shall reference the manning concept, related manpower documents, and Navy Training Plan (NTP) related to the acquisition.

7.3 Supply Support (including Initial Provisioning).

This section shall discuss the status of Supply Support planning developed during the previous phase and being implemented for Full Scale Engineering Development.

Supply Support requirements and planning for Production and Deployment shall also be addressed. Anticipated requirements for contractor and organic support shall be outlined, including provisions for Early Supply Support, Installation and Checkout Spares, and Interim Supply Support.

Agencies and contractors responsible for supply support implementation shall be identified.

7.4 Support and Test Equipment.

The Support and Test Equipment (S&TE) section of an ILSP shall address all requirements for the system/equipment. The data to be contained in this section includes:

- . Planned dates for General Purpose Electronic Test Equipment (GPETE), Automatic Test Equipment (ATE), and Special Purpose Electronic Test Equipment (SPETE) requirements;
- . Planned development dates and minimum measurement requirements for GPETE, SPETE, and ATE;

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- . Calibration requirements for SPETE (including procedures, intervals and standards);
- . Noun name and minimum measurements of equipment to be required;
- . Intervals for reviewing Built In Testing (BIT) and Built In Test Equipment (BITE) during the acquisition.

A Support and Test Equipment Maintenance Plan Development Chart in the format of Figure 6-3 shall be included.

7.5 Training and Training Devices

This section of the ILSP shall discuss the training concept to be applied for the system/equipment. Development of the NTP shall be addressed. In addition, schedules for applicable Navy Training Plan Conferences (NTPCs) shall be set forth. A list of participants at the NTPC, together with points of contact and telephone numbers, shall be included.

The types of training for operator, maintenance, and supervisory personnel shall be addressed. Contractor and organic training requirements, as well as interservice training requirements, shall be identified.

A separate paragraph shall address required training devices. It shall reference related support and test equipment and spare parts for maintenance of the training devices. Tools and Test Equipment (TTE), Prefaulted Modules (PFMs), and the interface between training hardware and software shall also be described.

A Training Equipment Checklist shall be included. Purchases requiring Special Project Approval should be addressed individually.

7.6 Technical Data.

This section of the ILSP shall describe the requirements for development of technical logistic data, including technical manuals, in support of the designated system/equipment. The designated LEM and members of the ILSMT having

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responsibility for management and development of technical data shall be identified. Specific technical data requirements that must be addressed include the following:

- . Program technical data management and quality assurance procedures
- . Development of contractor-furnished technical manuals
- . Development of government-furnished technical manuals
- . Technical manual validation and verification
- . Technical manual change control procedures
- . Development of Technical Manuals for Support and Test Equipment
- . Storage and retrieval procedures
- . PMS Engineering Drawings.

Agencies or contractors having responsibility for development of government-furnished and contractor-furnished technical manuals should be identified. Technical data acquisition and development procedures should be monitored to track the acquisition of related hardware and software.

Technical data required to support the system software should be coordinated and cross-referenced to the information contained in the Computer Resources Support section (Section 7.7) of the ILSP.

7.7 Computer Resources Support

The Computer Resources Support section of an ILSP shall define those tasks, procedures, and functions to be performed in support of the computer hardware, software, and firmware associated with the acquisition. This section of the ILSP shall be prepared in accordance with NAVELEXINST 5200.23, Appendix E. If a Computer Resources Life-Cycle Management Plan

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(CRLCMP) has been prepared for the program, this section of the ILSP should summarize the software support program while referencing the CRLCMP for details. Documentation requirements for software shall be addressed according to the format in Figure 6-4. This list is comprehensive: all or part of the documentation may be required during any phase of the system acquisition, depending upon how the software acquisition cycle interfaces with the system cycle. Organizations responsible for management of the software during the acquisition process shall be identified in a format including responsible activity, points of contact, and phone numbers. The Software Management Organization includes:

- . Acquisition Management Offices
- . Computer Resources Manager
- . Software Change Review Board
- . Software Support Activity
- . Operational Advisor
- . Technical Advisors
- . Software Development Activity
- . Third-Party Software Monitor

Software training shall be addressed in the applicable section of the ILSP (Section 7.5) and referenced in the Computer Resources Support section.

7.8 Packaging, Handling, Storage, and Transportation (PHS&T).

This section shall briefly describe PHS&T requirements for the system/equipment being addressed. Standard operating procedures for PHS&T should not be described in detail in an ILSP. However, the documents describing these procedures should be referenced. These documents include: MILSTAMP, MILSTRIP, the Military Traffic Management Regulation (NAVSUPINST 4600.70), along with MIL-SPECs and MIL-STDs.

This section shall include a description of the size and weight of material, as well as the method of shipment. Special shipping or handling requirements for the material involved, e.g., large, bulky, or sensitive items, shall be stated. Procedures for complying with special handling requirements may supplement the text or be contained in an appendix.

7.9 Facilities.

The facilities section of the ILSP for a program's FSED phase shall reference the facilities policy and specifications discussed in the ILSP for the Demonstration/Validation Phase. The planning process undertaken to provide for adequate program facilities shall be described, and should address any planning, acquisition, and development milestones identified to date.

Existing facilities considered adequate for program needs should be identified. Any modifications or changes required for program mission implementation should be described.

If new facilities requiring MILCON funding are identified, planning should be coordinated with cognizant NAVFAC codes so that construction schedules can be coordinated with other program milestones. If new facilities must be acquired, the Facility Development and Acquisition Plan should be referenced and applicable milestones identified so that Beneficial Occupancy Dates (BOD) for system deployment/operation can be met.

7.10 Logistics Funding.

The Logistics Program Funding Plan (Enclosure 4) shall be completed for each major acquisition to allow for complete budget and resource planning during the life cycle of the system/equipment. Attached to this figure is a detailed explanation of each subset of individual logistic elements requiring resource allocation.

IX. Classified Appendices.

The body of the ILSP shall contain only unclassified material to allow the broadest use of the plan. Applicable classified material should be referenced in the body of the ILSP, and contained in a separately bound classified appendix with a security classification assigned in accordance with NAVELEXINST 5510.3.

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SUGGESTED TOPIC OUTLINE FOR FULL SCALE ENGINEERING
DEVELOPMENT PHASE ILSP

- 1.0 Introduction
 - 1.1 Scope
 - . Purpose
 - . Unique characteristics or constraints
 - . Method of introduction into the Fleet
 - 1.2 Historical Data
 - 1.3 Applicable Planning Documents
- 2.0 System/Equipment Description, Delivery, and Installation Plan
 - 2.1 Physical and Functional System/Equipment Description
 - . Environmental impact considerations
 - . Performance/operational parameters
 - . Physical characteristics
 - 2.2 Hardware Procurement Schedule
 - 2.3 Delivery Schedule
 - 2.4 Suggested Outline for TECHEVAL/OPEVAL
- 3.0 Related Programs
 - 3.1 System/Equipment Interfaces
 - . Operation
 - . Maintenance
 - 3.2 Standardization
 - 3.3 Configuration Management
 - . Instructions
 - . Objectives
 - . CM Plans, if required
 - . Activity responsible for configuration control
 - . Interface responsibilities and agreements
 - . Engineering Change Proposal (ECP)
 - Approval Authority
 - Procedures
- 4.0 Planning/Programming
 - 4.1 Logistic Element Requirements
 - 4.2 Planning schedule
- 5.0 Major ILS Events
 - 5.1 Acquisition Management Planning
 - 5.2 ILS Requirements Planning

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- 6.0 Logistics Management
 - 6.1 Integrated Logistic Support Management Team
 - . Objective
 - . Organizational functions
 - . Responsibilities
 - . Interface responsibilities
 - . Members (name, function, organizational code, telephone number)
 - 6.2 Schedule of Meetings
 - 6.3 Logistics Data
 - . LSA, LOR
 - . Proposed Management Method
 - . Responsible codes/activities

- 7.0 Logistic Element Management
 - 7.1 The Maintenance Plan
 - 7.1.1 The Maintenance Concept
 - Organizational maintenance
 - Intermediate maintenance
 - Depot maintenance
 - 7.1.2 Maintenance Activities (Location)
 - Intermediate
 - Depot
 - 7.1.3 Maintenance Tasks
 - Preventive maintenance
 - Corrective maintenance
 - 7.1.4 Maintenance Support Equipment
 - 7.1.5 Maintenance Personnel
 - Skills required
 - Quantities
 - 7.1.6 Software Maintenance
 - 7.1.7 Interservice Support
 - 7.1.8 Reliability and Maintainability
 - MTBF
 - MTTR
 - 7.1.9 Interim Support
 - 7.1.10 Technical Services
 - 7.2 Manpower and Personnel
 - 7.2.1 Operational Manning Requirements
 - Anticipated number of billets required at each site (reference related Navy Enlisted Classification (NEC))
 - . Officer Billet Summary
 - . Summary of Enlisted Manning Requirements

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- Skill level
- Skills required
- Applicable rates/ratings
- Reductions or restrictions on operational capability during reduced manning periods
- Degree of supervision required
- 7.2.2 Maintenance Manpower Requirements
 - Numbers and skill levels of maintenance personnel at each level of repair, by site
 - Applicable Maintenance Plans
- 7.2.3 Ship/Shore Manning Document (SMD)
 - Impact on SMD
- 7.3 Supply Support (including Initial Provisioning)
 - 7.3.1 Supply Support Objective
 - Standard Navy supply channels provisioning procedures
 - Contractor support
 - Transition to Navy Supply System
 - 7.3.2 Implementation of Supply Support Procedures
 - Requisitioning procedures
 - Interservice requirements
 - 7.3.3 Provisioning Actions
- 7.4 Support and Test Equipment
 - 7.4.1 General Purpose Electronic Test Equipment
 - Planned requirements
 - Development dates
 - 7.4.2 Special Purpose Electronic Test Equipment
 - Planned requirements
 - Development requirements
 - Calibration
 - 7.4.3 BIT/BITE
 - 7.4.4 ATE
 - 7.4.5 S&TE Maintenance Plan
- 7.5 Training and Training Devices
 - 7.5.1 Training Requirements Overview
 - Organic, contractor, and interservice training requirements
 - Types of training by personnel category
 - Schedules and locations of classes

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- 7.5.2 NTPC
 - Milestone Schedule
 - Prospective Attendees
- 7.5.3 Training Equipment
 - Training equipment checklist (Prime Equipment: Simulators/Stimulators)
 - Related support and test equipment
 - Spare parts and maintenance requirements
 - Audio-visual, instructor's guides, and other training aid requirements
- 7.5.4 Instructor Advisory Services
- 7.6 Technical Data
 - 7.6.1 Technical Data Acquisition Procedures
 - Responsible activities
 - List of required technical documentation
 - List of hardware-related documentation
 - Technical Manual Organization Plan (where applicable)
 - Software Data and Manuals
 - Technical Manual Management Team
 - 7.6.2 Technical Data Quality Assurance and Maintenance Procedures
 - Quality assurance
 - Printing and distribution requirements
 - Validation/verification and acceptance
 - Technical manual change control procedures
 - Storage and retrieval
- 7.7 Computer Resources Support
 - 7.7.1 Software Program Management
 - Software program schedule
 - Funding requirements
 - 7.7.2 Management Organizations Responsible for Computer Resources Support
 - 7.7.3 Documentation
 - Computer resources life cycle management plan
 - Software configuration management plan
 - Other documentation

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7.8 Packaging, Handling, Storage and Transportation

7.8.1 Standard Procedures

- Destination
- Transportation modes (according to equipment)
- Estimated weight and cube of material to be handled, shipped, or stored
- Storage considerations to include environmental constraints and length of storage (shelf life).

7.8.2 Special Packaging, Handling, Storage and Transportation Requirements

- Requirements for reuseable containers, returnable cases/cable reels, personnel, procedures, handling equipment, packaging, packing, routing, delivery time, storage, etc.
- Security marking, possible deterioration and other items not normally associated with transport and handling of electronic equipment;
- Weight, cube, overall dimensions and special shape information for large, heavy items that may require development of special handling slings, etc.
- Hazardous considerations, i.e., contaminated materials, radioactive, magnetic or materials that may contain mercury or other toxic materials requiring special handling/storage.

7.9 Facilities

7.9.1 General Facility Requirements

- Recommended modifications/changes to existing facilities
- Installation requirements (installation, testing and integration, certification)
- Base Electronic Systems Engineering Plan (BESEP) Interface
- Special requirements

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- 7.9.2 Facility Development and Acquisition
Planning (where applicable)
- 7.9.3 Maintenance Facility Requirements
- 7.9.4 Training Facility Requirements
- 7.9.5 Other Facility Planning Factors

7.10 Logistics Funding

ILSP CONTENT FOR MILESTONE III
PRODUCTION AND DEPLOYMENT

INTRODUCTION

As an acquisition reaches Milestone III, (Production and Deployment), ILS reaches full implementation and the ILSP contains both historical data and detailed planning for OPEVAL/TECHEVAL. During Milestone III the system/equipment undergoes ASU and adequate ILS must be certified to NAVELEX 08 by the ILSM. The ILSP now covers the transition between the planning documentation developed in the program's earlier phases and logistics activity during production, and the preparation of the user-oriented OLSS to be implemented during system/equipment deployment.

The ILSP for Production and Deployment will include logistic planning information on the following elements:

- . The Maintenance Plan
- . Manpower and Personnel
- . Supply Support (including Initial Provisioning)
- . Support and Test Equipment
- . Training and Training Devices
- . Technical Data
- . Computer Resources Support
- . Packaging, Handling, Storage and Transportation
- . Facilities
- . Logistics Funding.

ANNOTATED OUTLINE FOR THE GENERATION OF ILSPs DURING THE
PRODUCTION AND DEPLOYMENT PHASE (MILESTONE III)
OF AN ACQUISITION

I. Front Matter.

The front matter of the ILS Plan shall include the following:

- . Front Cover
- . Title Page, including Date of Publication
- . Signature Sheet
- . Record of Changes
- . List of Applicable Pages
- . Distribution List
- . Table of Contents
- . List of Illustrations/Tables
- . ILSP Administration
- . List of Terms and Acronyms.

II. Section 1.0 Introduction. (Program Purpose, Scope, Highlights, Background, and Constraints)

The Introduction will be written to provide each participant in the program with a brief synopsis of the scope of the acquisition in terms of purpose, unique characteristics or constraints, and the method by which the system/equipment will be introduced into the Fleet (i.e., Fleet Modernization Program, new procurement, or new construction program). The Introduction shall outline historical data from the Concept Formulation and Full Scale Engineering Development phases. It shall state whether the system supplants existing systems and what the expected improvements to the Fleet are in performance, cost, R&M, or operational availability. This section shall reference applicable planning documents in accordance with NAVELEXINST 4000.6C.

III. Section 2.0 System/Equipment Description, Delivery, and Installation Plan.

Physical and Functional System/Equipment Descriptions will be provided including:

- . Environmental impact considerations
- . Performance/operational parameters
- . Physical characteristics.

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Drawings, photographs, specifications, and block diagrams of the system/equipment may be included in this section. Hardware procurement schedules will be outlined, as well as projected delivery and installation schedules.

IV. Section 3.0 Related Programs.

This section provides the technical data and management interfaces of the ILS program to related programs as defined below:

- . System/Equipment Interfaces: This section shall identify equipment/system interfaces required for operation and maintenance, and use throughout the operational environment.
- . Standardization: This section shall address planned use for the Standard Electronic Module Programs, Government/Industry Data Exchange Program (GIDEP), and other standard programs as applicable.
- . Configuration Management: This section shall address the objectives of configuration management and how it shall be accomplished under the designated acquisition for the system/equipment.

Since the items may be developed or procured by a separate contractor, an intraservice effort, a multi-service effort, or a government activity, a listing of persons responsible for the various aspects of configuration management effort shall be included. If more than one of the above is involved, a statement as to how they propose to interface with each other shall also be included. Configuration Management Plans applicable to the specific program or item should be listed.

V. Section 4.0 Planning/Programming.

An ILS program planning schedule will be developed showing the detailed requirements necessary for the preparation

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of each logistic element in order to demonstrate that adequate planning has been considered for the development of an integrated logistic support program. This schedule will depict the development process for information and documentation necessary to properly support the system/equipment being procured. Figure 6-1 is a Sample ILS Planning Schedule which shall include, but not be limited to, the following:

- . The Maintenance Plan
- . Manpower and Personnel
- . Supply Support
- . Support and Test Equipment
- . Training and Training Devices
- . Technical Data
- . Computer Resources Support
- . Packaging, Handling, Storage and
Transportation
- . Facilities
- . Logistics Funding.

VI. Section 5.0 Major ILS Events (Chronological)

This section shall contain a Milestone Summary (Figure 6-2) which shall relate anticipated significant ILS events to major program milestones. This will ensure that acquisition management planning and ILS planning are coordinated, augmenting each other in accordance with DODD 5000.39, DODD 5000.1, DODI 5000.2, and NAVELEXINST 4000.6C.

VII. Section 6.0 Logistics Management

This section of the ILSP shall present the Logistics Management network with particular emphasis placed upon the structure, objectives, functions, and responsibilities of the ILSMT. If there is to be no ILSMT, it should be so stated, and the alternative method for logistics management should be explained.

Logistics management methods which have been used for the program, e.g., LSA, LOR, and other computational means for deriving logistics decisions, should be referenced. This discussion shall address utilization of the data, management method, and responsible codes/activities.

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VIII. Section 7.0 Logistic Element Management.

This section shall summarize logistic element management actions and responsibilities for the Production and Deployment Phase. It shall contain the following ten subsections, in accordance with the logistic element descriptions promulgated by DODD 5000.39.

- 7.1 The Maintenance Plan
- 7.2 Manpower and Personnel
- 7.3 Supply Support (including Initial Provisioning)
- 7.4 Support and Test Equipment
- 7.5 Training and Training Devices
- 7.6 Technical Data
- 7.7 Computer Resources Support
- 7.8 Packaging, Handling, Storage and Transportation
- 7.9 Facilities
- 7.10 Logistics Funding.

7.1 The Maintenance Plan.

The Maintenance Plan in the ILSP for Milestone III, Production/Deployment, shall set forth the maintenance concept describing the manner in which the end item or system will be maintained to achieve program availability. The Department of the Navy authorizes maintenance to be performed at the Organizational, Intermediate, and Depot levels. The Maintenance section of the ILSP shall:

- . Mention all three levels of maintenance even though all three may not be used;
- . Describe how the levels are to be utilized and if all three are not going to be used, the reason for omission;
- . Designate the intermediate and depot maintenance activities;

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- . Define planned and corrective maintenance tasks at each level including MRCs, MIPs, and their feedback systems;
- . Define special maintenance skills and quantities required for each level;
- . List Maintenance Support Equipment required for each maintenance level;
- . Define the maintenance plan for S&TE;
- . Describe provisions for special maintenance personnel, equipment, or facilities;
- . Assign maintenance tasks for software maintenance;
- . Delineate safety procedures;
- . Reference the DMISA, if interservice support is required;
- . Provide R&M data such as:
 - Mean Time Between Failure
 - Mean Time to Repair
 - Operational Availability (Ao).

In addition, the maintenance plan shall include a description of any interim maintenance or contractor support being provided. Procedures for obtaining services such as MOTUs will be outlined.

7.2 Manpower and Personnel.

This section shall identify the personnel requirements and skill levels necessary for successful completion of the system/equipment mission under all normal conditions of readiness (I, II, III, IV, and V). Both operational manning and maintenance manpower requirements at all applicable maintenance levels should be addressed. Manning levels and schedules should be identified for each field site and by maintenance level.

When applicable, the ILSP should reference the manning concept, related manpower documents, and NTPs related to the subject system/equipment.

7.3 Supply Support (including Initial Provisioning).

This section shall discuss the status of Supply Support planning developed during the previous phases and being implemented for production and deployment.

Anticipated requirements for contractor and organic support will be outlined, including provisions for Early Supply Support.

Agencies and contractors responsible for supply support implementation will be identified.

An Interim Repair Parts List, Interim Support Procedures, Allowance Parts List Numbers, and projected Navy Support Date will be included.

7.4 Support and Test Equipment.

The Support and Test Equipment (S&TE) section of the ILSP shall address all requirements, as they are identified for the system/equipment. The data to be annotated in this section includes:

- . Planned dates of requirements definition for the program's General Purpose Electronic Test Equipment (GPETE), Automatic Test Equipment (ATE), and Special Purpose Electronic Test Equipment (SPETE) requirements.
- . Calibration requirements for SPETE (including procedures, intervals, and standards)
- . Noun name and minimum measurements of equipment required.
- . Intervals for reviewing Built-In Testing (BIT) and Built-In Test Equipment (BITE).

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In addition, the ILSP shall include a Support and Test Equipment Maintenance Plan Development Chart in the format of Figure 6-3.

7.5 Training and Training Devices.

This section of the ILSP shall begin with a discussion of the training concept and reference applicable NTPs. In addition, schedules for applicable NTPCs will be provided. A list of participants at the NTPC, together with points of contact and telephone numbers will be included.

The types of training for operator, maintenance, and supervisory personnel will be addressed: organic, contractor, and interservice training requirements will be identified.

There will be a separate section on training devices. It should reference related support and test equipment and spare parts needed for maintenance of the training devices. Tools and Test Equipment (TTE), Pre-Faulted Modules (PFM), and the interface between training hardware and software should also be considered.

A training equipment checklist will be included. Purchases requiring special project approval should be addressed individually.

7.6 Technical Data.

This section of the ILSP shall describe the requirements for development of technical logistic data, including technical manuals, in support of the designated system/equipment. The designated LEM and members of the ILSMT having responsibility for management and development of technical data should be identified. Specific technical data requirements for each system/equipment that must be addressed at the production phase of equipment acquisition are the following:

- . Program technical data management and quality assurance procedures
- . Development of contractor-furnished technical manuals
- . Development of government-furnished technical manuals
- . Technical Repair Standards

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- . Engineering drawings
- . Software documentation
- . Installation control drawings
- . Technical manual validation verification and acceptance
- . Storage and retrieval
- . Technical manual change control procedures.

Agencies or contractors having responsibility for development of government-furnished and contractor-furnished technical manuals should be identified. Technical data acquisition and development procedures should be coordinated with the acquisition of program hardware and software.

Reference should be made to technical data required to support the system software, where applicable. This should be coordinated and cross-referenced to the information contained in the Computer Resources Support section (Section 7.7) of the ILSP, in accordance with NAVELEXINST 5600.7, "Acquisition and Quality Assurance of Technical Manuals for New Equipment/Systems."

7.7 Computer Resources Support.

The Computer Resources support section of an ILSP will define those tasks, procedures, and functions to be performed in support of the computer hardware, software, and firmware associated with the acquisition. This section of the ILSP shall be prepared in accordance with NAVELEXINST 5200.23, Appendix E. If a Computer Resources Life-Cycle Management Plan (CRLCMP) has been prepared for the program, this section of the ILSP should summarize the software support program while referencing the CRLCMP for detail. Documentation requirements for software will be addressed according to the format in Figure 6-4. This list is comprehensive. All or part of the documentation may be required during any phase of the system acquisition, depending upon how the software acquisition cycle interfaces with the system cycle. The organizations responsible for

management of the software during the acquisition process will be addressed in a format including responsible activity, points of contact, and phone numbers. The Software Management Organization includes:

- . Acquisition Management Offices
- . Computer Resources Manager
- . Software Change Review Board
- . Software Support Activity
- . Operational Advisor
- . Technical Advisors
- . Software Development Activity
- . Third-Party Software Monitor.

Software training will be addressed in the applicable sections of the ILSP and referenced in the Computer Resources Support section.

7.8 Packaging, Handling, Storage, and Transportation (PHS&T).

This section will briefly describe PHS&T requirements for the system/equipment in the production and deployment phase. Standard operating procedures should not be described in detail in an ILSP. However, documents describing these procedures should be referenced. Such documents may include: MILSTAMP, MILSTRIP, the Military Traffic Management Regulation (NAVSUPINST 4600.70), along with MIL-SPECS and MIL-STDs.

This section should include a description of the size and weight of material, as well as the preferred methods of shipment. Special shipping or handling requirements for the material involved, e.g., large, bulky, or sensitive items, should be identified, and procedures for complying with these requirements should be outlined.

A tabular or matrix form of listing the requirements may supplement any text.

7.9 Facilities

The facilities section of the Production/Deployment Phase ILSP will address the facilities policy and specifications applicable to the specific system/equipment acquisition.

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The status of facilities planning for the program should be reviewed. If existing facilities are adequate to meet program goals, these should be identified. Where applicable, program-related modifications or changes should be described. New or extended facility requirements and related planning issues should also be identified.

In cases where new facilities need to be acquired, applicable Facility Development and Acquisition Planning should be defined and described.

7.10 Logistics Funding.

The Logistics Program Funding Plan (Enclosure 4) shall be completed for each major acquisition to allow for complete budget and resource planning during the lifecycle of the system/equipment. The appendix to this enclosure is a detailed explanation of each subset of individual logistic elements requiring resource allocation.

IX. Classified Appendices.

The body of the ILSP shall contain only unclassified material to allow the broadest use of the plan. Classified material should be referenced in the body of the ILSP, and contained in a separately bound appendix with a security classification assigned in accordance with NAVELEXINST 5510.3.

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SUGGESTED TOPIC OUTLINE FOR PRODUCTION AND
DEPLOYMENT PHASE ILSP

- 1.0 Introduction
 - 1.1 Scope
 - . Purpose
 - . Unique characteristics or constraints
 - 1.2 Historical Data
 - 1.3 Applicable Planning Documents
- 2.0 System/Equipment Description, Delivery, and Installation Plan
 - 2.1 Physical and Functional System/Equipment Description
 - . Environmental impact considerations
 - . Performance/operational parameters
 - . Physical characteristics
 - 2.2 Hardware Procurement Schedule
 - 2.3 Delivery Schedule
 - 2.4 Installation Schedule
- 3.0 Related Programs
 - 3.1 System/Equipment Interfaces
 - . Operation
 - . Maintenance
 - 3.2 Standardization
 - 3.3 Configuration Management
 - . Instructions
 - . Objectives
 - . CM Plans; if required
 - . Responsible activity or person for configuration control
 - . Interface responsibilities and agreements
 - . Engineering Change Proposals (ECPs)
 - Approval authority
 - Procedures
- 4.0 Planning/Programming
 - 4.1 Logistic Element Requirements
 - 4.2 Planning Schedule
 - . The Maintenance Plan
 - . Manpower and Personnel
 - . Supply Support

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- . Support and Test Equipment
 - . Training and Training Devices
 - . Technical Data
 - . Computer Resources Support
 - . Packaging, Handling, Storage and Transportation
 - . Facilities
- 5.0 Major ILS Events
- 5.1 Acquisition Management Planning
 - 5.2 ILS Requirements Planning
- 6.0 Logistics Management
- 6.1 Integrated Logistic Support Management Team
 - . Objective
 - . Organizational functions
 - . Responsibilities
 - . Interface responsibilities
 - . Members (name, function, organizational code, telephone number)
 - . Schedule of meetings
 - 6.2 Logistics Data
 - . LSA, LOR
 - . Management method
 - . Responsible codes/activities
- 7.0 Logistic Element Management
- 7.1 The Maintenance Plan
 - 7.1.1 The Maintenance Concept
 - . Maintenance levels
 - . Maintenance activities
 - . Planned and corrective maintenance
 - . Maintenance support equipment
 - . Software maintenance
 - . Interservice support
 - 7.1.2 Reliability and Maintainability
 - . MTBF
 - . MTTR
 - 7.1.3 Interim Support
 - 7.1.4 Maintenance Personnel

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- 7.2 Manpower and Personnel
 - 7.2.1 Operational Manning Requirements
 - . Number of billets at each site (reference NEC)
 - Officer Billet Summary
 - Summary of Enlisted manning requirements
 - . Skill levels
 - . New skills required
 - . Applicable rates/ratings
 - . Reductions or restrictions on operational capability during reduced manning periods
 - . Degree of supervision required
 - 7.2.2 Maintenance Manpower Requirements
 - . Numbers and skill levels of maintenance personnel at each level of repair, by site
 - . Current repair level capabilities
 - . Applicable maintenance plans
- 7.3 Supply Support (including Initial Provisioning)
 - 7.3.1 Supply Support Overview
 - . Standard Navy supply channels-Provisioning Procedures
 - . Contractor Support
 - . Transition to Navy Supply Support
 - . Allowance Parts List (APL)
 - . Navy Support Date (NSD)
 - 7.3.2 Implementation of Supply Support Procedures
 - . Requisitioning procedures
 - . Interservice requirements
 - 7.3.3 Provisioning Actions
 - 7.3.4 Interim Supply Support Requirements
- 7.4 Support and Test Equipment
 - 7.4.1 General Purpose Electronic Test Equipment
 - . Planned requirements
 - . Development dates
 - 7.4.2 Special Purpose Electronic Test Equipment
 - . Planned requirements
 - . Development requirements
 - . Calibration
 - 7.4.3 ATE
 - 7.4.4 BIT/BITE
 - 7.4.5 S&TE Maintenance Plan

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- 7.5 Training and Training Devices
 - 7.5.1 Training Requirements
 - . Training equipment checklist (Prime Equipment: Simulators/Stimulators)
 - . Related support and test equipment
 - . Spare parts and maintenance requirements
 - . Audio-visual, Instructor's Guides, and other training aid requirements
 - 7.5.2 Training schedule
 - 7.5.3 Instructor advisory services
 - 7.5.4 Ready for training date
- 7.6 Technical Data
 - 7.6.1 Technical Data Acquisition Procedures
 - . Responsible activities
 - . List of hardware-related documentation
 - . List of software-related documentation
 - . Technical Manual Organization Plan (where applicable)
 - . Technical Manual Management Team
 - . Maintenance Manuals
 - . Operators' Manuals
 - 7.6.2 Technical Data Quality Assurance and Maintenance Procedures
 - . Quality assurance
 - . Validation/verification of technical manuals
 - . Printing and distribution requirements
 - . Technical manual change control procedures
- 7.7 Computer Resources Support
 - 7.7.1 Software Program Management
 - . Software program schedule
 - . Funding requirements
 - 7.7.2 Management Organization Responsible for Computer Resources Support
 - 7.7.3 Documentation
 - . Computer Resources Life Cycle Management Plan
 - . Software Configuration Management Plan
- 7.8 Packaging, Handling, Storage and Transportation
 - 7.8.1 Standard Procedures
 - . Destination
 - . Transportation Modes - according to equipment

- . Estimated weight and cube of material to be handled, shipped, or stored
- . Storage considerations to include environmental constraints and length of storage (shelf life)
- 7.8.2 Special Packaging, Handling, Storage and Transportation
 - . Requirements for reuseable containers, returnable cases/cable reels, personnel, procedures, handling equipment, packaging, packing, routing, delivery time, storage, etc.
 - . Security, marking, possible deterioration.
 - . Weight, cube, overall dimensions and special shipping information.
 - . Hazardous considerations.

7.9 Facilities

- 7.9.1 General Facility Requirements
 - . Adequacy of existing facilities
 - . Installation requirements (installation, testing and integration, certification)
 - . Base Electronic Systems Engineering Plan (BESEP)Interface
 - . Special requirements
- 7.9.2 Maintenance Facility Requirements
- 7.9.3 Training Facility Requirements
- 7.9.4 Other Facility Planning Factors

7.10 Logistics Funding

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ENCLOSURE 2

GUIDE FOR THE PREPARATION OF
OPERATIONAL LOGISTIC SUPPORT SUMMARIES

Enclosure (2)

OLSS CONTENT FOR SYSTEM/EQUIPMENT DEPLOYMENT

INTRODUCTION

This outline will be used as a guide for OLSS development for NAVELEXSYSCOM systems and equipments.

The OLSS, developed for the deployment phase of an acquisition, is intended to be a user-oriented logistics implementation document. Its purpose is to provide information and guidance for using and supporting activities on the application of logistic support resources required to meet mission goals. The OLSS should contain the latest available information relating to the system/equipment.

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OLSS CONTENT FOR SYSTEM/EQUIPMENT DEPLOYMENT

I. Front Matter.

This section shall include the following information:

- . Front Cover
- . Title Page, including date of publication and Reference to the preceding ILSP
- . Signature Sheet
- . Record of Changes
- . List of Applicable Pages
- . Distribution List
- . Table of Contents
- . List of Illustrations/Tables
- . Administration
- . Glossary of Terms and Acronyms.

II. ILS Summary.

Preceding the text of the OLSS will be an ILS Summary containing the following information:

- . Equipment nomenclature
- . Contract number
- . Brief description
- . Functional category
- . Equipment Identification Code (EIC)
- . National Stock Number (NSN)
- . Federal Supply Code for Manufacturers (FSCM)
- . Manufacturer
- . Part number
- . Cognizant activity
- . Inventory Control Point (ICP)
- . Supply Support Allowance Parts List (APL)
- . Designated Overhaul Point (DOP)
- . List of Technical Documentation
- . Special Purpose Electronic Test Equipment (SPETE)
- . Operator and maintenance training course requirements
- . List of repairable modules.

III. Section 1.0 Introduction.

Section 1.0 shall briefly discuss the purpose of the OLSS and its relationship to the system/equipment deployment program. It shall reference previously developed ILS planning data, where necessary, and describe interfaces with other systems/equipments as required.

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IV. Section 2.0 System/Equipment Background and Descriptions.

Section 2.0 shall contain a brief summary discussion of the system/equipment background, mission, use, and operational requirements, together with a general description of the system/equipment, with related equipment and functional descriptions. This section should also reference operational parameters and projected operating life cycle. A list of planned and existing installations, together with applicable installation schedules should also be provided here.

V. Section 3.0 Planning Factors.

Section 3.0 shall address the planned Navy Support Date (NSD). Funding responsibilities should be addressed here. Where required, it may contain applicable schedules for site preparation, testing and integration, and system/equipment delivery.

VI. Section 4.0 ILS Management.

This section shall address ILS management objectives and it will reference the designated ILSMT, if applicable. A list of ILSMT members, their titles, codes, and telephone numbers will be provided.

VII. Section 5.0 Logistic Element Management.

This section shall summarize logistic element management actions and responsibilities for the deployment phase. It shall contain the following nine subsections, in accordance with the logistic element descriptions promulgated by DODD 5000.39:

- 5.1 The Maintenance Plan
- 5.2 Manpower and Personnel
- 5.3 Supply Support (including Initial Provisioning)
- 5.4 Support and Test Equipment
- 5.5 Training and Training Devices
- 5.6 Technical Data
- 5.7 Computer Resources Support
- 5.8 Packaging, Handling, Storage and Transportation
- 5.9 Facilities.

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5.1 The Maintenance Plan.

This section shall briefly describe the maintenance concept and list maintenance requirements and activities at each level. Where a requirement for maintenance at a particular level does not exist, this fact should be mentioned.

Maintenance responsibilities will be described for the three levels of maintenance: Organizational (O), Intermediate (I), and Depot (D). A matrix will be included to identify all repairables to be handled at each level of maintenance, and support equipment required for each level.

All interservice considerations will be identified and depot assignments recorded. The methods utilized by the organizational level to access higher levels of maintenance will be described.

If contractor maintenance is required, closely identify the responsibilities for budgeting, funding, contracting, the time duration for the contract, and extent of support.

5.2 Manpower and Personnel

This section shall address the manpower and personnel requirements for each operational site and level of maintenance. It shall summarize manloading requirements by billet classification for officers, enlisted, and civilian personnel.

5.3 Supply Support (including Initial Provisioning)

This section will name the designated program Inventory Control Point (ICP) and outline supply support objectives and responsibilities. Provisions for interim support will be outlined, if required. Other issues to be addressed in this section include: U.S. Navy Support, Contractor Support, Interservice considerations, and special requisitioning procedures. The Allowance Parts List (APL) number for the system and individual equipments should be included.

5.4 Support and Test Equipment

The S&TE section of the OLSS shall address all requirements for Support and Test Equipment at both the Organizational and Intermediate levels (See Figure 2-1). This section should include:

- . A list of GPETE required at the Organizational level (including Noun Name of the S&TE, Parameters, and Subcategory (SCAT) codes).

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- . Point of contact and address of allowance activity.
- . Reference guide to calibration procedures (in accordance with NAVELEXINST 9690.3A).
- . A list of repair responsibilities for each maintenance level, and equipment required for each.

5.5 Training and Training Devices

This section shall include a summary of training courses required for operator and maintenance personnel, together with locations and duration of each course. Location and points of contact for training course information shall be included. In addition, a list of special training devices required for such courses at each location will be provided. Locations and points of contact for training course information shall also be included.

5.6 Technical Data

This section shall contain a list of all technical manuals, maintenance aids, and operator's manuals required for successful operation and maintenance of the system. The list should include applicable preliminary manuals, Maintenance Index Pages (MIPs), and Maintenance Requirement Cards (MRCs).. This section should also list applicable engineering drawings and Provisioning Technical Documentation (PTD).

5.7 Computer Resources Support.

The Computer Resources support section of the OLSS will define those tasks, procedures, and functions to be performed in support of the computer hardware, software, and firmware associated with the acquisition. This section shall be prepared in accordance with NAVELEXINST 5200.23, Appendix E. If a Computer Resources Life-Cycle Management Plan (CRLCMP) has been prepared for the program, this section should summarize the software support program while referencing the CRLCMP for detail. Documentation requirements for software will be addressed according to the format in Figure 6-4. The organizations responsible for management of the software will be identified by responsible activity, points of contact, and phone numbers. The Software Management Organization includes:

- . Acquisition Management Offices
- . Computer Resources Manager
- . Software Change Review Board

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SUMMARY OF REQUIRED TEST EQUIPMENT	EQUIPMENT NOMENCLATURE	MANUFACTURER'S PART NUMBER	NATIONAL STOCK NUMBER	FSCM	MINIMUM MEASUREMENT REQUIREMENTS	SCAT CODE
GPETE <ul style="list-style-type: none"> • Organizational Level • Intermediate Level 						
GPETE SUPPORT ITEMS <ul style="list-style-type: none"> • Organizational Level • Intermediate Level 						
SPETE <ul style="list-style-type: none"> • Organizational Level • Intermediate Level 						
SPETE SUPPORT ITEMS <ul style="list-style-type: none"> • Organizational Level • Intermediate Level 						

FIGURE 2-1
SUGGESTED TEST EQUIPMENT INFORMATION CHART FOR OLSS

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- . Software Support Activity
- . Operational Advisor
- . Technical Advisors
- . Software Development Activity
- . Third-Party Software Monitor.

Software training will be addressed in the applicable sections of the OLSS (Section 5.5).

5.8 Packaging, Handling, Storage, and Transportation (PHS&T)

. Normal Procedures. If standard DOD or Navy procedures are to be used for PHS&T, a table or matrix listing the following requirements may supplement any narrative:

- Destination;
- Methods of Transportation;
- Estimated weight and volume of equipment/system;
- Weight, cube, overall dimensions and special shape information for large, heavy items that may require development of special handling, slings, etc;
- Storage considerations to include environmental constraints and length of storage (shelf life);
- Marking procedures.

. Special Procedures. Describe any special requirements for reuseable containers, returnable cases/cable reels, personnel, handling, etc. Additional notes concerning security, marking, transport, and handling of electronic equipment should be set forth herein. Special handling/storage considerations for materials which may be contaminated, radioactive, magnetic, contain mercury or other toxic substances, will be contained in this section.

5.9 Facilities

The Facilities section of the OLSS shall summarize the results of a program's facilities planning. At this time, all facilities, including newly-constructed and/or modified facilities, should have been certified for program use.

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This section of the OLSS should reference applicable facilities planning and installation documents, e.g., BESEP, Type A and C Specifications, Installation and Checkout Plan.

Special environmental constraints, i.e., humidity, temperature, etc. should be outlined here.

VIII. Section 6.0 Configuration Control.

This section of the OLSS shall address the implementation of NAVELEXINST 4130.9A, "Configuration Management Policy and Procedures for Field Changes during the Operational Support Phases," for the subject system/equipment. It shall define applicable configuration management policies and procedures for the submission of Engineering Change Proposals (ECPs) for proposed field changes.

IX. Section 7.0 Field Maintenance Activity (FMA).

This section shall identify the activity designated as the FMA for the system/equipment, list responsibilities by program functional area, and provide a list of names and phone numbers for FMA points of contact.

X. Classified Appendices.

The OLSS shall contain only unclassified material. If classified material is necessary for a complete summary, it shall appear in a separately bound classified appendix, referenced in the body of the OLSS.

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SUGGESTED TOPIC OUTLINE FOR OPERATIONAL
LOGISTIC SUPPORT SUMMARY

- 1.0 Introduction
 - 1.1 Purpose
 - 1.2 ILS Planning Data (if necessary)
- 2.0 System/Equipment Background and Description
 - 2.1 System Description
 - 2.2 Equipment Description
 - 2.3 Related Equipment
 - 2.4 Functional Description
- 3.0 Planning Factors
 - 3.1 Planned Navy Support Date
 - 3.2 Funding Responsibilities
 - 3.3 Equipment Installation Schedules
- 4.0 ILS Management
 - 4.1 Management Objectives
 - 4.2 ILSMT Members
- 5.0 Logistic Element Managment
 - 5.1 The Maintenance Plan
 - 5.1.1 The Maintenance Concept
 - . Organizational level
 - . Intermediate level maintenance responsibilities
 - . Depot level maintenance responsibilities
 - 5.1.2 Contractor Maintenance
 - . Budgeting and funding
 - . Extent and duration of support
 - 5.2 Manpower and Personnel
 - 5.2.1 Operational Site Manpower and Personnel Requirements
 - . Operator Personnel
 - . Maintenance Personnel
 - . Supervisory Personnel
 - 5.2.2 Maintenance Activity Manpower and Personnel Requirements

- 5.3 Supply Support (including Initial Provisioning)
 - 5.3.1 Supply Support Objectives
 - 5.3.2 Supply Support Responsibilities
 - . Navy support
 - . Inventory control point
 - . PICA
 - . SICA
 - . Contractor Support
 - . Interservice Support
 - . APL
 - 5.3.3 Special Requisitioning Procedures
- 5.4 Support and Test Equipment
 - 5.4.1 General Purpose Electronic Test Equipment
 - . Organizational level
 - . Intermediate level
 - . Allowance activity
 - 5.4.2 Special Purpose Electronic Test Equipment
 - . Organizational level
 - . Intermediate level
 - . Allowance activity
 - . Calibration procedures reference guide
 - 5.4.3 Repair Responsibilities and Equipment Required
 - . Organizational level
 - . Intermediate level
 - . Depot level
 - 5.4.4 Special Tools
- 5.5 Training and Training Devices
 - 5.5.1 Training Courses
 - . Operator personnel
 - . Maintenance personnel
 - . Points of contact for training course information
 - 5.5.2 Training Facilities
 - . Operator personnel
 - . Maintenance personnel
 - 5.5.3 Training Devices
- 5.6 Technical Data
 - 5.6.1 Technical Manuals
 - 5.6.2 Operators' Manuals
 - 5.6.3 Maintenance Manuals
 - 5.6.4 Maintenance Aids
 - . MIPs
 - . MRCs
 - 5.6.5 Provisioning Technical Documentation
 - 5.6.6 Engineering Drawings
 - 5.6.7 System Software Programs

- 5.7 Computer Resources Support
 - 5.7.1 Software Configuration Management Plan
 - 5.7.2 Software Programs
 - 5.7.3 Software Maintenance Procedures
 - 5.7.4 Software Administration Responsibilities
- 5.8 Packaging, Handling, Storage and Transportation
 - 5.8.1 Normal Procedures
 - 5.8.2 Special Procedures
- 5.9 Facilities
 - 5.9.1 General Facility Requirements
 - . Facility summary descriptions
 - . Designated I-level and D-level maintenance facilities
 - 5.9.2 Specific Facility Requirements
 - . Equipment size and installation requirements
 - . Utility requirements (Power, Water, Other)
 - 5.9.3 Environmental Considerations
 - . Humidity
 - . Operating temperature range
 - . Other
 - 5.9.4 Other Facility Requirements (e.g., screenrooms, etc.)
- 6.0 Configuration Control
 - 6.1 Policies
 - 6.2 Procedures
 - 6.3 Reporting/Accounting Procedures
- 7.0 Field Maintenance Activity
 - . Responsibilities
 - . Points of Contact

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ENCLOSURE 3

REVIEW/CERTIFICATION PROCEDURES

Enclosure (3)

1 JUN 1981

REVIEW/CERTIFICATION PROCEDURES

Draft copies of all ILSPs and OLSSs shall be forwarded to the following activities for incorporation of specific comments and corrections as necessary.

SPCC Mechanicsburg
NAVELEXDETMECH
CNET
CNTECHTRA
NAVELEX Code 8114,8113 as appropriate
Appropriate Logistic Element Codes

Upon incorporation of comments and corrections, the ILSM and AL/AM shall review the final document. To ensure completeness upon approval of the document, the ILSM shall assign a NAVELEX control number P4110.XXX. The AM will issue a Certification Letter.

The following Certification Letter shall be used as a guide for promulgation.

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ILS CERTIFICATION FOR MAJOR EQUIPMENT
ACQUISITIONS AND SYSTEMS

From: Commander, Naval Electronic Systems Command
(or applicable Field Activity)

To: (Standard Distribution for all Logistic Documents, and
intended users/management activities)

Subj: Integrated Logistic Support (ILS) Certification for
the (Equipment or System Nomenclature)

Encl: (1) Integrated Logistic Support Plan (ILSP), or
Operational Logistic Support Summary (OLSS) for
the (Equipment or System)

1. This certification attests that adequate ILS has been planned, and that acquisition of logistic support for the subject equipment (or system) is in accordance with the plan. Enclosure (1), the (ILSP or OLSS) for the (equipment or system), identifies the necessary support procedures for accomplishment of logistic support actions at the current state of development. The range and depth of support provided are in accordance with the availability requirements identified by the program sponsor.

2. The (ILSP or OLSS), in addition to identifying equipment (or system) information and support planning, has been tailored to provide the user with detailed guidance for understanding the logistic support system as it applies to the (equipment or system). Additional information and assistance, and additional copies of enclosure (1) may be obtained by writing or calling the Acquisition Logistician identified in paragraph () of the (ILSP or OLSS).

3. It is recommended that the following personnel in your command have knowledge of, and access to, enclosure (1): (examples: Operations Officer, Electronics Maintenance Officer, Communications Officer, Supply Officer, Maintenance and Operator personnel assigned to the equipment).

DISTRIBUTION:
See next page

NAVELEX INST 4000.10A

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Subj: Integrated Logistic Support (ILS) Certification
for the (Equipment or System)

DISTRIBUTION: (2 copies unless otherwise specified)

CNO (Sponsor)
CHNAVMAT (MAT 042)
CINCPACFLT
COMNAVAIRPAC
COMNAVSURFPAC
COMOPTEVFOR
DEPCOMOPTEVFORPAC
COMNAVTELCOM
CINCLANTFLT
COMNAVAIRLANT
COMNAVSURFLANT
COMNAVSURSYSCOM
SPCC Mechanicsburg
(Appropriate NAVELEXSYSENGCENS)
CNET
CNTECHTRA
(Appropriate Navy School) (____copies)
COMNAVSEASYSYSCOM
(Appropriate MOTUs)
(Appropriate Users and other Management Organizations)

Bcc:

ELEX 8113 and 8114
(Appropriate Logistic Element Codes)

NAVELEX INST 4000.10A

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ENCLOSURE 4

LOGISTICS PROGRAM FUNDING PLAN

Enclosure (4)

1 JUN 1981

PROGRAM FUNDING
 MAINTENANCE PLANNING
 FUNDING PROFILE (\$000)

NAVELEX 4000/3 (REV 5-81)

APPROPRIATION	PLANNING ELEMENTS	FY & BEFORE	IY	IY	FY	FY	FY
	A. LOGISTIC SUPPORT ANALYSIS (LSA)						
	B. PLANNED MAINTENANCE SUBSYSTEM (PMS)						
	C. LEVEL OF REPAIR ANALYSIS (LOR)						
	D. RELIABILITY PROGRAM (PLAN # _____)						
	• PREDICTION						
	• DEMONSTRATION						
	E. MAINTAINABILITY PROGRAM (PLAN # _____)						
	• PREDICTION						
	• DEMONSTRATION						
	F. FIELD MAINTENANCE ACTIVITY (FMA) REQUIREMENTS						
	G. CONTRACTOR MAINTENANCE SUPPORT/SERVICES						
	H. DEPOT REQUIREMENTS/PLANNING						
	• INTERIM DEPOT PLAN/REQUIREMENT						
	• TRANSITION REQUIREMENTS (PLAN)						
	• NEW START CONSIDERATIONS						
	• ORGANIC DEPOT ANALYSIS/SITE SELECTION						
	I. DEPOT OPERATIONS						
	• TEST EQUIPMENT						
	• SPECIAL TOOLS AND FIXTURES						
	• TECHNICAL REPAIR STANDARDS						
	• OVERHAUL AND REPAIR MANUALS						
	• DEPOT MANPOWER REQUIREMENTS (BILLETTS)						
	• MAINTENANCE FACILITY PLAN						

1 JUN 1981

PROGRAM FUNDING

NAVELEX 4000/3 (REV 5-81)

FUNDING PROFILE (\$000)

APPROPRIATION	PLANNING ELEMENTS	FY & BEFORE	FY	FY	FY	FY	FY
	I. DEPOT OPERATIONS (CONTINUED)						
	• DEPOT TRAINING REQUIREMENTS						
	• SPARES AND REPAIR PARTS						
	J. INTERMEDIATE MAINTENANCE ACTIVITY REQUIREMENTS						
	• INTERIM (IMA) PLAN/REQUIREMENTS						
	• TRANSITION REQUIREMENTS (PLAN)						
	• NEW START CONSIDERATIONS						
	• ORGANIC IMA ANALYSIS/SITE SELECTION						
	K. INTERMEDIATE MAINTENANCE ACTIVITY OPERATIONS						
	• TEST EQUIPMENT						
	• SPECIAL TOOLS & FIXTURES						
	• TECHNICAL REPAIR STANDARDS						
	• OVERHAUL AND REPAIR MANUALS						
	• IMA MANPOWER REQUIREMENTS (BILLETS)						
	• MAINTENANCE FACILITY PLAN						
	• SPARES AND REPAIR PARTS						
	L. QUALITY ASSURANCE PROGRAM						
	• QUALITY ASSURANCE PLAN						
	• PRE-PRODUCTION TEST AND INSPECTION						
	• PRODUCTION CONTROL INSPECTION						
	• ENVIRONMENTAL TESTING						
	M. ENGINEERING SUPPORT SERVICES						
	• DOMESTIC						

NAVELEX 4000/3 (REV 5-81) PROGRAM FUNDING FUNDING PROFILE (\$000)

APPROPRIATION	PLANNING ELEMENTS	FY & BEFORE	FY	FY	FY	FY	FY
M.	ENGINEERING SUPPORT SERVICES (CONTINUED)						
	• FOREIGN						
N.	SYSTEM SAFETY PLAN						
	TOTALS (BY YEAR)						
	OPN						
	O&M						
	ROT&E						
	MILCON						
	SCN						
	MPN						
	APN						

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PROGRAM FUNDING

NAVELEX 4000/3 (REV 5-81)

FUNDING PROFILE (\$000)

SUPPLY SUPPORT/INCLUDING INITIAL PROVISIONING

APPROPRIATION	PLANNING ELEMENTS	FY DEL	FY ONE	FY TWO	FY THREE	FY FOUR	FY	FY
	A. PROGRAM SUPPORT DATA (PSD) SUBMISSION							
	B. PROVISIONING TECHNICAL DOCUMENTATION (PTD)							
	• ENGINEERING DRAWINGS LEVEL							
	• ELECTRONIC ACCOUNTING MACHINE (EAM) CARDS							
	• PROVISIONING REQUIREMENTS STATEMENT (PRS)							
	• PROVISIONING CONFERENCE							
	• DD FORM 1949-1 (PTD DATA SELECTION SHEET) ITEMS							
	C. INTERIM SUPPORT							
	• INTERIM SUPPORT ITEMS CONFERENCE							
	• INTERIM REPAIR PARTS LIST (IRPL)							
	D. INSTALLATION AND CHECK OUT SPARES							
	E. EARLY SUPPLY SUPPORT (ESS)							
	F. SUPPORT AND TEST EQUIPMENT							
	• GPETE							
	• SPETE							
	• ATE							
	TOTALS (BY YEAR)							
	OPN							
	OMAN							
	SCN							
	APN							
	ROT&E							

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PROGRAM FUNDING

SUPPORT AND TEST EQUIPMENT

NAVELEX 4000/3 (REV 5-81)

FUNDING PROFILE (\$000)

APPROPRIATION	PLANNING ELEMENTS	FY BEFORE	FY	FY	FY	FY	FY
	A. ORGANIZATIONAL						
	• GPETE						
	• SPETE						
	B. INTERMEDIATE						
	• GPETE						
	• SPETE						
	C. DEPOT						
	• GPETE						
	• SPETE						
	D. BIT/BITE/ATE						
	E. CALIBRATION						
	F. TRAINING						
	TOTALS (BY YEAR)						
	OPN						
	ORMN						
	ROD&E						
	MILCON						
	SCN						
	MPN						
	APN						

NAVELEX 4000/3 (REV 5-81) PROGRAM FUNDING
 MANPOWER AND PERSONNEL FINDING PROFILE (\$000)

APPROPRIATION	PLANNING ELEMENTS	FINDING PROFILE (\$000)					
		FY BEFORE	FY	FY	FY	FY	FY
	A. OPERATIONS PERSONNEL						
	B. MAINTENANCE PERSONNEL						
	• ON SITE						
	• OFF SITE						
	C. TRAINING PERSONNEL						
	TOTAL (BY YEAR)						
	OPN						
	OB&M						
	RD7&E						
	MILCON						
	SCN						
	MPN						
	APN						

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NAVELEX 4000/3 (REV 5-81) PROGRAM FUNDING FUNDING PROFILE (\$000)

APPROPRIATION	PLANNING ELEMENTS	FY & BEFORE	FY	FY	FY	FY	FY
	A. CONFIGURATION MANAGEMENT PLAN # _____						
	B. CONFIGURATION CONTROL BOARD ESTABLISHED						
	C. CONFIGURATION ITEMS LIST						
	D. CONFIGURATION BASELINES (ALLOCATED, FUNCTIONAL, PRODUCT)						
	E. FUNCTIONAL CONFIGURATION AUDIT						
	F. PHYSICAL CONFIGURATION AUDIT						
	G. CONFIGURATION STATUS ACCOUNTING PLAN						
	TOTALS (BY YEAR)						
	OPN						
	ROT&E						
	MPN						

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PROGRAM FUNDING

NAVELEX 4000/3 (REV 5-81)

FUNDING PROFILE (\$000)

FACILITIES

APPROPRIATION	PLANNING ELEMENTS	FY BEFORE	FY	FY	FY	FY	FY
	A. NEW FACILITIES						
	• ON SITE						
	• MAINTENANCE						
	• TRAINING						
	TOTALS (BY YEAR)						
	OPN						
	O&MN						
	ROT&E						
	MILCON						
	SCN						
	MPN						
	APN						

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PROGRAM FUNDING
FUNDING PROFILE (\$000)

NAVELEX 4000/3 (REV 5-81)
TRAINING AND TRAINING DEVICES

APPROPRIATION	PLANNING ELEMENTS	FY & BEFORE	FY	FY	FY	FY	FY
	A. NAVY TRAINING PLAN (NTP)						
	• NTP CONFERENCE						
	• NTP DEVELOPMENT						
	• NTP UPDATES						
	B. TRAINING EQUIPMENT						
	• HARDWARE AND SPECIAL TOOLS						
	• PRE-FAULTED MODULES						
	• INITIAL REPAIR PARTS						
	C. TRAINING COURSE DEVELOPMENT						
	• CURRICULUM						
	• TRAINING MANUALS AND VISUAL AIDS						
	• FACTORY TRAINING						
	• CONTRACTOR INSTRUCTOR ADVISORY SERVICES						
	D. TRAINING FACILITIES						
	• INTERIM						
	• MILCON						
	E. MOBILE OPERATING TECHNICAL UNITS (MOTU)						
	TOTALS (BY YEAR)						
	OPN						
	OM&M						
	ROT&E						
	MILCON						
	MPN						
	SCN						

PROGRAM FUNDING

NAVELX 4000/3 (REV 5-81)

FUNDING PROFILE (\$000)

TECHNICAL DATA

APPROPRIATION	PLANNING ELEMENTS	FY & BEFORE	FY	FY	FY	FY	FY
	A. TECHNICAL MANUAL BOOK PLAN/OUTLINE						
	B. TECHNICAL MANUAL QA PLAN						
	C. TECHNICAL MANUAL VERIFICATION PLAN						
	D. TECHNICAL MANUAL PREPARATION						
	(1) OPERATORS						
	(2) SYSTEM MANUALS						
	(3) MAINTENANCE						
	(4) PRINTING						
	E. COMMERCIAL MANUALS						
	(1) OPERATORS						
	(2) SYSTEM MANUALS						
	(3) MAINTENANCE						
	(4) PRINTING						
	F. TECHNICAL MANUAL UPDATES/CHANGES (PLAN)						
	G. INTEGRATED LOGISTIC SUPPORT PLAN (ILSP)						
	H. OPERATIONAL LOGISTIC SUPPORT SUMMARY (OLSS)						
	I. OTHER						
	• OPERATOR INSTRUCTION CHARTS						
	• MAINTENANCE STANDARDS						
	• MANUALS						
	• INSTALLATION CONTROL DRAWINGS						
	• OTHER						

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PROGRAM FUNDING
 FUNDING PROFILE (\$000)

NAVELEX 4000/3 (REV 5-81)

APPROPRIATION	PLANNING ELEMENTS	FY & BEFORE	FY	FY	FY	FY	FY
	TOTALS (BY YEAR)						
	OPN						
	OPM						
	RD&E						
	SCN						
	APN						

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NAVELEX 4000/3 (REV 5-81) PROGRAM FUNDING
COMPUTER RESOURCES SUPPORT FUNDING PROFILE (\$000)

APPROPRIATION	PLANNING ELEMENTS	FY BEFORE	FY	FY	FY	FY	FY
	A. SOFTWARE DEVELOPMENT						
	B. SOFTWARE MAINTENANCE						
	C. SOFTWARE TRAINING						
	• MAINTENANCE						
	• OPERATION						
	D. SOFTWARE TECHNICAL DOCUMENTATION						
	TOTALS (BY YEAR)						
	OPN						
	OMN						
	ROT&E						
	MILCON						
	SCN						
	PPN						
	APN						
	TOTAL:						

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APPENDIX TO ENCLOSURE 4
LOGISTIC ELEMENT FUNDING GUIDELINES

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APPENDIX TO ENCLOSURE 4

LOGISTIC ELEMENT FUNDING GUIDELINES

I. MAINTENANCE PLANNING

- A. Logistic Support Analysis (LSA): DoD Directive 5000.39, of 17 January 1980, states that LSA shall commence at Milestone 0. LSA and LSA Records (LSAR) shall serve as the definitive source of data for ILS resource requirement determination. MIL-STD-1388-1 and MIL-STD-1388-2 describe LSA in depth.
- B. Planned Maintenance Subsystem (PMS): NAVELEXINST 4700.4A states that a PMS package, Maintenance Requirements Cards (MRC), and Maintenance Index Pages (MIP) will be developed for each NAVELEX procurement which requires unit planned maintenance. MIL-P-24534 is applicable.
- C. Level of Repair (LOR) Analysis: NAVELEXINST 4790.4 states that Level of Repair Analysis shall be applied to all acquisitions of electronics systems/equipments for NAVELEX with a total acquisition cost exceeding \$100,000. The LOR establishes organizational, intermediate, and depot repair/discard criteria for electronic equipment. MIL-STD-785A is applicable.
- D. Reliability Program: NAVELEXINST 4858.2A states that a viable Reliability Requirements Program be implemented for equipment developed or procured by, or for, NAVELEX. The AM is responsible for ensuring adequate time and funding are available for reliability requirements specified by ELEX 813, in all acquisition phases. MIL-STD-785A is applicable.
- E. Maintainability Program: NAVELEXINST 4858.3A states that a maintainability program shall be incorporated as an integral part of the acquisition of NAVELEX equipment. The AM shall ensure adequate time and funding for the maintainability requirements as specified by ELEX 813. NAVELEXINST 4858.1C and MIL-STD-470 are applicable.

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- F. Field Maintenance Agent (FMA)/Fleet Liaison Services Program: This section shall be used to document tasks, and required resources, necessary to support these activities. NAVELEXINST 5450.26B and NAVELEXINST 5200.19 establish applicable support areas and functions as well as funding requirements.
- G. Contractor Maintenance Support/Services: The utilization of factory repair services for depot/intermediate maintenance functions may be the recommended action. Additionally, the utilization of contractor or civilian (GS, WB) personnel, instead of Navy or military personnel, may be appropriate (OMB A-76 and OPNAVINST 1000.16D). Resources necessary to support these activities will require identification.
- H. Depot and IMA Requirements/Planning: This section should be used to identify maintenance planning status and resource requirements, and ensure that Depot Maintenance Interservice (DMI) new start considerations have been accomplished in accordance with NAVELEX memo 46024 Ser 81-4602 dated 1 June 1978. The same rationale would apply to the IMA Requirements/Planning (paragraph J).
- I. Depot (and IMA) Operations: This section should be used to identify the funding necessary to procure the equipment, tools, billets, and parts which have been identified in Paragraph H, Depot and IMA Requirements/Planning.
- J. Quality Assurance Program: This section should be used to identify the funding necessary to ensure that adequate QA factors are planned and acquired during equipment manufacture. Military Specification MIL-Q-9858 defines the overall Quality Program requirements while NAVELEXINST 4855.2B delineates the specific requirements for NAVELEX procurements.
- K. Engineering Support Services: This section should be used to identify necessary resources required to provide engineering and technical services necessary for advice, instruction, and training of DoD or foreign personnel in the installation, operation, and maintenance of equipments and systems. NAVELEXINST 4350.2A defines the utilization of NETS, CETS, CPS, CFS, FSR and others involved in domestically or overseas activities .

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- L. System Safety Program Plan: NAVELEXINST 5100.5B and MIL-STD882 provide guidelines for establishing and implementing a System Safety Program, which shall commence with the initial phase of the acquisition, and continue throughout the life cycle of the system or equipment. The AM shall ensure adequate time and funding for the Safety Plan/Program as specified by ELEX 813.

II. MANPOWER AND PERSONNEL:

Manpower and Personnel Requirements shall be determined in accordance with OPNAVINST 1000.16D "Manual of Navy Officer and Enlisted Personnel Policies and Procedures," OPNAVINST 5310.14 "SHORTSTAMPS Staffing Standards and Guide," and OPNAV 10P23 "Guide to the Preparation of Ship Manning Documents."

III. SUPPLY SUPPORT INCLUDING INITIAL PROVISIONING:

The Supply Support and Provisioning of equipment and systems, and the determination of the range and quantity of supporting items necessary to meet Fleet operational support requirements, require extensive planning based upon the inputs of the Acquisition Manager. This section pertains to those events which are most critical to the process.

- A. Program Support Data (PSD): In order to adequately support budget submissions for spares and repair parts, formatted information documents called Program Support Data (PSD) Sheets are utilized to convey the necessary information. These sheets (NAVELEX Form 4406/3-REV 4-76) are initiated by the AM by 15 November, three years before the estimated contract award (i.e., 15 November 1980 for POM 83 and FY 83 production contract award). NAVELEX 812 is responsible for budget/funding actions for the spares and repair parts upon receipt of the PSD sheets. However, the AM will budget for the CDRL items, to be included on the production contract, that are indicated on the PSD sheets in Section VII; PTD to be ordered.

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- B. Provisioning Technical Documentation (PTD): Provisioning Technical Documentation varies according to the end item and provisioning concepts. PTD refers principally to provisioning lists, priced spare parts lists, electronic accounting machine provisioning cards (EAM), and engineering drawings. PTD is used by DoD components for the identification, selection, and determination of the initial requirements and cataloging of support items to be procured through the provisioning process. CDRL items for PTD are included in the production contract (as applicable) and are defined in MIL-STD-1561 and MIL-STD-1552. Many areas can be considered, and extensive tailoring may be necessary, for both the CDRL items, the completion of the Provisioning Technical Documentation Data Selection Sheet (DD Form 1949-1), and Section VII of the PSD sheets. Coordination between the AM and ELEX 812 is necessary to identify PTD requirements to be included as CDRL items on the production contract.

- C. Interim Support: An Interim Support Items Conference determines the support items required to provide the interim support to the end item user, between the initial operational capability and that time at which provisioning for operational support has been accomplished. The Interim Repair Parts List (IRPL) specifies the support items required and is the subject of MIL-STD-1375, MIL-STD-1561, and Data Item Description UDI-V-22863. These items shall be identified and funded by AM.

- D. Installation and Checkout Spares: Support items requirements for that period devoted to installation and testing of the system/equipment are the subjects of DID UDI-V-22846B and MIL-STD-1375. These items are CDRL inputs to the production contract and shall be identified and funded by AM.

- E. Early Supply Support (ESS): The requirement to attain the earliest possible Navy Support Date and organic supply support may be accomplished by ESS procedures. The acquisition managers shall budget for resources for ESS, as described in NAVMATINST 4105.1A and SPCCINST 4105.1.

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IV. SUPPORT AND TEST EQUIPMENT (S&TE)

Support and Test Equipment: This section pertains to the identification of resources required to procure Support and Test Equipment for the organizational level. This equipment generally falls into two categories, GPETE and SPETE. The definition of these terms and support policy for this equipment, is the subject of NAVELEXINST 5450.29. NAVELEX 815 will provide funding only when adequate lead time allows budgeting actions for GPETE as programmed by enclosure (1) of the above instruction. Unprogrammed GPETE requirements and SPETE requirements shall be funded by the AM. MIL-STD-1387(A) and MIL-STD-1364 are applicable. (Requirements for Intermediate and Depot level S&TE should be included in Maintenance Section).

V. TRAINING AND TRAINING DEVICES

The lead time necessary to acquire billets, personnel, and training resources normally exceeds the lead time necessary to develop and deploy an equipment or system. This section pertains to the planning and resources necessary for the manpower and training support of the end item.

- A. Navy Training Plan (NTP): OPNAVINST 1500.8J and NAVELEXINST 1500.3 state that an approved NTP must be available approximately twenty-four months prior to the start of the fiscal year in which the system/equipment procurement will commence, or at least three years in advance of the Planned Fleet Introduction date of the system/equipment. The AM, in coordination with ELEX 812, is responsible for initiating the NTP process and for the incorporation of NTP results into plans, programs and budgets.
- B. Training Equipment: NAVELEXINST 1500.3 states that the PMEs will ensure first units of new systems/equipments are dedicated to training purposes. This is considered to include adequate repair parts and technical data as well as pre-faulted modules (if required). NAVELEXINST 4490.3 provides additional detail concerning this requirement and establishes the funding requirement as the responsibility of the PME.

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- C. Training Course Development: The approved NTP will establish training course development (MIL-STD-1379A) requirements and responsibilities. The AM is to ensure that planning and budgeting for the resources identified in the NTP are adequate (NAVELEXINST 4490.3).
- D. Training Facilities: The utilization of contractor training and training facilities, or other interim facilities, may be determined by the NTP until formal NAVY training programs can be assumed by CNET.
- E. Mobile Technical Units (MOTUs): The requirements for establishment of MOTUs will normally be developed at the Navy Training Plan Conference (NTPC) and authorized by the approval of the subsequent NTP. MOTU will require MPN funds (through OPNAV Manpower sponsor) to be identified a minimum of three years prior to creation of the MOTU billets.

VI. TECHNICAL DATA

This section pertains to the preparation and procurement of documentation which is required for ASU and normally requested by NAVMAT at Logistic Review Group (LRG).

- (A-F) Technical Manuals (TM): Items A through F refer to the procurement of the technical manuals that should be delivered with the deployment of the first production equipment/system. The TM acquisition process includes a series of events including establishment of a Technical Manual Management Team (TMMT), In-Process Review Procedures, Validation Procedures, and Verification Procedures. This process requires varying degrees of involvement by the AM, the contractor, and ELEX 812. NAVELEXINST 5600.7 identifies the requirements, inter-relationship, and funding responsibilities of the responsible parties. Completion of the various items (A-G) should identify the present funding and/or planning involvement of the AM in what can be an extremely expensive and critical logistic support element.

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- (G, H) Integrated Logistic Support Plan (ILSP) and Operational Logistic Support Summary (OLSS): The ILSP is a management tool for acquisition of all prescribed logistics support. The OLSS will be promulgated (normally during 1st deployment) to the users as an aid in understanding the logistics plan for the equipment. ILSP and OLSS will be prepared for all systems and equipments under the cognizance of NAVELEX. The AM is responsible for the funding of both documents and their revisions.
- (I) Other: This section should include such items as the need for other documentation. Resources and plans for such items as Operator Instruction Charts, Maintenance Standards Manuals, Installation, and control drawings and other items may be appropriate.

VII. COMPUTER RESOURCES SUPPORT

The Computer Resources Acquisition Management Guide (NAVEL-EXINST 5200.22) and the Computer Software Life-Cycle Management Guide (NAVELEXINST 5200.23) require management of Software throughout the life cycle of a program through the use of a Computer Resources Life Cycle Management Plan and various other software management documentation for all acquisitions requiring software support.

VIII. FACILITIES

The lead time for acquiring new facilities through MILCON funding channels is at least five years, therefore it is of the utmost importance that funding be in place well in advance of anticipated Initial Operational Capability.

IX. CONFIGURATION MANAGEMENT SECTION

Configuration Management pertains to the identification, documentation, and control of the physical and performance characteristics of equipment over its life cycle.

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- A. Configuration Management Plan: MIL-STD-483 states that the contractor shall establish, within his organization, responsibility for implementing the requirements of configuration management invoked by the procuring activity.
- B. Configuration Control Board Establishment: NAVEL-EXINST 5420.5A states that class 1 item or documentation changes, which affect the baseline, shall be controlled by Configuration Control Review Boards. MIL-STD-480 also is applicable.
- C. Configuration Items List: NAVEL-EXINST 4130.1 states that a configuration list is necessary to define an initial configuration baseline and for maintenance of documentation on the approved identification of an item.
- D. Configuration Baseline: NAVEL-EXINST 4130.1 discusses the functional/allocated/and product baselines of a configuration item.
- E. Functional Configuration Audit: NAVEL-EXINST 4120.14 invokes MIL-STD-1521 for NAVELEX systems, software and equipment. The AM will determine to what extent formal examination of the functional characteristics of an item is required. MIL-STD-483, Appendix XII, is also applicable.
- F. Physical Configuration Audit: NAVEL-EXINST 4130.1, through MIL-STD-1521 and MIL-STD-483, Appendix XII, likewise requires the formal examination of the "as-built" configuration of an item against its technical documentation.
- G. Configuration Status Accounting Plan: NAVEL-EXINST 4130.1 describes the configuration status accounting data needed to manage a configuration. MIL-STD-482 prescribes the content of those records.

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ENCLOSURE 5

DEFINITIONS OF APPLICABLE TERMS AND ACRONYMS

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ENCLOSURE 5

DEFINITIONS OF APPLICABLE TERMS AND ACRONYMS

<u>TERM</u>	<u>ACRONYM</u>	<u>DEFINITION</u>
Acquisition	None	Acquisition is the formal process consisting of planning, identification of design requirements, and production and distribution of a weapon system/equipment. Acquisition includes the Concept Formulation, Demonstration and Validation, Full Scale Development, and Production/Deployment phases.
Acquisition Engineer	AE	The individual or technical code responsible for performance of the engineering work in support of an acquisition. The AE has technical authority for each procurement action.
Acquisition Logistician	AL	The AL is that individual within the acquiring organization assigned by the acquisition manager to be responsible for: Definition and execution of integrated logistic support program requirements for specific acquisitions; Interpretation of the operational concept of weapon systems, and individual equipments, for the purpose of establishing integrated logistic support concepts, requirements, parameters, and constraints for inclusion in basic planning documents, Requests for Proposal, Contracts, ILSPs, OLSSs, and other logistic documents; Accomplishment of logistic support actions, either directly or by assignment of this responsibility to individual element managers within or outside the organization.

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<u>TERM</u>	<u>ACRONYM</u>	<u>DEFINITION</u>
Approval for Service Use	ASU	A determination made by the Chief of Naval Operations, or other delegated authority, that new systems or equipments or significant alterations to existing systems or equipments have undergone appropriate test and evaluation to meet operational requirements for both performance and supportability.
Computer Firmware	None	Any level of executable computer program and computer data that cannot be readily modified under program control; that is, software that resides in a non-volatile medium which is read-only in nature. Firmware is completely write-protected when functioning in its operational mode. This definition stresses the concept of firmware as a computer program in lieu of a hardware device.
Computer Program Configuration Item	CPCI	An aggregate of computer program components that satisfies an end-of-use function and that is designated by the Government for configuration management. CPCIs may vary widely in complexity, size, and type, from a special-purpose diagnostic program to a large tactical program within a major system. CPCIs satisfy requirements of a program allocated from the functional baseline of a program/project. The CPCI is a software configuration item. A CPCI can also refer to that software subset of a hardware Configuration Item.
Computer Resources Life Cycle Management Plan	CRLCMP	A computer resources plan that identifies computer resource acquisition and life-cycle planning factors and establishes guidelines for ensuring that these factors are adequately considered in the planning process. For major systems, the CRLCMP is required as input to DSARC II. (See NAVELEXINST 5200.23, Appendix E).

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<u>TERM</u>	<u>ACRONYM</u>	<u>DEFINITION</u>
Computer Software	None	The combination of computer programs, and associated data, required to enable the computer equipment to perform computational or control functions.
Defense System Acquisition Review Council	DSARC	Consists of the Director of Defense Research and Engineer Counciling, his Deputy Director for Test and Evaluation, the Assistant Secretary of Defense (ASD) for Installation and Logistics, ASD (Comptroller), and the ASD (Program Analysis and Evaluation). The ASD (Intelligence) and the Director of Telecommunications and Command Control Systems attend as required.
Department of Navy Systems Acquisition Review Council	DNSARC	The DNSARC serves as an advisory body to the Secretary of the Navy (SECNAV) on all programs for which the Secretary of Defense (SECDEF) has decision authority, and other programs designated by SECDEF. The DNSARC reviews programs and provides recommendations at key decision points. The DNSARC is intended to provide an open discussion of issues and alternatives by Department of the Navy officials based upon the best available information. It also serves to establish the Navy's position or recommendations prior to a DSARC review.
Engineering Change Proposal	ECP	A data package that provides a complete analysis of the impact of a proposed engineering change. It contains a description of all known interface effects and information concerning changes required in the functional and allocated product baselines. It also contains supporting data outlining the impact on integrated logistic support and estimated cost impact.

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<u>TERM</u>	<u>ACRONYM</u>	<u>DEFINITION</u>
Integrated Logistic Support Manager	ILSM	The ILSM is an individual assigned to NAVELEX 811 , to oversee, monitor, and review the total logistics posture of the acquisition code. The ILSM directly influences ILS planning, acquisition, and performance and certifies that ILS is in accordance with the policy and goals of NAVELEX 08 . The ILSM has responsibility for certification of ILS to NAVELEX 08 . The ILSM reports to the Acquisition Directorate Head, or Project Manager (not to a subordinate level), and to NAVELEX 81 , for the execution of ILS management. The ILSM works closely with the AM and AL by providing advice, guidance, and assistance.
Integrated Logistic Support Management Team	ILSMT	The ILSMT is a team of acquisition logisticians and engineering specialists, formed by the AL to manage or coordinate logistics matters pertaining to a specific material acquisition program. Membership is tailored to the program and will include representatives from the program/project office, NAVELEX 81 , functional logistics element managers, other military services, commands, Government agencies, and representatives of prime contractors and subcontractors. The ILSM provides guidance to the AL in establishing the ILSMT and conducting ILSMT meetings.
Integrated Logistic Support Plan	ILSP	The ILSP is a dynamic planning document written to identify ILS tasks required for the acquisition, and how and when such tasks will be accomplished. The ILSP contains the basis for specific actions by Navy activities and for developing the ILS requirements to be

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TERMACRONYMDEFINITION

placed in contractual documents. One purpose of the plan is to provide a management tool to ensure the timely accomplishment of all assigned tasks by the responsible organizations. The ILSP provides the foundation for coordinated action on the part of the AL, ILSM, Logistic Element Managers (LEMs), and the contractor, and shows the manner in which each of the applicable elements of logistic support is to be obtained, integrated with other elements and sustained throughout the system's life cycle. The ILSP is initiated at the outset of Milestone I by the AL, based on information contained in the basic planning documents. It is actively maintained through the Production/Deployment Phase.

First iterations are devoted only to the results of general planning considerations because detailed data may not be available during concept formulation. As development of the acquisition progresses, the ILSP will be revised to reflect that progress. The content of the Plan will develop into highly detailed narratives (or appendices) in intermediate stages, and then may be reduced to summaries and statements of fact in later stages.

Interim Support

None

Interim Support is that support provided after deployment, prior to the Navy Support Date, by an activity other than the existing Department of Defense (DOD) support system; e.g., by commercial organizations or by special Navy Early Supply Support procedures.

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<u>TERM</u>	<u>ACRONYM</u>	<u>DEFINITION</u>
Inventory Manager	IM	The IM is an individual responsible for ensuring that requirements to provide equipment or systems with related support, to users are satisfied. This may be accomplished by issue from current stock; rehabilitation/ restoration of equipment currently in the inventory; Military Interdepartmental Purchase Request from another DOD component; or distribution from new acquisitions. The IM must keep the AL and AM apprised of the method by which the requirement will be met in order that logistic support can be properly planned and provided. If the method of satisfying the customer's requirement is through new procurement, the IM will prepare the Acquisition Request based on the information provided in the Acquisition Package. Any changes or trade-offs required are coordinated with the AL and AM. The acquisition request is coordinated through appropriate NAVELEXSYSCOM divisions.
Level of Repair Analysis	LORA	This technique establishes whether (1) an item should be repaired; (2) at what maintenance level, i.e., organizational, intermediate or depot; or (3) if the item should be discarded.
Logistic Element Manager	LEM	The LEM is an individual assigned within the NAVELEXSYSCOM Logistics Directorate to a particular engineering or logistic element discipline. The LEM is responsible for providing detailed information regarding a specific area of

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<u>TERM</u>	<u>ACRONYM</u>	<u>DEFINITION</u>
		expertise to the AL for incorporation into the ILS plan. The LEM also provides day-to-day review, coordination, analysis, and initiation of corrective actions required to implement logistic procedures within his area of expertise.
Logistics Evaluation	LOGVAL	Logistics Evaluation is an evaluation undertaken by the AM and AL during the first year of operation of a system/equipment. It may be informal for less complex equipments and very formal for major systems and equipments. It may take the form of any or all of the following: Visits, Correspondence, Electronic Information Bulletin, Discussions with personnel involved with the system/equipment, and/or various reports. After completion of a LOGVAL, the AM, AL, ILSM, and ELEX 08 logistics personnel work to resolve or minimize problems and advise users of actions taken. The AM and AL continue to monitor Casualty Reports (CASREPTS), Maintenance Data System (MDS) data and correspondence, to detect trends and problems and to take corrective actions.
Logistics Review Group	LRG	The group, headed by the Deputy Chief of the Naval Material Command (DCNM), responsible for assessing the adequacy of the ILS program for systems or equipments selected for review. The DCNM(L) provides the findings of the LRG to the CNM.
Logistic Support Analysis	LSA	A process by which the logistic support necessary for a new system/equipment is identified. It includes the determination and establishment of logistic support design constraints, consideration of those constraints in the design of the hardware portion of the system; and

<u>TERM</u>	<u>ACRONYM</u>	<u>DEFINITION</u>
		analysis of the design to validate the logistic support feasibility of the design; and to identify and document the logistic support resources which must be provided as part of the system/equipment to the operating forces. Analytical techniques used to determine limited aspects of logistic support requirements are part of the overall LSA process.
Maintenance Concept	None	The Maintenance Concept is a definition of the manner in which an item will be maintained and supported. It describes the approach planned to sustain the system/equipment at a defined level of readiness or in a specified condition in support of the operational requirement. The Maintenance Concept influences system design approach and provides the basis for the Maintenance Plan.
Maintenance Plan	None	The Maintenance Plan is a strategy for achieving, restoring, or maintaining the operational capability of a material, system, or facility.
Microcomputer	None	A microprocessor and other components, such as memories, clocks, and various interface devices, that collectively operate as a stored program computer; a computer whose Central Processing Unit (CPU) is a microprocessor. Microcomputers may come packaged on a single chip, or set of chips, and often are sold as a preconfigured card or set of cards.
Microprocessor	None	One or more Large Scale Integration (LSI) device(s) that, when interconnected, perform at least the arithmetic logic unit, control function, and instruction-set architecture of a computer.

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<u>TERM</u>	<u>ACRONYM</u>	<u>DEFINITION</u>
Navy Support Date	NSD	The date on which the Navy must provide, from in-house resources, logistic support for a system or equipment.
Operational Evaluation	OPEVAL	The test and analysis of a specific end item or system, insofar as practicable under Service operating conditions, in order to determine if quantity production is warranted considering: (a) The increase in military effectiveness to be gained; (b) its effectiveness as compared with currently available items or systems, consideration being given to: (1) personnel capabilities to maintain and operate the equipment; (2) size, weight, and location considerations; and (3) enemy capabilities in the field.
Operational Logistic Support Summary	OLSS	The OLSS is a summary of operational support requirements data contained in the final Integrated Logistic Support Plan. The OLSS is used by Navy command(s) and supporting organizations during the operational portion of the system/equipment life cycle. It is a user-oriented document which provides summary information and appropriate references pertaining to ongoing logistic support of the system/equipment. The OLSS consists of an introduction (which discusses the purpose, description, maintenance concept and planning factors); separate paragraphs covering each logistic element; major milestones; Maintenance Material Management (3-M) information; interim support; and interservice support (when applicable).
Principal Development Activity	PDA	The agency assigned by the Chief of Naval Material to undertake the management and technical responsibility for prosecution of the development effort, including timely budgeting for the allocation of resources within the approved plan.

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<u>TERM</u>	<u>ACRONYM</u>	<u>DEFINITION</u>
Primary Inventory Control Activity	PICA	The designated military service assigned the responsibility for managing national stock numbered non-consumable items and for providing material support for interservice support agreement.
Project Manager/ Acquisition Manager	PM/AM	The PM/AM is the individual responsible for design development and acquisition of the equipment or system, and for the design, development, and acquisition of its integrated logistic support. When advised of a validated requirement, the PM/AM designates an AL and establishes coordination with the associated NAVELEX Integrated Logistic Support Manager (ILSM).
Secondary Inventory Control Activity	SICA	The military service or services receiving material support from the PICA for selected logistic functions.
Ship/Shore Manning Document	SMD	The document which officially establishes the qualitative/quantitative personnel allowance for a ship, shore station, or squadron to carry out their required operational capabilities.
Software Support Activity	SSA	That organization designated to maintain and support the tactical software during the deployment and maintenance phase of the software life cycle. The SSA is usually a Government field activity.
Technical Evaluation	TECHEVAL	The study and investigations by a developing agency to determine the technical suitability of material, equipment, or a system, for use in the military Services.

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ENCLOSURE 6

SAMPLE MILESTONE CHARTS/REQUIREMENT SUMMARIES

IIS/SP SECTION REFERENCE	TASK DESCRIPTION	RESPONSIBILITY	FY	FY	FY	FY	FY
	IIS Management & Funding • IISMT Identification • IIS Management Plan The Maintenance Plan • Maintenance Concept • LSA Development • PMS Development Manpower & Personnel • NTP Development • NTPC Schedule • Billet Approval Supply Support • Initial Provisioning Plan • Provisioning Conference S&TE Requirements Training & Training Devices Technical Data Computer Resources Support Packaging, Handling, Storage & Transportation Facilities Related Programs • System/Equipment Interface • Standardization • Configuration Management						

FIGURE 6-1
SAMPLE IIS PROGRAM PLANNING MILESTONE SCHEDULE

PROGRAM MILESTONE	COGNIZANT ACTIVITY	REQUIREMENT DOCUMENT	FY _____				
DNARC I							
DNARC II							
DNARC III							
DSARC I							
DSARC II							
DSARC III							
CNO Executive Boards							
LRG							
TECHEVAL/ OPEVAL							
ASU							
NSD							
LOGVAL							

FIGURE 6-2
 Sample ILS Milestone Summary

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S&TE REQUIREMENTS				MAINTENANCE TASKS	DESIGNATED LEVEL OF MAINTENANCE		
SPETE	GPETE	ATE	BIT/BITE	TASK DESCRIPTIONS	O	I	D
				System Alignment Assembly Alignment Subassembly Alignment (Digital or Analog) Fault Location to: Assembly Subassembly (Digital or Analog) Subassembly Piece Part (Digital or Analog) Verification of: System Assembly Subassembly (Digital or Analog)			

FIGURE 6-3

Sample Support and Test Equipment Maintenance
 Plan Development Chart
 for inclusion in NAVELEX Integrated Logistic Support Plans and
 Operational Logistic Support Summaries

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DOCUMENT TITLE *	COGNIZANT ACTIVITY	COMPLETION PHASE	APPROVAL AUTHORITY	ANTICIPATED APPROVAL DATE
Type A System Specification Interface Design Specification Program Performance Specification Program Description Document Data Base Design Document Program Package Test Plan Test Specification Test Procedures Test Report Operator's Manual System Operator's Manual Software Development Plan Change Control Documents Software Quality Assurance Plan Software Configuration Management Plan Computer Resources Life-Cycle Management Plan Computer Software Trouble Reports				

* REFER TO PART II, SECTION 4 OF NAVELEX INST 5200.23 FOR DESCRIPTIONS OF SOFTWARE DOCUMENTATION

FIGURE 6-4
 SUGGESTED SOFTWARE DOCUMENTATION REQUIREMENTS SUMMARY
 FOR NAVELEX INTEGRATED LOGISTIC SUPPORT PLANS
 AND OPERATIONAL LOGISTIC SUPPORT SUMMARIES