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ACQUISITION LOGISTICS HANDBOOK FOR DEPUTY PROGRAM MANAGERS FOR LOGISTICS

March 1975

Prepared for
The Deputy Chief of Staff/Acquisition Logistics (AQ)
United States Air Force
Logistics Command

under Contract F09603-A-4392 ~~001102~~

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by

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PREFACE

This AFLC/AQ publication of an Acquisition Logistics Handbook is presented as an initial guidance document for new Logistics Managers/Deputy Program Managers for Logistics assigned to major systems. The Handbook is not yet ready for formal issue, since further development is required to achieve long-range goals in the following areas:

- To determine if the approach does, if fact, provide the necessary guidance and overview of the prime elements of a Logistics Manager's job in an easily understandable format
- To provide the additional variations needed to address the less-than-major systems and "basket" program offices
- To provide such modifications as necessary to obtain the joint approval of AFSC and AFLC

The Handbook's purpose is to amplify the detail in the current basic Air Force logistics policy documents. It is not to be interpreted or used in conflict with any existing acquisition policy or regulation issued by DoD, the Air Force, or the program implementing Command. It is to be used as an interim guide, in conjunction with existing policies, for accomplishing specific logistics tasks related to the system-acquisition process as these tasks apply to a given program office.

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SECTION ONE

INTRODUCTION

1.1 OBJECTIVE AND PURPOSE OF HANDBOOK

The objective of this handbook is to provide guidance to new and currently assigned Logistics Managers (LMs) for participation throughout the system-acquisition process.* The handbook is directed primarily toward the scheduled accomplishment of logistics tasks during the acquisition of typical major systems. However, much of the material presented can be adjusted to apply to logistics tasks involved in most less-than-major system acquisitions. The guidelines are meant to be flexible within the constraints of the objectives of a given Program Office (PO) and the requirements established for that PO by the Program Manager (PM). It is the responsibility of the assigned LM, under the direction of the PM, to judge the degree of effort or involvement needed for the assigned system.

The purpose of the handbook is fivefold:

1. To provide the LM with a generalized overview of the key acquisition-phase logistics events, activities, and tasks that influence system design and logistics support costs throughout the system's life cycle
2. To provide the LM with a summary of his management responsibilities and organizational interfaces
3. To identify for the LM, in an organized manner, the logistics tasks and subtasks that should be accomplished from the Conceptual Phase of the system-acquisition process through Program Management Responsibility Transfer (PMRT)
4. To provide guidance, for each task, on determining organizational responsibilities for accomplishing the tasks
5. To provide a baseline for training new LMs

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*The term *Logistics Manager (LM)* is synonomous with the term *Deputy Program Manager for Logistics (DPML)*. *LM*, as used throughout this handbook, represents the DPML. The LM's management responsibilities and organizational relationships are discussed in Section Two.

1.2 HANDBOOK SUPPLEMENT

An accompanying supplementary notebook is provided for the insertion of additional information obtained by an LM during the course of his assignment. The supplement initially consists of the following:

- Recommendations from LMs and SMs on desirable experience and educational courses valuable to an LM assignment
- Summary of the generic types and applications of analytical tools
- Bibliography of current AF/DoD directives, regulations, pamphlets, and manuals pertinent to ILS
- Expanded list of abbreviations and acronyms

SECTION TWO

LOGISTICS MANAGER RESPONSIBILITY, ORGANIZATIONAL RELATIONSHIPS, AND GENERAL GUIDELINES

2.1 LOGISTICS MANAGER FUNCTIONS

The LM functions to achieve the following DoD and Air Force objectives:

- To assure that continuous attention is given to the logistics support posture and costs throughout the acquisition process.
- To assure that decisions affecting system design are quantitatively and qualitatively evaluated and the results tested such that the effects of these decisions on system logistics support are known and acceptance, where applicable, is made in the best interests of the government.

By managing, directing the use of resources, and communicating the Integrated Logistics Support (ILS) program's entire posture at any given time, the LM works to accomplish the above objectives.

The handbook is structured on the basis that the LM is the single logistics manager responsible to the PO/PM for managing the acquisition and integration of the logistics elements of a system development and acquisition program. Under the direction of the PM, he has the authority to obtain resources and support from Air Logistics Centers (ALCs), HQ AFLC, AFSC field command staffs, PO Directorates, and other activities necessary to accomplish his logistics management responsibility. He functions to provide timely contributions to those system design and support system decisions made during the acquisition process which affect logistics support costs and effectiveness throughout the life of the system. These functions, commensurate with the requirements of his assigned system, may include the following:

- General Management
  - Function as the Director of ILS for the PO
  - Serve as PO Office of Primary Responsibility (OPR) and point of contact and interface for PO Directorates, user(s), ALCs, AFLC, AFSC, Air Training Command (ATC), Aerospace Guidance and Metrology Center (AGMC), Air Force Test and Evaluation Center (AFTEC), and contractors on any matters pertaining to system logistics and support

- •• Determine Integrated Logistics Support Office (ILSO) organization and staffing requirements
- •• Establish Resident ILS Activities (RILSAs) when required

- ILS Planning and Guidance
  - •• Develop and provide Integrated Logistics Support Plan (ILSP) and logistics inputs to Program Management Plan (PMP)
  - •• Manage and implement ILSP
  - •• Ensure the accomplishment and coordination of Logistic Support Analysis (LSA) for such matters as the following:
    - Maintenance planning
    - Item repair decisions
    - Depot maintenance decisions [organic, interim contractor support (ICS), contractor support]
    - Support Equipment (SE) requirements
    - Software support
  - •• Plan transportation, packaging, and handling
  - •• Plan provisioning
  - •• Plan PMRT to designated ALC

- Budgeting and Funding Requirements
  - •• Ensure the preparation, coordination, and timely submission of logistics budgets involving:
    - Spares
    - SE
    - Technical data
    - Software support requirements: Automatic Data Processing (ADP), compilers, programs, data-retrieval systems, etc.
    - Facilities
    - Contractor Field Services (CFS) and Field Service Representatives (FSRs)
  - •• Ensure the identification of TDY requirements, including funds, for support personnel

- Participation on Boards and in Reviews
  - •• Serve as ILS representative to Configuration Control Board (CCB)
  - •• Provide logistics-assessment inputs and ILS representation to the following:
    - SSEB (Source Selection Evaluation Board)

- PDRs (Preliminary Design Reviews)
- CDRs (Critical Design Reviews)
- PARs (Program Assessment Reviews)
- SPRs (Secretary of the Air Force Program Reviews)

•• Participate in the following:

- System/support requirements reviews
- Formal qualification and acceptance test review
- Evaluation of supportability of design and design changes
- Configuration audits
- Selection of SE
- SE Recommendations Data (SERD) reviews
- Provisioning planning and conferences

• Contracting and Scheduling

•• Provide logistics inputs to contractual documents such as:

- Request for Proposal (RFP)/Request for Quotation (RFQ)/ Proposal Instruction (PI)
- Statements of Work (SOWs)
- Specification(s)
- Procurement Plan
- Schedules
- Funding estimates
- Contract Data Requirements List (CDRL)/Data Item Descriptions (DIDs)

•• Develop and coordinate Government Furnished Equipment (GFE)/ Government Furnished Aerospace Equipment (GFAE), SE, spares, facilities, software support, and technical publication delivery schedule requirements

•• Participate in developing source-selection evaluation criteria

•• Chair logistics panel on Source Selection Evaluation Board (SSEB)

• Life-Cycle Costing (LCC)

•• Serve as focal point for cost-of-ownership considerations, including logistics support costs (LSC) and pre-operational support costs

•• Perform LSC analyses for alternative support postures and/or system configurations

- Provide inputs and review Design-to-Cost (DTC) analyses
- Review Engineering Change Proposals (ECPs) for logistics support cost impact

- Reliability (R) and Maintainability (M) Interface
  - Participate in determining and evaluating major system and SE R&M parameters
  - Monitor progress toward achievement of R&M objectives
  - Identify trade-off-study candidates and participate in conducting the studies as they relate to LSC and ILS
  - Participate in evaluating Unsatisfactory Material Reports (UMRs)
  - Participate in Materiel Improvement Projects (MIPs)
  - Advise on suitability and availability of inventory and/or commercial items
  - Participate in evaluating maintenance data collected for R&M for logistic impact

- Facility Requirements Development Interface
  - Identify organizational, intermediate, and depot facility requirements and availability
  - Coordinate training-facility availability

- Technical Data Program Management
  - Plan schedule requirements
  - Monitor technical data reviews and delivery status
  - Provide logistics input

- System Testing
  - Participate in system (includes subsystems, equipments, components, etc.) tests, demonstrations, and evaluations, with respect to logistics supportability
  - Ensure logistics support of testing programs
  - Ensure logistics participation in Development Test & Evaluation (DT&E) planning and implementation in accordance with AFR 80-14

- Training
  - Assure logistics support of training equipment
  - Assure that training requirements are identified and incorporated in ILSP
  - Interface with Air Training Command (ATC)

2.2 ORGANIZATIONAL RELATIONSHIPS

These LM's responsibilities can be discharged only through the expertise and understanding of technical and logistics personnel resources the LM has the authority to obtain. Normally, the PO tasks are accomplished by support from the AFSC field command staff. Typical sources of technical and logistics support to the LM are presented in Figure 2-1.

The primary or designated point of contact located at each of the support (performing) activities should be the focal point of information transfer with the LM.

It is emphasized that the LM's primary responsibility is managing the accomplishment of his PO's acquisition logistics tasks. The selection and assignment of personnel and the detailed management and timely accomplishment of tasks assigned to a participating activity are the responsibility of that activity. To assure timely assistance and responsiveness, the LM should establish his focal points at the Directorate or Division level wherever possible.

Since the necessary expertise exists in many and varied forms throughout the Air Force and is both product- and discipline-oriented, it is not possible to provide specific guidance in identifying participants for every task. Appendix A is provided to aid the LM in selecting appropriate support activities.* These support activities should be drawn on as advisors early in the design process. In most cases, Division-level management at participating organizations will be prepared to advise the LM on obtaining specialized sources for support.

2.3 GENERAL GUIDELINES

Regardless of when an LM is assigned to a given program, there are specific management tasks that should be of immediate concern or that he should be prepared to address when the occasion arises. The following paragraphs should provide insight and guidance in addressing some of these tasks.

2.3.1 LM-PM Relationship

Within the PO to which he is assigned, the LM reports to the PM as the Director of ILS. His general responsibilities in this role are spelled out in AFR 800-8 and supplements thereto. His specific responsibilities on his assigned program are defined in Sections 3 and 9 of the Program Management Plan (PMP). The requirements for preparing inputs to the PMP are contained in AFSCP 800-3; the LM should participate in preparing those inputs which pertain to the logistics aspects of the program.

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*Reference AFM 67-1, Vol. 1; AFLCR 66-10; AFLCR 23-43.

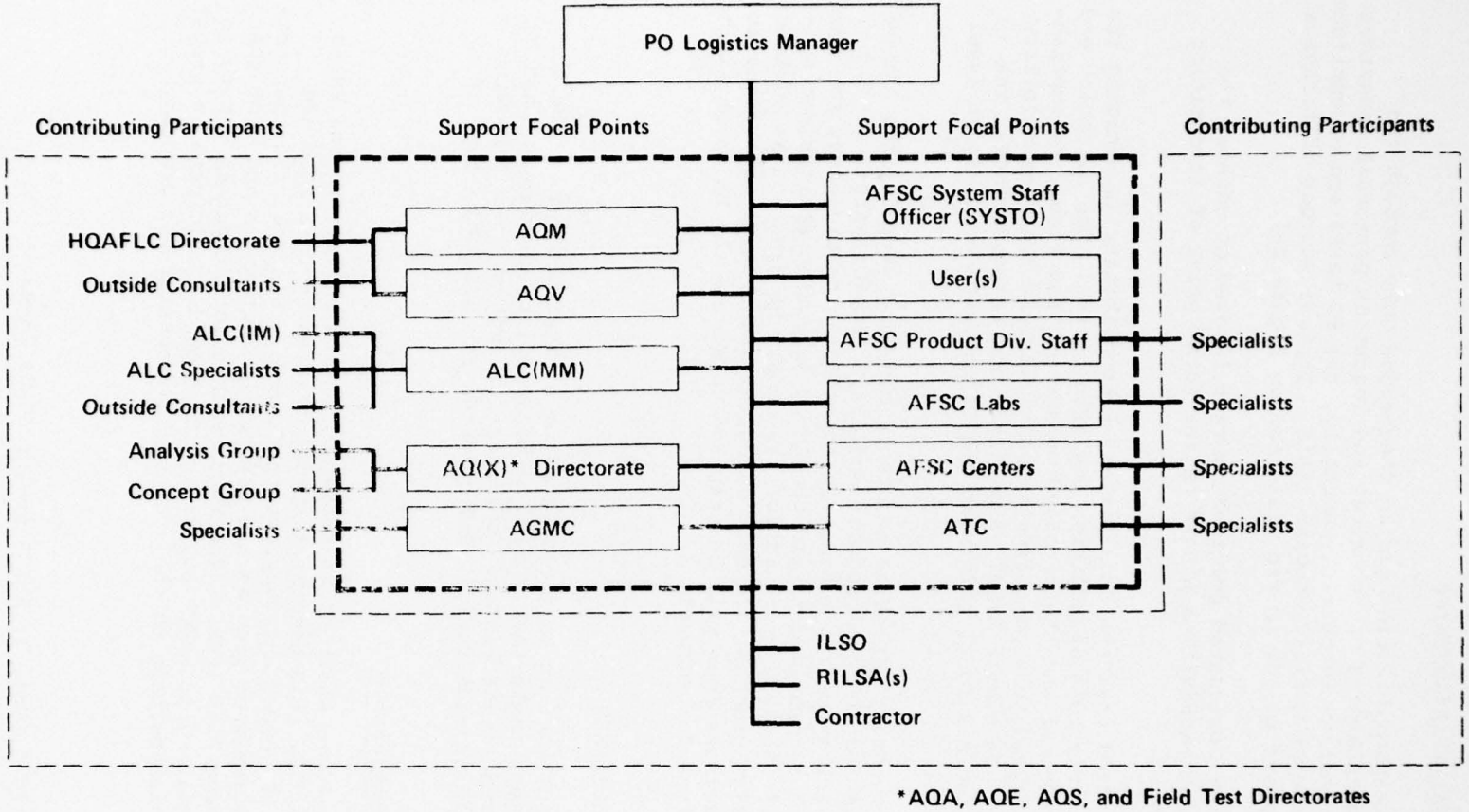

Figure 2-1. TYPICAL TECHNICAL SUPPORT RESOURCES FOR PO LOGISTICS MANAGER

2.3.2 Designation of Responsible ALC

The responsible ALC is designated by HQ AFLC in accordance with AFLCR 523-1. The ALC does not have formal authorization to expend resources until such designation is made, unless otherwise directed by HQ AFLC. It is the LM's responsibility to determine if the designation has been made and, if so, to review the responsibilities assigned. If the designation has not been made, the LM may choose to draft a requirement delineating the support responsibilities he needs. The draft would be submitted to HQ AFLC, through the collocated AQ(X), for AFLC/AQ staff action and formal issuance.

2.3.3 Management Focal Points

The importance of the early identification of management focal points cannot be overemphasized. The LM should actively coordinate his logistics task requirements, the program's background and schedule, and the ILSP effort with the identified ALC management focal points. Where an ALC has been formally designated, the LM's focal point should be established through coordination with the ALC/DMM. If ALC support is required prior to formal designation, the LM's focal point should be established through the collocated AQ(X) Directorate.

2.3.4 ILSO/RILSA Manpower Planning and Acquisition

Throughout the life of a program, a number of types of ILSO manpower capabilities are required. Some of the personnel capabilities may be obtained on a temporary basis from the designated ALC or AQ(X) or by temporary assignment from other AFLC/AFSC activities; or personnel may be assigned by AFLC or AFSC full-time to the ILSO. For those programs under the cognizance of DCS/Acquisition Logistics, the designated ALC for manning the ILSO/RILSA may be requested by an AFLC Program Action Directive (PAD) (AFLC Form 1208) issued by DCS/Acquisition Logistics. The PAD is preceded by coordination with HQ AFLC/MM, XO and CSM, and formal written approval to AQ is required prior to issuance of the PAD. The manpower authorizations in the PAD, however, are informational only. The recruitment, selection, and assignment of ALC personnel and their transfer to the ILSO are then made by the designated ALC in coordination with the LM. AFLC manpower for assignment to an ILSO may also be recruited from the 2732nd Acquisition Logistics Operational Squadron (ALOS) after coordination and approval by XOM. HQ AFSC makes the assignment of AFSC personnel. These initial assignments of personnel form the nucleus for the ILSO.

When additional manpower requirements are determined for programs assigned to AQ and for which a management ALC has been identified, the cognizant LM will communicate these requirements to the ALC management engineering team (MET). The MET will process these requests in accordance with established manpower validation and authorization procedures. These additive manpower requirements should have PM approval before the request is initiated.

To reduce the time required to staff an ILSO, manpower planning should be expedited and requests for personnel initiated as soon as possible. Manpower-requirements forecasts can be made by using forms such as AFSC Form 59 (see Figure 2-2). The planning effort can be supported by advice from the designated ALC and should take into consideration whether the need to establish a RILSA is anticipated.

Table 2-1 can be used as guidance for the types of capabilities and career classifications that may be required from time to time throughout the acquisition phases.

Usually the LM's ILSO will be manned by both AFSC and AFLC personnel. His manning should be accomplished on the basis of the type of capabilities required at a given time and should be independent of the Command source or of whether the personnel are military or civilian.

In making requests for manpower, the LM should complete a manpower requirement form, associated job description(s), justifications, and charts of manpower scheduling versus task description, and coordinate these requirements with the PM. The request should then be formally submitted to the PM and, for AFLC positions, to the AFLC MET for approval and action. Coordination copies of these requests should be sent to AFLC/AQ. It is suggested that an advance copy of requests for AFLC positions be forwarded to the designated ALC/DMM for information.

2.3.5 Contracting for Outside Support

The LM frequently requires specialized support to accomplish selected tasks. At times this type of support may not be available in a timely manner within Air Force resources. In this event, the LM may require individual contracts with outside consultants or contractual arrangements with the prime contractor. This type of support requires PM approval, the allocation of funds, and an approved SOW. Most AFSC locations require that an SOW be coordinated through various AFSC offices prior to approval. For example, the Space and Missile Systems Organization (SAMSO) uses SAMSO Form 155 (see Figure 2-3) for staff coordination. The LM should familiarize himself with all applicable AFSC requirements. It is suggested that the LM contact the AFSC Product Division logistics staff for information and guidance on how SOWs are processed, and for identification of any special forms that may be required or instruction pamphlets that are applicable.

2.3.6 Use of Analytical Tools

Tasks listed in the handbook tables that lend themselves to the use of analytical tools have been annotated with an asterisk. However, specific recommendations as to what model, procedure, or methodology to use have been purposely avoided because these techniques are continually changing and being improved. It is recommended that the LM consult with the appropriate AFSC field Command staff, the AQM staff, his collocated

MANPOWER REQUIREMENTS FORECAST

DATE PREPARED: 21 August 1974

TITLE (Section/Project/Job): AFRATCOM MANPOWER REQUIREMENT FORECAST

REQUIREMENTS FOR (Division/Center/Group): DCXL

FUNCTION CODE	FUNCTION TITLE / POSITION DESCRIPTION	MIL GRADE / CIV SERIES / WAGE GROUP	AFSC	QUARTERLY BY FISCAL YEARS								END OF YEAR		
				1 QTR 75	2 QTR 75	3 QTR 75	4 QTR 75	1 QTR 76	2 QTR 76	3 QTR 76	4 QTR 76	4 QTR 76	4 QTR 77	4 QTR 78
	Logistics Staff Officer (DPML)	LtCol	(a) 6616	1	1	1	1	1	1	1	1	1	1	1
	Sr. Logistics Mgt Specialist	GS-13	(e) 6616		1	1	1	1	1	1	1	1	1	1
	Logistics Mgt Specialist	GS-12	(b) 6616	1	1	1	1	1	1	1	1	1	1	1
	Logistics Mgt Specialist	GS-12	(b) 6616	1	1	1	1	1	1	1	1	1	1	1
	Reliability/Maintainability Engr	Capt +	(f)		1	1	1	1	1	1	1	1	1	1
	Logistics Mgt Specialist	GS-12	(a) 6624	1	1	1	1	1	1	1	1	1	1	1
	Logistics Mgt Specialist	GS-12	(a) 6624	1	1	1	1	1	1	1	1	1	1	1
	Logistics Staff Officer	Capt	(c) 6624	1	1	1	1	1	1	1	1	1	0	0
	Electrical Engineer	Capt	(a) 2825A	1	1	1	1	1	1	1	1	1	-	0
	Logistics Mgt Specialist	GS-12	(d) 6624			1	1	1	1	1	1	1	1	0
	Logistics Clerk	GS-7 +	(c) 6624		1	1	1	1	1	1	1	1	1	1
	Clerk Steno	GS-5	(a) 70450	1	1	1	1	1	1	1	1	1	1	1
	Key: (a) On Board AFLC (b) On Board AFSC (c) Authorized but not assigned (d) Position planned for authorization by AFLC 1/1/75 + (e) Add'l Positions req'd AFSC + (f) Add'l Positions req'd AFLC			8	11	12	12	12	12	12	12	12	11	9

AFSC FORM 59 JAN 67 PREVIOUS EDITION OF THIS FORM WILL BE USED UNTIL STOCK IS EXHAUSTED. AFSC-AAFB-WASH.,D.C.

Figure 2-2. **SAMPLE MANPOWER REQUIREMENTS FORM**

Table 2-1. SAMPLE MANNING SPECIALITIES FOR FULL-TIME OR TEMPORARY ILSO STAFFING

Job Title	Career Classification(s)*	
	Military	Civilian
Assistant Chief	2716, 2816, 2916, 2926, 6787, 6616	GS-346
Secretary	70470	GS-318
Software Specialist	5116, 5135A/B, 5144A, 6624	GS-334
Funds Specialist	6746, 6916, 6924, 6736	GS-500
Math Modeling Specialist	2695A, 2895B, 2625	GS-1500
Provisioning Specialist	6624, 6534	GS-2000
SE Specialist	2835B, 4024, 4044, 3124	GS-800, 1670
ATE Specialist	2825A/B, 2895Z	GS-800
R&M Engineer (AFLC Only)	2895G, 2695A	GS-800
Technical Data Specialist	2935, 5135	GS-1083, 2001
Traffic Management Specialist	6044	---
Test Engineer (with logistics background)	2895, 2855, 2845A, 2825A, 2835A	GS-800
Packaging Specialist	6044	---
Clerk-Steno	70450	GS-312

*Reference AFM 36-23, AFM 50-5 (Military); AFR 40 Series (Civil Service).

STAFF COORDINATION OF STATEMENT OF WORK		PROGRAM		DATE
RFP/CONTRACT NO.		PROG/PROJ OFFICER	OFFICE SYMBOL	PHONE
TYPE OF CONTRACT		BUYER	OFFICE SYMBOL	PHONE

FUNCTIONAL REQUIREMENT		CONCUR NONCONCUR	NOT APPLICABLE OR WAIVED	PERSON TO CONTACT	PHONE
MAINTAINABILITY/RELIABILITY	(DRI)				30831
QUALITY ASSURANCE	(DRI)				30831
DATA MANAGEMENT	(DRI)				30831
STINFO	(DRI)				30831
SYSTEMS MAINTENANCE/ SUPPLY	(DRLS)				31278
SYSTEMS PROPELLANTS	(DRLS)				32777
SYSTEMS TRANSPORTATION	(DRLT)				31200
SYSTEMS PACKAGING/ PRESERVATION	(DRLT)				31200
NATURAL ENVIRONMENT	(WE)				30304
COMMUNICATIONS/ELECTRONICS	(DRC)				31162
PROGRAM MANAGEMENT	(DRUC)				31966
CONFIGURATION MANAGEMENT	(DRUC)				31966
STANDARDIZATION DOCUMENTATION	(DRUC)				31966
STANDARDIZATION PARTS MANAGEMENT	(DRUE)				31182
EMC	(DRUE)				31182
COMSEC/TEMPEST	(DRUE)				31182
TEST SUPPORT	(DRUE)				31182
SOW EVALUATION	(DR-1)				32527

SAMSO OR AUTHORIZED REPRESENTATIVE *(Signature and Date)*

SOW APPROVAL

POST NEGOTIATION REVIEW

BIOMEDICAL/ BIOENVIRONMENTAL	(SG)				30008
SAFETY ENGINEERING	(SE)				30367
SURVIVABILITY	(DYS)				30773
COMPUTER TECHNOLOGY	(DYT)				31604

SAMSO FORM MAY 73 155 PREVIOUS EDITIONS ARE OBSOLETE

Figure 2-3. **SAMPLE SOW COORDINATION FORM**

AQ(X) Directorate, or the designated ALC, to the extent necessary to select a given analytical approach (in particular, any approach that will have continuing application in the LM's program or will require complex computer programs). It is recognized that decisions on the selection and use of analytical tools must often be made early in a program's life cycle and that the impact of these decisions can have a long-lasting effect on support-system economics. Therefore, it is of utmost importance that all the expertise available to the LM be used in the initial selection and application of analytical tools to assure that they can be utilized without major changes after PMRT.

A summary of the generic types and applications of analytical models is provided in the Handbook Supplement.

2.3.7 Software Support

Software support (e.g., computer programs, technical data, ADP equipment) warrants special consideration by the LM when his prime system requires this type of logistics support. Software management is an important aspect of ILS because of the impact of software support on other aspects of the program and because software and software-support acquisition are becoming increasingly costly.

The AFSC OPR for computer software is HQ AFSC/XRF. The AFLC OPR for software support is HQ AFLC/MMK. Specialists in these activities should be contacted and drawn upon as advisors early in the program. Their expertise can aid in avoiding such problems as the procurement of proprietary computer programs when other, equally acceptable programs are available.

2.3.8 Problem/Corrective-Action Status Reporting

It is suggested that the LM initiate a method for documenting ILS-related problem/corrective-action status early in his assignment. This method should complement other PO reporting requirements, be approved by the PM, and assure that the status of logistics problems is effectively communicated throughout the PO and other support activities. The latter allows for joint input and consideration of alternative corrective actions. This type of problem documentation and monitoring, when properly implemented and supported, can be most rewarding in a number of ways, including the following:

- Keeps program logistics anomalies from being overlooked
- Establishes a library for lessons learned
- Provides a background for avoiding repetitive, ineffective corrective actions
- Can be used to identify and justify additional resources (funding and manpower)

SECTION THREE

THE ACQUISITION PHASES

3.1 USE OF THE TASK TABLES

The Task Tables address the means by which the LM manages the execution of ILS tasks associated with the major logistics events or key milestones, as well as prerequisites for satisfying the system transitional requirements from each phase of the acquisition process to the succeeding phase. In essence, the results of these tasks provide the general basis for the Decision Coordinating Paper (DCP)*, which documents the work that has been accomplished by the government and industry during each acquisition phase. These results should show the support-program posture that has been achieved; they should also show that transition to the next phase can be recommended by the Defense System Acquisition Review Council (DSARC) to the Secretary of Defense.**

Figure 3-1 is a generalized guidance chart showing the sequence of key program events and major logistics tasks as they occur from the Conceptual phase through Program Management Responsibility Transfer (PMRT). The horizontal flow shows the normal sequence of key events or outputs. The vertical flow indicates the sequence of tasks that lead to achievement of the key events. Each extension is time-related but is not intended to represent a time ratio or time-dimension relationship between tasks or events. The time relationship between tasks and events, obviously, will be dependent on each program's scope and schedule. The vertical task sequence, however, does indicate that effort toward achieving the related event must be started in time to assure the orderly achievement of the key events.

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*Previously referred to as the Development Concept Paper.

**See AFR 800-2, Attachment 3. (DoD guidance on material to be presented to the DSARC is being prepared and will be provided in DoD Instruction 5000.2. Action will be taken to disseminate this information after formal issuance of the Instruction.)

The figure can be annotated by the LM with dates and used as a ready reference on his acquisition logistics program schedule and status.

This section of the handbook provides individual treatment of four acquisition phases:

- Conceptual
- Validation
- Full-Scale Development
- Production and Deployment

Each phase is introduced with a table identifying key logistics events that should occur during that phase of the system-acquisition process. This is followed by a blown-up figure of the time-sequence relationship of these events and the associated major tasks necessary for their accomplishment. These figures provide room for additional annotation by the LM as the program progresses.

The second part of each phase, except the Conceptual Phase, consists of a set of tables -- one for each key event -- that identify in a logical order of performance the detailed tasks required to achieve the key event during the associated acquisition phase. The tables also identify the various organizations involved in accomplishing the task and the nature of their involvement. The Conceptual section does not contain Event/Task Tables, because the LM is not yet formally assigned. The Conceptual section is addressed because the documented outputs from this phase are needed by the LM for initial planning and staffing actions.

The tables provide guidance information for accomplishing each identified task, as well as guidance for scheduling the effort the LM is responsible for managing. He should use these tables in planning, specifying, and acquiring project-oriented logistics-support deliverables such as the following:

- Support Equipment
- Spares
- Technical Data and Software Support
- Facilities
- Training

In addition to the tasks delineated in the tables, the LM should plan on responding to specific actions and reports required by the PM, HQ AFLC, AFSC, and the designated ALC/MM.

It is suggested that the tables be annotated, as the program progresses, with task assignments, scheduled completion dates, actual completion dates, and, where applicable, the identification of output reports documenting the results of the task effort.

The necessity for involving any of the organizations shown in the tables for any specific task is at the discretion of the PM and the LM.

Codes are used to identify the type of effort needed from each possible participant. The codes used and their definitions are as follows:

Code	Meaning	Definition
P (See note)	Prepare, Produce, or Perform	This is usually the LM/ILSO. The activity responsible for planning, managing, organizing inputs, and releasing the final output of the task.
C (See note)	Coordinate with	The activities the LM should coordinate with during the conduct of the task in order to obtain their inputs and to aid their current or future participation in the program. The LM can direct their inputs to the performers or establish direct communications between these activities. Coordination occurs prior to review.
I	Information	The activities that should require use of information generated during or as a result of a task. Requires distribution action by the LM and is for communication purposes only.
R	Review	The activities that review, comment on, and concur with draft outputs prior to formal release by the LM.
A	Approval	The activities or individuals that approve the final product, decision, or results obtained from the task.
D	Designate or Assign	The individual or individuals responsible for identifying and assigning personnel, funds, authority, or other resources to the LM.

NOTE: Use of Coordination (C) versus Performance (P) in Task Tables. The assignment of the codes "C" and "P" under various organizational responsibilities in the task tables may be subject to some interpretation. In the final analysis, the LM is responsible for

(continued)

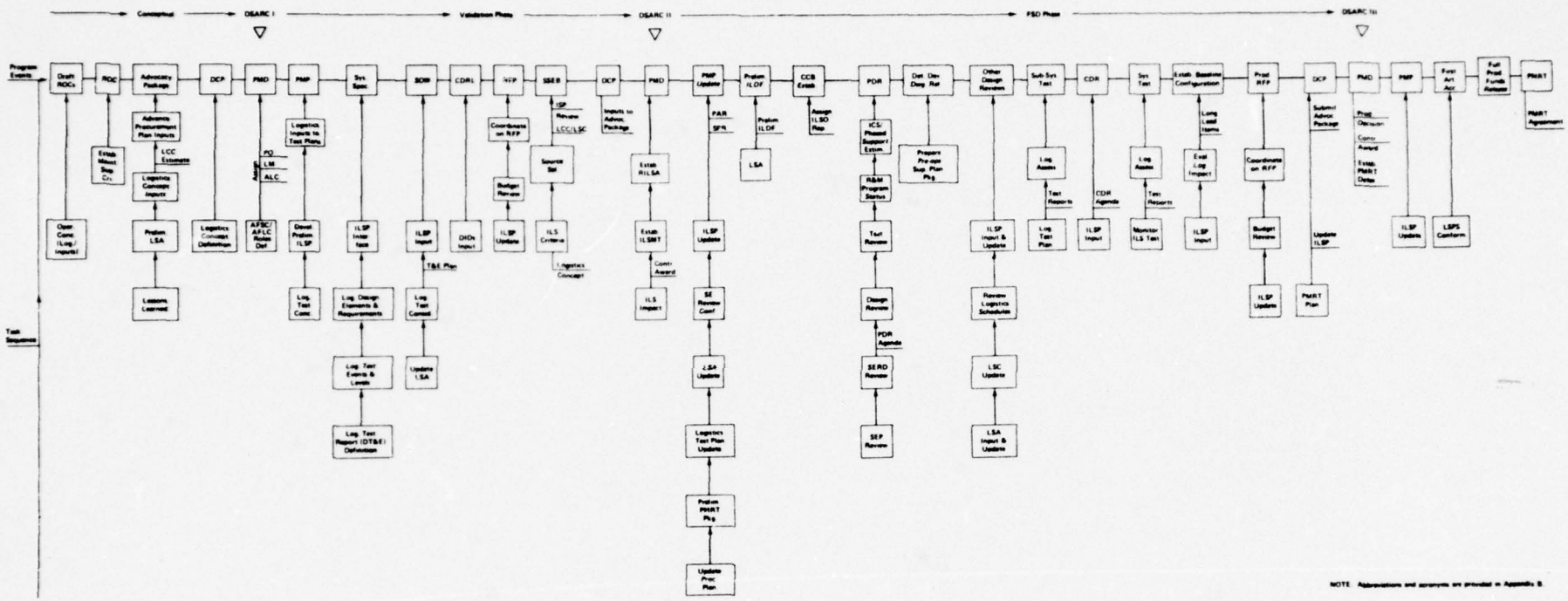

Figure 3-1. **GENERALIZED OVERVIEW OF THE SEQUENCE OF KEY PROGRAM PHASE EVENTS/MAJOR LOGISTICS TASKS**

assuring that each applicable task is performed. However, where "coordination with" a given organization has been assigned, performance, preparation, or production may also be involved; that is, the LM may task an activity he is coordinating with to complete all or a portion of a given task. The acceptance, modification, or use of that output is the LM's responsibility. Therefore, from the PM's point of view, the actual responsibility for performance and completion of the task lies with the LM.

The column headings under the "Organizational Responsibilities" section of the table are generally self-explanatory.* However, the following require clarification:

- HQ USAF -- Precise identification of participants must be determined by the LM. Direction and guidance can be obtained from the DCS/AQ staff, the PO/PM, the designated ALC, and applicable regulations depending on the product or task involved.
- DIR (PO Directorate(s)) -- This may be a specific Directorate, such as Engineering or Program Control, or all Directorates, depending on the type of participation and the task being performed.
- HQ AFSC -- Precise identification of participants is determined by the AFSC SYSTO. Therefore, the AFSC SYSTO is the initial focal point for the LM.
- HQ AFLC -- This may be the Commander's Staff or any specific HQ Directorates or Offices, other than AFLC/AQ, having interest/involvement in the conduct of a given task (e.g., DCS/Material Management, DCS/Civil Engineering, etc.).
- AQ -- The DCS/Acquisition Logistics, his staff, AQM, or AQV, as applicable.
- AQ(X) -- Usually the collocated AFLC/AQ Directorate (i.e., AQA, AQE, or AQS) or Field Test Directorate.
- ALC -- The designated ALC/DMM or his selected representative responsible to support the program. Could also be another ALC/DMM where the ALC is OPR for a specialized management responsibility (e.g., Corrosion Prevention at Warner Robins ALC).
- Users -- The major command's focal point for the program. Usually collocated with the PO (i.e., SAC, TAC, MAC, ATC, ADC, etc., representatives).
- CTR -- The prime and associate contractors.

The focal points to be contacted in each organization must be determined by the LM, and they are usually dependent on the type of system being acquired. The LM can obtain specific guidance in this area from his PM, the various

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*See Appendix B for explanation of abbreviations.

PO Directorate Managers, the AFSC Product Division staff, the Program and Plans Directorate of the designated ALC, and AFLC/AQ or the AQ(X) Directorate Managers.

The final column of the table presents references, where these could be identified, that establish the requirements for the task, control the effort, or provide detailed guidance and direction in the conduct of the task.

3.2 CONCEPTUAL PHASE

3.2.1 Introduction

A detailed discussion of the tasks and actions undertaken during the Conceptual Phase is beyond the scope of this handbook; however, a number of decisions are made during the Conceptual Phase of a program that affect ILS considerations throughout the life of the prime and support systems. These decisions occur prior to the formal establishment of a PO, assignment of the LM, and designation of the responsible ALC. They are reflected, either explicitly or by implication, in the documents related to the program events identified in Table 3-1. The logistics tasks shown in the table are frequently performed by AFSC Product Division staff and the collocated AQ(X) Directorate personnel. The impact of the results of these tasks on the LM is then dependent on either of two conditions as discussed below. These conditions are influenced by the circumstances and timing of DSARC I and the issuance of the Program Management Directive (PMD), as well as the time at which the LM is assigned.

3.2.2 Preferred Condition

The designated LM and the initial ILSO personnel on his staff are specifically identified and assigned at least six months prior to the scheduled completion of the first advocacy package. Immediately following this assignment, the LM and his initial staff must review and become fully aware of the preliminary logistics support concept and maintenance criteria that are being, or have been, decreed by the User and the PO cadre for the major system. During this review every effort, including additional reviews by experienced personnel from various ALCs, should be invoked to identify conflicts or oversights in ILS concepts and criteria. Also, the rationale for establishing the ILS concepts and criteria should be understood. Recommendations for any revisions should be documented and discussed with the implementing command and the using command. Agreed-to revisions should be incorporated in the DCP. An updated logistics support concept should then be prepared under the LM's direction to form a basis for the ILSP.

3.2.3 Alternate Condition

The LM is not designated until the PMD is initiated, and he must generally accept the concepts and criteria approved as a result of DSARC I review. The LM either has been a prime participant in the conceptual planning and contributed to the formulation of the ILS concepts and criteria, or he does not become aware of the concepts and criteria until after the DSARC I milestone. In the latter event, he should confer with the local AQ(X) Directorate and AFSC Product Division staff to obtain the rationale for decisions made during the Conceptual Phase.

Table 3-1. CONCEPTUAL PHASE: MAJOR PROGRAM EVENTS AND RELATED LOGISTICS INPUTS/TASKS

Program Event	Related Logistics Inputs/Tasks
Draft Required Operational Capability (ROC) (Ref. AFR 57-1 and 66-14)	Prepare logistics inputs to operational and maintenance concepts (AFR 57-1 and 66-14) • Present proposed support concept • Evaluate preliminary R/M trades • Develop preliminary LSC inputs to LCC trades • Evaluate preliminary LCC trades
ROM Promulgated	Establish system maintenance/support criteria in accordance with ROC: • System availability requirements • Maintenance levels • R/M requirements (mission reliability, turn-around time, etc.)
Advocacy Package Prepared	Review "Lessons Learned" -- Visit other services/ organizations, including POs within AFSC, having experience with similar system or programs Establish preliminary LSA inputs, considering: • ORLA • Maintenance concept Prepare logistics concept inputs: • LSC inputs to LCC trade-offs based on R/M and support factors • Program cost goal to provide base for measuring contractor performance and system support costs throughout program life • Role of LSC in interfacing with Design-To-Cost (DTC) and other program decision factors Prepare Advance Procurement Plan inputs
DCP	Logistics concept definition: Prepare initial logistics support concept to form basis for ILSP

In either condition, it is obvious that the resulting outputs of the Conceptual Phase set the logistics scenario for the new PO, the LM, and the designated ALC. The Conceptual Phase outputs most important to the LM are the following:

- The ROC
- The Advocacy Package
- The DCP
- The PMD

These documents should be studied intently for program priority, technical approach, responsibilities, schedules, funding and type of funding, and program objectives. The LM uses this information to formulate his ILSP, determine his initial funding allocation, and plan ILSO/RILSA manning requirements.

The flow of tasks identified as being necessary to obtain well documented inputs to the Conceptual Phase ILS outputs is shown in Figure 3-2. If one or more tasks have not been adequately performed or documented, the LM should evaluate the consequences of the situation and advise the PM of these consequences. If the situation warrants additional effort, the LM should schedule and accomplish the necessary actions. The impact of having to perform this work after the DSARC I milestone could affect the Validation Phase schedule and could have an impact on ILS decisions throughout that phase. The LM's sources of support, if such effort is required, are AFSC activities, the designated ALC, the collocated AQ(X) Directorate, AFLC/AQ, and contractors involved during con-eptual studies.

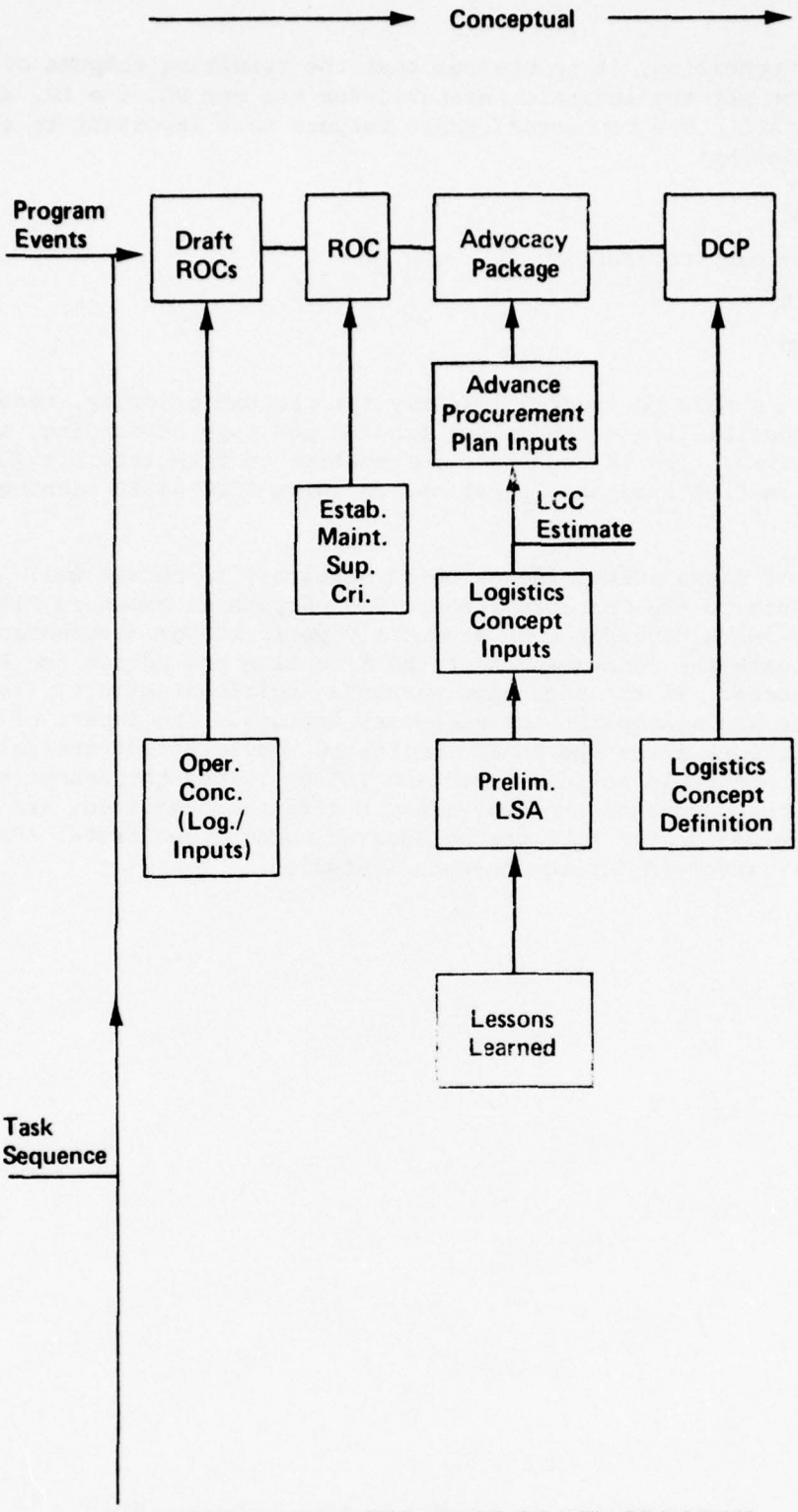

Figure 3-2. GENERALIZED SEQUENCE OF KEY PROGRAM EVENTS/MAJOR LOGISTICS TASKS – CONCEPTUAL PHASE

3.3 VALIDATION PHASE

3.3.1 Introduction

Validation begins with the decision that the capabilities of the proposed system are needed; that sufficient engineering has been accomplished to justify the establishment of a System Program Office for continuation of effort; and that resources should be expended on technical and cost analysis, engineering design, and further system definition.

The important tasks for the LM during this phase are to assure that a logistics support concept is established, logistics performance requirements are defined, and logistics demonstration-test considerations are developed. Table 3-2 highlights the major program events and related logistics inputs/tasks that should occur during this phase. Figure 3-3 shows the time relationship for these major events and the sequence for their accomplishment.

For the purpose of the handbook it is assumed that the logistics tasks related to the Conceptual Phase have been satisfactorily accomplished, the LM has been assigned, the nucleus of an ILSO staff has been formed, and the responsible ALC has been designated.

3.3.2 Detailed ILS Task Sequence by Event Tables

Tables 3-3 through 3-10 should be used as a guide and annotated as the program progresses through the Validation Phase. To supplement the tables, the LM should document the task assignments with the identification of the active participants and with scheduled dates for completion. A problem/corrective-action status report format should be established and open items monitored continuously. The tables provide an orderly sequence for the completion of each event. Should any task become out of sequence, alternatives and impact should be immediately appraised. This aspect of the task sequence is important because of the continuing interface and interdependence of tasks and events throughout the program.

Table 3-2. VALIDATION PHASE: MAJOR PROGRAM EVENTS AND RELATED LOGISTICS INPUTS/TASKS

Program Events	Related Logistics Inputs/Tasks
PMD (Table 3-3)	Identify and coordinate AFSC/AFLC roles in logistics-related aspects of the program: • Funding responsibility • Logistics management responsibility • Test and evaluation objectives Note: The following actions are taken: • The PO is formed. • The Management ALC is assigned. • The support role is defined. • The LM is assigned.
PMP (Table 3-4) (Note: The PMP is continuously updated)	• Establish logistics test concept • Develop preliminary ILSP and input to the PMP • Prepare logistics inputs to test plan(s)
System Specification (Table 3-5)	• Define logistics test report requirements for DT&E • Determine logistics test events and levels • Identify logistics-related design characteristics and requirements • Assure adequate interface with ILSP
SOW (Table 3-6)	• Update elements of the LSA • Evaluate logistics test considerations • Prepare ILSP inputs to the SOW
CDRL (Table 3-7)	Define DID requirements for logistics
RFP (Table 3-8)	• Update ILSP in accordance with RFP • Review funding to ensure adequacy of budget for areas of AFLC responsibility • Coordinate on RFP
SSEB (Table 3-9)	• Establish ILS criteria for source selection • Participate in source selection evaluation
DCP (Table 3-10)	Note: The DCP is the basis for DSARC action.

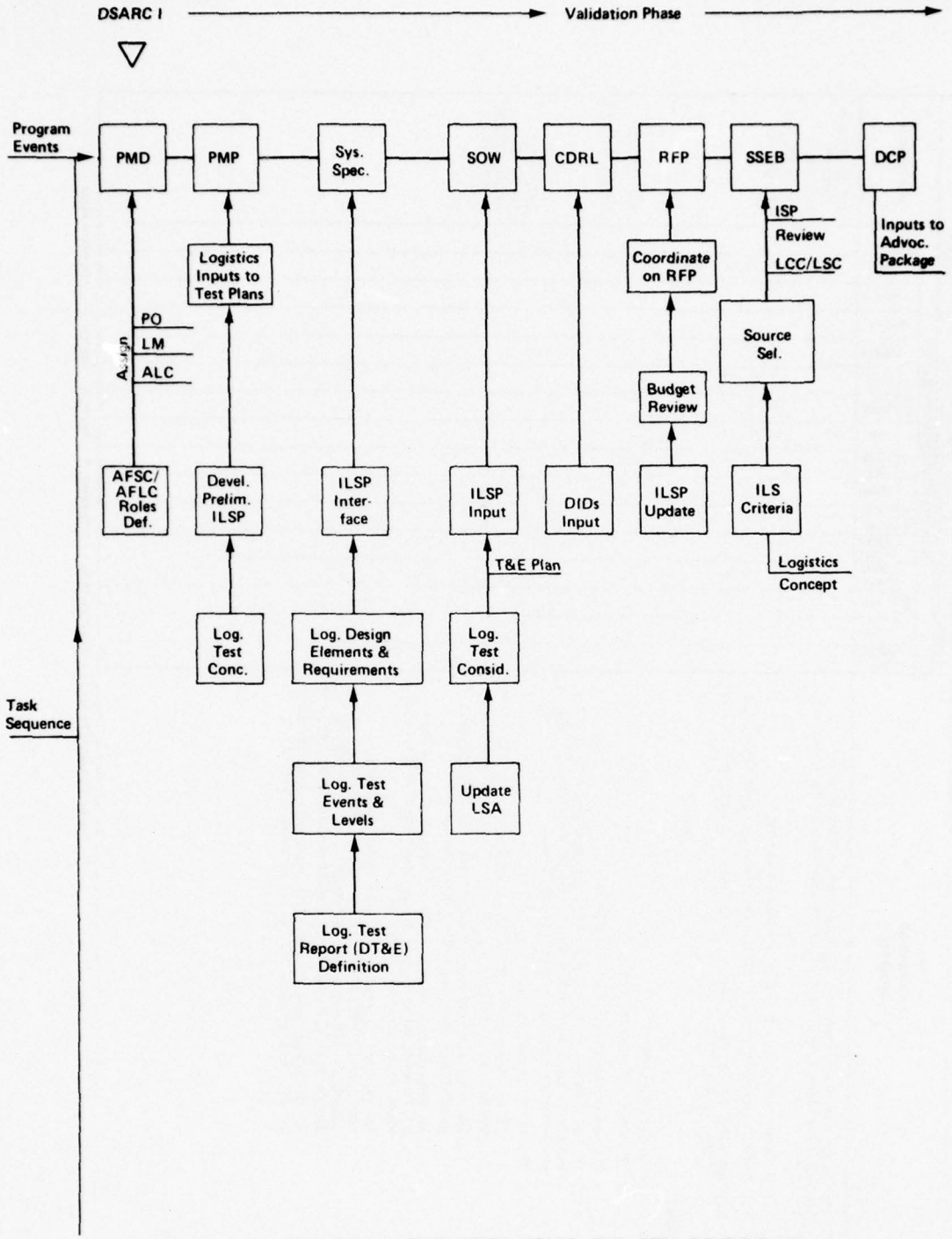

Figure 3-3. **GENERALIZED SEQUENCE OF KEY PROGRAM EVENTS/MAJOR LOGISTICS TASKS – VALIDATION PHASE**

ACQUISITION PHASE: VALIDATION

EVENT: PROGRAM MANAGEMENT DIRECTIVE (PMD) (DSARC I)

ILS TASK/SUBTASK SEQUENCE	ORGANIZATIONAL RESPONSIBILITIES																REFERENCES
	HQ USAF	PO: PM	PO: Dir.	PO: LM/ILSO	AFSC: HQ AFSC	AFSC: Div./Org.	AFSC: Center	AFLC: HQ AFLC	AFLC: AQ	AFLC: AQ(X)	AFLC: ALC	AFLC: AGMC	AFTEC	ATC	User	CTR	
1. Identify and coordinate AFSC/AFLC roles/involvement in logistics-related aspects of program and assure treatment in PMD	A	A		P	C	C		C	C	I	C	I	I	I	I		AFLCR/AFSCR 800-24 AFR 57-1
1.1 Define command's funding responsibility				P	C	C		C	C	I	C				I		AFR 173-14 AFR 800-6
1.2 Define command's logistics management responsibility				P	C	C		C	C	I	C				I		
1.3 Prepare input to Test and Evaluation Objectives Annex (TEOA) and to PMD			P	C				I	I		C				C		

NOTES:

Program assignments:

1. The PO/PM is appointed. — AFR 800-2
2. The management ALC is designated. — AFLCR 523-(X)
3. The priority of the logistics support role in relation to other programs decision factors (cost, performance and schedule) is defined.
4. The LM is appointed. — AFLC PAD AQ 74-1; AFLCR/AFSCR 800-24
   - LM confers with PO/PM to establish specific responsibilities.
   - LM evaluates system requirements to determine guidelines for logistics requirements.
   - LM determines which tasks or events have been performed, which need to be performed next, and what resources are available.
   - LM visits management ALC to determine key personnel, brief key personnel on system, identify resource requirements, and determine long-term ILSO manning requirements (see Table 3-3)
   - LM prepares and submits his manpower requirements to PM, and informs AQ and the management ALC.

P – Prepare, Produce, or Perform; C – Coordinate With; I – Information; R – Review; A – Approve; D – Designate or Assign

ACQUISITION PHASE: VALIDATION

EVENT: PROGRAM MANAGEMENT PLAN (PMP)

ILS TASK/SUBTASK SEQUENCE	ORGANIZATIONAL RESPONSIBILITIES																	REFERENCES
	HQ USAF	PO: PM	PO: Dir.	PO: LM/ILSO	AFSC: HQ AFSC	AFSC: Div./Org.	AFSC: Center	AFLC: HQ AFLC	AFLC: AQ	AFLC: AQ(XX)	AFLC: ALC	AFLC: AGMC	AFTEC	ATC	User	CTR	
1. Establish logistics test concept																		AFR 80-14 AFR 23-36 AFLCR 80-XX
1.1 Review system logistics characteristics and requirements reflected in DCP and PMD			I	P							I							
1.2 Establish preliminary logistics test criteria based on requirements		A	C	P		C			C	C	C	C						
1.3 Prepare recommendations for management/coordination and reporting responsibility for logistics DT&E testing		A	C	P					C		C							
2. Develop preliminary ILSP based on maintenance and operational concepts contained in ROC and PMD		A	C	P	I	C		I	I	C	C		I	I	I			ILSP format AFR 800-8 (Att. 3 & 4)
2.1 Arrange content to accommodate future preparation of Logistics Support Plan Summary (LSPS) at DSARC III as described in AFSCP 800-21				P				C	C		C							AFSCP 800-21 Maint./Op. . AFR 66-14 . AFR 57-1
2.2 Coordinate the preparation of a definition of AFLC's detailed participation in the program for input to the PMP		A	C	P				A	I	I	R	R			I			AFSCP 800-3
2.3 Respond to data call to identify logistics data items. Considerations should include immediate and long-range data for: . R/M . LSA . CRS . ORLA . ISP . SERD . LSC . SEP . ILDP . Software			C	P					I		C	C	C	C	I			AFLCM 65-3 AFLCM 800-1 AFR 310-1
2.4 Delineate ILS management responsibilities and list participating organizations required to support each program milestone		A	C	P				I	I		C	C	C	C	C			AFR 800-8 AFLCM 800-1 DoD 4100.35G AFSCP 800-21
2.4.1 Identify schedule requirements for logistics milestones																		
2.5 Prepare recommendations to PM for overall ILS planning, data collection, analysis and reporting procedures for logistics testing in DT&E, IOT&E and OT&E		R	C	P					I		C	C	C	I	I			
2.6 Address acquisition of computer software support as a specific segment of ILSP			R	P				C	I		C							
2.7 Address packaging responsibilities and requirements		A	C	P		C			I		C			I	I			AFR 71-1
2.8 Distribute ILSP for review, comment and approval		A	R	P	I	R		I	R	R	R	R	R	R	R			
2.9 Prepare inputs to PMP based on ILSP in compatible format per AFSCP 800-3		A	R	P				I	I	I	I		I	I	I			AFSCP 800-3 AFR 800-8

P – Prepare, Produce, or Perform; C – Coordinate With; I – Information; R – Review; A – Approve; D – Designate or Assign

ACQUISITION PHASE: [illegible]

EVENT: [illegible] (PMP) continued

ILS TASK/SUBTASK SEQUENCE	ORGANIZATIONAL RESPONSIBILITIES																	REFERENCES
	HQ USAF	PO: PM	PO: Dir	PO: LM/ILSO	AFSC: HQ AFSC	AFSC: Div/Org	AFSC: Center	AFLC: HQ AFLC	AFLC: AO	AFLC: AO(IX)	AFLC: ALC	AFLC: AGMC	AFTEC	ATC	User	CTR		
9.10 Prepare ILS inputs to procurement plan		R	C	I							C	C	C	C				
9.10.1 Evaluate features of procurement plan for impact on logistics: . Contract type - cost plus, T&M, etc. . Incentives, warranties, design-to-cost . Prime/subcontractor, integrating contractor, etc.																		
9. Prepare test inputs to Section [illegible] of PMP and ensure test compatibility with Section [illegible] of PMP. Provide test annex inputs.			C	P					R	I		C	I					

P - Prepare, Produce, or Perform; C - Coordinate With; I - Information; R - Review; A - Approve; D - Designate or Assign

ACQUISITION PHASE: VALIDATION

EVENT: SYSTEM SPECIFICATION

ILS TASK/SUBTASK SEQUENCE	ORGANIZATIONAL RESPONSIBILITIES																		REFERENCES
	HQ USAF	PO			AFSC			AFLC						AFTEC	ATC	User	CTR	
		PM	Dir.	LM/ ILSO	HQ AFSC	Div./ Org.	Center	HQ AFLC	AQ	AQ(X)	ALC	AGMC						
1. Define logistics test report requirements for DT&E																		AFR 80-14
1.1 Define the scope of the logistics portion of DT&E test program and establish reporting responsibility for inputs to PO reports		A	R	P		C			C	I	C	I	I	I	I			
1.2 Update logistics test criteria to accommodate system changes		A	R	P		R			R	I	C	R	I	I	I			
2. Determine logistics test events and levels																		
2.1 Establish logistics test events and levels of system/ subsystem test to be included in DT&E based on the logistic test concept and logistics requirements reflected in the PMD, PMP, and ILSP		A	C	P					R	I	C	C	C	C	I			AFR 80-14
2.2 Review software test requirements for adequacy		A	C	P				C	R	I	C	C	C	C	I			
3. Identify logistics related design characteristics and requirements																		
*3.1 Identify significant design characteristics which impact on logistics and classify in order of importance		R	C	P					I	I	C							
*3.2 Establish logistics requirements based on concepts developed in ILSP as reflected in PMD and PMP		R	C	P					I	I	C				I			
3.3 Ensure that design feedback and lessons learned communication requirements are prepared and reviewed for adequacy			P	P							I				I			AFSC DH 1-0 Series
4. Assure adequate system specification interface with ILSP																		
4.1 Update ILSP in accordance with above tasks (1 - 3)		A	C	P	I			I	R	I	C		I	I	I			
4.2 Submit recommended logistics requirements/inputs for system specification to PO/PM as determined in tasks 1 through 3 above		A	C	P					C	I	C							

*ILS modeling tools may be applicable to performance of task.

P – Prepare, Produce, or Perform; C – Coordinate With; I – Information; R – Review; A – Approve; D – Designate or Assign

ACQUISITION PHASE: VALIDATION

EVENT: STATEMENT OF WORK (SOW)

ILS TASK/SUBTASK SEQUENCE	ORGANIZATIONAL RESPONSIBILITIES																REFERENCES
		PO			AFSC			AFLC									
	HQ USAF	PM	Dir.	LM/ ILSO	HQ AFSC	Div./ Org.	Center	HQ AFLC	AQ	AQ(X)	ALC	AGMC	AFTEC	ATC	User	CTR	
1. Update elements of the preliminary LSA and related tools			C	P					C	C	C						MIL-STD-1388
*1.1 Prepare guidelines for contractor ILS models to allow common basis for evaluation		A	C	P		R			C	C	C						
*1.2 Review conceptual design approaches for impact on logistics supportability			C	P					R	C	C						
1.2.1 Assure design retains sufficient flexibility to accommodate future logistic trade-off decisions																	
*1.3 Employ a system cost model (using estimates and historical data) to provide data for use in identifying important parameters and trade-offs prior to preparing SOW inputs		A	C	P		R			C	C	C						
1.4 Determine ILS models to be used by contractor(s)		A	C	P		R			C	C	C						
1.5 Determine if/how logistics-related incentives should be included in SOW. How should these be evaluated?		A	C	P		R			C								
1.6 Update ILS requirements and translate into LSA inputs for analysis by contractor		A	C	P							C						
2. Evaluate logistics test considerations																	AFR 80-14 AFR 23-36
2.1 Specify precise definitions of MTBF, failure, flying time, and other logistics parameters to be tested/ evaluated so that contractor's response and future performance data can be evaluated on a common, clearly understood basis		A	C	P					R	I	C	I	R				
2.1.1 Establish data collection, evaluation and reporting procedures																	
2.1.2 Prepare logistics test inputs to the SOW as required																	
3. Prepare ILS inputs to the SOW																	
3.1 Update ILSP to incorporate the results of tasks 1 and 2 above		A	C	P	I			I	R	I	C	C	I	I	I		
3.2 Prepare inputs to the SOW which reflect the logistics support considerations and logistics elements shown in the PMP and the ILSP. These should include:		A	C	P					C	I	C	C	I	I	I		

*ILS modeling tools may be applicable to performance of task.

P - Prepare, Produce, or Perform; C - Coordinate With; I - Information; R - Review; A - Approve; D - Designate or Assign

ACQUISITION PHASE: VALIDATION

EVENT: STATEMENT OF WORK (SOW) (continued)

ILS TASK/SUBTASK SEQUENCE	ORGANIZATIONAL RESPONSIBILITIES																	REFERENCES
		PO			AFSC			AFLC						AFTEC	ATC	User	CTR	
	HQ USAF	PM	Dir.	LM/ ILSO	HQ AFSC	Div./ Org.	Center	HQ AFLC	AQ	AO(X)	ALC	AGMC						
. Test levels and definitions of test parameters																		
. Data requirements, reporting and format (LSA, ISP, LSC, ORLA, SEP, SERD, etc.)																		
. Logistics performance/design/demonstration requirements																		
. Recommendations that contractor include in his Work Breakdown Structure (WBS) identification codes that include the Work Unit Codes so that repair resources can be established (if applicable)																		
3.3 Prepare recommendations for source selection criteria		R		P							C							
NOTE: The following should be given special consideration when defining Statement of Work inputs:																		
*. LSA needs to be put on contract and updated continuously.																		
*. ORLA needs to be put on contract. As system changes, ORLA should be updated. Contractor should be instructed to flag and alert LM of significant changes.																		AFLCM/AFSCM 800-4
*. LSC inputs to LCC need to be updated continuously. LMs may elect to put this task on contract. Although LCC may be placed on contract, the LM/ ILSO should exercise his own models to evaluate the effect of LSC inputs on design features, trade-offs, and operational/support options before making logistics decisions and recommendations.																		AFR 800-11
. Software support requirements need to be put on contract with wording such that contractor will be responsible for assuring that the support system software will be fully supportable.																		AFR 800-14 AFR 300-2, Supp. 1 AFLCR 171-54
*. Contract needs to specify if detailed test equipment trade-off studies are required.																		MIL-STD-1513
. The contract should provide, wherever possible, for the buyer's use of required data on a non-proprietary basis.																		ASPR 9-200 ASPR 7-104.9 (RFP and contract)
. The contract should require the contractor to provide access to supporting information (including assumptions) at the buyer's request.																		AFR 800-8

*ILS modeling tools may be applicable to performance of task.

P – Prepare, Produce, or Perform; C – Coordinate With; I – Information; R – Review; A – Approve; D – Designate or Assign

ACQUISITION PHASE: VALIDATION

EVENT: STATEMENT OF WORK (SOW) (continued)

ILS TASK/SUBTASK SEQUENCE	ORGANIZATIONAL RESPONSIBILITIES																	REFERENCES
	HQ USAF	PO			AFSC			AFLC						AFTEC	ATC	User	CTR	
		PM	Dir.	LM/ ILSO	HQ AFSC	Div./ Org.	Center	HQ AFLC	AQ	AQ(X)	ALC	AGMC						
. The contract should address whether the system pre-operational and initial operational support will be provided organically, by contractor support, or a combination of both. Interim contractor support (ICS) may prevent buying expensive support equipment, maintenance documentation and facilities which could be made obsolete by system changes resulting from early operational experience. If ICS is contemplated the SOW should specify that the contractor prepare an ICS plan.																		DI-L-3302 DI-L-3304 DI-L-6143

P – Prepare, Produce, or Perform, C – Coordinate With, I – Information, R – Review, A – Approve, D – Designate or Assign

ACQUISITION PHASE: VALIDATION

EVENT. CONTRACT DATA REQUIREMENTS LIST (CDRL)

ILS TASK/SUBTASK SEQUENCE	ORGANIZATIONAL RESPONSIBILITIES																	REFERENCES
	HQ USAF	PO			AFSC			AFLC						AFTEC	ATC	User	CTR	
		PM	Dir.	LM/ ILSO	HQ AFSC	Dir./ Org.	Center	HQ AFLC	AQ	AQ(X)	ALC	AGMC						
1. Define Data Item Description (DID) requirements for logistics support of system																		DoD ADL TD-3 SISMS (APLCR/AFSCR 800-24)
1.1 Review *LSA, logistics test plan* and ILSP to identify Data Item (DI) requirements			C	P							C	C						DI-L-6138
1.1.1 Identify ILDF requirements																		
1.2 Create and/or incorporate a DID list for the ILS input to the CDRL		A	C	P					C	I	C	C	I	I	I			

NOTE: Data item delivery requirements in the CDRL should be consistent with other contractual provisions. Each requirement specified in the contract and SOW should be screened to assure that applicable data items are included in the CDRL so that performance against that requirement can be adequately tracked and controlled.

P – Prepare, Produce, or Perform; C – Coordinate With; I – Information; R – Review; A – Approve; D – Designate or Assign

ACQUISITION PHASE: VALIDATION

EVENT: REQUEST FOR PROPOSAL (RFP)

ILS TASK/SUBTASK SEQUENCE	ORGANIZATIONAL RESPONSIBILITIES																	REFERENCES
		PO			AFSC			AFLC										
	HQ USAF	PM	Dir.	LM/ ILSO	HQ AFSC	Div./ Org.	Center	HQ AFLC	AQ	AQ(X)	ALC	AGMC	AFTEC	ATC	User	CTR	
1. Update ILSP in accordance with coordinated RFP. Document rationale for changes		A	C	P	I			I	R	I	C	C	I	I	I		
1.1 Establish requirements for RILSA and/or Resident Provisioning Team (RPT) if applicable		A		P							C						
1.2 Consider requirements for ILS Management Team (ILSMT)		A		P							C						
2. Ensure adequate funding is budgeted for AFLC items of responsibility		A	C	P		R		R	R	I	C	C	I	C	I		
2.1 Review total program funding and assure funding action is initiated for areas of AFLC responsibility				P					R		C						
3. Coordinate on RFP before release by PO				P					C		C						

NOTES:

1. Assure that the RFP includes detailed instructions specifying how the contractors should respond to the logistics requirements called out in the contract, and how the responses will be evaluated by the government.

2. Assure that the RFP includes detailed instructions requiring the contractors to provide sufficient cost data to allow the government to make trade-offs on how to support the system. Some considerations in the trade-offs may evaluate the use of:
   - Warranties
   - Interim Contractor Support (ICS)
   - Incentives/penalties

3. Assure that the RFP contains a requirement for the contractor to provide information on how the contractor's ILS program will be managed. Develop and provide guidelines on how responses will be evaluated.

P - Prepare, Produce, or Perform; C - Coordinate With; I - Information; R - Review; A - Approve; D - Designate or Assign

Table 3-9

ACQUISITION PHASE: VALIDATION

EVENT: SOURCE SELECTION EVALUATION BOARD (SSEB)

ILS TASK/SUBTASK SEQUENCE	ORGANIZATIONAL RESPONSIBILITIES																	REFERENCES
	HQ USAF	PO: PM	PO: Dir.	PO: LM/ ILSO	AFSC: HQ AFSC	AFSC: Div./ Org.	AFSC: Center	AFLC: HQ AFLC	AFLC: AQ	AFLC: AQ(X)	AFLC: ALC	AFLC: AGMC	AFTEC	ATC	User	CTR	
1. Establish ILS criteria for source selection																		
*1.1 Logistics concept interfaces: Itemize in ranking order the logistics performance and management requirements called out in the ILSP, PMP, and RFP for the purpose of evaluating contractor response.		A	C	P														AFLCP 800-3 AFSCR 70-6
*1.2 Prepare selection criteria based on the logistics performance requirements (availability, MTTR, etc.) detailed in the system specification and ILSP.			C	P														AFR 57-2 (Eng. Parts) AFR 66-8 (Maint.) AFR 67-4 (Data) AFM 70-6 (Sel. Proc.) AFR 70-15 (Sel. Policy)
2. Participate in source selection evaluation																		
2.1 Review the contractor's ISP for conformance to the logistics concept prescribed in the RFP.			C	P														
*2.2 Review the contractor's LCC and LSC models for conformance to the RFP.			C	P														
*2.3 Evaluate the logistics support cost impact of each proposed design. Factors to consider include the effects of design on the following: . Level of repair . Skill levels, depot/repair facilities . SE, spares/provisioning . Transportation, packaging, handling, and transportability			C	P														
2.4 Evaluate contractor response to the RFP instructions regarding logistics cost data to determine the applicability of provisions such as warranties, incentives/penalties, and interim contractor support.			C	P														
NOTE: The tasks are performed in the SSE area and participation is limited to team members. Personnel from the ALCs, AGMC and AQ organizations may be recruited to participate.																		

*ILS modeling tools may be applicable to performance of task.

P – Prepare, Produce, or Perform; C – Coordinate With; I – Information; R – Review; A – Approve; D – Designate or Assign

ACQUISITION PHASE: VALIDATION

EVENT: DECISION COORDINATING PAPER (DCP)*

ILS TASK/SUBTASK SEQUENCE	ORGANIZATIONAL RESPONSIBILITIES																	REFERENCES
	HQ USAF	PO: PM	PO: Dir.	PO: LM/ILSO	AFSC: HQ AFSC	AFSC: Div./Org.	AFSC: Center	AFLC: HQ AFLC	AFLC: AQ	AFLC: AQ(X)	AFLC: ALC	AFLC: AGMC	AFTEC	ATC	User	CTR	
NOTES:																		
1. Collect and incorporate ILS documentation applicable to the advocacy package specified by HQ USAF.																		AFR 800-2, Att. 1
2. Summarize the ILS documentation assembled for the advocacy package to form the ILS input to the DCP. The ILS content should address, as a minimum, the following:																		
. ILS Program Description																		
. ILS Cost-Effectiveness Trade-Offs																		
. ILS Contract/Procurement Plan																		
. ILS Management Plan																		
. R&M Impact																		
. ILS Test and Evaluation																		
. Logistic Support Plan																		
. Thresholds																		
. Recommendations																		

*Formerly Development Concept Paper.

P – Prepare, Produce, or Perform; C – Coordinate With; I – Information; R – Review; A – Approve; D – Designate or Assign

3.4 FULL-SCALE DEVELOPMENT (FSD)

3.4.1 Introduction

When transition to FSD has been approved, logistics support requirements and specifications are imposed on the system such that, when met, they will allow support to be accomplished within predetermined requirements (AFP 800-7). The purpose of the FSD phase is to design, assemble, and test the system and its support requirements to determine if the required operational capability can be achieved within expected or allowable costs. During FSD, the LM must assure that the project-oriented logistics support deliverables are compatible with the system's support requirements, are within allowable program costs, and will be acquired in a timely manner to meet initial operating capability (IOC) requirements and production deployment schedules. He must also initiate and begin the implementation of an orderly Program Management Responsibility Transfer Plan.

Table 3-11 presents the major program events and related logistics inputs/tasks to be accomplished during FSD. Figure 3-4 shows the time sequence for these logistics events and the corresponding tasks required to accomplish these events.

3.4.2 Detailed ILS Task Sequence by Event Tables

Tables 3-12 through 3-24 are to be used in the same manner as the tables in the Validation Phase.

Table 3-11. FULL-SCALE DEVELOPMENT PHASE: MAJOR PROGRAM EVENTS AND RELATED LOGISTICS INPUTS/TASKS

Program Event	Related Logistics Inputs/Tasks
DSARC II (PMD Promulgated) (Table 3-12)	. Review ILS impact . Establish ILSMT . Establish RILSA (if required)
PMP Update (Note: This task is continuous throughout the FSD phase) (Table 3-13)	. Update procurement plan inputs . Prepare preliminary Program Management Responsibility Transfer (PMRT) plan . Update logistics test provisions . Update LSA . Convene SE review/guidance conference . Update ILSP
Preliminary ILDF (Table 3-14)	. Convert LSA data to data file
Establishment of CCB (Table 3-15)	. Assign CCB ILS representative and alternates
Preliminary Design Review (PDR) (Table 3-16)	. Conduct SEP review . Approve SERD . Review design for impact on logistics concepts called out in ILSP . Review test approaches and test results . Review R&M program status . Update ICS/phased logistics support estimates
Detailed Development Drawing Release (Table 3-17)	Prepare pre-operational support plan package
Other Design Reviews (Table 3-18)	. Review and assess ILS impact of proposed design changes . Prepare LSC update . Review and revise logistics schedules . Review changes for impact on logistics characteristics of system as defined in the ILSP. Update ILSP
Subsystem Test Program (Table 3-19)	. Update logistics input to DT&E test plan . Perform logistics assessment of test results
Critical Design Review (CDR) (Table 3-20)	. Prepare ILSP inputs based on design review results .. Review results of PDR and other design reviews
System Test Program (Table 3-21)	. Monitor tests . Perform logistics assessment of test results
Establish Baseline Configuration (Table 3-22)	. Prepare ILSP inputs and assure compatibility of system configuration with logistics requirements . Evaluate the impact of proposed configuration on logistics .. Identify long lead time items
Production RFP (Table 3-23)	. Update ILSP in accordance with production RFP . Review funding and budgeting for areas of AFLC responsibility . Coordinate on RFP
DCP (Table 3-24)	. Complete PMRT plan

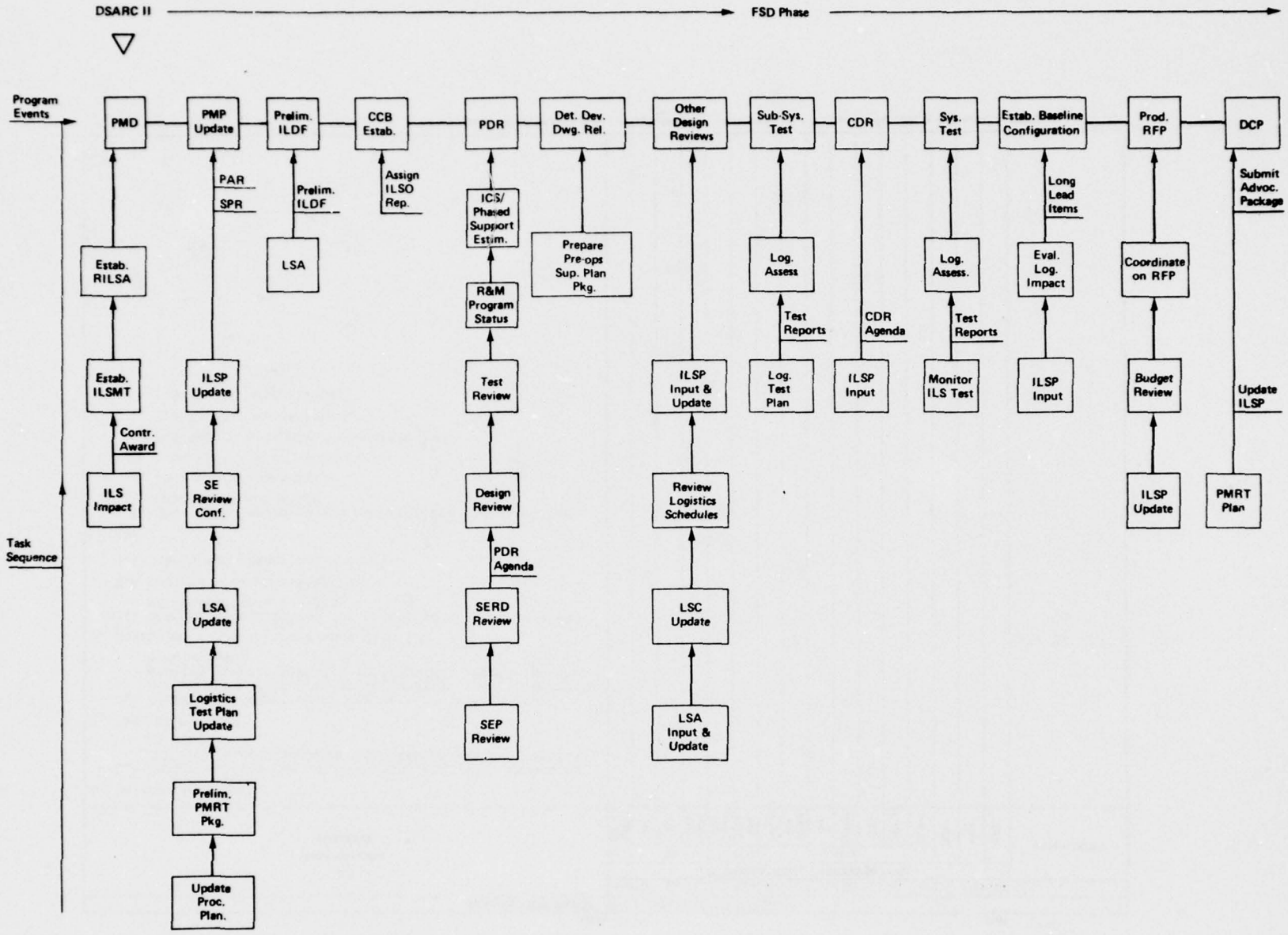

Figure 3-4. **GENERALIZED SEQUENCE OF KEY PROGRAM EVENTS/MAJOR LOGISTICS TASKS – FULL-SCALE DEVELOPMENT PHASE**

ACQUISITION PHASE: FULL-SCALE DEVELOPMENT

EVENT: PROGRAM MANAGEMENT DIRECTIVE (PMD) (DSARC II)

ILS TASK/SUBTASK SEQUENCE	ORGANIZATIONAL RESPONSIBILITIES																REFERENCES
	HQ USAF	PO: PM	PO: Dir.	PO: LM/ILSO	AFSC: HQ AFSC	AFSC: Dir./Org.	AFSC: Center	AFLC: HQ AFLC	AFLC: AQ	AFLC: AQ(X)	AFLC: ALC	AFLC: AGMC	AFTEC	ATC	User	CTR	
1. Review ILS impact																	
1.1 Review PMD for directives having logistics impact on PMP and ILSP. Identify and document changes/modifications.			C	P					C	I	C	I					
2. Establish ILSMT																	
2.1 Coordinate selection of key representatives from government and contractor to comprise team. Recommend problem areas for review as required. Participate on review team.		D	C	P	C	C	C	C	C	C	C	C	C	C	C	C	
3. Establish RTLCA in accordance with PMP		A		P	P			P									AFR 800-2
3.1 Determine requirement for extension of ILSO located at contractor's facility.																	
3.2 Designate responsibilities.																	
3.3 Select and relocate personnel.																	
NOTES:																	
1. The DCP is approved and contractor(s) selected for program continuation.																	
2. USAF awards contract.																	
3. Issue the FSD PMD (DSARC II).																	
3.1 The PO assignment reconfirmed.																	
3.2 The ALC reconfirmed.																	
3.3 The LM reconfirmed.																	

P – Prepare, Produce, or Perform; C – Coordinate With; I – Information; R – Review; A – Approve; D – Designate or Assign

ACQUISITION PHASE: FULL-SCALE DEVELOPMENT

EVENT: PROGRAM MANAGEMENT PLAN (PMP) UPDATE

ILS TASK/SUBTASK SEQUENCE	ORGANIZATIONAL RESPONSIBILITIES																	REFERENCES
	HQ USAF	PO			AFSC				AFLC					AFTEC	ATC	User	CTR	
		PM	Dir.	LM/ ILSO	HQ AFSC	Div./ Org.		Center	HQ AFLC	AQ	AQ(X)	ALC	AGMC					
1. Update procurement plan inputs:																		
*1.1 Devise preliminary logistics procurement input plans for: . Spares . SE . Training . Facilities . Technical publications . Software . Reprocurement data		A	C	P						C	I	C	C	I	I	I		
2. Prepare preliminary PMRT plan																		AFR 800-4
2.1 Draft preliminary Program Management Responsibility Transfer (PMRT) plan with inputs from PO and ALC(s). . Coordinate planned transfer activities from the PO to the ALC.		A	C	P	I				I	C	I	C				I		
2.2 Coordinate the establishment of a preliminary target transfer date.		A	C	P	I				I	C	I	C				I		
3. Update logistics test provisions																		AFR 80-14 & AFLC Sups. AFR 23-36
3.1 Review DT&E plans in SOW for conformance with ILSP. Update PMP accordingly.		A	C	P						C	I	C	I	I				
3.1.1 Assure DT&E test plans consider provisions to have ILSO test representation on site during tests.																		
3.1.2 Assure contents of Sec. 5 and Sec. 9 of PMP are compatible.																		
3.2 Assure provisions are included for ALC to acquire DT&E test data for logistics evaluation.		A	C	P						C	I	C		C		I	I	
3.3 Update the AFLC T&E plan inputs in accordance with PMP inputs.		I	C	C					R	A	I	P	I	C				
3.4 Update logistics inputs for DT&E test plan and prepare input to PMP as required. . NOTE: DT&E and IOT&E may be combined.		A	C	P						A	I	C	I	C	I	I	I	

*ILS modeling tools may be applicable to performance of task.

P – Prepare, Produce, or Perform; C – Coordinate With; I – Information; R – Review; A – Approve; D – Designate or Assign

ACQUISITION PHASE: FULL-SCALE DEVELOPMENT

EVENT: PROGRAM MANAGEMENT PLAN (PMP) UPDATE (continued)

ILS TASK/SUBTASK SEQUENCE	ORGANIZATIONAL RESPONSIBILITIES																	REFERENCES
	HQ USAF	PO: PM	PO: Dir.	PO: LM/ILSO	AFSC: HQ AFSC	AFSC: Div./Org.	AFSC: Center	AFLC: HQ AFLC	AFLC: AQ	AFLC: AQ(X)	AFLC: ALC	AFLC: AGMC	AFTEC	ATC	User	CTR	
4. Update LSA																		MIL-STD-1388 MIL-STD-470
*4.1 Revise SE requirements for SERD review from updated LSA inputs: . Update ORLA . Apply LSC inputs to LCC trade-offs		A	C	P					I	I	C					C		AFLCM/AFSCM 800-4 (Brief description of content and application of LSA in AFLCP 800-3, Sec. F) Additional guidelines: AFSCP 800-21 AFAD 71-685
5. Convene preliminary SE Review/Guidance Conference																		
5.1 Convene SE review/guidance meeting to review policies, procedures, programming information, and method used to determine SE support requirements. PO convenes via AFLC/AFSC Form 22.		A	C	C					I	I	C	C	C	C	I	C		
*5.2 Coordinate the plans for submission of the following in accordance with the contract: . SEP (DI-A-6102) . GSERD (DI-S-6176) . CRS (DI-S-6177) . CSEL - CFE and GFE		A	C	P					I	I	C	R	R	R	I	C		AFLCM 65-3 AFSCM 65-2
6. Update ILSP																		AFSCP 800-21
6.1 Include in the format of the ILSP the areas necessary to provide the basis for the LSPS (due 30 days before DSARC III). These areas are covered in general by the basic format of the ILSP (AFLCM 800-1) and outlined specifically in AFSCP 800-21, Section 10. Continue update of these areas through the FSD phase.		A	C	P					R	I	C				I	I		AFSCP 800-3 AFLCM 800-1
6.2 Update the ILSP in accordance with the above tasks (1 - 5) and prepare inputs to the PMP.		A	C	P	I			I	R	I	C		I	I	I	I		

*ILS modeling tools may be applicable to performance of task.

P – Prepare, Produce, or Perform; C – Coordinate With; I – Information; R – Review; A – Approve; D – Designate or Assign

ILS TASK/SUBTASK SEQUENCE	ACQUISITION PHASE: FULL-SCALE DEVELOPMENT EVENT: PROGRAM MANAGEMENT PLAN (PMP) UPDATE (continued) ORGANIZATIONAL RESPONSIBILITIES PO: HQ USAF; PM; Dir.; LM/ILSO AFSC: HQ AFSC; Div./Org.; Center AFLC: HQ AFLC; AQ; AQ(X); ALC; AGMC AFTEC; ATC; User; CTR	REFERENCES
NOTE: Periodic PAR/SPR inputs . Coordinate inputs from ALCs and ILSO . Prepare inputs to PO/PM's PAR presentation . Relate logistics events/status to master schedule . Identify potential problems and discuss logistics impact of funding status . Present logistics portion (with script and charts) to AFLC AQ for review prior to presentation to AFLC Commander . Summarize PM's portion of PAR . Relate logistics status to program master schedule . Identify problems and impact of funding changes		AFSCR 800-1 AFSCP 800-23

P – Prepare, Produce, or Perform; C – Coordinate With; I – Information; R – Review; A – Approve; D – Designate or Assign

ACQUISITION PHASE: FULL-SCALE DEVELOPMENT

EVENT: PRELIMINARY INTEGRATED LOGISTICS DATA FILE (ILDF)

ILS TASK/SUBTASK SEQUENCE	ORGANIZATIONAL RESPONSIBILITIES																		REFERENCES
		PO			AFSC				AFLC										
	HQ USAF	PM	Dir.	LM/ ILSO	HQ AFSC	Div./ Org.	Center		HQ AFLC	AQ	AQ(X)	ALC	AGMC	AFTEC	ATC	User	CTR	
1. Convert LSA data to ILDF																		MIL-STD-1388 -1, 2A
*1.1 Convert ILS data (MTBF, MTTR, etc.) included in the LSA to magnetic tape for storage in automated Integrated Logistics Data File (ILDF).			C	P						I	I	C					P	SISMS (AFLCR/AFLCM 800-24)
1.2 Review prior test data and TROS data for similar systems to compare demonstrated parameters with estimated/calculated logistics parameters (MTBF, MTTR, etc.) stored in the ILDF.			C	P						I	I	C	I	I			C	
1.2.1 Identify those logistics parameters having no historical back-up data and track for future verification.																		

*ILS modeling tools may be applicable to performance of task.

P – Prepare, Produce, or Perform; C – Coordinate With; I – Information; R – Review; A – Approve; D – Designate or Assign

ACQUISITION PHASE: FULL-SCALE DEVELOPMENT

EVENT: ESTABLISHMENT OF CONFIGURATION CONTROL BOARD

ILS TASK/SUBTASK SEQUENCE	ORGANIZATIONAL RESPONSIBILITIES																	REFERENCES
		PO			AFSC			AFLC										
	HQ USAF	PM	Dir.	LM/ ILSO	HQ AFSC	Div./ Org.	Center	HQ AFLC	AQ	AQ(X)	ALC	AGMC	AFTEC	ATC	User	CTR	
1. Configuration Control Board (CCB) is established by the PM. The LM appoints ILS representative(s) and alternates to serve on the CCB		D	P	P							P				P	P	AFLCR/AFSCR 800-24, Chapter 14
NOTE: 1. CCB may convene at the contractor's facility. Therefore, the ILS CCB representative may be assigned from the RILSA staff.																	
2. CCB is a continuing activity through the life of the system and must be supported by the LM throughout his tenure.																	

P – Prepare, Produce, or Perform; C – Coordinate With; I – Information; R – Review; A – Approve; D – Designate or Assign

ACQUISITION PHASE: FULL-SCALE DEVELOPMENT

EVENT: PRELIMINARY DESIGN REVIEW (PDR)

ILS TASK/SUBTASK SEQUENCE	ORGANIZATIONAL RESPONSIBILITIES																	REFERENCES
		PO			AFSC			AFLC										
	HQ USAF	PM	Dir.	LM/ ILSO	HQ AFSC	Div/ Org.	Center	HQ AFLC	AQ	AQ(X)	ALC	AGMC	AFTEC	ATC	User	CTR	
1. Conduct SE Plan (SEP) review																		
1.1 Monitor contractor's preparation and submission of plan				P							C					P	DI-A-6102
. Submission to be within specified time period following contract award (if specified, DI-A-6102)																		
1.2 Review/approve plan and return to contractor within a specified time period after receipt		A		P							C						AFAD 71-685
2. Review Support Equipment Recommendations Data (SERD)		A	C	P					R	I	C	R	R	R	R	C	DI-S-6176
2.1 Determine GFE versus CFE		A	C	P					C		C				R	C	
*2.2 Determine spares, technical data, and reprocurement data requirements		A	R	P					C		C				R	C	
*2.3 Identify common and peculiar SE		A	R	P					C		C	C	C		R	C	AFR 800-12
2.4 Review Calibration Requirement Summary (CRS)		A	R	P					C		C	C	C		R	C	DI-S-6177 (SISMS) DI-S-3615
3. Review design for impact on ILS																		AFR 800-8
3.1 Review design for compatibility with logistics/support concept called out in specification and ILSP		R	C	P C					I		P					C	MIL-STD-1521
3.2 Coordinate mock-up requirements for logistics evaluation																		
3.3 Coordinate and resolve special problems		R	C	P					C		C					C	AFR 400-46 AFLCR 400-16
. Assess use of lessons learned																		
. Screen IROS data on similar systems to identify potential design problems impacting on logistics																		
4. Review test approaches and breadboard/component test results		I	C	P							C	C	I	I	I	P	
5. Review status of reliability and maintainability program		I	C	P							C						
6. Update ICS/phased logistics support estimates		I	C	P		I			I		C	I			I	C	

NOTE: 1. Assure PDR agenda addresses these tasks.
2. Assure participation in reviews of specialists in selected areas of logistics concern (e.g., packaging, corrosion prevention, technical data, computer programming and ADP, electro-magnetic compatibility, etc.). These specialists should participate in other design reviews, as applicable, and in the Critical Design Review.

*ILS modeling tools may be applicable to performance of task.

P – Prepare, Produce, or Perform; C – Coordinate With; I – Information; R – Review; A – Approve; D – Designate or Assign

Table 3-17 Page: 3-35

ACQUISITION PHASE: FULL-SCALE DEVELOPMENT

EVENT: DETAILED DEVELOPMENT DRAWING RELEASE

ILS TASK/SUBTASK SEQUENCE	ORGANIZATIONAL RESPONSIBILITIES																		REFERENCES
		PO			AFSC			AFLC						AFTEC	ATC	User	CTR	
	HQ USAF	PM	Dir.	LM/ ILSO	HQ AFSC	Dir/ Org.	Center	HQ AFLC	AQ	AQ(X)	ALC	AGMC						
1. Prepare pre-operational support plan																	P	DI-L-6143 (SISMS) DI-L-3302
1.1 Review ILSP, logistics test plan, and contractor(s) ISPs for inputs			C	P							C						C	
1.2 Convene Pre-operational Support Guidance Conference		A	C	P					I	I	C			C	C	C	C	
1.2.1 Refine DT&E support plan in accordance with ILSP and DT&E test plan																		AFR 80-14
1.3 Verify contractor(s) SE plan, SERD, CRS, and CSEL against specified logistics requirements		A	C	P					C	I	P	C		C	C	C	C	DIs A-6102, S-6176, S-6177, and SISMS (AFLCR/AFSCR 800-24)
1.3.1 Determine if GFE/CFE items and their support are identified and scheduled properly																		
1.4 Verify contractor(s) overall support plan for ATE against specified logistics requirements		A	C	P					C	I	P C	C		C	C	C	C	
1.5 Assure that software and software support are compatible with SE requirements and logistics concept		A	C	P					C	I	P C	C		C	C	C	C	
1.5.1 Identify software support, both CFE and GFE																		
1.6 Identify training requirements with regard to:		A	C	P					C		P C	C		C	P	C	C	
. SE																		
. ATE																		
. Maintenance																		
1.7 Check and identify progress of facilities		R	R	P					R	I	C	C		C	C	C	C	
1.8 Determine delivery schedule for all spares		A	C	P					R	I	C			C	C	C	C	
1.9 Clearly identify technical data needs:		A	C	P					C	C	C	C		C	C	I	C	
. Logistics test data required																		
. Technical data required																		
. Technical reports required																		
. Reporting procedures required																		
1.10 Make Joint Test Force (JTF) representative selection(s)		A	C	P					A C		C			C		C	I	
1.11 Prepare support plan		A	C	P					R	I	P C			I	C	I	P	
1.11.1 Obtain plan approval and provide input into the PO's DT&E program plan																		
1.11.2 Development SE, ATE and spares ordered																		

P – Prepare, Produce, or Perform; C – Coordinate With; I – Information; R – Review; A – Approve; D – Designate or Assign

ACQUISITION PHASE: FULL-SCALE DEVELOPMENT

EVENT: OPER. SPT. REVIEWS

ILS TASK/SUBTASK SEQUENCE	ORGANIZATIONAL RESPONSIBILITIES																	REFERENCES
	HQ USAF	PO PM	PO Dir.	PO LM/ ILSO	AFSC HQ AFSC	AFSC Div./ Org.	AFSC Center	AFLC HQ AFLC	AFLC AQ	AFLC AQ(IX)	AFLC ALC	AFLC AGMC	AFTEC	ATC	User	CTR	
1. Review and assess ILS impact of proposed design changes		A	C	P					I		C					P	
1.1 Have contractor(s) update the following in accordance with the current system configuration:		D	R	C					C	C	C		I	I	I	P	
. ISA																	AFR 80-13 AFR 400-46 AFLCR 400-16 AFR 800-8
. R&M trade studies																	
. ORLA																	
. LCC with new LSC inputs																	
. Comparison with IROS/ASIP data																	
. Design/support trade studies																	
. ILSP																	
1.2 Prepare logistics evaluation criteria for design reviews based on requirements in system specification		A	C	P					R	I	P	C					AFR 66-14 MIL-STD-1521 AFR 71-1
1.2.1 Ensure criteria will cover all aspects of maintainability, packaging and support features																	
*1.2.2 Exercise cost models to evaluate and validate logistics impact of proposed design changes																	
2. Prepare LCC update and assessments of logistics impact on LCC		R		P							C				I		
2.1 Contractor provides timely LCC estimates		A	P	P		I			I		C					P	
2.2 Update ICC/phased logistics support estimates		R	C	P							C					P	
3. Review schedules of logistics events for compatibility. Revise/adjust accordingly.		R	C	P		I			I		C				I	P	
. Spares . Technical data																	
. ST . Software and software support																	
. Training . Reprocurement data																	
. Facilities																	
4. Prepare ILSP update and inputs																	
4.1 Review latest configuration for changes impacting on logistics concept identified in ILSP		I	C	P					C	I	P C	C			I	I	
4.2 Utilizing logistics evaluation criteria, critique design for changes which impact on logistics requirements		I	C	P							P C			C	I	C	
4.2.1 Emphasize in particular the maintainability features to ensure maintainability and availability have not been compromised																	
*. Accomplish maintainability trade-offs for each change proposed																	

*ILS modeling tools may be applicable to performance of task.

P – Prepare, Produce, or Perform; C – Coordinate With; I – Information; R – Review; A – Approve; D – Designate or Assign

ACQUISITION PHASE: FULL-SCALE DEVELOPMENT

EVENT: OTHER DESIGN REVIEWS (continued)

ILS TASK/SUBTASK SEQUENCE	ORGANIZATIONAL RESPONSIBILITIES																	REFERENCES
	HQ USAF	PO			AFSC			AFLC						AFTEC	ATC	User	CTR	
		PM	Dir.	LM/ ILSO	HQ AFSC	Div./ Org.	Center	HQ AFLC	AQ	AQ(X)	ALC	AGMC						
4.2.2 Evaluate design to assure that changes do not affect transportability																		
4.3 Assess and update ILSP for all changes approved at the review. In particular, monitor changes to:		A	R	P					C	I	C	C	I	C	C	C		
. SE and ATE																		
. Software																		
. Spares provisioning																		

NOTE: All design reviews should be performed in a similar manner and should address the same areas. Further, there should be continuity in the review effort between sequential reviews. Other design reviews, for example, should relate to the PDR and, where applicable, to the CDR.

P – Prepare, Produce, or Perform; C – Coordinate With; I – Information; R – Review; A – Approve; D – Designate or Assign

ACQUISITION PHASE: FULL-SCALE DEVELOPMENT

EVENT: SUBSYSTEM TEST

ILS TASK/SUBTASK SEQUENCE	ORGANIZATIONAL RESPONSIBILITIES																	REFERENCES
	HQ USAF	PO: PM	PO: Dir.	PO: LM/ ILSO	AFSC: HQ AFSC	AFSC: Div./ Org	AFSC: Center	AFLC: HQ AFLC	AFLC: AQ	AFLC: AQ(X)	AFLC: ALC	AFLC: AGMC	AFTEC	ATC	User	CTR	
1. Update logistics input to DT&E test plan																		AFR 80-14 AFR 23-36
1.1 Update inputs to T&E test plan and logistics inputs/ recommendations to DT&E plan		I A	C	P					A C	I	C	I	C	I	I	I		
2. Perform logistics assessment of test results																		
2.1 Monitor testing to assure that logistics tests are included as called out in contract and SEMP (and DT&E test plan)		I	C	P					I	I	C	I	I	I	I	C		
2.2 Evaluate tests to determine compliance with logistics requirements for the subsystem as called out in ILSPs and SEMP, i.e., reliability, maintainability, etc.		R	C	P		I			I	I	C	I	I	I	I	C		
2.3 Recommend additional test/demonstration required for DT&E		R	C	P					C	I	C	I	R	I	I	C		AFR 800-8 and Sups.
2.4 Review contractor design actions to assure use of test data and lessons learned		I	C	P							C				I	C		AFR 800-8 and Sups.
2.5 Analyze and evaluate design changes resulting from subsystem tests to determine relative changes between design and logistics costs		R	C	P							C				I	P		
2.6 Determine the extent to which IOT&E data are being applied to logistics analyses		I	C	P		I			I		C					C		
2.7 Review and evaluate design decisions made to achieve performance, LCC and design-to-cost goals for impact on logistics		R	C	P		I			I		C					P		
2.8 Coordinate with PO Directorates on the proper use of logistics data in determining impact on logistics requirements		I	C	P		I				I	C							

P – Prepare, Produce, or Perform; C – Coordinate With; I – Information; R – Review; A – Approve; D – Designate or Assign

ACQUISITION PHASE: FULL-SCALE DEVELOPMENT

EVENT: CRITICAL DESIGN REVIEW (CDR)

ILS TASK/SUBTASK SEQUENCE	ORGANIZATIONAL RESPONSIBILITIES																		REFERENCES
		PO			AFSC				AFLC										
	HQ USAF	PM	Dir.	LM/ ILSO	HQ AFSC	Div./ Org.	Center		HQ AFLC	AQ	AQ(X)	ALC	AGMC	AFTEC	ATC	User	CTR		
1. Prepare ILSP inputs																			
1.1 Update logistics criteria for evaluation of system design based on ILSP requirements and concepts		A	C	P						C	I	C	I	I	I				
1.2 Apply logistics evaluation criteria against actual test results/performance			C	P						C	I	C	C		I	I	C		
1.3 Screen IROS/ASIP data on similar systems to identify potential design problems impacting on logistics performance			C	P						C	I	C	C		I	I	C		AFR 80-13 AFLCR 400-16 DI-R-3537A DI-R-3535 DI-R-3570
. Review results of PDR . Review results of other design reviews																			
1.4 Schedule logistics participation in CDR		A	C	P						C	C	P	P		C	I	C		
. Correlate, analyze and document logistic impact of CDR results																			
1.5 Update ILSP to include any changes agreed to during the review		A	R	P						C	I	C		I	C	C	C		
. Document changes																			
NOTE: Reference PDR design review agenda and assure, as a minimum, that the same tasks are included in the CDR agenda.																			

P – Prepare, Produce, or Perform; C – Coordinate With; I – Information; R – Review; A – Approve; D – Designate or Assign

ACQUISITION PHASE: FULL-SCALE DEVELOPMENT

EVENT: SYSTEM TEST

ILS TASK/SUBTASK SEQUENCE	ORGANIZATIONAL RESPONSIBILITIES																	REFERENCES
	HQ USAF	PO: PM	PO: Dir.	PO: LM/ ILSO	AFSC: HQ AFSC	AFSC: Div./ Org.	AFSC: Center	AFLC: HQ AFLC	AFLC: AQ	AFLC: AQ(IX)	AFLC: ALC	AFLC: AGMC	AFTEC	ATC	User	CTR	
1. Monitor tests																		AFR 80-14
1.1 Monitor system tests to assure that ILS requirements are satisfied in accordance with contract, PMP, and DT&E test plan		I	C	P					C	I	C			I	I	C		DI-T-3701 MIL-STD-470 MIL-STD-471A
NOTE: Contract should call out DT&E ILS requirements/ demonstrations as identified in test plan, ILSP, and PMP																		
2. Perform logistics assessment of test results																		AFR 80-14
2.1 Evaluate test results to determine contractual compliance and level of logistic capabilities		R	C	P		I			I	I	R		I	I	R	C		
2.2 Determine additional DT&E tests required		R	C	P		I				I	C	C	R	I	R	C		
2.3 Submit DT&E logistics test report inputs to PO (Directorate of Test and Deployment or as designated by PM)		A	R	P		I			I	I	C	I	I	I	R	C		
2.3.1 Submit logistics supportability inputs																		
2.3.2 Provide cost of ownership estimates for input to LCC																		
2.4 - 2.8 Perform same tasks as outlined for subsystem test tasks 2.4 - 2.8																		

P – Prepare, Produce, or Perform; C – Coordinate With; I – Information; R – Review; A – Approve; D – Designate or Assign

ACQUISITION PHASE: FULL-SCALE DEVELOPMENT

EVENT: ESTABLISH BASELINE CONFIGURATION

ILS TASK/SUBTASK SEQUENCE	ORGANIZATIONAL RESPONSIBILITIES																	REFERENCES
	HQ USAF	PO			AFSC				AFLC					AFTEC	ATC	User	CTR	
		PM	Dir.	LM/ ILSO	HQ AFSC	Div/ Org.	Center		HQ AFLC	AQ	AQ(X)	ALC	AGMC					
1. Prepare ILSP inputs																		
1.1 Input updated ILSP support features (as a result of the design review) into the LSA/ILDF, including:		A	C	P						C	I	P C			C	I	P	AFR 65-3
. Subsystem test results																		
. System test results																		
. Design review changes/modifications																		
. AFR 65-3 audit results																		
2. Evaluate logistics impact																		
2.1 Evaluate latest system configuration using the LSA and the ILDF			C	P						C	I	C			I	I	C	
*2.1.1 Perform trade studies for design changes versus logistics support impact																		
2.2 Update the LSA and ILDF in accordance with trade-offs to reflect current system configuration		A	C	P						I	I	C					P	
*2.3 Establish support requirements for system baseline configuration, including:		A	C	P						R	I	R		I	R	R	C	MIL-STD-1552 MIL-STD-1561
**. Production SE and ATE																		
**. Facilities																		
**. SE support																		
. Software and software support																		
**. Initial spares provisioning																		
. Packaging and transportation																		
. Training																		
. Technical data																		
2.3.1 Assess applicability of SAIP techniques for provisioning																		
2.4 Refine ILSP in accordance with tasks 2.1 through 2.3 above		A	C	P						C	I	C			C	I	C	
2.5 Revise and approve LSA and ISP for use in advocacy package		A	C	P						C	I	C			C	I	P	
2.6 Participate in audits and reviews		R		P		I				I		C			C	C	C	AFR 65-3 AFSCR/AFLCR 80-16 AFLCR 80-6
. Determine readiness of logistics support baseline for PMRT																		

*ILS modeling tools may be applicable to performance of task.
**Special attention should be directed to long lead items.

P – Prepare, Produce, or Perform; C – Coordinate With; I – Information; R – Review; A – Approve; D – Designate or Assign

ACQUISITION PHASE: FULL-SCALE DEVELOPMENT

EVENT: PRODUCTION RFP

ILS TASK/SUBTASK SEQUENCE	ORGANIZATIONAL RESPONSIBILITIES																	REFERENCES
		PO			AFSC			AFLC										
	HQ USAF	PM	Dir.	LM/ ILSO	HQ AFSC	Dir./ Org.	Center	HQ AFLC	AQ	AQ(X)	ALC	AGMC	AFTEC	ATC	User	CTR		
1. Update ILSP in accordance with coordinated RFP. Document rationale for changes.		A	C	P	I			I	R	I	C	C	I	I	I			
1.1 Establish requirements for continuation of RILSA and/or Resident Provisioning Team if applicable		A		P							C							
1.2 Consider requirements for continuing ILSMT		A		P							C							
2. Review budgeting for adequate funding for AFLC items of responsibility		A	C	P		R		R	R	I	C	C	I	C	I			
2.1 Assure funding action is initiated				P					R		C							
3. Coordinate on production RFP before release by PO				P					C		C							

P – Prepare, Produce, or Perform; C – Coordinate With; I – Information; R – Review; A – Approve; D – Designate or Assign

ACQUISITION PHASE: FULL-SCALE DEVELOPMENT

EVENT: DECISION COORDINATION PAPER* (DCP)

ILS TASK/SUBTASK SEQUENCE	ORGANIZATIONAL RESPONSIBILITIES																REFERENCES
	HQ USAF	PO: PM	PO: Dir.	PO: LM/ ILSO	AFSC: HQ AFSC	AFSC: Div/ Org.	AFSC: Center	AFLC: HQ AFLC	AFLC: AQ	AFLC: AQ(X)	AFLC: ALC	AFLC: AGMC	AFTEC	ATC	User	CTR	
1. Complete PMRT plan																	AF. 800-4
1.1 Coordinate updated inputs from PO and ALCs to the ILSP and PMRT plan		C	C	P					A	I	C		I	I	I	C	AFR 80-17
1.2 Draft final transfer plan for incorporation in the DCP and PMD		A	C	P	A	I		A	R	I	A	I	I	I	I	C	
NOTES:																	
1. The subsystem and system final test reports, the results of the CDR, inputs from the LSA and ILSP are incorporated into the LSP Summary (LSPS).																	AFSCP 800-21
2. The LSPS is included as part of the DCP.																	
3. The advocacy package is submitted to HQ/USAF via the DCP.																	

*Previously referred to as Development Concept Paper.

P – Prepare, Produce, or Perform; C – Coordinate With; I – Information; R – Review; A – Approve; D – Designate or Assign

3.5 PRODUCTION AND DEPLOYMENT PHASE

3.5.1 Introduction

Satisfactory completion of DSARC III results in the decision to release funds for production contracts for the major system. Acquisition of the project-oriented support deliverables either has been initiated or is in progress. The IOC for the support system has been established and production-support deliverables are scheduled for positioning/deployment.

The LM responsibilities are changing from heavy involvement in design activities to activities that support the operational system and final implementation tasks associated with PMRT. These duties consist primarily of tasks expediting the delivery of spares, SE, software, and technical data, and the establishment of facilities. In all likelihood, the LM's most critical concerns will now be in resolving open PMRT problems related to the latest system modifications requiring updating of spares kits. Key planning activities will be in logistics coverage for First Article Acceptance Tests.

Table 3-25 presents the major program transfer events and the related logistics inputs/tasks. Figure 3-5 presents the time sequence of the major transfer events and the related tasks required to complete the events.

3.5.2 Detailed ILS Task Sequence by Event Tables

Production and Deployment Phase Tables 3-26 through 3-30 are to be used in the same manner as the tables in the Validation and Full-Scale Development Phases. These tasks conclude the LM's responsibility to AQ and the PO/PM.

Table 3-25. PRODUCTION AND DEPLOYMENT PHASE: MAJOR PROGRAM TRANSFER EVENTS AND RELATED LOGISTICS INPUTS/TASKS

Program Events	Related Logistics Inputs/Tasks
PMD (DSARC III) (Table 3-26)	Note: • Production decision made • Contract awarded • Establish PMRT date
PMP (Table 3-27) First Article Acceptance (Table 3-28)	Update ILSP Evaluate first-article conformity with LSPS
Full Production Funds Release (Table 3-29)	Note: Full production go-ahead is approved
PMRT (Table 3-30)	Note: Information to be supplied after revision of AFR 800-4

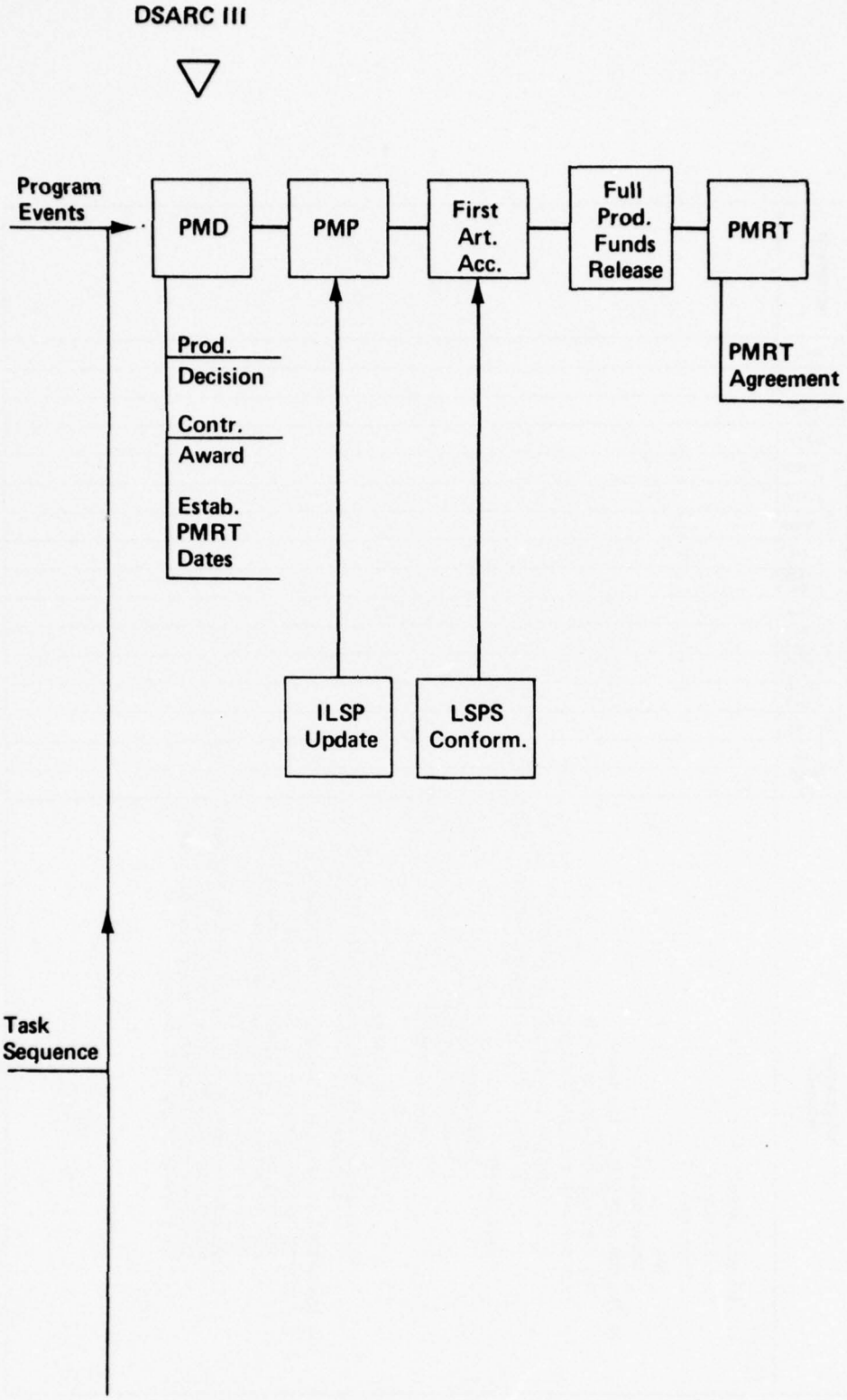

Figure 3-5. GENERALIZED SEQUENCE OF KEY PROGRAM EVENTS/ MAJOR LOGISTICS TASKS – PRODUCTION AND DEPLOYMENT PHASE

Table 3-26

ACQUISITION PHASE: PRODUCTION AND DEPLOYMENT

EVENT: PROGRAM MANAGEMENT DIRECTIVE (PMD) (DSARC III)

ILS TASK/SUBTASK SEQUENCE	ORGANIZATIONAL RESPONSIBILITIES																		REFERENCES
	HQ USAF	PO			AFSC			AFLC						AFTEC	ATC	User	CTR	
		PM	Dir.	LM/ ILSO	HQ AFSC	Div./ Org.	Center	HQ AFLC	AQ	AQ(X)	ALC	AGMC						
NOTES:																			
1. Advocacy package reviewed for:																			
. Performance																			
. Schedule		N	O	T	A	P	P	L	I	C	A	B	L	E					
. Cost																			
. Supportability																			
2. Program continuance approved																			
2.1 Issue production contract																			
2.2 Complete initial provisioning:																			
2.2.1 Initiate ICS plan if applicable																			
. Spares, SE, and support software plans																			
2.2.2 Order:																			
. Production SE																			
. Production software																			
. SE and SW support																			
. Training																			
. Technical publications																			
2.2.3 Assure follow-on provisioning plans are developed																			
3. Production decision is made and PMD is released																			
3.1 PMD may be released for initial production approval only. Full production funds would then be released predicated on successful Physical Configuration Audit (PCA)																			
3.2 Transfer agreement reassigning program logistics management responsibility from DCS/Acquisition Logistics to DCS/Materiel Management may occur as a result of the PMD release																			

P – Prepare, Produce, or Perform; C – Coordinate With; I – Information; R – Review; A – Approve; D – Designate or Assign

Table 3-27 Page: 3-49

ACQUISITION PHASE: PRODUCTION AND DEPLOYMENT

EVENT: PROGRAM MANAGEMENT PLAN (PMP)

ILS TASK/SUBTASK SEQUENCE	ORGANIZATIONAL RESPONSIBILITIES																	REFERENCES
		PO			AFSC				AFLC									
	HQ USAF	PM	Dir.	LM/ ILSO	HQ AFSC	Dir/ Org.	Center		HQ AFLC	AQ	AQ(X)	ALC	AGMC	AFTEC	ATC	User	CTR	
1. Update ILSP																		
1.1 Revise ILSP, as applicable, in accordance with program changes reflected in the PMD and prepare inputs to Sections 5 and 9 and Test Annex of PMP		A	C	P						C	I	C	C		C	I	C	
NOTE: Remaining events and tasks need to be accomplished whether LM has been reassigned or not. The tasks are presented on the premise that the LM reassignment does not occur until PMRT.																		

P – Prepare, Produce, or Perform; C – Coordinate With; I – Information; R – Review; A – Approve; D – Designate or Assign

ACQUISITION PHASE: PRODUCTION AND DEPLOYMENT

EVENT: FIRST ARTICLE ACCEPTANCE

ILS TASK/SUBTASK SEQUENCE	ORGANIZATIONAL RESPONSIBILITIES																	REFERENCES
		PO			AFSC				AFLC					AFTEC	ATC	User	CTR	
	HQ USAF	PM	Dir.	LM/ ILSO	HQ AFSC	Div./ Org.	Center	HQ AFLC	AQ	AQ(X)	ALC	AGMC						
1. Evaluate first article for conformity with logistics contractual requirements																		
1.1 Develop and utilize evaluation criteria from the LSPS and LCA for the conformity inspection		A	C	P					C	I	C			R	R	R	C	
1.1.1 Emphasize those support features which contribute to system readiness, including:																		
. Fault isolation capabilities																		
. Transportation and handling characteristics																		
. MTTR																		
. Maximum allowable downtime																		
. Training requirements																		
2. Determine acceptability of production articles																		
2.1 Participate in and review results of additional DT&E, production qualification, and acceptance tests		A	P	P		R			R		C	C	P			R	C	
2.1.1 Analyze results to identify changes from DT&E and IOT&E results which impact on the logistics support posture																		
2.1.2 Refine support posture and update ILSP																		
2.1.3 Participate in first article acceptance decision																		
2.2 Provide inputs to refine LCC estimate for production configuration		R	C	P		I			I		R					R	P	
NOTE: Review Interim Contractor Support (ICS) plan if applicable.																		

P – Prepare, Produce, or Perform; C – Coordinate With; I – Information; R – Review; A – Approve; D – Designate or Assign

ACQUISITION PHASE: PRODUCTION AND DEPLOYMENT

EVENT: FULL PRODUCTION FUNDS RELEASE

ILS TASK/SUBTASK SEQUENCE	ORGANIZATIONAL RESPONSIBILITIES																	REFERENCES
	HQ USAF	SPO: PM	SPO: Dir.	SPO: LM/ILSO	AFSC: HQ AFSC	AFSC: Div./Org.	AFSC: Center	AFLC: HQ AFLC	AFLC: AQ	AFLC: AQ(X)	AFLC: ALC	AFLC: AGMC	AFTEC	ATC	User	CTR		
NOTES: 1. Upon successful Physical Configuration Audit (PCA), the production funds are released for production go-ahead. 2. Monitor production of: . SE and SE support equipment . Software and software support 3. Assist in provisioning conferences as required.	NOT APPLICABLE																	

P – Prepare, Produce, or Perform; C – Coordinate With; I – Information; R – Review; A – Approve; D – Designate or Assign

ACQUISITION PHASE:	EVENT:																			
ILS TASK/SUBTASK SEQUENCE	ORGANIZATIONAL RESPONSIBILITIES																			REFERENCES
		PO			AFSC			AFLC						AFTEC	ATC	User	CTR			
	HQ USAF	PM	Dir.	LM/ ILSO	HQ AFSC	Div./ Org.	Center	HQ AFLC	AQ	AQ(X)	ALC	AGMC								
NOTES: 1. AFR 800-4 is currently being revised. This revision concerns the implementation of PMRT. Information will be supplied at a later date. 2. Review ALC preparedness to respond to logistics system demands resulting from PMRT 2.1 Determine status of Technology Repair Center (TRC) equipment and training 2.2 Verify spares and SE delivery . Review ALC support procedures 2.3 Finalize support responsibility agreement between AFSC and AFLC 2.4 Review Item Manager (IM) readiness 2.5 Review other ALC and AGMC support readiness postures 2.6 Finalize any inter-service support agreements 3. Finalize support agreements between involved ALCs and AGMC		N O T A P P L I C A B L E																		

P – Prepare, Produce, or Perform; C – Coordinate With; I – Information; R – Review; A – Approve; D – Designate or Assign

APPENDIX A

ORGANIZATION SYMBOL IDENTIFICATION FOR VARIOUS ALC FUNCTIONAL RESPONSIBILITIES OF MAJOR INTEREST TO LOGISTICS MANAGERS

(Reference AFLCR 23-43 for detailed organization and mission responsibilities)

MMM (Policy Assistance, IOT&E Focal Point, Manpower, Funds):

- Reliability
- Maintainability
- IROS
- ORLA
- LCC
- (EMCP) Electro-Magnetic Compatibility Program
- ILS
- SISMS
- (CDMP) Contractor Data Management Program

MMP (Computer Services):

- Data Products
- MIPs
- ORLA

MMS (Provisioning Specialists):

- Item Identification
- Suitable Sub-Items
- Technical Data
- Equipment Allowance Data
- Provisioning Policy
- Policy on Engineering Data

MMS (Provisioning Specialists) (continued):

- Store-Requisition-Issue
  - •• Specifications
  - •• Standards
  - •• MIL Handbooks
  - •• QPLs
  - •• Specification Bulletins
- Guidance and Technical Assistance on Equipment Allowance Data
- Provisioning Data
  - •• Spare Parts
  - •• Documentation
  - •• Packaging Data
  - •• Cataloging Data
- Standardization
- •• Item Entry Control
  - •• Item Reduction Program
- Technical Order Management

MME (R&M Problems; ORLA and IROS Assistance):

- Exercise engineering authority on systems and equipment, including active participation in Acquisition Engineering Programs after IM and SM Division ALC assignment
- During Acquisition Phases, assure inclusion of reliability requirements, operational mathematical models, and related computer-program requirements
- Incorporate meaningful, numerical reliability and maintainability requirements into specifications, exhibits, work statements
- Participate in contractor verification programs
- Provide engineering consultation and assistance on all ALC Value Engineering matters
- Develop with AFSC System Program Director and process IAW AFSCR/AFLCR 80-17, Detailed Engineering Transfer Packages for AFLC acceptance of AF engineering responsibility for a system from AFSC

MMQ

- Serve as central ALC agency for management and processing quality unsatisfactory materiel reports
- Serve as focal point in D/MM and exercise surveillance over the preparation and coordination of storage serviceability standards and provide quality-assurance input as required
- Provide statistical sampling procedures and indoctrination in their use
- Develop quality-assurance phases of reliability, maintainability, and VE programs

MAW - Depot Maintenance Plans

XRS - Initial Planning and Programming

TECHNOLOGY REPAIR CENTER (TRC) ASSIGNMENT CATEGORIES

(Reference AFLCR 66-17)

Items determined to be in the following technologies are automatically assigned to the ALC and AGMC designated below.

	Technology	Family Group Integer of Work	Family	ALC and AGMC
1.	Weapons	All	All	Ogden
2.	Airmunitions	All	All	Ogden
3.	Electrical Components	All	All	Sacramento
4.	Electronic SE	All	All	San Antonio
5.	Electro/Mechanical SE	All	All	San Antonio
6.	Airborne Electronics	All	All	Warner Robins
7.	Ground Electronics (CEM)	All	All	Sacramento
8.	Missile Components	All	All	Ogden
9.	Hydraulics/Pneudraulics	Transmissions	All	Oklahoma City
		Air Driven Accessories	All Except RAM Air Turbines	Oklahoma City
		Fluid Driven Accessories	RAM Air Turbines	Ogden
			All	Sacramento
10.	Oxygen Components	All	All	Oklahoma City
11.	Life Support Systems	All	All	Warner Robins
12.	Nuclear Components	All	All	San Antonio
13.	Propellors	All	All	Warner Robins
14.	Portable Buildings	All	All	Warner Robins
15.	Landing Gear	All	All	Ogden
16.	Photographic Equipment	All	All	Ogden
17.	Training & Simulation Equip	All	All	Ogden
18.	Instruments	Electrical Mechanical Instruments	All	Ogden
		Engine Instruments	All	Oklahoma City
		Press, Temp & Humidity Measuring and Ctl	All	Ogden
		Navigation Instruments	Inertial Msmt Units/Platforms	AGMC
			All Except IMUs/Platforms	Ogden
		Flight Control Instrm.	All	Sacramento
		Automatic Flight Control	All	Oklahoma City
		Gyroscopes	Displacement Gyros	AGMC
			All Except Displacement	Warner Robins

Note 1: Other selected technical specialties:

Non-Destructive Inspection (NDI)	-	San Antonio
Aircraft Structural Integrity Program (ASIP)	-	Oklahoma City
Corrosion Prevention	-	Warner Robins

Note 2: In accordance with AFLCR 523-1, airframe, engines, and related structural components will require HQ AFLC/MAXP evaluation and publication of AFLC 523 series mission assignment regulation.

APPENDIX B

ABBREVIATIONS AND ACRONYMS

A

AFAD	Air Force Acquisition Document
AFFTC	Air Force Flight Test Center
AFLC	Air Force Logistics Command
AFLCM	Air Force Logistics Command Manual
AFLCP	Air Force Logistics Command Pamphlet
AFLCR	Air Force Logistics Command Regulation
AFM	Air Force Manual
AFP	Air Force Pamphlet
AFPR	Air Force Plant Representative
AFPRO	Air Force Plant Representative Office
AFR	Air Force Regulation
AFSC	Air Force Systems Command
AFSCM	Air Force Systems Command Manual
AFSCP	Air Force Systems Command Pamphlet
AFSCR	Air Force Systems Command Regulation
AFTEC	Air Force Test and Evaluation Center
AGE	Aerospace Ground Equipment (obsolete; see SE)
AGEP	Aerospace Ground Equipment Plan
AGERD	Aerospace Ground Equipment Recommendations Data
AGMC	Aerospace Guidance and Metrology Center
ALC	Air Logistics Center
ALOS	Acquisition Logistics Operational Squadron
AMA	Air Materiel Area (obsolete; see ALC)
ASD	Aeronautical Systems Division
ASIP	Aircraft Structural Integrity Program
ASPR	Armed Services Procurement Regulation
ATC	Air Training Command

B

BITE	Built-In Test Equipment

C

CCB	Configuration Control Board
CDR	Critical Design Review
CDRL	Contract Data Requirements List
CFAE	Contractor Furnished Aerospace Equipment
CFE	Contractor Furnished Equipment
CFS	Contractor Field Services
CI	Configuration Item
CRS	Calibration Requirements Summary
CSEL	Consolidated Support Equipment List

D

DCP	Decision Coordinating Paper (formerly Development Concept Paper)
DI	Data Item
DID	Data Item Description/Definition
D/MM	Directorate of Materiel Management
DOD	Department of Defense
DODD	Department of Defense Directive
DODI	Department of Defense Instruction
DPML	Deputy Program Manager for Logistics
DSARC	Defense System Acquisition Review Council
DTC	Design To Cost
DT&E	Development Test and Evaluation

E

ECN	Engineering Change Notice
ECP	Engineering Change Proposal

F

FSD	Full-Scale Development
FSN	Federal Stock Number
FSR	Field Service Representative
FTC	Flight Test Center
FY	Fiscal Year
FYDP	Five-Year Defense Plan
FOT&E	Follow-on Operational Test and Evaluation

G

GFAE	Government Furnished Aerospace Equipment
GFE	Government Furnished Equipment
GFP	Government Furnished Property
GSERD	Ground Support Equipment Recommendations Data

H

HQ	Headquarters

I

ICS	Interim Contractor Support
ILDF	Integrated Logistics Data File
ILS	Integrated Logistics Support
ILSMT	Integrated Logistics Support Management Team
ILSO	Integrated Logistics Support Office
ILSP	Integrated Logistics Support Plan

IM	Item Manager
IOC	Initial Operating Capability
IOT&E	Initial Operational Test and Evaluation
IROS	Increased Reliability of Operational Systems
ISP	Integrated Support Plan

L

LCC	Life Cycle Cost
LGC	Logistics Guidance Conference
LM	Logistics Manager (see DPML)
LOG	Logistics
LOR	Level of Repair
LORA	Level of Repair Analysis
LPWG	Logistics Planning Working Group
LRU	Line Replaceable Unit
LSA	Logistics Support Analysis
LSC	Logistics Support Cadre
LSP	Logistics Support Plan
LSPS	Logistics Support Plan Summary

M

M	Maintainability
MAC	Military Airlift Command
MEA	Maintenance Engineering Analysis
MET	Management Engineering Team
MHFH	Man-Hours Per Flying Hour
MILSTD	Military Standard
MIP	Materiel Improvement Program/Project
MLE	Measured Logistics Effect
MM	Materiel Management
MMH	Maintenance Man-Hours
M&R	Maintainability and Reliability
MTBF	Mean Time Between Failures
MTBM	Mean Time Between Maintenance
MTBR	Mean Time Between Repairs
MTTR	Mean Time To Repair

N

NDI	Nondestructive Inspection
NRTS	Not Reparable This Station

O

O&M	Operating (Operations) & Maintenance
OCR	Office of Collateral Responsibility
OPR	Office of Primary Responsibility

ORLA	Optimum Repair Level Analysis
O&S	Operation and Support
OSD	Office of Secretary of Defense
OT&E	Operational Test and Evaluation

P

PAR	Program Assessment Review
PCA	Physical Configuration Audit
PCS	Permanent Change of Station
PD	Program Director
PDP	Preliminary Development Plan
PDR	Preliminary Design Review
PGSE	Peculiar Ground Support Equipment
PGSEL	Priced Ground Support Equipment List
PI	Proposal Instruction
PM	Program Manager
PMD	Program Management Directive
PMO	Program Management Organization
PMP	Program Management Plan
PMRT	Program Management Responsibility Transfer
PO	Program Office
POSP	Preoperational Support Program

R

R	Reliability
R&D	Research and Development
RDT&E	Research, Development, Test and Evaluation
RFP	Request for Proposal
RFQ	Request for Quote
RILSA	Resident Integrated Logistics Support Activity
RILSD	Resident Integrated Logistics Support Detachment
R&M	Reliability and Maintainability
ROC	Required Operational Capability
RPT	Resident Provisioning Team
RTO	Responsible Test Organization

S

SAIP	Spares Acquisition Improvement Program
SAMSO	Space and Missile Systems Organization
SE	Support Equipment (formerly AGE)
SECDEF	Secretary of Defense
SERD	Support Equipment Recommendations Data
SISMS	Standard Integrated Support Management System
SM	System Manager
SM&R	Source, Maintenance, and Recoverability
SOW	Statement of Work

SPD	System Program Director
SPOC	System Program Office Cadre
SPR	Secretary of the Air Force Program Review
SSA	Source Selection Authority
SSEB	Source Selection Evaluation Board
SSRB	Source Selection Review Board
SYSTO	System Staff Officer

T

TAT	Turn Around Time
TBD	To Be Determined
TCTO	Time Compliance Technical Order
T&M	Time and Material
TM	Technical Manual
TO	Technical Order
TP	Technical Publication
TRC	Technology Repair Center
TTA	Turnover Transition Agreement (obsolete)

U

UMR	Unsatisfactory Materiel Report
USAF	United States Air Force

V

VE	Value Engineering

W

WBS	Work Breakdown Structure
WUC	Work Unit Code

SUPPLEMENT TO

ACQUISITION LOGISTICS HANDBOOK

AIR FORCE LOGISTICS COMMAND

CONTENTS

SECTION ONE

INTRODUCTION

This supplement to the Acquisition Logistics Handbook provides the following:

- A brief profile of experience and training courses that current Logistics Managers and Logistics Staff personnel believed would be valuable background to an LM assignment
- A short text on guidelines for selecting and using system/subsystem logistics analysis models
- A bibliography of the documents referenced in the handbook by number and title, and a cross-reference to their location in the handbook
- An expanded list of abbreviations and acronyms used by the Air Force

It is recommended that supplementary material obtained by an LM during the course of his assignment be added to the above. Additional materials will be provided by HQ AFLC for inclusion in the supplement as these materials are developed.

SECTION TWO

PROFILE OF USEFUL EXPERIENCE AND TRAINING BACKGROUND FOR LOGISTICS MANAGER ASSIGNMENTS*

The following summarizes the Logistics Manager pre-assignment training and experience background considered useful to such an assignment by a number (approximately 20) of currently assigned AFLC Logistics Managers (LMs) and AQ staff personnel. This profile is intended to aid future LMs in planning for such an assignment and arranging to have this experience available on their initial ILSO staff.

Basic Experience

1. Post-graduate work in engineering/industrial management, operations research, logistics, R&D, or business (desirable)
2. AF operational experience (maintenance or operations recommended) (1 to 3 years)
3. AFSC experience in a product division or a Program Office (1 to 3 years)
4. AFLC experience at one or more ALCs under an SM or IM (2 to 3 years)
5. On-job training under an LM in a major system PO (1 to 3 years)
6. Rank of Major or higher

Formal (Training Course) Study

1. General
   (a) Management planning with emphasis on logistics requirements
   (b) System and system support funding procedures and budget planning during acquisition phases (should be familiar with initial acquisition, transfer, production, and deployment phase funding)

*Obtained from survey of currently assigned Logistics Managers.

(c) Cost and support evaluation/assessment procedures for spares requirements (should include ECPs and modification kit)

(d) Familiarization and review of AF and DoD regulations, directives, and governing documents for ILS

2. ILS Training Course (AFIT course No. 585 or equivalent)

3. Life-Cycle-Cost Course

4. Defense System Management School's (DSMS) Program Management course or System Program Management (AFIT Course No. 570)

5. AFSC Product Division Orientation Course(s)

6. HQ AFLC LM Training Course (to be developed)

SECTION THREE

GUIDELINES FOR SELECTING AND USING SYSTEM/SUBSYSTEM LOGISTICS ANALYSIS MODELS

A structured (uniform) analytical approach is needed to forecast requirements or explore their variations under alternative conditions. These may include alternatives in the system design or in the development of the logistics support policy and support system design. However, specific models or analytic techniques employed for logistics analysis can range from the analysis of the results of tests on actual systems or subsystems to an evaluation of an abstract mathematical representation of the system or subsystem. The selection of an appropriate analytical approach should consider the resources and time available, the complexity of the problem, and the required accuracy of the results.

As stated in the Acquisition Logistics Handbook, specific recommendations have not been provided on the selection of models for analyzing a given system's logistics requirements, policy, or life-cycle costs (LCC), because the techniques for this type of analysis are continually improving. The Logistics Manager should seek guidance from the appropriate AFSC field command staff, the collocated AQ(X) directorate, the designated ALC (MME, MMP, and MMQ), and AQMLE before selecting and applying a mathematical model to assure that the most recent model technology is considered for his application.* There are, however, some basic guidelines that can be provided to the LM in establishing an analysis strategy and choosing from among available techniques. The guidelines are based on providing an insight into what can be described as the generic categories of models. The categories most applicable to the LM's interests, and their application, are described in the following paragraphs.

The generic model categories are as follows:

- Physical Models
  - Iconic
  - Analog

---

*HQ AFLC Library and AFIT/SLSC (CREATE Computer System) have several hundred computerized model routines and subroutines immediately available for analytic applications.

- Symbolic Models
  - •• Verbal
  - •• Mathematical
    - Geometric
    - Analytic
      - -- Deterministic
      - -- Nondeterministic

Of these generic categories, the following are more likely to be useful in support of logistics analyses:

- The Iconic (or image) models are representative of and function in much the same way as the systems they represent. An example is a mock-up, which is an ideal means of evaluating support-equipment adequacy, accessibility, human engineering, and safety characteristics. Depending on the type of system, the LM may need mock-ups of several subsystems or sections to evaluate the adequacy of system support and maintainability characteristics.
- Verbal models are qualitative descriptions of a system or situation. A recollection of activity leading to an event is an example of a verbal model. A description of a system's functions is another. These qualitative-description models are often prerequisites for developing mathematical models and usually establish the basic assumptions to be used in the mathematical model. While commonly employed, this type of model is rarely systematic, has limited capability to accommodate variations in data, and can be irrational in interpretation.
- Geometric models are pictorial representations of systems that use lines and symbols to represent components, their functions, and the functional relationships. Schematics, flow diagrams, reliability block diagrams, and topological maps are all examples of geometric models. A specific application for the LM would be the symbolic diagram of a fuel piping, pumping, and valving system for an operational engine test site.
- Analytic mathematical models are characterized by a set or sets of equations representing the system and its operation. The equations are exercised and the outputs evaluated to obtain quantified measures of the system's ability to meet intended objectives. Development of this type of model may require the use of any of the preceding types of models.

Analytic models can be further characterized as deterministic or nondeterministic. A deterministic model results in an output measure that does not vary with successive exercises of the model for the same conditions and parameters. It can take many forms and can result in absolute quantities, statistical parameters, or probabilities. A nondeterministic model is normally statistical and results in an output that is not uniquely determined by a single exercise. The outputs could be in the same terms as those of a deterministic model, but the value could vary for the same conditions and parameters each time the model is exercised. A simulation model is the most commonly encountered type of nondeterministic model.

The most common uses of models are the following:

- Predicting and evaluating performance and effectiveness information on a system
- Evaluating short- and long-term system costs
- Determining optimum characteristics for a proposed system
- Determining what changes in an existing system's characteristics will yield the greatest improvement
- Developing information on how, when, and where to use the system
- Developing procedures, tactics, strategies, or policies
- Evaluating and comparing prototype or production hardware test data with initial estimates or assumptions
- Training

The advantages of using models, either physical or mathematical, are as follows:

- Economy. A system can be modeled and evaluated considerably more quickly and cheaply than it can be fabricated and tested.
- Flexibility. It is relatively easy to modify a model to investigate alternate concepts (a common use not explicitly stated above); changes in performance resulting from specific design changes; or the sensitivity of the system's performance and support requirements to changes in operating parameters, physical characteristics, or operational environments. Their systematic use permits management to explore "what if" questions in the decision process.

- Time Compression. Computerized simulation models can be used to investigate the results of operating a system over extended periods of real time in a matter of seconds or minutes.
- Simplicity. Models are adaptable enough to be used to address only the amount and level of complexity of a system that is of interest at a particular time.

The following limitations require that caution be exercised in using models and interpreting the results:

- The inability to accurately predict the impact of assumptions used to develop the model
- The sometimes unclear or undocumented assumptions made when developing a model
- The limitations in the quality, quantity, or availability of data needed to exercise the model
- The difficulty in verifying and validating a model
- The difficulty in properly introducing new dimensions to a complex model
- The inherent human characteristic of distrusting results obtained from exercising abstract models, caused by a lack of understanding

The following are some of the questions that should be answered before a model is selected to describe a given system:

- Can the necessary inputs (variables) required to exercise the model be acceptably defined? These inputs include the parameters required to describe the system and the physical and operational environment in which it is used.
- Can data be obtained or reasonably deduced for each of the defined variables in the equations?
- Can the explicit or implicit assumptions associated with the specified inputs be identified and accepted?
- Can the model respond to the immediate and long-term objectives of the user? Can these objectives be reasonably defined?
- Will the output of the model be expressed in terms or parameters that will contribute to the information needs of management?
- Can the functional relationships between the major components of the system be satisfactorily described by the model?

- Has the model been applied satisfactorily to analyze a similar system or problem? If so, what difficulties were encountered in the model's application and what modifications will be required to address the proposed application?
- Can the model's outputs be tested and verified?
- Is the model's logic acceptable from mathematical, engineering, and practical points of view? (It is of utmost importance that the user of the model outputs thoroughly understand and accept the model logic.)
- Are the limiting conditions, which may bound the model's use, identified and accepted?
- Does the need for the model warrant the cost?

The LM should be sure that each of these questions is examined prior to the selection of an analytic approach, particularly an approach that is intended to have continuous application in evaluating a given logistics system's changes or evolution. The results of such an examination should be documented and accepted compromises duly noted. These questions should be examined periodically and the original documentation updated. It is recommended that such examinations be included in the program's ILSP and milestone schedule.

In addition to the guidelines presented, the following references will provide additional insight into analytic approaches:

1. Dod Instruction 7041.3, Economic Analysis and Program Evaluation for Resource Management, 18 October 1972 (particularly Enclosure 2).

2. R. de Neufville and J.H. Stafford, Systems Analysis for Engineers and Managers, McGraw-Hill Book Co., New York, N.Y., 1971.

3. B.H. Rudwick, Systems Analysis for Effective Planning: Principles and Cases, John Wiley and Sons, Inc., New York, N.Y., 1969.

4. C. McMillan and R.F. Gonzalez, Systems Analysis: A Computer Approach to Decision Models, Richard D. Irwin, Inc., Homewood, Ill., Revised Edition, 1968.

5. AMCP 706-191, Engineering Design Handbook, System Analysis and Cost-Effectiveness, April 1971.

6. R.E. Cline, A Survey and Summary of Mathematical and Simulation Models as Applied to Weapon System Evaluation, IST Report No. 3681-16-F, the University of Michigan, Ann Arbor, Mich., October 1961 (AD 269235).

SECTION FOUR

BIBLIOGRAPHY AND CROSS-INDEX OF HANDBOOK REFERENCES

Regulations

Identification	Title	Handbook Reference
ASPR 7-104.9	Rights in Technical Data and Computer Software Services	Table 3-6
ASPR 9-200	Rights in Technical and Other Data and Copyrights	Table 3-6
AFR 23-36	Air Force Test and Evaluation Center (AFTEC)	Tables 3-4, 3-6, 3-13, 3-19
AFR 40 Series	Civilian Personnel	Table 2-1
AFR 57-1	Policies, Responsibility, and Procedures for Obtaining New and Improved Operational Capabilities	Tables 3-1, 3-3, 3-4
AFR 57-2	Joint Procedures for the Qualification and Acceptance of Aircraft Engine Parts from Alternative Sources of Supply	Table 3-9
AFR 65-3	Configuration Management	Table 3-22
AFR 66-8	Maintenance Evaluation Program	Table 3-9
AFR 66-14	Equipment Maintenance Policies, Objectives and Responsibilities	Tables 3-1, 3-4, 3-18
AFR 67-4	Requisition and Interchange of Engineering Data	Table 3-9
AFR 70-15	Source Selection Policy	Table 3-9
AFR 71-1	Packaging Management Objectives	Tables 3-4, 3-18
AFR 80-13	Aircraft Structural Integrity Program (ASIP)	Tables 3-18, 3-20
AFR 80-14	Test and Evaluation	Pg. 2-4, Tables 3-4, 3-5, 3-6, 3-13, 3-17, 3-19, 3-21
AFR 80-17	Air Force Independent Research and Development Policy Council	Table 3-22
AFR 172-14	Full Funding of Air Force Procurement Programs	Table 3-3
AFR 300-2, Supp. 1	Management of Automatic Data Processing Systems	Table 3-6
AFR 310-1	Management of Contractor Data	Table 3-4
AFR 400-46	Increase Reliability of Operational Systems (IROS) Program	Tables 3-16, 3-18
AFR 800-2	Program Management	Pg. 3-1, Tables 3-3, 3-10, 3-12

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AFR 800-4*	System/Equipment Turnover and Management Transition	Tables 3-13, 3-24, 3-30
AFR 800-6	Program Control - Financial	Table 3-3
AFR 800-8	Integrated Logistics Support (ILS) Program for Systems and Equipment	Pg. 2-5, Tables 3-4, 3-16, 3-18, 3-19
AFR 800-11	Life Cycle Costing (LCC)	Table 3-6
AFR 800-12	Acquisition of Support Equipment	Table 3-16
AFLCR 23-43	AMA Directorate of Materiel Management	Pg. 2-5, Table 3-4, App. A-1
AFLCR 66-10	Review of Programmed Depot Maintenance Programs	Pg. 2-5
AFLCR 66-17	Depot Maintenance Support Planning	App. A-4
AFLCR 80-6	Testing of Commercial Communications - Electronics Meteorological (CEM) Equipment	Table 3-22
AFLCR 80-XX	Test and Evaluation	Table 3-4
AFLCR 171-54	Specifications for Documentation of ADP Systems	Table 3-6
AFLCR 400-16	AFLC Increased Reliability of Operational Systems (IROS) Program	Tables 3-16, 3-18 3-20
AFLCR 523-1	Mission Assignment Policy	Pg. 2-7, Table 3-3, App. A-4
AFLCR/AFSCR 800-24	Standard Integrated Support Management System (SISMS)	Tables 3-3, 3-7, 3-14, 3-15, 3-17
AFSCR 70-6	R&D Source Selection Procedures	Table 3-9
AFSCR/AFLCR 80-16	Qualification of USAF Equipment	Table 3-22
AFSCR 800-1	Command Review of Systems Acquisition Programs and Test Resources	Table 3-13

*Being revised.

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	Directives	
AFLC PAD AQ 74-1	DCS for Acquisition Logistics, HQ AFLC	Table 3-3
	Instructions	
DODI 4100.35G	Integrated Logistics Support Planning Guide for DoD Systems and Equipments	Table 3-4
DODI 5000.2	Decision Coordinating Paper (DCP) and the Defense System Acquisition Review Council (DSARC)	Pg. 3-1
	Manuals	
AFM 36-23	Officer Career Management	Table 2-1
AFM 50-5	USAF Formal Schools Catalog	Table 2-1
AFM 67-1, Vol. 1	USAF Supply Manual	Pg. 2-5
AFLCM 65-3	AF Provisioning Policies and Procedures	Tables 3-4, 3-13
AFLCM 800-1	Program Management	Tables 3-4, 3 13
AFLCM/AFSCM 800-4	Optimum Repair Level Analysis (ORLA)	Tables 3-6, 3-13
AFSCM 65-2	AF Provisioning Policies and Procedures (AFLCM 65-3)	Table 3-13
	Pamphlets	
AFP 800-7	Integrated Logistics Support Implementation Guide for DoD Systems and Equipment	Pg. 3-25
AFLCP 800-3	Logistics Performance Factors in Integrated Logistics Support	Table 3-13
AFSCP 800-3	A Guide for Program Management	Pg. 2-5, Tables 3-4, 3-9, 3-13

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AFSCP 800-21	A Guide for Program Managers: Implementing Integrated Logistics Support	Tables 3-4, 3-13, 3-24
AFSCP 800-23	Secretary of the Air Force Program Review/Program Assessment Review/Command Assessment Review (SPR/PAR/CAR Guidance)	Table 3-13
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MIL-STD-470	Maintainability Program Requirements (For Systems and Equipments)	Tables 3-13, 3-21
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MIL-STD-1388	Logistics Support Analysis	Tables 3-6, 3-13, 3-14
MIL-STD-1513	Trade Studies for the Selection of Avionic Test Support Systems, Criteria for	Table 3-6
MIL-STD-1521	Technical Reviews and Audits for Systems, Equipment, and Computer Programs	Tables 3-16, 3-18
MIL-STD-1552	Provisioning Technical Documentation, Uniform DoD Requirements for	Table 3-22
MIL-STD-1561	Provisioning Procedures, Uniform DoD	Table 3-22
	Data Items	
DI-A-6102	Ground Support Equipment Plan (GSEP)	Tables 3-13, 3-16, 3-17
DI-L-3302	Logistics Plan for Preoperational Support	Tables 3-6, 3-17
DI-L-3304	Support Material List, Preoperational	Table 3-6
DI-L-6138	Integrated Support Plan	Table 3-7
DI-L-6143	Logistics Support Plan for Preoperational Support	Tables 3-6, 3-17

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DI-R-3535	Reliability and Maintainability Allocations, Assessments, and Analysis Report	Table 3-20
DI-R-3537A	Reliability, Maintainability Data Reporting and Feedback Failure Summary	Table 3-20
DI-R-3570	Aircraft Structural Integrity Program	Table 3-20
DI-S-3615	Calibration Requirements Summary	Table 3-16
DI-S-6176	Ground Support Equipment Recommendation Data (GSERD)	Tables 3-13, 3-16, 3-17
DI-S-6177	Calibration/Measurement Requirements Summary	Tables 3-13, 3-16, 3-17
DI-T-3701	System Test Plan	Table 3-21
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DoD ADL TD-3	Index of Data Item Descriptions	Table 3-7
AFAD 71-685	Aerospace Ground Equipment Identification/Selection/ Acquisition/Provisioning Document for USAF Contracts	Tables 3-13, 3-16
AFSC DH 1-0	AFSC Design Handbook Series	Table 3-5

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SECTION FIVE

ABBREVIATIONS AND ACRONYMS*

A

AA	Approving Authority
AABNCP	Advanced Airborne Command Post
AAC	Alaskan Air Command
AACB	Aeronautics and Astronautics Coordinating Board
AAFHU	Average Aircraft Flying Hour Utilization
AAFSS	Advanced Aerial Fire Support Systems
AAFWB	Army-Air Force Wage Board
A/AM	Air-to-Air Missile
AAP	Aircraft Actually Possessed
AASO	Assigned Activity Standardization Office
AAVS	Aerospace Audio-Visual Service
ABA	Annual Budget Authorization
ABF	Annular Blast Fragmentation
ABM	Antiballistic Missile
ACA	Accounts Control Area
ACC	Accounting Classification Code
ACD	Administrative Commitment Document
ACERP	Advanced Communications & Electronics Requirements Plan
ACI	Analytical Condition Inspection
ACIC	Aeronautical Charting & Information Center
ACL	Allowable Cargo Load
ACMS	Advanced Configuration Management System
ACN	Authorized Code Number
ACO	Administrative Contracting Officer
ACRP	Airborne Communications Reconnaissance Program
ACS	Alaskan Communications Service
"	Assistant Chief of Staff
ACSC	Air Command & Staff College
AC/SN	Advance Change/Study Notice
AD	Advanced Development
ADA	Air Defense Area
"	Airborne Data Automation
ADC	Aerospace Defense Command
ADCC	Air Defense Control Center
ADDS	Automatic Data Distribution System
ADE	Authorized Data Element
"	Approved Data Element
ADL	Authorized Data List
"	Automatic Data Link
ADMSC	Automatic Digital Message Switching Center
ADN	Accession Designation Numbers
ADO	Advanced Development Objective

*NOTE: Some terms shown in these listings may be unofficial or obsolete.

ADP	Automatic Data Processing
"	Advanced Development Proposal
ADPC	Automatic Data Processing Center
ADPE	Automatic Data Processing Equipment
ADPS	Automatic Data Processing System
ADS	Average Downtime Between Sorties
ADSMO	Air Defense Systems Management Office
ADSN	Accounting and Disbursing Station Number
ADTC	Air Force Development Test Center
ADTS	Automatic Depot Test Station
AE	Accrued Expenditure
A&E	Armament and Electronics
"	Appropriation and Expense
AEA	Actual Expenses Allowable
AEC	Atomic Energy Commission
AEDC	Arnold Engineering Development Center
AEE	Absolute Essential Equipment
AEF	Airborne Equipment Failure
AEP	Accrued Expenditure Paid
AERNO	Aeronautical (Aerospace) Equipment Reference Number
AESC	Automatic Electronic Switching Center
AEU	Accrued Expenditure Unpaid
AF	Air Force
A&F	Accounting and Finance
AFA	Air Force Academy
"	Air Force Association
AFAB	Air Force Audit Branch
AFAD	Air Force Acquisition Document
AFAFC	Air Force Accounting and Finance Center
AFAFFO	Air Force Aerospace Fuels Field Office
AFAI	Air Force Agent Installation
AFAL	Air Force Avionics Laboratory
AFAUD	Air Force Auditor General
AFB	Air Force Base
AFC	Air Force Council
AFCC	Air Force Communication Center
AFCCS	Air Force Command and Control System
AFCD	Air Force Cryptologic Depot
AFCEL	Air Force Contractor Experience List
AFCMD	Air Force Cargo Management Division
AFCP	Air Force Command Post
AFCRP	Air Force Cost Reduction Program
AFCS	Air Force Communications System
"	Air Force Communications Service
"	Automatic Flight Control System
AFD	Air Force Depot
AFDP	Army Force Development Plan
AFDSDC	Air Force Data Systems Design Center

AFEMS	Air Force Equipment Management System
AFER	Air Force Engineering Responsibility
AFETR	Air Force Eastern Test Range
AFFTC	Air Force Flight Test Center
AFHS	Average Flying Hours per Sortie
AFIF	Air Force Industrial Fund
AFIT	Air Force Institute of Technology
AFL	Air Force Letter
AFLC	Air Force Logistics Command
AFLCM	Air Force Logistics Command Manual
AFLCON	Air Force Logistics Communications Network
AFLCP	Air Force Logistics Command Pamphlet
AFLCR	Air Force Logistics Command Regulation
AFLMC	Air Force Logistics Management Center
AFM	Air Force Manual
AFMDC	Air Force Missile Development Center
AFML	Air Force Materials Laboratory
AFMTC	Air Force Missile Test Center
AFO	Accounting and Finance Office(r)
AFORA	Air Force Office of Research Analysis
AFP	Air Force Pamphlet
AFPC	Air Force Procurement Circular
AFPEA	Air Force Packaging Evaluation Agency
AFPI	Air Force Procurement Instruction
AFPR	Air Force Plant Representative
AFPRO	Air Force Plant Representative Office
AFR	Air Force Regulation
AFRAMS	Air Force Recoverable Assembly Management System
AFRCE	Air Force Regional Civil Engineer
AFRes	Air Force Reserve
AFS	Air Force Specialty
"	Air Force Station
AFSC	Air Force Systems Command
"	Air Force Specialty Code
AFSCF	Air Force Satellite Control Facility
AFSCM	Air Force Systems Command Manual
AFSCP	Air Force Systems Command Pamphlet
AFSCR	Air Force Systems Command Regulation
AFSD	Air Force Supply Directive
AFSF	Air Force Stock Fund
AFSIP	Air Force Standard Intelligence Publication
AFSTC	Air Force Space Test Center
AFSWC	Air Force Special Weapons Center
AFTAC	Air Force Technical Applications Center
AFTEC	Air Force Test and Evaluation Center
AFTO	Air Force Technical Order
AFWET	Air Force Weapons Effectiveness Testing
AFWL	Air Force Weapons Laboratory
AFWTR	Air Force Western Test Range
AG	Adjutant General
AGE	Aerospace Ground Equipment (obsolete term; see SE)
AGEACS	Aerospace Ground Equipment and Control System
AGEI	Aerospace Ground Equipment Illustration

AGEL	Aerospace Ground Equipment List
AGEOCP	Aerospace Ground Equipment Out of Commission for Parts
AGEP	Aerospace Ground Equipment Parts (obsolete term)
"	Aerospace Ground Equipment Plan (obsolete term)
AGERD	Aerospace Ground Equipment Recommendation Data (see SERD)
AGMA	American Gear Manufacturers Association Standards
AGMC	Aerospace Guidance and Metrology Center
AGREE	Advisory Group on Reliability of Electronic Equipment
AI	Airborne Intercept
AID	Agency for International Development
AIDS	Advanced Integrated Data Systems
"	Administrative Information Data System
AIG	Address Indicating Group
AILA	Airborne Instrument Landing and Approach
AIM	Air Launched Interceptor Missile
AIMD	Aircraft Intermediate Maintenance Department
AIMS	Air Traffic Control Systems, Identification Friend or Foe Mode Four System
AIP	Aeronautical Information Publication
AIR	Accelerated Item Reduction
AIRCOM	Aerospace Communications Complex
AIRCOMNET	Air Communications Network
AIS	Avionics Intermediate Shop
A&L	Acceptable Quality Level
ALC	Air Logistic Center
ALCC	Airborne Launch Control Center
"	Airlift Control Center
ALCOM	Alaskan Command
ALOS	Acquisition Logistics Operational Squadron
ALS	Advanced Logistics System
ALSC	Advanced Logistics Systems Center
ALT	Administrative Lead Time
AMA	Air Materiel Area (obsolete; see ALC)
AMB	Airways Modernization Board
AMC	Army Materiel Command
AMG	Acquisition Management Guide
AMHR	Portion of Total Assigned Man-Hours Available to Maintenance
AMI	Advanced Manned Interceptor
AMM	Antimissile Missile
AMMP	Approved Modernization and Maintenance Program
AMMR	Aircraft Maintenance Manpower Requirement
AMOS	Aerospace Maintenance and Operational Status
AMR	Atlantic Missile Range
AMSA	Advanced Manned Strategic Aircraft
AN	Army/Navy Standard
ANG	Air National Guard
ANORS	Anticipated Not Operationally Ready Supply
AOCP	Aircraft Out of Commission Parts

AO	Aviation Ordnance
AOCP	Aircraft Out of Commission Parts
APD	Air Procurement District
APDW	Advanced Procurement Data Support Worksheets
APGC	Air Proving Ground Center
APLO	Aerial Port Liaison Office(r)
APM/L	Assistant Project Manager/Logistics
APOD	Aerial Port of Debarkation
APOE	Aerial Port of Embarkation
APOG	Aerial Port Group
APP	Advanced Procurement Plan
"	Army Procurement Procedures
"	Auxiliary Power Plant
APRE	Air Procurement Region, Europe
APRFE	Air Procurement Region, Far East
APU	Auxiliary Power Unit
AR	All-up Round
ARADCOM	U.S. Army Air Defense Command
ARL	Aerospace Research Laboratories
ARLS	Automatic Resupply Logistic System
ARMMS	Automated Reliability and Maintainability Measurement System
ARS	Air Rescue Service
AS	Aeronautical Systems
ASA	American Standards Association
ASAAP	Average Sorties per Aircraft Actually Possessed
ASB	Air Staff Board
ASBCA	Armed Services Board of Contract Appeals
ASC	Authorization Source Code or Allowance Source Code
ASCP	Army Strategic Capabilities Plan
ASD	Aeronautical Systems Division
"	Assistant Secretary of Defense
"	Average Sortie per Day
ASD(I&L)	Assistant Secretary of Defense (Installations and Logistics)
ASI	Amended Shipping Instruction
"	Aerospace Studies Institute
ASIP	Aircraft Structural Integrity Program
ASM	Air-To-Surface Missile
ASO	Avionics Supply Officer
ASP	Army Strategic Plan
"	Avionics Status Panel
ASPPO	Armed Services Procurement Planning Office
ASPR	Armed Services Procurement Regulation
ASR	Airport Surveillance Radar
ASTM	American Society for Testing and Materials
ASW	Anti-Submarine Warfare
AS/C	Aeronautical Systems/Components
AS/E	Aeronautical Systems/Equipment
AS/QVPL	Approved Source/Quality Verified Products List

ATC	Air Training Command
ATCE	Automatic Test and Checkout Equipment
ATCOM	Atlantic Command
ATDS	Airborne Tactical Data System
ATE	Automatic Test Equipment
ATES	Automatic Test Equipment System
AU	Air University
AUR	All-Up Round
AUTODIN	Automatic Digital Network
AUTOSEVOCOM	Automatic Secure Voice Communications
AUTOVON	Automatic Voice Network
AVE	Aerospace Vehicle Equipment
"	Airborne Vehicle Equipment
AVSCOM	Army Aviation Systems Command
AWACS	Airborne Warning and Control System
AWCS	Air Weapons Control System
AWM	Awaiting Maintenance
AWP	Awaiting Parts
AWS	Air Weather Service

B

B/A (BA)	Budget Authorization
BAAN	Budget Authorization Account Number
BAB	Budget Advisory Board
BAC	Budget Advisory Committee
BADGE	Basic Air Defense Ground Environment
BAF	Base Accounting and Finance
BAFO	Base Accounting and Finance Office
BASE	Basic Army Strategic Estimate
BASO	Base Accountable Supply Officer
BBS	Bare Base Set
B/C	Budget Code
BCCO	Base Consolidation Control Office
BCE	Base Civil Engineer
BCP	BIT Control Panel
BDPI	Base Data Processing Installation
BDSA	Business and Defense Services Administration
BEAMS	Base Engineer Automated Management System
BEMAR	Backlog of Essential Maintenance Repair
BEMO	Base Equipment Management Office
BEPI	Budget Estimates Presentation Instruction
BF	Base Funded
BFSO	Base Fuel Supply Office
BII	Basic Issue Item
BIIL	Basic Issue Item List
BIL	Bulk Items List
BIT	Build-In Test
BITE	Built-In Test Equipment

BM	Ballistic Missile
BMD	Ballistic Missile Defense
BMEWS	Ballistic Missile Early Warning System
BNGS	Bombing Navigation Guidance System
B/O	Back Order
BOA	Basic Ordering Agreement
BOB	Bureau of Budget
BOD	Beneficial Occupancy Date
BOI	Basis of Issue
BOM	Bill of Materials
BOR	Back Order Release
BOS	Base Operating Support
BP	Base Procured
"	Budget Program
BPA	Blanket Purchase Agreement
BPAC	Budget Program Accounting Code
"	Budget Program Activity Code
BPO	Base Post Office
"	Base Procurement Office
BPSN	Budget Project Symbol Number
BRL	Ballistic Research Laboratory
BSD	Ballistic Systems Division
BSMO	Base Supply Management Office
BSO	Base Supply Officer
BUD	Budget
BUWEPS	Bureau of Weapons
BWG	Bomb Working Group
BWP	Basic War Plan
BY	Budget Year

C

CA	Circuit Analog
CAC	Continental Air Command
CAEL	Consolidated Aerospace Equipment List
CAFO	Command Accounting and Finance Office
CAGEL	Consolidated Aerospace Ground Equipment List
CAM	Commercial Air Movement
"	Consolidated Aircraft Maintenance
CAO	Central Accounting Office
"	Contract Administration Office
CAP	Contractor-Acquired Property
CAR	Command Assessment Review
CAS	Contract Administrative Services
CASE	Computer-Aided System Engineering

CBIL	Consumable Bulk Item List
CBW	Chemical-Biological Warfare
CC	Concept Chart
"	Cost Center
CCB	Configuration Control Board
CCC	Command and Control Center
"	Computer Communications Console
CCDMRB	Command Contractor Data Management Review Board
CCG	Commodity Coordination Group
CCMS	Commodity Configuration Management System
CCN	Contract Change Notice
CCP	Contract Change Proposal
CCPO	Central Civilian Personnel Office
CCR	Contract Change Release
CCS	Combined Chiefs of Staff
CCTV	Closed Circuit Television
CD	Civil Defense
"	Contract Definition
CD&CC	Central Data and Cataloguing Center
CDC	Career Development Course
CDCA	Central Data Collection Agency
CDCS	Central Data Collection System
CDL	Contract Deficiency Listing
CDMO	Command Data Management Office
CDP	Coded Description Patterns
CDR	Critical Design Review
CDRL	Contract Data Requirements List
C/E	Communications Electronic
CEI	Contract End Item
CEI/FAC	Contract End Item/Facility
CEIN	Contract End Item Number
CEIP	Communication Electronic Implementation Plan
CEIS	Cost and Economic Information System
C-E-M	Communications-Electronic-Meteorological
CEMO	Command Equipment Management Office
CER	Complete Engine Repair
"	Cost Estimating Relationship
CETS	Contract Engineering and Technical Services
CF	Conversion Factor
CFAE	Contractor Furnished Aerospace Equipment
	Contractor Furnished Aeronautical Equipment
CFE	Contractor Furnished Equipment
CFM	Contractor Furnished Material
CFP	Contractor Furnished Property
CFR	Code of Federal Regulations
CFS	Contractor Field Service
CFSR	Contract Funds Status Report
CFY	Current Fiscal Year

CG	Commanding General
CGS	CONUS Ground Station
CGSE	Common Ground Support Equipment
CGSEL	Consolidated Ground Support Equipment List
CI	Configuration Item
CIA	Central Intelligence Agency
CID	Communications Implementation Directive
CIDI	Configuration Item Design Instructions
CIE	Central Intelligence Estimate
CII	Configuration Identification Index
CINC	Commander in Chief
CINCAL	Commander in Chief Alaskan Command
CINCEUR	Commander in Chief Europe
CINCLANT	Commander in Chief Atlantic Command
CINCPAC	Commander in Chief Pacific Command
CINCSAC	Commander in Chief Strategic Air Command
CINCSOUTH	Commander in Chief Southern Command
CIO	Common Item Order
CIP	Component Improvement Program
CIR	Cost Information Report
CIS	Cost Information Schedule
CITS	Central Integrated Test Subsystem
CLEAR	Closed Loop Engineering Analysis Reporting
CLID	Calendar Life Identifier
CLSA	Cooperative Logistic Support Arrangement
CM	Case Monitoring
"	Case Monitor
CMD	Contract Management District
CMDN	Catalog Management Data Notification
C/MH	Cost per Man-Hour
CMO	Contract Management Office
CMR	Contract Management Region
CMRS	Calibration/Measurement Requirements Summary
CNO	Chief Naval Operations
CNM	Chief of Naval Material
CODN	Component Operational Data Notice
COMSEC	Communication Security - Crypto
CONUS	Continental United States
CP	Command Post
CPIF	Cost Plus Incentive Fee
CPIP	Computer Program Implementation Plan
CPR	Cost Performance Report
CPS	Contractor Plant Services
CR	Cost Reimbursement
CRA	Continuing Resolution Authority
CRISL	Contract Repair Initial Support List
CRS	Calibration Requirements Summary
CRT	Cathode Ray Tube

C/S	Chief of Staff
CSA	Chief of Staff - Army
CSAF	Chief of Staff - Air Force
CSC	Civil Service Commission
C/SCS	Cost/Schedule Control System
CSEL	Consolidated Support Equipment List
CSIS	Central Secondary Item Stratification
CSN	Control Symbol Number
CSP	Concurrent Spare Parts
CSS	Contract Storage Site
"	Coded Switch System
CTA	Cognizant Transportation Agency
CTCI	Contractor Technical Compliance Inspection
CTO	Cognizant Transportation Office
CTSP	Contractor Technical Services Program
CVA	Aircraft Carrier
CWC	Competition With Confidence
CWS	Consolidated Work Sheet
CY	Calendar Year

D

DA	Department of the Army
"	Data Analysis
DAC	Data Analysis Console
DACS	Data Acquisition and Communication Segment
DADO	Data Automation Design Office
D&F	Determination and Finding
DAF	Department of the Air Force
DAGERL	Development Aerospace Ground Equipment Requirements List
DAP	Data Automation Proposal
DAS	Director of Administrative Services
"	Direct Air Support
DASA	Defense Atomic Support Agency
DASO	Demonstration and Shakedown Operations
DA/TS	Data Accumulation/Transmittal Sheet
DAW	Data Accumulation Worksheet
DBD	Detailed Budget Decision
DC	Data Control
"	Delay Code
DCA	Defense Communications Agency
DCAA	Defense Contract Audit Agency
DCAS	Defense Contract Administration Services

DCASO	Defense Contract Administration Services Office
DCASR	Defense Contract Administration Services Region
DCF	Degradation Conversion Factor
DCI	Drawing Class Indicator
DCMSR	Defense Contract Management Service Region
DCN	Design Change Notice
DCNM	Deputy Chief of Naval Materiel
DCP	Decision Coordinating Paper (formerly Development Concept Paper)
DCPR	Defense Contractor Planning Report
DCS	Deputy Chief of Staff
"	Defense Communications System
DCSC	Defense Construction Supply Center
DC&TSC	Defense Clothing & Textile Supply Center
DD	Development Directive
DDC	Defense Documentation Center
"	Data Distribution Center
DDR&E	Director of Defense Research and Engineering
"	Design, Development, Review and Evaluation
DE	Damage Expectancy
DEI	Design Engineering Inspection
DEOI	Deputy for Engineering Operating Instruction
DEP	Deputy
"	Depot
DESC	Defense Electronic Supply Center
DEW	Distant Early Warning
DFAED	Dated Forecast Authorization Inventory Date
DGSC	Defense General Supply Center
DGSE	Developmental Ground Support Equipment
DI	Data Item
"	Document Identifier
DIA	Due in Assets
"	Defense Intelligence Agency
DIAC	Defense Industry Advisory Council
DIC	Document Identifier Code
DID	Data Item Description/Definition
DIDS	Defense Integrated Data System
DIFM	Due In From Maintenance
DIMES	Defense Integrated Management Engineering System
DIN	Data Identification Number
DIPEC	Defense Industrial Plant Equipment Center (Memphis, Tenn.)
DIR	Disassembly Inspection Report
DISC	Defense Industrial Supply Center
DLM	Depot Level Maintenance
DLSC	Defense Logistics Services Center
"	Defense Logistics Supply Center

D/M	Directorate of Maintenance
DM	Data Manager
DMI	Descriptive Method Identification
DMIF	Depot Level Maintenance Industrial Fund
DMISA	Depot Maintenance Interservice Support Agreement
D/MM	Directorate of Materiel Management
DMO	Data Management Office(r)
DMSC	Defense Medical Supply Center
DMSP	Depot Maintenance Support Plan
DN	Department of the Navy
DO	Defense Order
"	Disbursing Officer
DOD	Department of Defense
DODADL(TD-3)	Department of Defense Authorized Data List
DODD	Department of Defense Directive
DODI	Department of Defense Instruction
DODTRA	Department of Defense Technical Review Agency
DOR	Date of Request
DOT	Department of Transportation
"	Department of the Treasury
DOTM	Due Out To Maintenance
DP	Development Plan
DPC	Defense Procurement Circular
DPCO	Disposition Program Control Officer
DPCR	Defense Procurement Contract Region
DPD	Data Project Directive
DPE	Data Processing Equipment
DPI	Data Processing Installation
DPM	Draft Presidential Memoranda
"	Development Program Manual
"	Development Program Maintenance
DPMH	Direct Productive Man-Hours
DPML	Deputy Program Manager for Logistics
D/P&P	Directorate of Procurement and Production
DPS	Defense Printing Service
DPSC	Defense Petroleum Supply Center
DR	Deficiency Report
DRC	Data Reduction Center
DRED	Deferred Requisitioning of Engineering Drawings
DRP	Designated Rework Point
DRRB	Data Requirements Review Board
DS	Direct Support
"	Downtime Between Sorties
DSA	Defense Supply Agency
DSAP	Data Systems Automation Program
DSARC	Defense System Acquisition Review Council
DSBCO	Defense Suplus Bidders Control Officer
DSC	Defense Supply Center
DSD	Data Systems Designator

DS&DH	Data Switching and Data Handling
DSF	Delivery Status Factor
DS/GS	Direct Support/General Support
DSMG	Designated Systems Management Group
DSP	Defense Standardization Program
"	Defense Support Program
DS-RPIE	Direct Support - Real Property Installed Equipment
DSSO	Defense Surplus Sales Office
DSSP	Depot Support Supply Plan
D/S&T	Directorate of Supply and Transportation
DTC	Downtime Code
"	Design To Cost
DT&E	Development Test and Evaluation
DTMS	Defense Traffic Management Service
DTRA	Defense Technical Review Activity
DTVE	Digital Television Element
DX	Defense Expedite

E

EAA	Equipment Approval Authority
EAD	Equipment Allowance Document
EAG	Engine Advisory Group
EAID	Equipment Authorization Inventory Data
EAIDL	Equipment Authorization Inventory Data Listing
EAIM	End Article Item Manager
EAM	Electrical Accounting Machine
ECCM	Electronic Counter Countermeasures
ECD	Engineering Change Document
ECI	Extension Course Institute
ECL	Equipment Component List
ECM	Electronic Counter Measures
ECMP	Electronic Counter Measures Program
ECMS	Engine Configuration Management System
ECN	Engineering Change Notice
ECP	Engineering Change Proposal
ECS	Environmental Control System
"	Exceeding Counter Set
EDAC	Equipment Distribution and Condition
EDB	Equipment Data Bank
EDP	Electronic Data Processing
EDPE	Electronic Data Processing Equipment
EDPS	Electronic Data Processing System
EDSC	Engineering Data Service Center
EDTCC	Electronic Data Transmission Control Center
EFTO	Encrypt for Transmission Only

EI	End Item
EIM	Engine Inventory Manager
EIMS	End Item Maintenance Sheet
EIS	End Item Specification
"	Economic Information System
EM	Engineering Manual
EMBR	Equipment Management Balance Register
EMIC	Electromagnetic Interference and Capability
EMO	Equipment Management Office
EMR	Executive Management Responsibility
EOB	Expense Operating Budget
EOC	Early Operational Capability
EOCP	Engine Out of Commission for Parts
EOQ	End of Quarter
"	Economic Order Quantity
EOSP	Economic Order and Stockage Policy
EP	Engineering Proposal
EPOE	End Piece of Equipment
EPP	Engineering Program Proposal
EQUAP	Engineering Qualification Approval Program
ER	Effectiveness Report
ERAA	Equipment Review and Authorization Activity
ERRC	Expendability, Recoverability, Reparability Code
ERT	Equipment Repair Time
ESD	Electronic Systems Division
ESM	Electronic Warfare Support Measures
ESR	Equipment Status Report
ETA	Exception Repair Time
"	Estimated Time of Arrival
ETP	Engineering Transfer Package
ETR	Estimated Time of Return
"	Eastern Test Range
ETS	Engineering and Technical Services
EUCOM	European Command
EUR	Emergency Unsatisfactory Report
EW	Electronic Warfare
EWO	Emergency Wartime Operation
EWP	Emergency War Plan

F

FAA	Federal Aviation Administration
FAC	Financial Account Code
FACI	First Article Configuration Inspection
F/AD	Force/Activity Designator
FARADP	Failure Rate Data Program

FC	Functional Code
"	Flight Control
FCC	Federal Communications Commission
FCF	Functional Check Flight
FCM	Federal Class Manager
"	Federal Class Management
FCR	Facility Capability Review
FCS	Fire Control System
F&D	Findings and Determination
FDIC	Flying Days Per Inspection Cycle
FDT	First Destination Transportation
FED 5	Descriptive Identification Data By The Contractor for Cataloging Use
FFP	Firm Fixed Price
F&FP	Force & Financial Program
FHIC	Flying Hours Per Inspection Cycle
FHPF	Flying Hours Per Failure
FIA	Financial Inventory Accounting
FII	Federal Item Identification
FIIG	Federal Item Identification Guide
FIIN	Federal Item Identification Number
FIRM	Financial Information for Resource Management
FM	Field Maintenance
FMA	Field Maintenance Activity
FMAL	Funds Management Audit List
FMEA	Failure Mode and Effects Analysis
FMIC	Funds Management Identification Code
FML	Field Maintenance Location
FMR	Funds Management Record
FMRI	Field Maintenance Removal Interval
FMS	Foreign Military Sales
FMSAEG	Fleet Missile Systems Analysis and Evaluation Group
FOB	Free on Board
"	Forward Operating Base
FOC	Full Operational Capability
FOD	Foreign Object Damage
FOOT	Follow-On Operational Test
FORTRAN	Formula Translator
FOS	Follow-On Spares
FPC	Financial Program Committee
FPE	Fixed Price with Escalation
FPF	Fixed Price Firm
FPI	Fixed Price Incentive
FPIF	Fixed Price Incentive Fee
FPIS	Fixed Price Incentive Successive Targets

FPR	Field Performance Review
"	Fixed Price Redeterminable
FRAMP	Fleet Readiness Aviation Maintenance Personnel
FRC	Federal Records Center
"	Flight Research Center
FRT	Flight Readiness Test
F/S	Flight Safety
FSC	Federal Supply Class
"	Force Structure Committee
"	Federal Supply Code
FSCG	Federal Supply Classification Group
FSCM	Federal Supply Code for Manufacturers
FSD	Full-Scale Development
FSE	Field Support Equipment
FSEE	Federal Service Entrance Examination
FS&FP	Force Structure and Financial Plan
FSG	Federal Supply Group
FSI	Federal Stock Item
FSMC	Federal Supply Manufacturer's Code
FSN	Federal Stock Number
FSR	Field Service Representative
FSS	Federal Supply Schedule
FTC	Flight Test Center
FTCC	Flight Test Coordinating Committee
FT/FH	Flight Time/Flight Hour
FTD	Field Training Detachment
FUB	Facility Utilization Board
FUP	Facility Utilization Plan
FY	Fiscal Year
FYDP	Five-Year Defense Plan

G

GAO	General Accounting Office
GAPL	Group Assembly Parts List
"	Group Assembly Provisioning List
GAT	Greenwich Apparent Time
GBL	Government Bill of Lading
GC	Generic Code
GCA	Ground Controlled Approach
GCC	Ground Control Center

GCN	Ground Communication Network
GCS	Guidance and Control Section
GCU	Guidance and Control Unit
GDM	Generalized Development Models
GDS	Ground Data System
GED	General Educational Development
GEEIA	Ground Electronic Engineering Installation Agency
GEF	Ground Equipment Failure
GFAE	Government Furnished Aerospace Equipment
"	Government Furnished Aeronautical Equipment
"	Government Furnished Airborne Equipment
GFE	Government Furnished Equipment
GFM	Government Furnished Material
GFP	Government Furnished Property
GIDEP	Government-Industry Data Exchange Program
GLOBECOM	Global Communications Systems
GM	Guided Missile
GMRMR	General Mobilization Reserve Material Requirement
GMSR	Guided Missile Service Record
GO	General Order
GOCO	Government-Owned, Contractor-Operated
GOR	General Operational Requirement
GP	General Purpose
GPS	Global Positioning System
GS	General Support
GSA	General Services Administration (Agency)
GSD	Government Support Data
GSE	Ground Support Equipment
GSEEI	Ground Support Equipment End Item
GSEI	Ground Support Equipment Illustration
GSEL	Ground Support Equipment List
GSEP	Ground Support Equipment Plan
GSERD	Ground Support Equipment Recommendation Data
GSSF	General Supply Stock Fund
GTCU	Gas Turbine Compressor Unit
GTE	Gas Turbine Engine
GTU	Gas Turbine Unit
GW	Guerrilla Warfare

H

HADC	Holloman Air Development Center
H&D	Hardened and Dispersed
HAF	Headquarters Air Force
HF	Hours Flown
HFDF	High Frequency Direction Finder
HHG	Household Goods
HIAD	Handbook of Instructions for Aircraft Design
HLS	Heavy Logistics System
H&MS	Headquarters and Maintenance Squadron
HOI	Headquarters Office Instruction
HQ	Headquarters
HRD	High Rate Discharge
HRP	Human Reliability Program
"	Holding and Reconsignment Point
HUD	Head Up Display

I

IA	Implementing Agency
"	Issuing Agency
IAC	Integration, Assembly and Checkout
"	Intermediate Air Command
"	Integrating Associate Contractor
IAD	Inventory Adjustment Document
IAV	Inventory Adjustment Voucher
IC	Interim Change
I&C	Installation and Checkout
ICBM	Intercontinental Ballistic Missile
ICC	Interstate Commerce Commission
ICD	Interface Control Drawing
ICE	Increased Combat Effectiveness
ICIS	Interdepartmental Committee on Internal Security
ICN	Interim Change Notice
ICO	Inventory Control Officer
ICP	Inventory Control Point
ICS	Interim Contractor Support
IDC	Intransit Data Card
IDMTG	Interservice Depot Maintenance Task Group

IDP	Integrated Data Processing
IDPM	Initial Draft Presidential Memorandum
IEC	Item Entry Control
IF	Industrial Fund
IFB	Invitation for Bid
IFM	Industrial Facility Management
I/F	Intermediate (Navy-Marine)/Field (Air Force)
IG	Inspector General
IGS	Inertial Guidance System
I/I	Inventory and Inspection Report
IIN	Item Identification Number
IL	Identification List
ILDF	Integrated Logistics Data File
ILS	Integrated Logistics Support
ILSD	Integrated Logistics Support Detachment
ILSDF	Integrated Logistics Support Data File
ILSMP	Integrated Logistics Support Management Plan
ILSMT	Integrated Logistics Support Management Team
ILSO	Integrated Logistics Support Office
ILSP	Integrated Logistics Support Program
"	Integrated Logistics Support Plan
ILS/IS	Integrated Logistics Support/Information System
IM	Interceptor Missile
"	Item Management (Manager)
"	Inventory Manager (AFLC)
IMC	Item Management Coding
IMEO	Interim Maintenance Engineering Order
IMP	Improved Maintenance Program
IMPACT	Integrated Managerial Programming Analysis and Control Technique
IMR	Inventory Management Record
IMRL	Individual Material Readiness List
IMSC&D	Inventory Manager Stock Control and Distribution
IMTP	Industrial Mobilization Training Program
INMU	Inertial Navigation Measuring Unit
INS	Inertial Navigation System
INT/FH	Interval Per Flight Hour
IOC	Initial Operating Capability
IOH	Item On Hand
IOSD	Initial Operational Support Date
IOT&E	Initial Operational Test and Evaluation
IPA	Industrial Property Account
IPAD	Incoming Procurement Authorization Document
IPB	Illustrated Parts Breakdown
IPD	Initial Priority Designator
"	Issue Priority Designator
IPE	Industrial Plant Equipment

IPPL	Identured Parts Price List
IPR	Industrial Production Readiness
"	In-Process Reviews
IR	Infrared
IRAN	Inspect, Repair As Necessary
IRBM	Intermediate-Range Ballistic Missile
IRG	Interdepartmental Regional Group
IROS	Increased Reliability of Operational Systems
IRRP/IWHS	Improving Rearming Rates Program/Improved Weapons Handling System
IRSS	Infrared Surveillance Set
I&S	Interchangeability and Substitution
ISMIS	Interservice Maintenance Interrogation System
ISOM	Interface Sign-Off Form
ISP	Integrated Support Plan
ISRWL	Interchangeability, Substitutability and Replaceability Working List
ISS	Interservice Supply Support
ISSC	Interservice Supply Support Coordinator
ISSL	Initial Spares Support List
ISSP	Initial Substitute Spare Parts
"	Interservice Supply Support Program
IST	Initial Support Team
ITIES	Interservice Technical Information Exchange System
ITO	Interim Technical Order
ITP	Implementation Test Plan
IWSM	Integrated Weapon Support Management

J

JA	Judge Advocate
JADB	Joint Air Defense Board
JADE	Junior Administrative Development Examination
JAG	Judge Advocate General
JAN	Joint Army Navy Standard
JANAF	Joint Army-Navy-Air Force
JATO	Jet Assisted Take Off
JATS	Joint Air Transportation Service
JCC	Joint Configuration Conference
JCN	Job Control Number
JCP	Joint Committee on Printing
JCS	Joint Chiefs of Staff
JEFM	Jet Engine Field Maintenance
JETDS	Joint Electronics Type Designator System
JIEP	Joint Intelligence Estimate for Planning

JLPC	Joint Logistics Plans Committee
JLPG	Joint Logistics Planning Group
JLPPG	Joint Logistics and Personnel Policy Guidance
JLRSS	Joint Long-Range Strategic Study
JMEM	Joint Munitions Effectiveness Manual
JMRO	Joint Military Regulating Office
JOA	Joint Operating Agreement
JOP	Joint Operating Procedures
JOR	Joint Operations Requirements
JPO	Joint Program Office
JPR	Joint Procurement Regulation
JPSG	Joint Planning and Scheduling Group
JRDOD	Joint Research and Development Objectives Document
JSCP	Joint Strategic Capability Plan
JSI	Joint Support Item
JSL	Joint Support List
JSOP	Joint Strategic Objectives Plan
JSTPS	Joint Strategic Target Planning Staff
JTR	Joint Travel Regulations
JTS	Job Training Standards
JU	Joint Utilization
JWG	Joint Working Group

K

KLD	Kit Letter Designator
"	Kits Per Letter Designator
KOM	Kind of Match

L

LABS	Low Altitude Bombing Systems
LAMS	Load Alleviation and Mode Stabilization
LANTFLT	U.S. Atlantic Fleet
LAPES	Low Altitude Parachute Extraction System
LASER	Light Amplification by Stimulated Emission of Radiation
LATO	List of Applicable Technical Orders

LCC	Launch Control Center
"	Life Cycle Cost
LCCM	Life Cycle Cost Model
LCEB	Launch Control Equipment Building
LCF	Launch Control Facility
LCG	Logistic Control Group
LCL	Less than Carload Lot
LCO	Launch Control Office(r)
LCR	Logistic Change Report
LDP	Logistic Data Package
LEU	Launch Enable Unit
LF	Locally Funded
LGC	Logistics Guidance Conference
LHR	Life History Recorder
LIIG	Logistics Item Identification Guide
LLIL	Long Lead Time Items List
LLLTV	Low Level Light Television
LM	Local Manufacture
"	Logistics Manager (see DPML)
LOAP	List of Applicable Publications
LOB	Line of Balance
LOC	Launch Operations Center
"	Line of Communication
"	Limited Operational Capability
LOG	Logistics
LOGAIR	AFLC Contract System for Movement of Cargo by Air in the CONUS
LOM	List of Modifications
LOP	Local Operating Procedures
"	Letter of Proposal
LOR	Level of Repair
LORA	Level of Repair Analysis
LOX	Liquid Oxygen
LP	Local Purchase
LPMES	Logistics Performance Measurement and Evaluation System
LPMS	Logistics Program Management System
LPO	Local Purchase Order
LPPS	Logistics Plan Pre-Operational Support
LPR	Late Procurement Request
LRC	Logistic Readiness Center
LRU	Line Replaceable Unit

LSA	Logistics Support Analysis
LSAT	Logistics Shelter, Air Transportable
LSC	Logistics Support Cadre
"	Logistics Support Cost
LSM	Logistic Support Management
LSMI	Logistic Support Management Information
LSP	Logistics Support Plan
LSPPS	Logistics Support Plan for Preoperational Support
LSPS	Logistics Support Plan Summary
LSWD	Large Screen Wall Display
LT	Lead Time
LTF	Lead The Force
LTL/LCL	Less Than Truckload/Less Than Carload

M

M	Maintainability
MA	Maintainability Analysis
MAAB	Maintenance Air Abort
MAABR	Maintenance Air Abort Rate
MAAG	Military Assistance Advisory Group
MAASL	Military Assistance Articles and Services List
MAC	Management Aggregate Code
"	Military Airlift Command
"	Major Air Command
MA/FH	Maintenance Action per Flight Hour
MAG	Marine Air Group
MA/INT	Maintenance Action Interval
MAM	Military Assistance Manual
"	Medium Automatic Maintenance
MAMS	Missile Assembly and Maintenance Shops
MAOT	Maximum Allowable Operating Time
MAP	Military Assistance Program
MAS	Military Agency for Standardization
"	Military Assistance Sales
MASL	Military Assistance Articles and Services List
MAST	Missile Automatic Supply Technique
MATF	Missile Assembly and Test Facility
MAV	Manpower Authorization Voucher
MAWTU	Marine Air Weapons Training Unit
MBLS	Mechanized Bidders List System
MC	Maintenance Control
"	Management Code
MCAS	Marine Corps Air Station
MCC	Maintenance Control Center
"	Missile Control Center

MCN	Master Control Number
MCP	Military Construction Program
MCR	Master Change Record
MCSL	Management Control System List
MDA	Maintenance Depot Activity
MDC	Maintenance Data Collection
"	Multiple Delay Code
MDCS	Maintenance Data Collection System
MDM	Mobile Depot Maintenance
MDN	Manufacturer's Drawing Number
MDS	Mission Design and Series
ME	Mobility Equipment
MEA	Maintenance Engineering Analysis
MEACN	Maintenance Engineering Analysis Control Number
MEAD	Maintenance Engineering Analysis Data
MEAP	Maintenance Engineering Analysis Process (or Program)
MEAR	Maintenance Engineering Analysis Record
MEC	Military Essentiality Code
MEDAL	Micromechanized Electronic Data for Automatic Logistics
MEL	Master Equipment Lise
MEMI	Master Equipment Management Index
MEMS	Maintenance Engineering Management System
MEO	Maintenance Engineering Order
MEP	Management Engineering Program
"	Maintenance Engineering Program
MET	Management Engineering Team
MFOI	Major Force Oriented Issue
MGAB	Maintenance Ground Abort
MGABR	Maintenance Ground Abort Rate
MGE	Maintenance Ground Equipment
MGFEL	Master Government Furnished Equipment List
MGSE	Maintenance Ground Support Equipment
MGSS	Missile Guidance Set Sections
MHE	Materials Handling Equipment
MHFH	Man-Hours Per Flying Hour
"	Man-Hours Per Flight Hour
MHR	Missile Hazard Report
MHS	Man-Hours Per Sortie
MIC	Maintenance Inventory Control
"	Match Indicator Code
MIICS	Master Item Identification Control System
MILCON	Military Construction

MILDIP	Military Industry Logistic Data Interchange Procedures
MILHDBK	Military Handbook
MILSCAP	Military Standard Contract Administration Procedure
MILSPEC	Military Specification
MILSTAAD	Military Standard Activity Address Directory
MILSTAMP	Military Standard Transportation & Movement Procedures
MILSTD	Military Standard
MILSTEP	Military Logistics Standard Evaluation Procedures
MILSTICCS	Military Standard Item Characteristics Coding Structure
MILSTRAP	Military Standard Transaction Reporting & Accounting Procedures
MILSTRIP	Military Standard Requisitioning and Issuing Procedure
MIP	Materiel Improvement Program/Project
MIPN	Maintenance Item Part Number
MIPR	Military Interdepartmental Purchase Request
MIS	Management Information System
MISO	Maintenance Interservice Support Office
MISPG	Maintenance Interservice Support Planning Group
MISTR	Management of Items Subject to Repair
ML	Management List
MLA	Maintenance Level Analysis
MLC	Management Level Chart
MLE	Measured Logistics Effect
MLF	Maintenance Level Function
MLIP	Methods and Layout Improvement Program
MMA	Materiel Management Aggregation
MMAC	Materiel Management Aggregation Code
MMAG	Materiel Management Aggregation Group
MMAT	Materiel Management Aggregation Technique
MMC	Materiel Management Code
MME	Maximum Maintenance Effort
MMH	Maintenance Man-Hours
MMHS	Mechanized Materiel Handling System
MMICS	Maintenance Management Information and Control System
MMMU	Mobile Missile Maintenance Unit
MMR	Maintenance Manager Review
MMS	Munition Maintenance Squadron
MMSR	Master Materiel Support Record
MO	Movement Orders
"	Machine Operation
M&O	Maintenance and Overhaul
MOA	Memorandum of Agreement
MOB	Main Operating Base
MOCP	Missile Out of Commission for Parts
MOS	Military Occupational Specialty
MOSS	Mobility Support Set

MPAR	Maintainability Problem Area Report
MPC	Materiel Program Code
"	Military Payment Certificate
MPCAG	Military Parts Control Advisory Group
MPD	Modification Program Directive
MPP	Materiel Performance Package
"	Maintainability Program Plan
MPTO	Methods and Procedures Technical Order
MR	Modification Requirement
M&R	Maintainability and Reliability
"	Maintenance and Repair
MRB	Materiel Review Board
"	Modification Review Board
MRL	Materiel Requirements List
MRO	Materiel Release Order
MRQ	Maximum Release Quantity
MRRB	Maintenance Requirement Review Board
MRRL	MAP Repair Requirements List
MRS	Master Repair Schedule
MS	Military Standard
"	Military Service
"	Military Specification
M&S	Maintenance and Supply
MSB	Main Support Base
MSDP	Maintenance Standard Data Program
MSI	Military Standard Item
"	Military Service Indicator
M&SFM	Maintenance & Supply Facility Management
MSL	Maintenance Supply Liaison
MSMS	Mutual Security Military Sales
MSP	Materiel Support Plan
MSTG	Materiel Safety Task Group
MSTS	Military Sea Transport Service
MTBCA	Mean Time Between Corrective Actions
MTBD	Mean Time Between Demand
MTBF	Mean Time Between Failures
MTBM	Mean Time Between Maintenance
MTBMA	Mean Time Between Maintenance Actions
MTBR	Mean Time Between Repairs
MTC	Missile Test Center
MTM	Method Time Measurement
MTMTS	Military Traffic Management and Terminal Services

MTS	Maintenance Trainer Set
"	Mobile Training Set
MTT	Mobile Training Team
MTTR	Mean Time To Repair
MTU	Mobile Training Unit
MUCO	Materiel Utilization Control Office
MYP	Multi-Year Procurement

N

NAD	Naval Ammunition Depot
NAF	Non-Appropriated Fund(s)
"	Numbered Air Force
"	Naval Aircraft Factory Standard
NAILSC	Naval Air Integrated Logistic Support Command
NAMTD	Naval Air Maintenance Training Detachment
NARF	Naval Air Rework Facility
NAS	National Aircraft Standard
"	Naval Air Station
NASA	National Aeronautics and Space Administration
NASC	National Aeronautics and Space Council
NATO	North Atlantic Treaty Organization
NATSF	Naval Air Technical Services Facility
NAVAIR	Naval Air Systems Command
NAVAO	Southern Navy Command, U.S. Navy
NAVMISCEN	Naval Missile Center
NAVSCOLEOD	Naval School of Explosive Ordnance Disposal
NAVSUP	Naval Supply Systems Command
NBS	National Bureau of Standards
NBP	National Buying Program
NC	Noncataloged
"	Non-Catalog Number
NCA	National Command Authorities
N/C	Numerical Control
NCDR	Non-Current Downtime Rate
NCIS	Navy Cost Information System
NCMC	NORAD Cheyenne Mountain Complex
NCS	National Communications System
NDI	Nondestructive Inspection
NEACP	National Emergency Airborne Command Post
NEC	Navy Enlisted Codes
NGB	National Guard Bureau
NHA	Next Higher Assembly
NHPA	Assembly Item to the Next Higher Procured Assembly Recoverable
NI&RT	Numerical Index and Requirement Table
NLA	Next Lower Assembly

NMC	Naval Materiel Command
"	Naval Missile Center
NMCC	National Military Command Center
NMCS	National Military Command System
NMFC	National Motor Freight Classification
NOA	New Obligating Authority
NOC	Not Otherwise Coded
NOCM	Nuclear Ordnance Commodity Management
NOIBN	Not Otherwise Identified by Name
NOO	Notice of Obligation
NOR	Not Operationally Ready
"	Notice of Revision
NORAD	North American Air Defense Command
NORM	Not Operationally Ready, Maintenance
NORS	Not Operationally Ready, Supply
NOS	Naval Ordnance Station
NPD	Navy Procurement Directive
NRFI	Not Ready for Issue
NRTS	Not Reparable This Station
NSA	National Security Agency
NSC	National Security Council
NSCID	National Security Council Intelligence Directive
NSIA	National Security Industrial Association
NSL	Non Stock Listed
NSRP	Non-Technical Support Real Property
NSTL	National Strategic Target List
NTE	Naval Technical Evaluation
NWC	National War College
"	Naval Weapons Center
NWS	Naval Weapons Station

O

OA	Obligation Authority
"	Ordering Activity
OAC	Operating Agency Code
OAR	Office of Aerospace Research
OASD	Office of the Assistant Secretary of Defense
OB	Operating Budget
OBAN	Operating Budget Account Number
OCCB	Operational Configuration Control Board
OCD	Office of Civil Defense
OCL	Operational Control Level
OCP	Out of Commission - Parts
OCR	Office of Collateral Responsibility

ODDR&E	Office of the Director of Defense Research & Engineering
ODMA	Office of the Director of Military Assistance
OE	Operational Evaluation
OEA	Office of Economic Adjustment
OEO	Office of Economic Opportunity
OEP	Office of Emergency Planning
OERP	Overseas Expenditure Reduction Program
OET	Office of Emergency Transportation
OFEAD	Organization Forecast Equipment Authorization Data
OFM	Organization Field Maintenance
OGE	Operational Ground Equipment
OGS	Overseas Ground Station
OGSE	Operational Ground Support Equipment
OHR	Operational Hazard Report
OHRI	Overhaul Removal Interval
OI	Office Instruction
"	Operating Instruction
OIC	Officer in Charge
OIM	Organizational Intermediate Maintenance
OJCS	Office of the Joint Chiefs of Staff
OJT	On-The-Job Training
OLC	Operation Level Chart
OLSP	Operational Logistics Support Plan
O/M	Organizational Maintenance
O&M	Operating (Operations) & Maintenance
ONM	Office of Naval Materiel
ONR	Office of Naval Research
OPDR	Office of Primary Development Responsibility
OPEVAL	Operational Evaluation
OPI	Office of Primary Interest
OPR	Office of Prime Responsibility
"	Office of Primary Responsibility
OPT	Operational Time
OPTEVFOR	Operation, Test and Evaluation Force
OR	Operationally Ready
ORA	Office of Research Analysis
ORI	Operational Readiness Inspection
ORIT	Operational Readiness Inspection Test
ORLA	Optimum Repair Level Analysis
ORT	Operational Readiness Training

O&S	Operation and Support
OSA	Office of the Secretary of the Army
OSAF	Office of the Secretary of the Air Force
OSD	Operational Support Directive
"	Office of Secretary of Defense
OSI	Office of Special Investigations
OSP	Offshore Procurement
OSR	Office of Scientific Research
"	Operational Support Requirement
OSS	Operational Storage Site
"	Office of Statistical Standards
OST	Order and Shipping Time
O&ST	Order and Shipping Time
OT	Operational Test Launch
O/T	One-Time or Organizational Table
OTC	Operational Training Capability
OT&E	Operational Test and Evaluation
OTEP	Operational Test and Evaluation Plan
OTMEO	One-Time Maintenance Engineering Order

P

PA	Aerospace Vehicles and Flying Hours Program,
"	Program Authorization
"	Procurement Authorization
PAA	Projected Aircraft Available
PACE	Performance and Cost Evaluation
PACAF	Pacific Air Forces
PACFLT	U.S. Pacific Fleet
PACOM	Pacific Command
PAD	Program Action Directive
PAGEL	Priced Aerospace Ground Equipment List
PAR	Precision Approach Radar
"	Program Assessment Reports
"	Program Assessment Review
PAS	Pre-Award Survey
"	Professor of Aerospace Science
PB	Publications Bulletin
PBS	Program Breakdown Structure
P&C	Procurement and Contracting
PC	Program Communications
PCA	Physical Configuration Audit
PCAM	Punched Card Accounting Machines
PCC	Provisioning Control Code
PCD	Program Change Decision
PCE	Program Cost Estimate
"	Punch Card Equipment
PC&H	Packing, Crating and Handling

PCN	Procurement Control Number
"	Product Control Number
"	Program Control Number
PCO	Procuring Contracting Officer
"	Prime Contracting Officer
PCP	Program Change Proposal
"	Plant Cognizance Program
PCR	Program Change Request
PCS	Permanent Change of Station
PCSP	Planned Communications Support Program
PCU	Pressurization Control Unit
PD	Program Director
PDD	Priority Delivery Dates
PDIC	USAF Supplement to PD, Installations
PDM	Programmed Depot Maintenance
PDMH	Productive Direct Man-Hours
PDP	Project Definition Phase
"	Preliminary Development Plan
PDR	Preliminary Design Review
PDS	Priority Distribution System
P/E	Program Element
PE	Periodic Inspection
PEC	Program Element Code
"	Plant Equipment Code
PED	Personnel Equipment Data
PEDS	Packaging Engineering Data System
PEF	Program Estimating Factor
PEI	Preliminary Engineering Inspection
PEIC	Program Element Identification Code
PEM	Program Element Monitor
PEMS	Program Evaluation Management System
PERT	Program Evaluation Review Technique
PETAT	Periodic Inspection Turn Around Time
PFRT	Preliminary Flight Rating (Readiness) Test
PFT	Program Flying Training
PG	Program Guidance
PGAPL	Preliminary Group Assembly Parts List
PGD	Program Guidance Director
PGFEL	Preliminary Government Furnished Equipment List
PGSE	Peculiar Ground Support Equipment
PGSEL	Priced Ground Support Equipment List
PIC	Program for Improved Contracting
PID	Procurement Information Digest
PIINS	Procurement Instrument Identification Numbering System
PIP	Product Improvement Program

PL	Parts List
"	Public Law
"	Production Leadtime
PLANNET	Planning Network
PLT	Procurement Lead Time
PLUS	Procedure for Long Supply Utilization Screening
PM	Manpower and Organization Program
"	Periodic Maintenance
"	Preventive Maintenance
"	Program Manager
PMA	Procurement Methods Analyst
PMC	Procurement Method Code
PMD	Program Management Directive
PME	Precision Measuring Equipment
PMEL	Precision Measurement Equipment Laboratory
PMGFEL	Preliminary Master Government Furnished Equipment List
PMI	Preventive Maintenance Inspection
PMO	Program Management Office
PMP	Program Management Plan
PMR	Pacific Missile Range
PMRT	Program Management Responsibility Transfer
P/N	Part Number
PNCIA	Part Number of Component Item Affected
PO	Purchase Order
P/O	Planning Objective
POESMIC	Program Office for Evaluation and Structuring Multiple Incentive Contracts
POL	Petroleum, Oils, Lubricants
POOD	Procurement Order Obligation Document
POSD	Preoperational Support Date
POSP	Preoperational Support Program
POV	Privately Owned Vehicle
PP	Project Plan
PPB	Provisioning Parts Breakdown
PPL	Provisioning Parts List
"	Preferred Parts List
PPS	Provisioning Performance Schedule
PR	Purchase Request
"	Procurement Request
PRC	Progress Review Committee
PRIME	Priority Improved Management Effort
PRISM	Progressive Refinement of Integrated Supply Management
PR/O	Pilot Rework/Overhaul
PROBE	Performance Review of Base Supply Effectiveness
PROL	Priority Requirements Objective List
PROM	Rotations, Air Operations and Maneuvers
PR/R	Pilot Rework/Repair

PRR	Purchase Revision Request
PRS	Provisioning Requirements Statement
PS	Personnel Subsystem
"	Programmed Special Weapons Capabilities and Equipage
PSC	Program Sturcture Code
"	Procurement Source Code
PSM	Personnel Subsystem Milestones
PSPL	Prices Spare Parts List
PSPP	Proposed System Package Plan
PST	Personnel Subsystem Team
PSTE	Personnel Subsystem Test and Evaluation
PTA	Proposed Technical Approach
PTDP	Preliminary Technical Development Plan
PTFMR	Peacetime Force Materiel Requirements
PTT	Program Technical Training
PWRR	Prepositioned War Reserve Requirement
PWRS	Prepositioned War Reserve Stock

Q

QA	Quality Assurance
QC	Quality Control
QCDR	Quality Control Deficiency Reports
QEC	Quick Engine Change
QEEL	Quality Evaluation and Engineering Laboratory
QM	Quartermaster
QMDO	Qualitative Materiel Development Objective
QMR	Qualitative Materiel Requirement
QPA	Quantity per Assembly
QPL	Qualified Product List
QQPRI	Qualitative and Quantitative Personnel Requirements Information
QRC	Quick Reaction Capability
QT	Quality Test
QTY	Quantity

R	Reliability
RA	Requiring Activity
RAAF	Royal Australian Air Force
RAC	Reparable Assets Control
RAD	Requirements Action Directive
RADAR	Radio Detecting and Ranging
RADC	Rome Air Development Center
RADIC	Research and Development Information Center
RADSOC	Request for Authority to Develop a System or Change
RAF	Royal Air Force
RAISOC	Request for Authority to Implement a System or Change
RAL	Required Average Life
RAM	Rapid Area Maintenance
"	Recoverable Assembly Manager
"	Radar Absorbing Materials
RAPP	Reconciliation and Purification Program
RAS	Requirements Allocation Sheet
RASS	Rapid Area Supply Support
RATS	Rapid Area Transportation Support
RC	Repair Cycle
"	Responsibility Center
RCAF	Royal Canadian Air Force
RCN	Record Control Number
R&D	Research and Development
"	Requirements and Distribution
RDD	Required Delivery Date
RDO	Redistribution Order
"	Research Development Objective
RDPM	Revised Draft Presidential Memoranda
RDT&E	Research, Development, Test and Evaluation
REDHORSE	Rapid Engineering Development, Heavy Operational Repair Squadron, Engineering
REM	Registered Equipment Management
RF	Radio Frequency
RFAED	Readiness Forecast Authorization Equipment Data
RFB	Request for Bid
RFI	Ready for Issue
RFP	Request for Proposal
RFQ	Request for Quote
"	Request for Quotation
RIAR	Requirements Inventory Analysis Report
RIB	Recoverable Item Breakdown
RIF	Reduction in Force

RILSA	Resident Integrated Logistics Support Activity
RILSD	Resident Integrated Logistics Support Detachment
RIR	Reduction in Requirements
RLO	Regional Liaison Office
R&M	Redistribution and Marketing
"	Reliability and Maintainability
RM	Rocket Motor
RMB	Retrofit Management Breakpoint
RMO	Records Management Office(r)
RMS	Resources Management Systems
RNCC	Reference Number Category Code
RO	Requirements Objective
ROC	Required Operational Capability
ROCP	Radar Out of Commission for Parts
ROD	Required Operational Date
ROL	Reorder Level
ROS	Reduced Operational Status
ROTC	Reserve Officer Training Corps
RPC	Reparable Processing Center
RPIE	Real Property Installed Equipment
RPL	Recommended Parts List
RPO	Responsible Property Officer
RPP	Reliability Program Plan
RPPP	Repair Parts Program Plan
RPT	Resident Provisioning Team
RPU	Retention Pending Use
RR&C	Records, Reports and Control
RRPL	Recommended Repair Parts List
RRPO	Recommended Repair Parts Order
RSP	Replenishment Spare Parts
RSPL	Recommended Spare Parts List
RSS	Requirement Spread Sheet
R&T	Research and Technology
RT	Recovery Time
RTAT	Rework Turn Around Time
RTD	Research and Technology Division
RTD&E	Research, Test, Development & Evaluation
RTE	Resident Training Equipment
RTS	Reparable This Station
RUC	Real Ultimate Cost

SA	Secretary of the Army
"	Supplemental Agreement
S-A	Safety-Arming
SAAM	Special Assignment Airlift Mission
SAC	Strategic Air Command
SACEUR	Supreme Allied Commander of Europe
SACLANT	Supreme Allied Commander, Atlantic
SAE	Society of Automotive Engineers
SAF	Secretary of the Air Force
SAFO	Secretary of the Air Force Order
SAGE	Semi-Automatic Ground Environment
SAIMS	Selected Acquisitions Information and Management System (AFR 375-6)
SAIP	Spares Acquisition Improvement Program
SAM	Surface-To-Air Missile
SAMSO	Space and Missile Systems Organization
SAMSOM	Support Availability Multi-System Operational Model
SAR	Search and Rescue
"	Selected Acquisition Report
SATAF	Site Activation Task Force
SATE	Support and Test Equipment
SBA	Small Business Administration
SB&CR	Stock Balance and Consumption Report
SCARS	Serialized Control and Reporting System
SCAS	Standard Configuration Accounting System
SCC	System Control Code
SC&D	Stock Control and Distribution
SCF	Satellite Control Facility
SCG	Security Classification Guide
SCMS	Standard Configuration Management System
SCN	Specification Change Notice
SCO	System Control Officer
SCP	Systems Change Proposal
SD	Sorties Per Day
SDA	Source Data Automation
SDC	System Designator Code
SDD	System Definition Directive
SDMO	Subcommand Data Management Office
SDOF	System Duty Officer Facility (SPP)
SDP	Storage and Distribution Point
"	Supply Distribution Point
SDPE	Special Design Protection Equipment
SDPL	Sensor Data Processing Laboratory
SDR	Small Development Requirement
SDT	Second Destination Transportation

SE	Support Equipment (formerly AGE)
SEA	Southeast Asia
SEAOR	Southeast Asia Operational Requirement
SEATO	Southeast Asia Treaty Organization
SECDEF	Secretary of Defense
SED	Service Engineering Division
SEDS	System Engineering Data System
SEM	System Engineering Management
SEMPS	System Engineering Management Plans
SEP	System Engineering Process
SERD	Support Equipment Recommendations Data
SESD	Systems Effectiveness Data System
SF	Standard Form
"	Stock Fund
SFEL	Standard Facility Equipment List
SGS	Secretary of the General Staff
S&GSD	Systems and General Support Division
SGSE	Standard Ground Support Equipment
SHAPE	Supreme Headquarters Allied Powers Europe
SI	Shipping Instructions
"	Shear Insert
SIC	Sorties per Inspection Cycle
SICR	Supply Item Change Record
SIG	Senior Interdepartmental Group
S&I	Stocked and Issued
SIN	Service Identification Number
SIOP	Single Integrated Operations Plan
SISMS	Standard Integrated Support Management System
SJA	Staff Judge Advocate
SL	Stock List
SLCN	Stock List Change Notice
SLO	System Logistics Officer
SM	System Manager
"	System Management
"	Support Manager
SMC	System Management Code
SMD	System Management Directive
SMIF	Supply Master Identification File
SML	Support Material List
SMO	Supplies Management Office
SMOA	Single Manager Operating Agency
SM&R	Source, Maintenance, and Recoverability
SMS	Stores Management System
SMSB	Strategic Missile Support Base
S/N	Serial Number
"	Stock Number
SNACS	Stock Number Assignment Control System
SNL	Standard Nomenclature List
SNUD	Stock Number User Directory

SOI	Specific Operating Instruction
SOLOG	Standardization of Operations and Logistics
SOP	Standard Operating Procedure
SOR	Specific Operational Requirement
SOW	Statement of Work
SP	Supply Point
SPC	Special Code
SPCC	Ships Parts Control Center
SPD	System Program Director
"	System Program Directive
SPM	Single Point Management
"	Single Point Manager
S/PM	System/Project Manager
S/PMO	System/Project Management Office
SPO	System Program Office
SPOC	System Program Office Cadre
SPP	System Package Program
SPR	Special Program Requirement
"	Secretary of the Air Force Program Review
SPSL	Spare Parts Selection List
S&R	Suspension and Release (stores & munitions)
SRA	Specialized Repair Activity
SRM	Short-Range Missile
SRPPP	Spares and Repair Parts Program Plan
SRR	Survival Recovery and Reconstitution
SRS	Satellite Readout Station
SRU	Shop Replaceable Unit
SS	Source of Supply
SSA	Source Selection Authority
SSAC	Source Selection Advisory Council
SSC	Skill Specialty Code
SSD	System Support Division
SSDR	Subsystem Development Requirement
SSEB	Source Selection Evaluation Board
SSEP	System Safety Engineering Plan
SSM	System Support Manager
SSPA	Sustained Superior Performance Award
SSP/IS	System Support Program Information System
SSR	Supply Support Request
SSRB	Source Selection Review Board
SSS	System Storage Site
SSSB	System Source Selection Board
STAR	Speed Through Air Resupply
STARCOM	Strategic Army Communications
STDP	USAF Special Training Device Program
STEP	Special Training Equipment Program
STINFO	Scientific and Technical Information
STOL	Short Take-Off and Landing

STP	System Test Plan
STRAF	U.S. Army Strategic Forces
STRICOM	U.S. Strike Command
STS	Space Transportation System
STTC	Sheppard Technical Training Center
SYS	Systems

T

TA	Table of Allowance
TAB	Technical Abstract Bulletin
TAC	Tactical Air Command
TAD	Technical Approval Demonstration
TAF	Tactical Air Force
TAT	Technical Assistance Team
"	Turn Around Time
TBD	To Be Determined
TBF	Time Between Failures
TBO	Time Between Overhaul
TC	Training Center
TCC	Type of Change Code
TCD	Time Compliance Directive
TCI	Time Change Item
TCMD	Transportation Control and Movement Document
TCN	Transportation Control Number
TCTO	Time Compliance Technical Order
TDO	Technical Development Objectives
TDP	Technical Development Plan
TDR	Technical Documentary Reports
"	Teardown Deficiency Report
TDY	Temporary Duty
TEPI	Training Equipment Planning Information
TEWS	Tactical Electronic Warfare System
TFCU	Transportable Field Calibration Unit
TFE	Trainer Flight Equipment
TFG	Tentative Force Goals
TFS	Tactical Fighter Squadron
TIF	Technical Information File
TIFS	Total In-Flight Simulator
TL	Time of Landing
TLE	Target Logistics Effect
T&M	Time and Material
TM	Technical Manual
"	Tactical Missile
TMB	Time Maintenance Began
TMCR	Technical Manual Contract Requirement
TMMT	Technical Manual Management Team

TMP	Technical Manual Plan
TMS	Type, Model & Series
TMSS	Technical Manual Specification Standardization
TO	Technical Order
TOA	Total Obligation Authority
TOC	Technical Order Compliance
TODCA	Technical Order Distribution Control Activity
TOE	Tables of Organization and Equipment
TOFT RATIO	Total Operating to Flight Time Ratio
TOMA	Technical Order Management Agency
TOP	Technical Order Program
TOR	Tactical Operations Room
TOT	Take-Off Time
TP	Technical Publication
TPE	Technical Publication Engineer
TPM	Technical Performance Management
TPO	Transportation Packaging Order
TPP	Total Package Procurement
TPPC	Total Package Procurement Concept
TPR	Trained Personnel Requirements
TR	Transportation Request
TRC	Technical Repair Capability
TS	Target Seeker
TSAF	Typical System Acquisition Flow
TSE	Tactical Support Element
TSMC	Technical Supply Management Code
TSOR	Tentative Specific Operational Requirement
TSPR	Technical Support Real Property
TST	Test Support Table
"	Test Support Team
T&TE	Tool and Test Equipment
TTA	Turnover Transition Agreement (obsolete)
TTU	Transition Training Unit
TTY	Teletype
TUAL	Tentative Unit Authorization List
TWP	Technical War Plan

U

UAL	Unit Authorization List
UCP	Unified Command Plan
UD	User Display
UDS	User Display Segment
UFAED	Unit Forecast Authorization Equipment Data
UFC	Uniform Freight Classification

UHF	Ultra High Frequency
UI	Unit of Issue
UJC	Urgency of Justification Code
U/M	Unit of Measure
UMD	Unit Manning Document
UMMIP	Uniform Materiel Movement Issue Priority
UMMIPS	Uniform Materiel Movement and Issue Priority System
UMR	Unsatisfactory Material Report
UND	Urgency of Need Designator
UNIVAC	Universal Automatic Computer
UOC	Ultimate Operational Capability
UOO	Undelivered Orders Outstanding
UP	Unit Pack
UPC	Unit Processing Code
UPIINS	Uniform Procurement Instrument Identification Numbering System
UPS	Uninterruptable Power Supply
UR	Unsatisfactory Report
USA	United States Army
USACDC	U.S. Army Combat Developments Command
USAF	United States Air Force
USAFA	U.S. Air Force Academy
USAFE	U.S. Air Force in Europe
USAFSO	U.S. Air Force Southern Command
USAFSS	U.S. Air Force Security Service
USAMC	U.S. Army Materiel Command
USARAL	U.S. Army, Alaska
USAREUR	U.S. Army, Europe
USARPAC	U.S. Army, Pacific
USARSO	U.S. Army, Southern Command
USIA	U.S. Information Agency
USMC	United States Marine Corps
USN	United States Navy
USNAVEUR	U.S. Navy in Europe
USSOUTHCOM	Southern Command
UUT	Unit Under Test
UV	Ultraviolet
UW	Unconventional Warfare

V

VAL	Vehicle Authorization List
VATE	Versatile Automatic Test Equipment
VCS	Vice Chief of Staff
VE	Value Engineering
VECP	Value Engineering Change Proposal
VGPI	Visual Glide Path Indicator
VIL	Vendor Item List
VIP	Very Important Person
VPPB	Vendor Provisioning Parts Breakdown
VSCF	Variable Speed Constant Frequency (electric generator & converter)
VSTOL	Vertical and/or Short Take Off and Landing
VTOL	Vertical Take-Off and Landing

W

WAA	Wartime Aircraft Activity
WA/WM	Working Aircraft/Working Missile (Schedule)
WBS	Work Breakdown Structure
WC	War College
"	Work Center
WCDO	War Consumables Distribution Objective
WCS	Weapons Control System
WET	Weapons Effectiveness Testing
WG	USAF Wartime Guidance
WH	Warhead
WHSE	Warehouse
WISSA	Wholesale Interservice Supply Support Agreement
WLF	Workload Factor
WOR	Wearout Rate
WPLO	Water Port Liaison Office(r)
WPM	U.S. Midrange Wartime Requirements Plan
WPS	USAF Short-Range Wartime Requirements Plan

WR	USAF Wartime Requirements
WRA	Weapon Replaceable Assembly,
WRM	War Readiness Materiel
WRSK	War Readiness Spares Kit
W/S	Weapons System
WSD	Weapons System Designator
WSECL	Weapons System Equipment Component List
WSLO	Weapons System Logistics Officer
WSM	Weapons System Manager
WSP	Weapons System Pouch
WSPD	Weapons System Planning Document
WSPO	Weapons System Project Officer
"	Weapons System Program Office
WSR	Weapons System Reliability
WSS	Warfare Systems School
WSSC	Weapons System Support Center
WSSL	Weapons System Support List
"	Weapons System Stock List
WSSM	Weapons System Support Manager
WSSS	Weapons System Storage Site
WSTO	Weapons System Training Officer
WTR	Western Test Range
WUAA	Wartime Unit and Aircraft Activity
WUC	Work Unit Code
WUTS	Work Unit Time Standard

Z

Z	Zone
ZD	Zero Defects
ZI	Zone of the Interior