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AUTOMATED LOGISTICS SUPPORT ANALYSIS TOOL
Version 1.0

EXECUTIVE
USER'S MANUAL

APJ 966-600

APJ



AMERICAN POWER JET CO. RIDGEFIELD N.J.

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This Executive User's Manual is the complete documentation package for the Executive Module of the Automated Logistic Support Analysis Tools (ALSAT). This is one of four modules that comprise the prototype Version 1.0 of ALSAT. The purpose of the prototype version is to demonstrate how the integrated Executive shell can adequately manage and control several LSA Tasks and Subtasks. It defines, organizes, tracks, models and reports on procedures that are used to develop supportability concepts. This Executive User's Manual describes the installation of the software and the operation of ALSAT. However, each LSA Task (the remaining three modules) has its own reference manual. The user is advised to use the individual LSA Manuals in conjunction with this Executive Manual when performing any of the LSA Tasks or Subtask operations.					
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APJ 966-600

AUTOMATED LOGISTICS SUPPORT ANALYSIS TOOL
Version 1.0

**EXECUTIVE
USER'S MANUAL**

DTIC QUALITY INSPECTED 8

under

CONTRACT DAAA21-86-D-0025

for

**HQ US AMCCOM
INTEGRATED LOGISTIC SUPPORT OFFICE
AMSMC-LSP
ROCK ISLAND, IL**

by

AMERICAN POWER JET COMPANY

RIDGEFIELD, NJ

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PLEASE READ THIS

The Automated Logistics Support Analysis Tool (ALSAT) software consists of an Executive Module and a set of LSA Task/Subtask Modules.

To operate ALSAT, both the Executive Module and the Task/Subtask Modules you wish to use must be installed.

There is a separate User's Manual for each Task/Subtask Module. To effectively utilize ALSAT, obtain both the Executive Module User's Manual and the applicable Task/Subtask User's Manuals.

FOREWORD

This manual is the complete user documentation package for the Executive Module of the Automated Logistics Support Analysis Tools (ALSAT).

ALSAT provides a computer assisted guide to logisticians in the performance of Logistics Support Analysis Tasks and Subtasks as defined in MIL-STD-1388-1A. This automated LSA System is being developed by the American Power Jet (APJ) Company, under contract to HQs AMCCOM.

ALSAT is weapon system and life cycle stage independent; it is designed to be tailored to a specific weapon system, life cycle stage, or other constraint. It defines, organizes, tracks, models and reports on the LSA procedures that define a weapon system support concept. It provides structured and comprehensive techniques to perform LSA, and saves time in organizing, and reporting the information developed.

Structured methodologies were used to develop the software logic in accordance with MIL-STD-1388-1A, "Logistic Support Analysis". APJ's task performance has been closely coordinated with AMCCOM and other materiel agencies. Their experience has been captured in APJ's logic through continued coordination and review at the working level.

ALSAT simplifies the analyst's task. The user is taken through a series of data input screens that when completed produce meaningful LSA Task results. Time is spent actually doing the work instead of determining what must be done next. Help is available at every step to guide the analyst through the task.

Version 1.0 of ALSAT was developed as a prototype to demonstrate the operation of several LSA Tasks and Subtasks through an Executive module. It comprises an Executive and three LSA task/subtask modules. The individual LSA Tasks and Subtasks are not uniform in appearance because they differ in functional requirements.

This manual provides necessary guidance for logisticians to use the ALSAT Executive. The two forms of guidance (User manual and extensive On-line help), enable an uninitiated user to quickly master the software and apply it to LSA task performance.

Each LSA task has its own reference manual and is self contained. The user is advised to use the individual LSA

manuals in conjunction with this manual when performing any of the LSA Tasks or Subtasks.

This work was performed by a task team for APJ: George Chernowitz, Scott Lerman, Siddhartha Chaudhuri, Kayin Tong and Jack Tauber. The team was ably supported in editing and production by Barbara Boren and Denise Montanez.

The support of Messrs. Ned A. Shepherd and Ron Duclos of AMCCOM, AMSMC-LSP is gratefully acknowledged for their assistance in many regards.

ALSAT LSA software is available through HQ AMCCOM, AMSMC-LSP to Program Managers, ILS functional area personnel and Logistic Support Analysts.

Comments and recommendations on this version are welcome and should be addressed to:

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CHAPTER 1 INTRODUCTION

1.1 GENERAL

REQUIRE- MENT

1.1.1 The Department of the Army has a requirement to provide definitive guidance to accomplishing LSA Tasks specified in MIL-STD-1388-1A, "Logistic Support Analysis". Headquarters AMCCOM has initiated action to structure LSA Task performance by defining the procedures necessary to do an analysis, thereby producing the desired results.

1.1.2 The Automated Logistics Support Analysis Tool (ALSAT) addresses that initiative by laying out the approach using current U.S. Army policies, procedures and techniques. It is part of a coordinated HQ, US Army Armament, Munitions and Chemical Command (AMCCOM) and American Power Jet Company effort to provide a uniform and reproducible approach to the logistic tasks addressed by MIL-STD-1388-1A, "Logistic Support Analysis", and Army Regulation 700-127, "Integrated Logistic Support".

PROTOTYPE SOFTWARE

1.1.3 The software is a prototype version which demonstrates the possibility of automating the tasks involved in developing effective Logistics Support during the various phases of a weapon systems life cycle. The prototype version represents how an integrated Executive shell can adequately manage and control the numerous LSA Tasks and Subtasks.

1.1.4 ALSAT simplifies the analyst's task. The user is taken through a series of data input screens that when completed produce meaningful LSA Task results. More time is spent actually doing the work instead of determining what must be done next. Help is available at every step to guide the analyst through the task.

1.1.5 The software has been designed such that the user need input data only once. If the data is

subsequently required within the module, it is retrieved and used at that particular point. Numerous checks have been introduced within the software to ensure data integrity. While every effort has been made to provide an error free software, it must be recognized that the prototype primarily demonstrates a concept and should be viewed as such.

1.1.6 This prototype user's manual is intended for use with Version 1.0 of the Logistic Support Analysis (LSA) software. It is designed to provide guidance in the use of the LSA software so that the analysis is performed in accordance with the specifications laid out in MIL-STD-1388-1A.

1.1.7 The user is guided through the software with suitable prompts. The software also incorporates a two part on-line **HELP** function which provides the step-by-step logistic procedures involved in the completion of the task and guidance through the software.

1.1.8 The manual consists of four volumes:

- Executive Manual (APJ Report 966-600. This report)
- Early LSA Strategy (APJ Report 966-601)
- Risk Analysis (APJ Report 966-604)
- Battle Damage Assessment and Repair (APJ Report 966-621)

1.1.9 The layout of the manual differs in each of the volumes to suit the requirements of the individual LSA modules.

1.2 SCOPE

1.2.1 This module controls the entire operations of the **Automated Logistics Support Analysis Tool**. It provides logisticians with a tool to closely follow standardized methodology to be adopted in conducting Logistics Support Analysis Tasks and Subtasks.

SCOPE

1.2.2 It defines, organizes, tracks, models and reports on the procedures that are used to define a weapon system support concept. The objective ALSAT is to reduce the time spent by logisticians in organizing, collating and formatting information developed in the analysis process while providing structured and comprehensive techniques to do their job.

NOTE

This user's manual describes the operation of the ALSAT Executive. It must be used in conjunction with the manuals for the individual LSA Tasks or Subtasks.

1.2.3 The manual starts with an overview of the LSA software and a brief description of the **Management Module**. Chapter 2 provides the user with an **Installation Procedure** for the LSA software. Chapters 3 through 5 give the user a step-by-step walk through the operation of the Management module adequately supplemented by graphic screen displays. Appendices at the end of the volume provide the user with the System Requirements, list of reference documents and required files for use with the software, and sample reports from the management module.

1.3 OVERVIEW OF LSA SOFTWARE

1.3.1 The software provides a computer assisted guide for working level personnel in performing Logistics Support Analysis Tasks and Subtasks as identified in MIL-STD-1388-1A. It affords assistance in identifying the optimal solutions to operation and support decisions addressed in the Logistics Support Analysis process during the

**LSA
OVERVIEW**

various life cycle phases of an Equipment or Weapon System.

1.3.2 Every Task or Subtask may not be pertinent. It is suggested that the user review the complete list of Tasks and Subtasks to determine those applicable to the life cycle phase, weapon system and type of analysis to be performed, and indicate it in the Management module of the Executive, where the appropriate tailoring can be undertaken.

1.3.3 The software takes the user through a series of procedures required to complete an analysis. The procedures involve the completion of a series of data input screens which require knowledge of the system design. The software contains functionality for documenting the rationale of the decision.

1.3.4 To assist the user in gathering data, completing the data fields and making decisions, an extensive HELP system has been built into the software. The **Process Methodology Help** presents procedures for gathering and analyzing data. **Software Guidance Help** steers the user through the program.

1.3.5 The software also has an electronic note pad which may be used to record special considerations and outline areas which are critical to the issue at hand. In addition, a Summary and Status Submodule forms an integral part of each LSA module. This Submodule allows a manager to maintain an up-to-date record of the Tasks and Subtasks status.

1.3.6 The LSA software generates reports which broadly cover three areas - Status, Summary and Analysis results. The individual LSA modules generate reports specific to the Task or Subtask, whereas the Management module generates reports that provide the Program Manager with tools for effective control of the overall logistic support program.

1.4 MANAGEMENT MODULE**MANAGE-
MENT
MODULE**

1.4.1 The purpose of the Management Module is to allow the user to maintain the LSA environment. It incorporates three Submodules:

Utilities
Housekeeping
Management Reports

UTILITIES

1.4.2 **Utilities Submodule** - This Submodule allows the user to recover corrupted files and pack text files (*.DBT). This Submodule also allows the user to select/modify the specifications of the printer.

**HOUSE-
KEEPING**

1.4.3 **Housekeeping Submodule** - This Submodule allows the user to set up a schedule for the performance of Tasks and Subtasks, modify user details and update equipment details.

**MANAGE-
MENT
REPORTS**

1.4.4 **Management Reports** - This Submodule generates reports for the Program Manager and facilitates effective control and monitoring of project.

1.5 LSA LOGIC AND ORGANIZATION**LSA LOGIC**

1.5.1 The software automates the assessment of three LSA Tasks/Subtasks and follows the requirements of MIL-STD-1388-1A.

1.5.2 The LSA software was developed using the state-of-the-art Computer Aided Software Engineering (CASE) methodologies. The basis for the development process was Data Flow Diagrams and Structured Design submitted in APJ Reports.

1.5.3 The APJ reports provide the detailed Structured Analysis and Design of the LSA Tasks/Subtasks. The user may refer to the appropriate APJ Reports to get an overview of the logic and approach for doing an LSA Task or Subtask.

1.5.4 Figure 1-1 explains the LSA Executive Architecture. The user must first log into the software and select the equipment to be worked on. This takes into account the fact that the LSA user is typically a single individual, working on a single weapon system and quite possibly on a limited number of areas of logistics analysis.

1.5.5 The software architecture supports this view and allows the user to perform analysis on a number of LSA Tasks and Subtasks in one sitting but on only one weapon system. Should analysis be required on multiple equipments, the user would have to reenter the software for each equipment.

1.5.6 Figure 1-2 presents the LSA Task/Subtask logic and is indicative of the decision processes involved in the performance of the individual logistics support analyses.

1.5.7 Figure 1-3 displays the structure of the Management Module. The figure provides a clear understanding of the control functions incorporated into the module for upkeep and maintenance of the software.

1.6 SECURITY

SECURITY

1.6.1 ALSAT incorporates a two level security system explained in detail in Chapter 4. It can only be accessed by users whose analyst ID and passwords have been entered into the system. Although the databases contain unclassified information, it is implicit that proper protection of the data be taken to preserve the integrity of the system.

1.7 PROJECT MANAGEMENT TOOLS

1.7.1 American Power Jet Company has developed the Venture Evaluation Review Technique (VERT) network charts to go with each of the LSA modules.

**PROJECT
MANAGE-
MENT TOOLS**

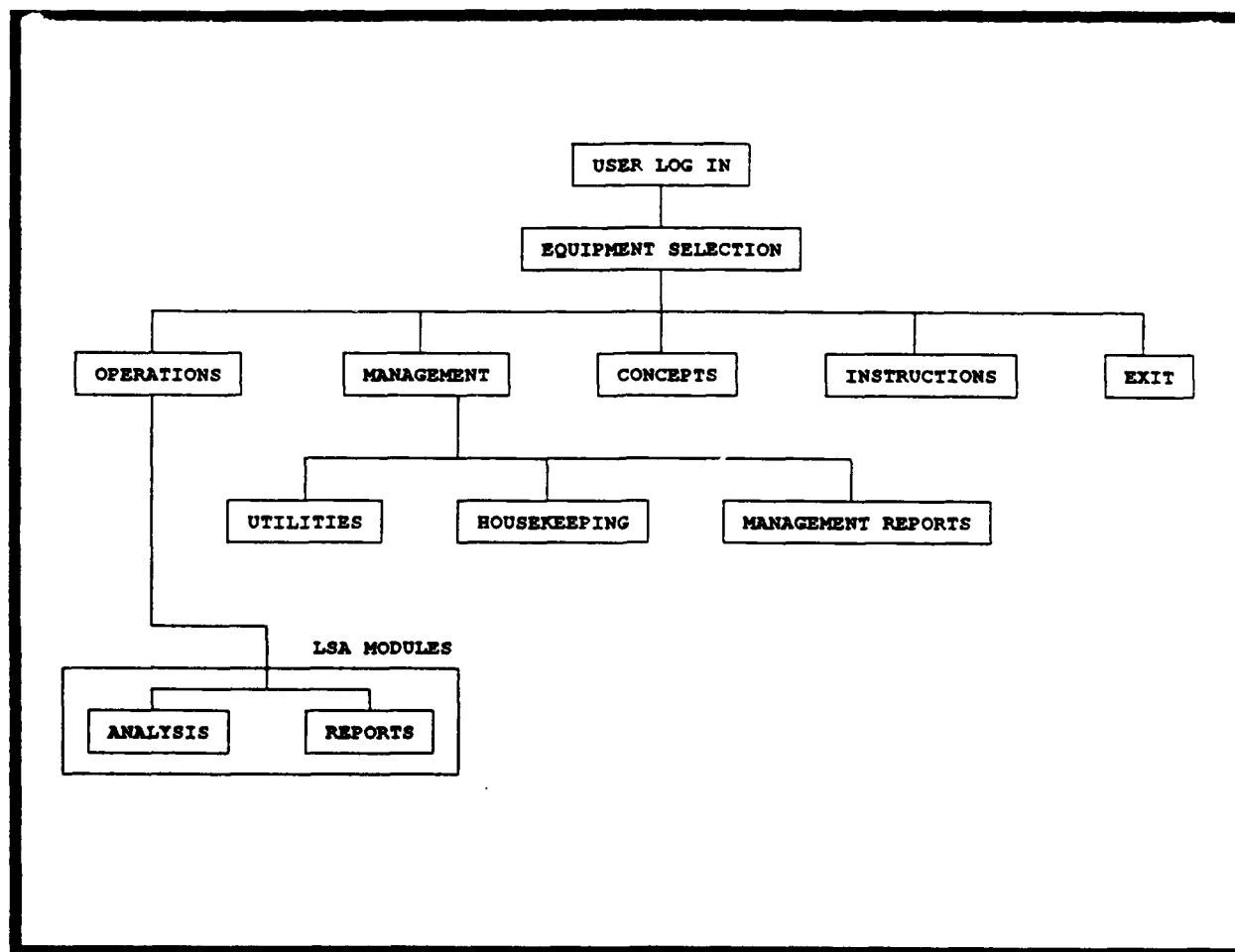
The use of the VERT technique to evaluate time, cost and performance requirements will facilitate management decision making.

1.7.2 The PC based version of VERT is available through HQ AMCCOM, AMSMC-LSP. A set of input files, containing dummy data, were created for each of the modules. These input files can be found in the various APJ 966 Reports. The input files need to be modified to reflect the actual/projected time, cost and performance data.

1.8 PACKAGE CONTENTS**LSA PACKAGE**

1.8.1 The LSA package comprises the following items:

Three 5 1/4" 360K Disks
Four Volumes of the User's Manual

**FIGURE 1-1: LSA EXECUTIVE ARCHITECTURE**

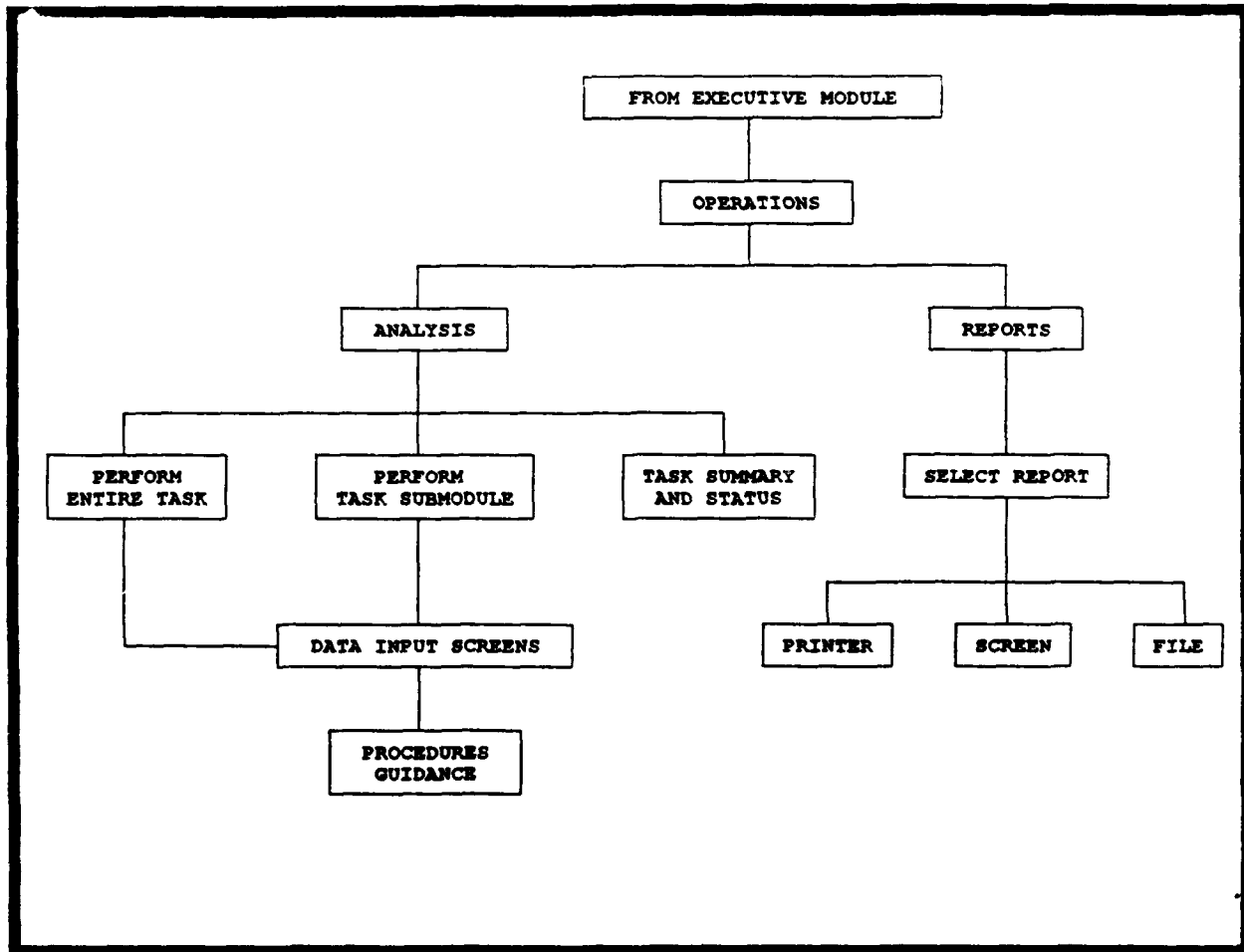
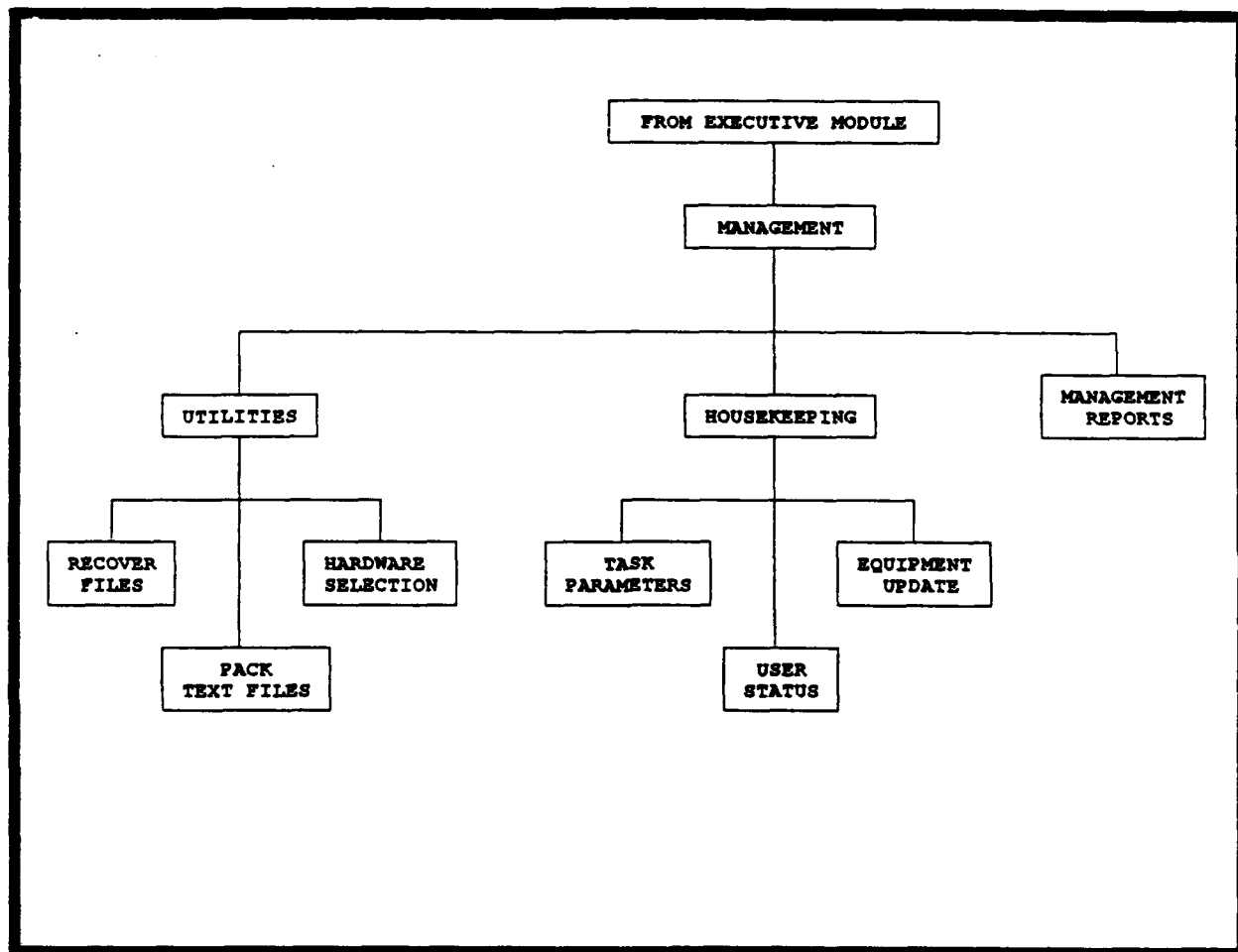


FIGURE 1-2: LSA TASK/SUBTASK LOGIC

**FIGURE 1-3: LSA CONTROL FACILITIES**

CHAPTER 2 INSTALLING AND OPERATING ALSAT

2.1 INTRODUCTION

INTRO- DUCTION

2.1.1 ALSAT provides the logistician with a set of tools to allow him to efficiently evaluate a weapon system as regards its Operability, Supportability and Maintainability.

2.1.2 Version 1.0 of the Logistics Support Analysis software allows the logistician to develop an Early LSA Strategy, Identify Risks, and evaluate the Weapon System for its Battle Damage Survivability characteristics.

2.1.3 This chapter tells the user what is needed to use the ALSAT software, how to install it onto a hard disk and how to Log-In and start using the program for Logistics Support Analysis.

2.2 WHAT YOU NEED

SYSTEM REQUIRE- MENTS

2.2.1 To use the ALSAT software you need:

An IBM or 100% compatible PC computer. The computer must have a hard disk with one floppy disk drive.

At least 640K of RAM on the computer system. This version of the ALSAT is not suitable for use in a networked environment.

DOS version 3.3 or higher.

Any Graphics adapter card with a 80 column monitor (Color or Monochrome)

More than 2MB of hard disk space on the drive in which the software is being installed.

The ALSAT supports a variety of printer drivers listed in Appendix 'A' of this manual.

EXECUTIVE INSTALLING AND OPERATING ALSAT 2-2

If reports from the analyses are to be prepared in hard copy, one of the printers supported by the software is also required.

2.3 BACKING UP ALSAT DISKS

BACK UP ORIGINALS

2.3.1 It is advisable to make a back up copy of the original ALSAT disks incase they are lost or damaged.

2.3.2 To make a back up of the disks either of the two DOS commands: COPY or DISKCOPY may be used. Refer to the DOS manual for further explanations on the use of the two commands.

2.4 INSTALLING ALSAT

2.4.1 ALSAT incorporates an install program to make the installation procedure easy for the user.

NOTE

The ALSAT Install Program must be used to install the software into the hard disk. The DOS COPY commands will not work because several files are compressed and combined into one on each disk.

INSTALLING ALSAT

2.4.2 The install program allows the user to install one or more of the LSA modules into the computer's hard disk. It checks the hard disk for sufficient space and creates a directory called LSA into which the software is installed. However, the user has the option to select the drive and change the name of the directory as desired.

EXECUTIVE INSTALLING AND OPERATING ALSAT 2-3

TO RUN INSTALL

Insert ALSAT Disk 1 into drive A or drive B

Make drive A or drive B the default drive

Type <A:> or <B:>

To run Install

Type <INSTALL>

Press <ENTER>

INSTALL PROCEDURE

The Installation Screen is presented

Respond to the prompt on the screen

Press <ANY KEY>

The install program automatically reads all the drives in the computer and prompts the user to select the drive in which to install the software.

NOTE

The drive in which ALSAT is to be installed must have 2MB of disk space in it.

Use the UP-DOWN Arrow keys to move the highlight bar to the required drive

Press <ENTER>

The program presents the default directory \LSA to the user

If the default directory name is accepted

Press <ENTER>

If another directory name is desired

Type in <DIRECTORY NAME>

EXECUTIVE INSTALLING AND OPERATING ALSAT 2-4

The install program allows the user to install one or more modules of the ALSAT software

Use the UP-DOWN Arrow keys to highlight the desired modules. To change the NO option to YES Press <SPACE BAR>

When all modules are selected Press <ENTER>

The program will copy the appropriate files into the hard disk. Follow the program prompts to insert the required disks at each stage Press <ANY KEY>

When the installation is complete the program informs the user of the drive and directory into which the software has been installed. To continue Press <ENTER>

The install program now puts the user back into DOS and in the LSA directory.

To start the ALSAT Software Type <LSA>

NOTE

The manual assumes that the software installation procedures have been completed and that the LSA software is in a subdirectory called LSA which is on the C drive. If the software resides in any other drive or subdirectory, the user will need to make the appropriate changes.

START UP PROCEDURE

OPERATING ALSAT

To enter the LSA software:

Against the prompt C:>
Type <CD\LSA>
Press <ENTER>

Against the prompt C:\LSA>
Type <LSA>
Press <ENTER>

On the welcome screen
Press <ANY KEY TO CONTINUE>

The Sign-On screen is presented to the user (Figure 2-1)

05/21/91 LOGISTIC SUPPORT ANALYSIS 10 04 am

ENTER ANALYST ID: USER
ENTER PASSWORD: ****_

[ENTER YOUR PERSONAL PASSWORD]

FIGURE 2-1: LOG-IN PROCEDURE

EXECUTIVE INSTALLING AND OPERATING ALSAT 2-6

LOGGING IN

Type in your **<ANALYST ID>**
Press **<ENTER>**

Type in your **<PASSWORD>**

Review Analyst information screen (Figure 2-2)
Use the arrow keys to highlight **<ACCEPT>**
Press **<ENTER>**

The screenshot shows a terminal window titled "LOGISTIC SUPPORT ANALYSIS". The top status bar displays the date "05/21/91" on the left and the time "10:19 am" on the right. The main content area lists the following analyst details:

- ANALYST ID.....: USER
- ANALYST FIRST NAME.....: GEORGE
- ANALYST LAST NAME.....: CHERNOWITZ
- COMMAND OFFICE SYMBOL.....: APJ
- COMMAND OFFICE PHONE.....: 1(201) 999-9999
- COMMAND AUTOVON PHONE.....: 201-9999

At the bottom of the screen, there are two buttons: "ACCEPT" and "EDIT". Below these buttons, the text "ACCEPT CURRENT SIGN ON INFORMATION" is displayed.

FIGURE 2-2: ANALYST DETAILS

If the Analyst information is incorrect
Use arrow keys to highlight **<EDIT>**
Press **<ENTER>**

EDIT ANALYST INFORMATION

The cursor appears in the Analyst First Name field
Use the UP-DOWN Arrow keys to move the cursor from
one field to another

After editing data in the required field
Press **<ENTER>**

The **Equipment Selection** screen is then presented to the analyst (Figure 2-3)

05/21/91 LOGISTIC SUPPORT ANALYSIS 10:11 am

EQUIPMENT ID

81 MM MORTAR
COMBAT
M1A1

End of list

Navigate with <↑↓>, <Home>, <End>, <PgUp>, <PgDn> Select with <Enter>

SELECT EQUIPMENT

FIGURE 2-3: EQUIPMENT SELECTION

Use the arrow keys to move the highlight bar to the required Equipment
Press **<ENTER>**

Review Equipment details on the **Equipment Details** screen (Figure 2-4)
Press **<ANY KEY TO CONTINUE>**

**EDIT
EQUIPMENT
DETAILS**

If Equipment details require to be changed, contact the System manager. The changes to the Equipment details can only be made in the **Management Module** by a user who has a **Manager** access level (Refer Chapter 4 of this manual).

EXECUTIVE INSTALLING AND OPERATING ALSAT 2-8

05/21/91		LOGISTIC SUPPORT ANALYSIS		10:19 am	
EQUIPMENT IDENTIFICATION: COMVAT					
Military Nomenclature: N/A		Common Name: COMVAT		Indenture Level: 1	
National Stock Number: N/A		Manufacturer: HONEYWELL			
NEXT HIGHER ASSEMBLY					
FIFV					
MILESTONE					
Program		Development Phase		Acquisition Management	
FIX MOUNT DEMO TEST		6.2 EXPLORATORY		STREAMLINED	
INFORMATION OF PROJECT MANAGER					
First Name: GARY		Last Name: MOSHIER			
Command: AMCCOM		Office Symbol: SMCAR-CCS-C			
Phone Nbr.: 1(201) 724-6944		Autovon Phone Nbr.: 880-6994			
DISCREPANCY REPORT TO					
Name: STEVE TURKE		Phone #: 1(309) 782-7830		Command: AMCCOM	
PRESS ANY KEY TO CONTINUE DETAILED EQUIPMENT INFORMATION					

FIGURE 2-4: EQUIPMENT DETAILS

2.5 EXECUTIVE MENU SCREEN

The **Executive Main Menu** appears on the screen. It allows the user to select one of the following options (Figure 2-5):

OPERATIONS

Operations - The user may select a Task or Subtask and perform the Logistics Support Analysis or generate reports for the selected Equipment (Refer to individual LSA Task or Subtask User's Manual for a detailed discussion).

MANAGEMENT

Management - Allows the user to enter the Management Module and make use of the Utilities, Housekeeping or Management Reports facilities (Refer Chapters 3 through 5 of this manual for a detailed discussion).

CONCEPT

Concept - The user is able to view a text screen which describes the concept behind the development of the Automated Logistic Software Analysis Tool (ALSAT).

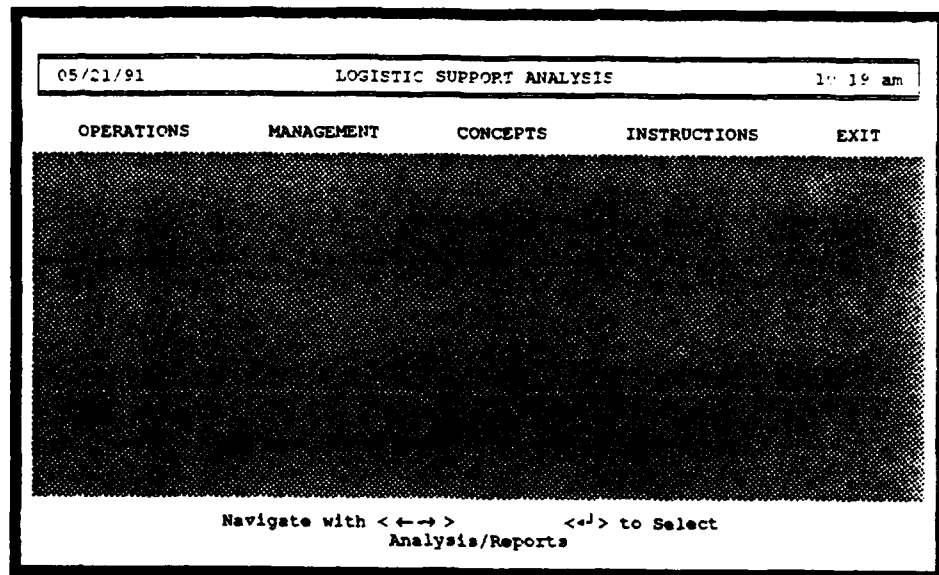


FIGURE 2-5: EXECUTIVE MAIN MENU SCREEN

INSTRUCTION

Instructions - The user is able to view a text screen which provides general instructions on the use of the software.

EXIT

Exit - The user may exit the software by selecting this option.

Use the **RIGHT-LEFT Arrow** keys or the appropriate **Command Key** to move the highlight bar to the required option
Press **<ENTER>**

Use the **UP-DOWN Arrow** key to move the highlight bar to the desired sub-option
Press **<ENTER>**

OPERATIONS

To perform an analysis

Use the **LEFT-RIGHT Arrow** keys to move the highlight bar

EXECUTIVE INSTALLING AND OPERATING ALSAT 2-10

USING ALSAT FOR ANALYSIS

Select **<OPERATIONS>**
Press **<ENTER>**

Use the **UP-DOWN Arrow** keys to move the highlight bar

Select **<ANALYSIS>**
Press **<ENTER>**

Use the **UP-DOWN Arrow** keys to move the highlight bar

Select **<REQUIRED TASK>**
Press **<ENTER>**

Use the **UP-DOWN Arrow** keys to move the highlight bar

Select **<REQUIRED SUBTASK>**
Press **<ENTER>**

The Task or Subtask menu appears at this stage
Use the **UP-DOWN Arrow** keys to select the required option on the manu

(For a detailed description on the use of a specific Task or SubTask consult the appropriate manual)

2.6 ADDITIONAL FUNCTIONS

ADDITIONAL FUNCTIONS

2.6.1 The software incorporates two additional functions: The **F9 - Note Function** and the **Task/Subtask Summary Status function**.

2.6.2 The two functions are designed to facilitate the analysts' work and allow the manager to more effectively control the project.

2.7 F9 NOTE FUNCTION

F9 NOTEPAD FACILITY

2.7.1 This function is designed to provide the analyst with an electronic notepad facility. The analyst may use this function at any time during the analysis to record facts or issues pertaining to the analysis.

EXECUTIVE INSTALLING AND OPERATING ALSAT 2-11

2.7.2 This facility is available to the analyst on all screens. It can be accessed on any screen by using the **F9** key. There is only one record for each **EQUIPMENT-LSA TASK/SUBTASK** combination. This implies that if an analyst, while performing an LSA on an equipment, selects the **F9** key several times during the same session or different sessions, the same data screen will be presented to analyst. The analyst could either add more notes or edit the existing note.

2.7.3 The **F9** note function also incorporates a few fixed fields. Figure 2-6 shows the **F9 NOTE** screen. These fixed fields allow the analyst to attach attributes to the note. The three attributes that an analyst may attach to the note are the **CRITICALITY RATING**, **ACTION DATE** and an **ACTION OFFICE**. The three ratings available to the analyst are **CRITICAL**, **ROUTINE** and **NO ACTION**. It is mandatory for the analyst to attach a criticality rating to a note.

The screenshot displays a terminal window with a title bar at the top containing the date '04/18/91', the program name '303.2.11 - BATTLE DAMAGE ASSESSMENT AND REPAIR', and the time '8:14 am'. Below the title bar, the text 'EQUIPMENT TYPE: COMBAT' and 'SUBSYSTEM AND COMPONENT IDENTIFICATION' is shown. The main content area is titled 'SPECIAL MEMORANDUM' and contains a box with the following information: 'CRITICALITY RATING: CRITICAL', 'ACTION DATE: 04/18/91', and 'ACTION OFFICER: G. Chernowitz'. Below this box, a 'Notes:' section contains the text: 'We have not yet received the complete set of Technical Specifications. The analysis cannot proceed without them.' At the bottom of the screen, a menu bar lists several options: 'F1-HELP', 'F2-NEW NOTE', 'F5-EDIT', 'F6-PRINT', 'Esc-QUIT', and 'Menu'.

04/18/91	303.2.11 - BATTLE DAMAGE ASSESSMENT AND REPAIR	8:14 am
EQUIPMENT TYPE: COMBAT SUBSYSTEM AND COMPONENT IDENTIFICATION		
SPECIAL MEMORANDUM		
CRITICALITY RATING: CRITICAL ACTION DATE: 04/18/91 ACTION OFFICER: G. Chernowitz		
Notes: We have not yet received the complete set of Technical Specifications. The analysis cannot proceed without them.		
F1-HELP	F2-NEW NOTE	F5-EDIT F6-PRINT Esc-QUIT Menu

FIGURE 2-6: F9-NOTE

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2.7.4 The F9 NOTE function also incorporates **HELP**. There are two types of **HELP** available to the user in this note function - **PROCESS METHODOLOGY** and **SOFTWARE GUIDANCE**. A detailed explanation of the types of **HELP** incorporated in the software appears in the individual LSA User's Manual

TO ADD/EDIT DATA

To use the F9 NOTE function
Press <F9>

The F9 NOTE screen overlays on the existing screen

To Add/Edit data on this screen
Press <F5>

SELECT CRITICALITY RATING

A look-up window containing the three criticality ratings appears on the screen. Use the **UP-DOWN Arrow** keys to move the highlight bar to the desired criticality rating (Figure 2-7).

Press <ENTER>The cursor then moves to the **ACTION DATE** field

Type in the <DATE>The cursor then moves to the **ACTION OFFICE** field

Type in the <ACTION OFFICE>

To save data entered in the memo header
Press <F10>

The cursor then moves to the memo field. The analyst may type in any data in a narrative form into the memo field. The memo field works as a full text word processor.

To save data entered into the memo field
Press <F10>

2.7.5 The user has a number of options available to output and review data entered on this screen.

EXECUTIVE INSTALLING AND OPERATING ALSAT 2-13

04/18/91 303.2.11 - BATTLE DAMAGE ASSESSMENT AND REPAIR 8:14 am

EQUIPMENT TYPE: COMBAT
SUBSYSTEM AND COMPONENT IDENTIFICATION

SPECIAL MEMORANDUM

CRITICALITY RATING: CRITICAL ACTION DATE: 04/18/91
ACTION OFFICER: G. Chernowitz

CRITICALITY RATING
CRITICAL
ROUTINE
NO ACTION

not yet received the complete set of Technical
cations. The analysis cannot proceed without them.

F1-He Navigate with <↑↓> Select with <←→> Menu

FIGURE 2-7: EDIT F9-NOTE CRITICALITY RATING

2.7.6 To review the data entered in the memo field, the user may have to resort to scrolling.

To scroll the screen
Press <F4>

2.7.7 The data on this screen can be output to three devices - SCREEN, PRINTER and DISK.

To produce an output report
Press <F6>

2.7.8 When F6 is pressed the program generates the report, then the user is prompted to select an output device.

2.7.9 To view the report on the screen
Use the arrow keys to highlight the SCREEN option in the box
Press <ENTER>

2.7.10 To send the report to the printer
Use the arrow keys to select the PRINTER option in the box

SELECT
OUTPUT
DESTI-
NATIONS

EXECUTIVE INSTALLING AND OPERATING ALSAT 2-14

Press **<ENTER>**

2.7.11 To save the report to a disk file
Use the arrow keys to select the DISK option in the box
Press **<ENTER>**

Specify Path - Drive Name\Directory\Subdirectory\
File Name and Extension, e.g.,
C:\LSA\REPORTS\STATREP1.BDR

2.7.12 To start a NEW NOTE
Press **<F2>**

NOTE

The user is cautioned that starting a new note erases the old one. The analyst should save the old note to a disk or output a hard copy of the old note if this option is used. The software also displays an error message to this effect.

2.7.13 To exit to the MAIN MENU from this Submodule
Press **<ESC>**

2.8 TASK/SUBTASK SUMMARY AND STATUS SCREEN

2.8.1 The Subtask Summary and Status Submodule is a separate entity by itself. It has no effect on the performance of the analysis. There is one record for each EQUIPMENT-LSA TASK/SUBTASK combination. The Submodule can only be accessed by a user with a MANAGER level access status.

EXECUTIVE INSTALLING AND OPERATING ALSAT 2-15

SUBTASK SUMMARY AND STATUS

2.8.2 The purpose of this Submodule is to allow the Program Manager or analyst to input comments regarding progress and/or the performance of the task. The Submodule may also be used to address any areas which require special attention. It provides the user with a memo field for comments on the analysis and its effect on program status.

CRITICALITY RATING OPTIONS

2.8.3 The analyst is also provided the opportunity to enter an overall assessment on the performance of the LSA Subtask for the equipment. The analyst may record areas which are critical and allocate a final criticality rating to the task. Three criticality ratings are available to the user. These are **RED**, **AMBER** and **GREEN**. This submodule cannot be accessed through any of the other submodules under the main LSA Task/Subtask module.

TO ADD/EDIT DATA

From the **MAIN MENU** select **SUBTASK SUMMARY AND STATUS**.

Use the **UP-DOWN Arrow** keys to move the highlight bar. Highlight the **SUBTASK SUMMARY AND STATUS** option.
Press **<ENTER>**

Figure 2-8 displays the **SUBTASK SUMMARY AND STATUS** screen.

If there is no data in the database, the user is presented with blank fields on the screen. If there is data, the screen presents the existing data.

The user may add data to the screen or edit the existing data.

To perform either option
Press **<F5>**

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04/18/91 303.2.11 - BATTLE DAMAGE ASSESSMENT AND REPAIR 8 11 am

EQUIPMENT TYPE: COMVAT
Task/Subtask Summary and Status

Rating: GREEN
Action Office: APJ-Ridgefield Action Date: 04/15/91

Battle Damage Assessment and Repair on the COMVAT has been completed.
Reports have been distributed to the respective agencies.

F1-Help F4-Scroll Screen F5-Add/Edit F6-Print Esc-Quit to Menu
Select Appropriate Function Key

FIGURE 2-8: TASK/SUBTASK SUMMARY AND STATUS SCREEN

A look-up window containing the three criticality ratings appears on the screen (Figure 2-9).

Use the highlight bar to select the required rating
Press **<ENTER>**

The cursor moves over to the **ACTION DATE** field.
Type in the **<DATE>**

The selected date should be the date by which action is required to be taken on the note. It is not mandatory to enter any action date.

The cursor then moves over to the field marked **ACTION OFFICE**. It is not mandatory to fill in the Action Office name.
Type in the name of the **<ACTION OFFICE>**

Before moving to the memo field the analyst is prompted to save the data entered in the memo header.

EXECUTIVE INSTALLING AND OPERATING ALSAT 2-17

04/18/91 303.2.11 - BATTLE DAMAGE ASSESSMENT AND REPAIR 6:11 am

EQUIPMENT TYPE: COMBAT
Task/Subtask Summary and Status

Rating: GREEN
Action Office: APJ-Ridgefield

Criticality Rating /15/91

Battle Damage Assessment and Repair on the Reports have been distributed to the respec

RED
AMBER
GREEN

completed.

F1-Help Navigate with <↑↓> Select with <←→> Quit with <Esc>
Select Appropriate Criticality Rating

FIGURE 2-9: EDIT CRITICALITY RATING

To save the data
Press <F10>

The cursor then moves to the memo field

The analyst may add to the existing memo or edit the data on the screen. If there is no data the analyst may enter fresh data on to the screen.

Press <F10> to save data entered into the memo field

2.8.4 The user has a number of options available to output and review data entered on this screen.

2.8.5 To review the data entered into the memo field the user may have to resort to scrolling.

To scroll the screen
Press <F4>

2.8.6 The data on this screen can be output to three devices - SCREEN, PRINTER and DISK.

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To produce an output report
Press **<F6>**

2.8.7 When F6 is pressed the program generates the report, then the user is prompted to select an output device.

2.8.8 To view the report on the screen
Use the arrow keys to highlight the **SCREEN** option in the box
Press **<ENTER>**

2.8.9 To send the report to the printer
Use the arrow keys to select the **PRINTER** option in the box
Press **<ENTER>**

2.8.10 To save the report to a disk file
Use the arrow keys to select the **DISK** option in the box
Press **<ENTER>**

Specify Path - Drive Name\Directory\Subdirectory\
File Name and Extension, e.g.,
C:\LSA\REPORTS\SUMSTAT1.BDR

2.9 EXITING A TASK OR SUBTASK

2.9.1 When you have finished working on a Task or Subtask move the highlight bar to the option marked **Exit** on the Task/Subtask menu
Press **<ENTER>**

2.9.2 The software prompts the user to confirm whether the Task or Subtask may be marked as having been completed (Figure 2-10)

**MARKING
TASK/
SUBTASK AS
COMPLETE**

If Task or Subtask is not completed
Select **<NO>**
Press **<ENTER>**

If Task or Subtask is completed
Select **<YES>**
Press **<ENTER>**

EXECUTIVE INSTALLING AND OPERATING ALSAT 2-19

The screenshot shows a terminal window with the following content:

05/21/91 303.2.11 - BATTLE DAMAGE ASSESSMENT AND REPAIR 10 09 am

EQUIPMENT TYPE: 81 MM MORTAR

Scheduled Start Date: 01/10/91 Scheduled Finish Date: 02/28/91

Is Subtask 303.2.11 Completed?

NO YES

RETURN TO LSA MAIN MENU

F1 For Instructions Navigate with <↑↓> Select with <→>

FIGURE 2-10: EXIT LSA TASK/SUBTASK MODULE

To generate reports

Use the **LEFT-RIGHT Arrow** keys to move the highlight bar

Select **<OPERATIONS>**

Press **<ENTER>**

Use the **UP-DOWN Arrow** keys to move the highlight bar

Select **<REPORTS>**

Press **<ENTER>**

USING ALSAT TO GENERATE REPORTS

Use the **UP-DOWN Arrow** keys to move the highlight bar

Select **<REQUIRED TASK>**

Press **<ENTER>**

Use the **UP-DOWN Arrow** keys to move the highlight bar

Select **<REQUIRED SUBTASK>**

Press **<ENTER>**

The Task or Subtask Reports menu appears at this stage

EXECUTIVE INSTALLING AND OPERATING ALSAT 2-20

For a detailed description on the use of a specific Task or SubTask consult the appropriate manual

MANAGEMENT

This option is only accessible by a user with a **Manager** level status. Details on the use of this option can be found in Chapters 3 through 5 of this manual..

USING ALSAT FOR MANAGE- MENT CONTROL

Use the **LEFT-RIGHT Arrow** keys to move the highlight bar
Select **<MANAGEMENT>**
Press **<ENTER>**

Use the **UP-DOWN Arrow** keys to move the highlight bar
Select **<REQUIRED OPTION>**
Press **<ENTER>**
Refer to the appropriate chapter in this manual for further explanation

CONCEPT

This option is accessible by all users.

ALSAT CONCEPT

Use the **LEFT-RIGHT Arrow** keys to move the highlight bar
Select **<CONCEPT>**
Press **<ENTER>**

A text screen is presented which describes the concept behind the development of the ALSAT. The first time user is advised to read through this screen before commencing to use the software.

INSTRUCTIONS

This option is accessible by all users.

INSTRUCTION

Use the **LEFT-RIGHT Arrow** keys to move the highlight bar

EXECUTIVE INSTALLING AND OPERATING ALSAT 2-21

Select **<INSTRUCTIONS>**
Press **<ENTER>**

A text screen is presents generalized instructions on the use of the software. For more detailed information on the use of a specific LSA module the user is advised to read the instruction screen within each module and refer to the manual for the Task or Subtask.

EXIT

This option allows the user to exit the software and return to DOS.

LEAVING ALSAT

Use the **LEFT-RIGHT Arrow** keys to move the highlight bar

Select **<EXIT>**
Press **<ENTER>**

The program asks the user to confirm the selection (Figure 2-11)

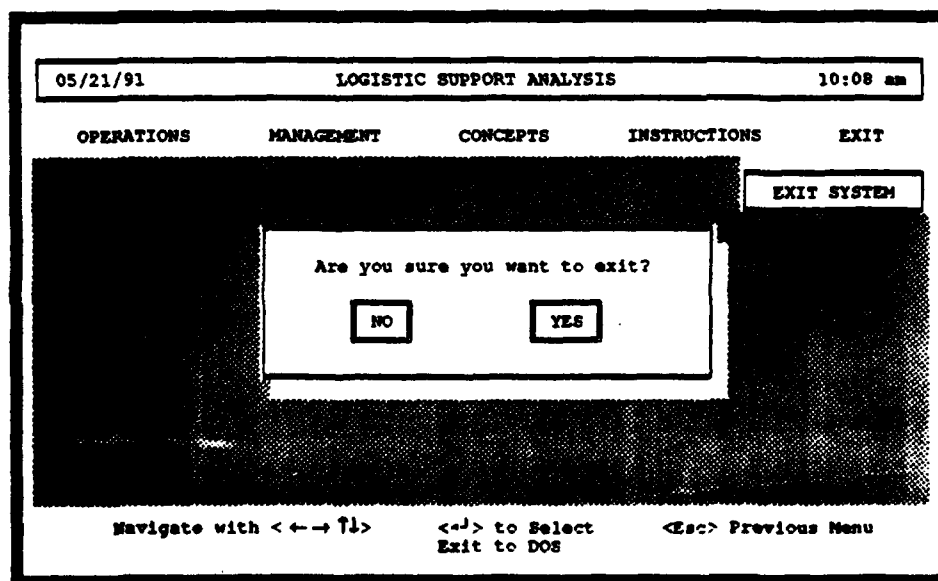


FIGURE 2-11: EXIT LSA SYSTEM

EXECUTIVE INSTALLING AND OPERATING ALSAT 2-22

Use the **LEFT-RIGHT** Arrow keys to highlight the
either **YES** or **NO**
Press **<ENTER>**

The user is returned to DOS when the program ia
exited.

CHAPTER 3 UTILITIES

3.1 INTRODUCTION

3.1.1 The Management Module has primarily been developed for use by Program/ILS Managers and other designated supervisors responsible for assuring that Tasks and Subtasks get assigned, performed and completed within specified scheduled dates. All other users, however, will have access only to the Utilities Submodule within the Management Module. This will allow them to recover corrupted files, pack text files and select the output device to be used for hard copy reports.

MANAGE-
MENT
MODULE

3.1.2 The Module itself is designed to be very user friendly. The user is provided with On-Line Help and Look-Up Screens to facilitate data entry. The use of this manual will lead the Management User through that portion of the LSA software designed to provide reports on Task and Subtask status and ensure data integrity and security of the system.

NOTE

Applicable portions of this Chapter have been reproduced verbatim in Chapter 4 and Chapter 5. This will make the chapters dealing with the Submodules self contained and will facilitate use of this manual.

3.1.3 This volume of the User's Manual has been designed for use with the **Executive** of the Software. It specifically deals with the **Installation Procedures** and the use of the **Management Module**. The **Management Module** is divided into three parts: Chapter 3 describes the use of the **Utilities Submodule**, Chapter 4 describes the use of the **Housekeeping Submodule**, and Chapter 5 deals with the use of the **Management Reports Submodule**.

3.2 EXECUTIVE MENU SCREEN

EXECUTIVE MENU

3.2.1 The analyst Logs into the system using the Analyst ID and Password. The user then selects the Equipment on which the analysis is to be performed. A detailed description of the Log-In procedures is provided in Chapter 2 of this manual.

3.2.2 Once the Log-In procedures are successfully completed the **Executive Menu Screen** (Figure 3-1) is presented on the screen.

3.2.3 The **Executive Menu** screen allows the user to select one of five options. These are:

OPERATIONS

Operations - The user may select a Task or Subtask and perform the Logistics Support Analysis or generate reports for the selected Equipment (Refer to individual LSA Task or Subtask User's Manual for a detailed discussion).

MANAGE- MENT

Management - Allows the user to enter the Management Module and make use of the **Utilities**, **Housekeeping** or **Management Reports** facilities (Refer Chapters 3 through 5 of this manual for a detailed discussion).

CONCEPT

Concept - The user is able to view a text screen which describes the concept behind the development of the Automated Logistic Software Analysis Tool (ALSAT).

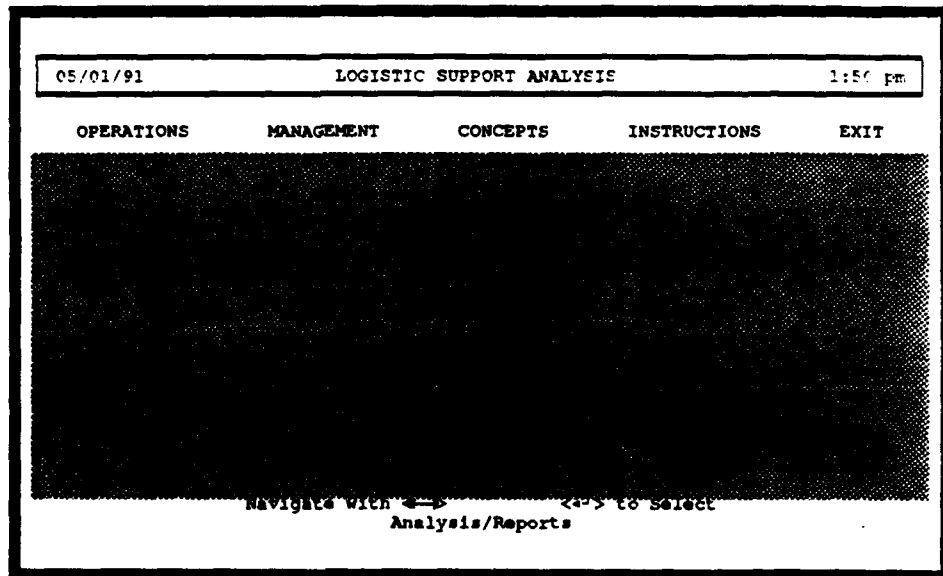


FIGURE 3-1: EXECUTIVE MENU SCREEN

INSTRUCTION

Instructions - The user is able to view a text screen which provides general instructions on the use of the software.

EXIT

Exit - The user may exit the software by selecting this option.

3.3 MANAGEMENT MODULE**MANAGEMENT
MODULE
OPTIONS**

3.3.1 The **Management Module** comprises three facilities to assist in managing and controlling the LSA program (Figure 3-2). The three management facilities available to the users are:

Utilities
Housekeeping
Management Reports

UTILITIES

3.3.2 **Utilities** - This option is available to all classes of users, and refers to the utilities provided to allow users to **Re-index**, **Pack Text Files** and **Select Output Device**. The three choices

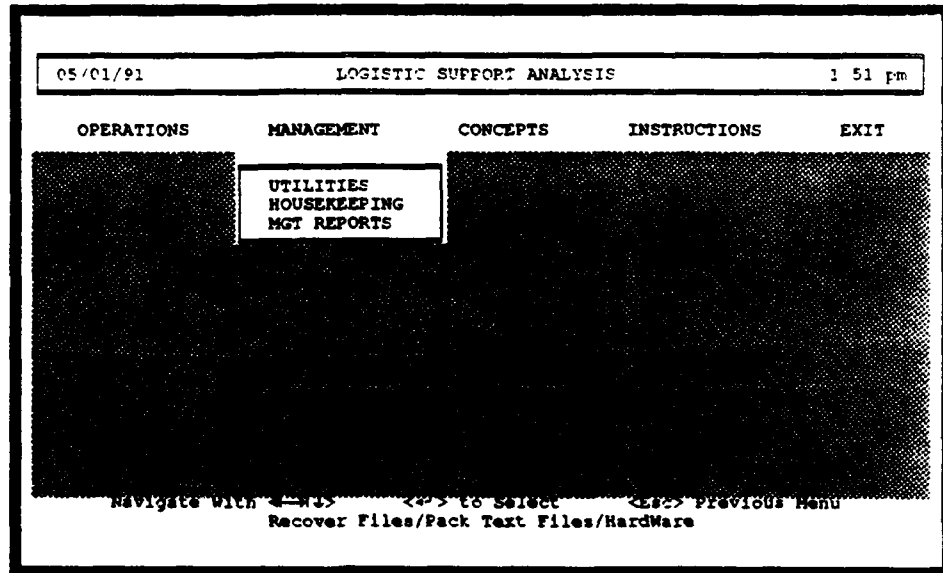


FIGURE 3-2: MANAGEMENT MODULE MENU SCREEN

permit the user to recover from a broken chain of related data in the databases; to pack databases eliminating deleted records and extra space required by text files, and to select appropriate print devices.

HOUSE-KEEPING

3.3.3 Housekeeping - This option is available for use only by a user with a **Manager status**. It allows the management user to establish or change task parameters (i.e., scheduled start and finish dates and criticality); to modify user status and details, and to modify details of the Equipments that may be analyzed using the software.

MANAGEMENT REPORTS

3.3.4 Management Reports - This choice is also for use only by a user with **Manager status**. It allows the management user to generate reports on all or some of the Tasks and Subtasks for summarization as to status and criticality.

TO ENTER THE MANAGEMENT MODULE

USE MANAGE- MENT MODULE

Follow procedures outlined in Chapter 2, to Log-In and **SELECT THE EQUIPMENT** you wish to analyze

On the **Executive Menu Screen**

Use the **LEFT-RIGHT Arrow** to move the highlight bar to **MANAGEMENT**

Press **<ENTER>**

3.4 MANAGEMENT SUB-MENU

MANAGE- MENT SUB- MENU

The **Management Sub-Menu** contains three options (Figure 3-2):

- Utilities
- Housekeeping
- Management Reports

The three options are dealt with individually in separate chapters. The preceding material is verbatim to facilitate use of the manual.

3.5 UTILITIES SUBMODULE

UTILITY OPTIONS

3.5.1 The **Utilities Submodule** has three choices available to all users of the software (Figure 3-3). These options are:

- Recover Files
- Pack Text Files
- Hardware

RECOVER FILES

3.5.2 **Recover Files** - Database files occasionally get corrupted due to inadvertent interruptions in program execution, file transfers and a host of other causes. Further, when data is marked for deletion, it may still exist in the database. For these reasons, a database file must be periodically re-indexed and packed.

3.5.3 The **Recover Files** facility re-indexes the data base files and packs them so that the

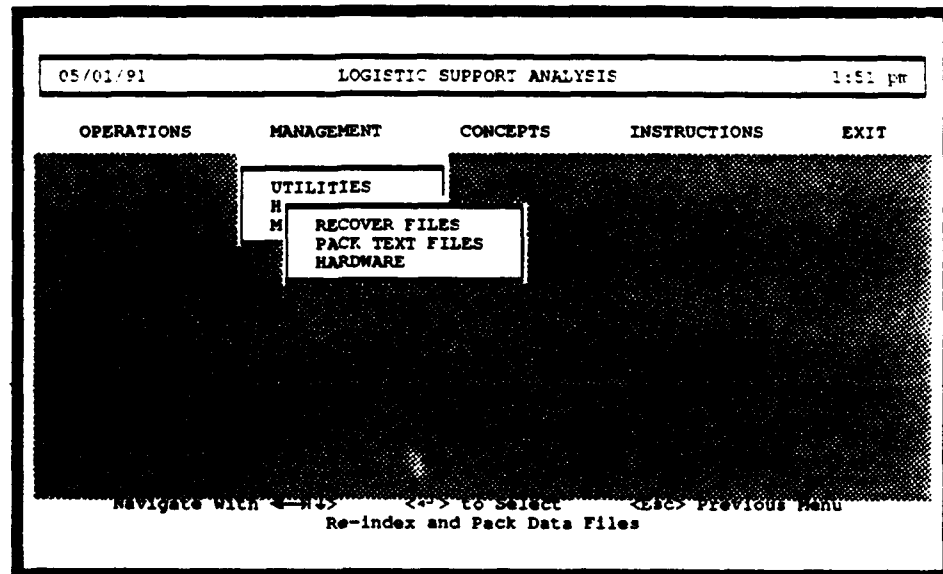


FIGURE 3-3: UTILITIES SUBMODULE MENU SCREEN

databases are maintained in good order and all records marked for deletion are removed, thereby optimizing disk space.

3.5.4 The user has the option to specify the LSA Task or Subtask files that need re-indexing and packing.

3.5.5 When the program executes this facility, a continuous display of the files being recovered is made available to the user.

3.5.6 **Pack Text Files** - Every database file (*.DBF) with a memo field in it has an associated *.DBT file. Every time new data is put into the memo fields, it replaces the old data in this field. However, the old data still continues to occupy disk space although it is never presented to the user as current data.

PACK TEXT FILES

3.5.7 The **Pack Text Files** facility removes this old data from the *.DBT files, thus conserving disk space.

3.5.8 The program continuously displays the names of the files being packed during execution.

**PRINTER
SELECTION**

3.5.9 **Hardware** - This utility option allows the user to select the printer device from a list, to be used to output reports from the software. It also permits the user to specify formatting parameters, e.g., number of lines per page and the left and right margins.

3.5.10 The Logistics Support Analysis Software supports a variety of printer types. The user has the option of selecting from one of the following types of printers:

**AVAILABLE
PRINTER
DRIVERS**

Epson E/F/J/RX/LQ
HP Laser Jet
IBM Proprinter
Panasonic KX-P1091
TI 850/855

3.5.11 The user is limited in the selection of formatting parameters to:

**REPORT
FORMAT
SPECI-
FICATIONS**

Number of Lines per Page 0-65
Top Margin 0-30 lines
Left Margin 0-09 spaces

TO USE THE UTILITIES SUBMODULE

Use the UP-DOWN Arrow keys to move the highlight bar onto the UTILITIES option
Press <ENTER>

The Utilities submenu is shown in Figure 3-3

TO USE THE RECOVER FILES OPTION

Use the UP-DOWN Arrow keys to move the highlight bar to RECOVER FILES
Press <ENTER>

The list of Tasks and Subtasks appears on the screen (Figure 3-4)

The screenshot shows a terminal window titled "LOGISTIC SUPPORT ANALYSIS" with a date of "05/01/91" and a time of "1 53 pm". The main menu includes "OPERATIONS", "MANAGEMENT", "CONCEPTS", "INSTRUCTIONS", and "EXIT". The "UTILITIES" menu is highlighted, showing options "H" (RECOVER FILES) and "M" (PACK TEXT FILES). The "RECOVER FILES" option is selected, leading to a screen titled "[LSA TASK/SUBTASK]". This screen lists tasks and subtasks with checkboxes for selection:

☒ 101	DEVELOPMENT OF EARLY LSA STRATEGY
☒ 301.2.1/2	NEW EQUIPMENT FUNCTIONAL REQUIREMENTS
☒ 301.2.3	IDENTIFICATION OF FUNCTIONAL REQUIREMENT RISKS
301.2.4.1	FAILURE MODES, EFFECTS AND CRITICALITY ANALYSIS (FMECA)
301.2.4.2	RELIABILITY CENTERED MAINTENANCE (RCM)
301.2.4.3	OPERATIONS AND OTHER FUNCTIONAL REQUIREMENTS ANALYSIS
301.2.5	DESIGN ALTERNATIVES
302.2.1/2	ALTERNATIVE SUPPORT CONCEPTS
302.2.3/4	ALTERNATIVE EQUIPMENT SUPPORT PLANS
More.....	

Navigation instructions at the bottom:

- Navigate with <↑↓, Home, End, PgUp, PgDn> Finish with <F10>
- Select/Unselect Item with <+J> Select/Unselect all with <SHIFT+F10>
- Select LSA Task/Subtask to Re-Index

FIGURE 3-4: SELECT LSA TASK/SUBTASK FOR FILE RECOVERY/PACKING

Use the UP-DOWN Arrow keys to highlight the Task or Subtask containing files that have to be recovered
Press <ENTER>

Repeat the above step for each Task and Subtask

To recover files of all Tasks and Subtasks
Press <SHIFT+F10>

When you have finished marking the Tasks and Subtasks containing files that have to be recovered
Press <F10>

The program begins to recover the files

**RECOVER
DATABASE
FILES**

Figure 3-5 displays the working of the LSA software as each file is being re-indexed and packed by the program

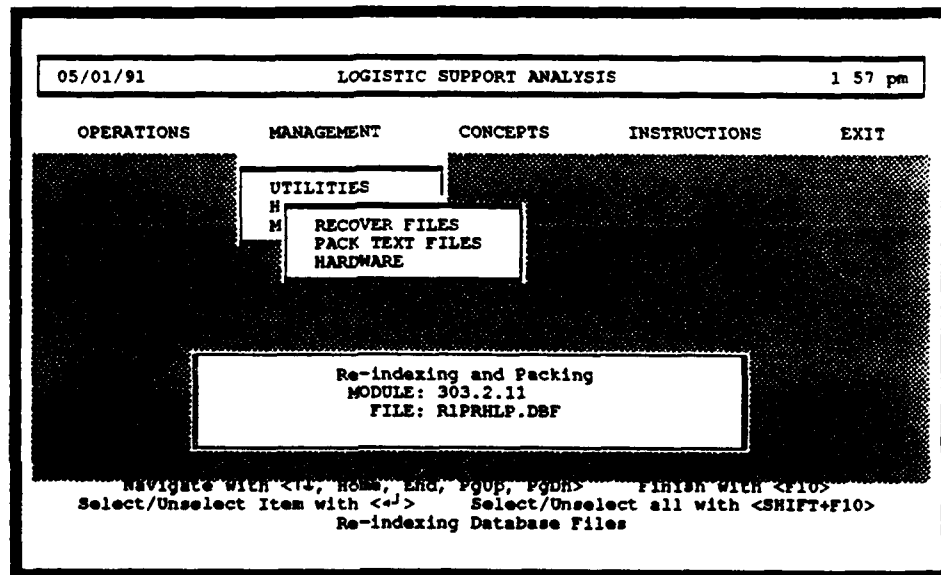


FIGURE 3-5: RE-INDEXING DATABASE FILE

TO USE THE PACK TEXT FILES OPTION

Use the UP-DOWN Arrow keys to move the highlight bar to **PACK TEXT FILES**
Press <ENTER>

**PACK*.DBT
FILES**

The list of Tasks and Subtasks appears on the screen (Figure 3-4)

Use the UP-DOWN Arrow keys to highlight the Task or Subtask containing text files that need to be packed
Press <ENTER>

Repeat the above step for each Task and Subtask with text files that are to be packed

NOTE

The Pack Text Files option removes old data from the *.DBT files thereby conserving disk space

To select all Tasks and Subtasks
Press <SHIFT+F10>

Having finished marking the Tasks and Subtasks containing text files that need to be packed
Press <F10>

Figure 3-6 displays the working of the LSA software as each file is being re-indexed and packed by the program

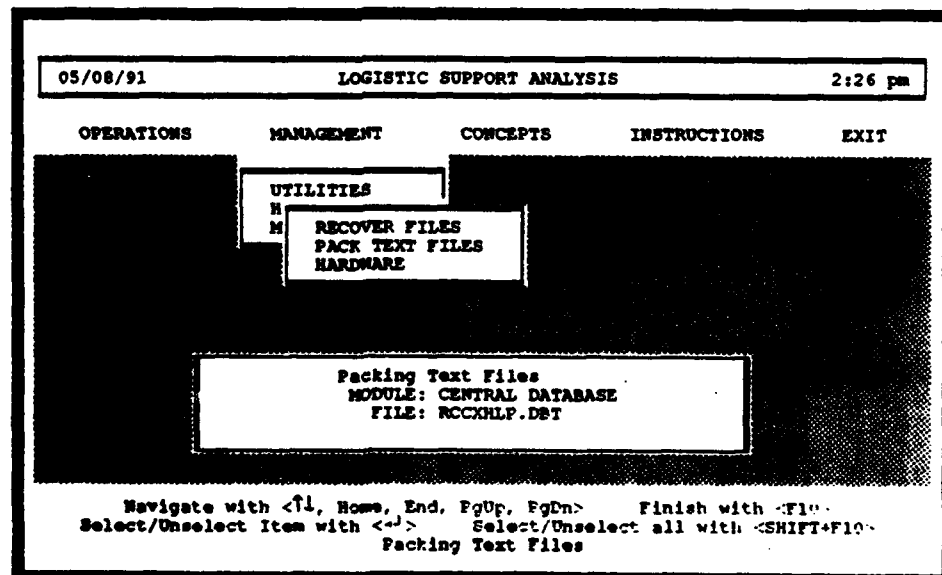


FIGURE 3-6: PACKING TEXT FILES

TO USE THE HARDWARE OPTION

This Submodule allows the user to set the default printer setting from the available printer drivers

Use the UP-DOWN Arrow keys to move the highlight bar to **HARDWARE**
Press <ENTER>

SELECTING PRINTER DEVICE

A look-up window appears on the screen containing the list of printer drivers supported by the software (Figure 3-7)

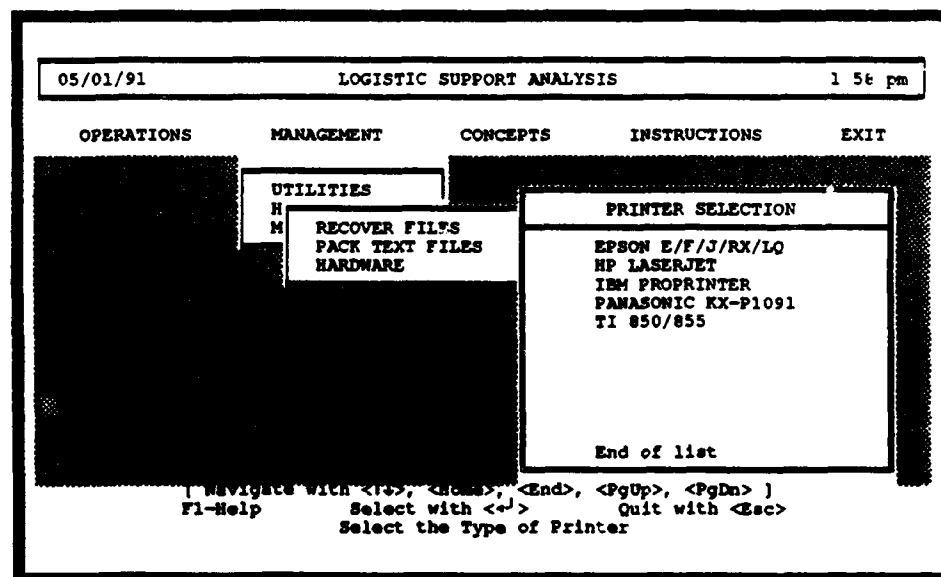


FIGURE 3-7: PRINTER SELECTION

Use the UP-DOWN Arrow keys to move the highlight bar to the desired printer
Press <ENTER>

A second look-up window appears on the screen where the format specifications have to be selected (Figure 3-8)

05/01/91 LOGISTIC SUPPORT ANALYSIS 1:58 pm

OPERATIONS MANAGEMENT CONCEPTS INSTRUCTIONS EXIT

UTILITIES
H
M

RECOVER FILES
PACK TEXT FILES
HARDWARE

PRINTER SELECTION

Printer: IBM PROPRINTER

Lines per page: 55
Top Margin: 6
Left Margin: 8

F1-Help F1-Prev/Next Field F10-Save Esc-Abort
Set Margin and Page Length

FIGURE 3-8: REPORT FORMAT PARAMETERS

NOTE

The user is limited in the selection of formatting parameters to:

Number of Lines per Page	0-65
Top Margin	0-30 lines
Left Margin	0-09 spaces

Type in <NUMBER OF LINES PER PAGE>
Press <ENTER>

Type in <TOP MARGIN>
Press <ENTER>

Type in <LEFT MARGIN>
Press <ENTER>

CHAPTER 4 HOUSEKEEPING

4.1 INTRODUCTION

4.1.1 The **Management Module** has primarily been developed for use by Program/ILS Managers and other designated supervisors responsible for assuring that Tasks and Subtasks get assigned, performed and completed within specified scheduled dates. All other users, however, will have access only to the Utilities Submodule within the Management Module. This will allow them to recover corrupted files, pack text files and select the output device to be used for hard copy reports.

**MANAGE-
MENT
MODULE**

4.1.2 The Module itself is designed to be very user friendly. The user is provided with **On-Line Help** and **Look-Up Screens** to facilitate data entry. The use of this manual will lead the Management User through that portion of the LSA software designed to provide reports on Task and Subtask status and ensure data integrity and security of the system.

NOTE

Applicable portions of this Chapter have been reproduced verbatim in Chapter 3 and Chapter 5. This will make the chapters dealing with the Submodules self contained and will facilitate use of this manual.

4.1.3 This volume of the User's Manual has been designed for use with the **Executive Shell** of the Software. It specifically deals with the **Installation Procedures** and the use of the **Management Module**. The use of the Management Module is divided into three parts: Chapter 3 describes the use of the **Utilities Submodule**, Chapter 4 describes the use of the **Housekeeping Submodule**, and Chapter 5 deals with the use of the **Management Reports Submodule**.

4.2 EXECUTIVE MENU SCREEN

EXECUTIVE MENU

4.2.1 The analyst Logs into the system using the Analyst ID and Password. The user then selects the Equipment on which the analysis is to be performed. A detailed description of the Log-In procedures is provided in Chapter 2.

4.2.2 Once the Log-In procedures are successfully completed, the **Executive Menu Screen** (Figure 4-1) is presented on the screen.

4.2.3 The **Executive Menu** screen allows the user to select one of five options. These are:

OPERATIONS

Operations - The user may select a Task or Subtask and perform the Logistics Support Analysis, or generate reports for the selected Equipment (Refer to individual LSA Task or Subtask User's Manual for a detailed discussion).

MANAGE- MENT

Management - Allows the user to enter the Management Module and make use of the **Utilities**, **Housekeeping** or **Management Reports** facilities (Refer to Chapters 3 through 5 of this manual for a detailed discussion).

CONCEPT

Concept - The user is able to view a text screen which describes the concept behind the development of the Automated Logistic Software Analysis Tool (ALSAT).

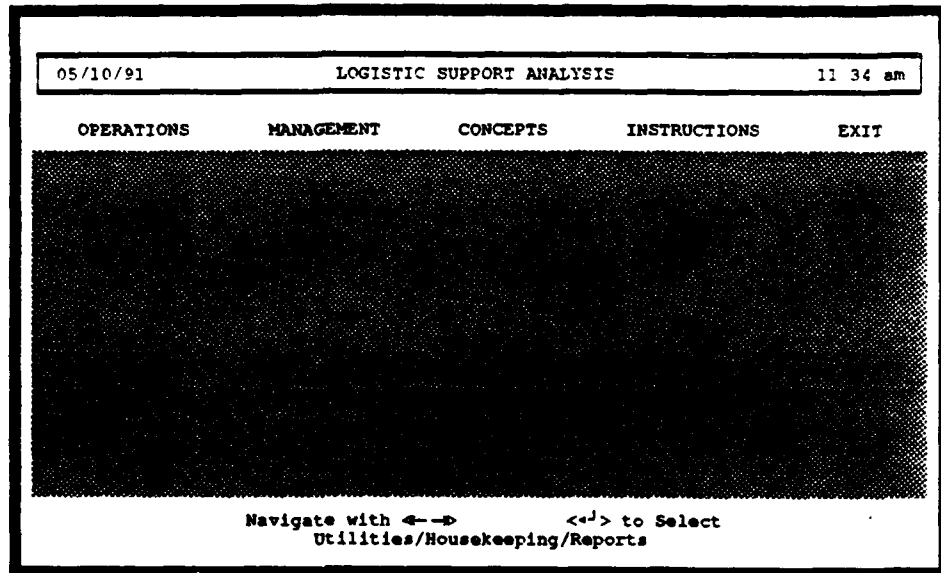


FIGURE 4-1: EXECUTIVE MENU SCREEN

INSTRUCTION

Instructions - The user is able to view a text screen which provides general instructions on the use of the software.

EXIT

Exit - The user may exit the software by selecting this option.

4.3 MANAGEMENT MODULE**MANAGEMENT
MODULE
OPTIONS**

4.3.1 The Management Module comprises three facilities to assist in managing and controlling the LSA program (Figure 4-2). The three management facilities available to the users are:

Utilities
Housekeeping
Management Reports

UTILITIES

4.3.2 **Utilities** - This option is available for use by all classes of users and refers to the utilities provided to allow users to Re-index, Pack Text Files and Select Output Device. The three

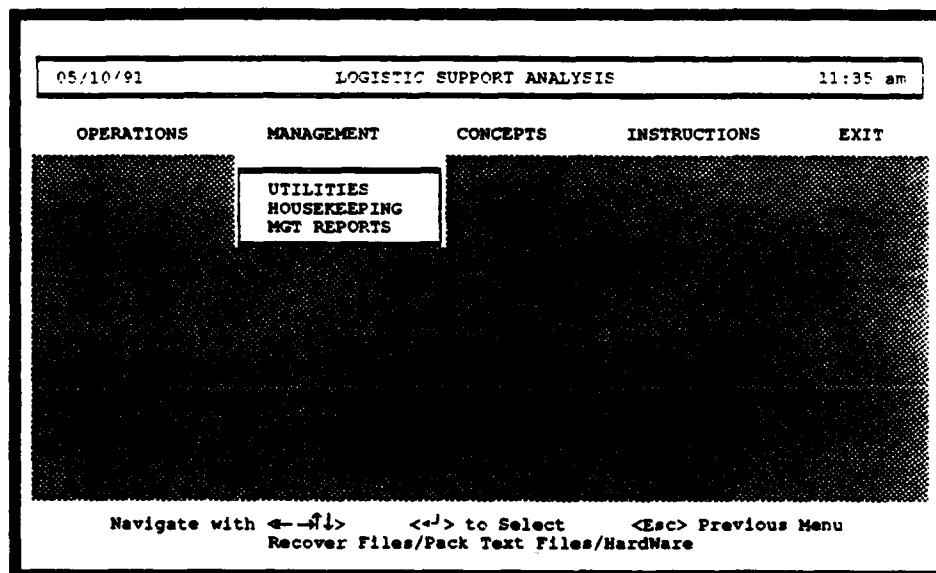


FIGURE 4-2: MANAGEMENT MODULE MENU SCREEN

choices permit the user to recover from a broken chain of related data in the databases; to pack databases eliminating deleted records and extra space required by text files, and to select appropriate print devices.

HOUSE-KEEPING

4.3.3 **Housekeeping** - This option is available for use only by a user with a **Manager status**. It allows the management user to establish or change task parameters (i.e., scheduled start and finish dates and criticality); to modify user status and details, and to modify details of the Equipments that may be analyzed using the software.

MANAGEMENT REPORTS

4.3.4 **Management Reports** - This choice is also for use only by a user with **Manager status**. It allows the management user to generate reports on all or some of the Tasks and Subtasks for summarization as to status and criticality.

TO ENTER THE MANAGEMENT MODULE

USE MANAGE- MENT MODULE

Follow procedures outlined in Chapter 2, to Log-In and **SELECT THE EQUIPMENT** you wish to analyze

On the **Executive Menu Screen**

Use the **LEFT-RIGHT Arrow** to move the highlight bar to **MANAGEMENT**

Press **<ENTER>**

4.4 MANAGEMENT SUB-MENU

MANAGE- MENT SUB- MENU

The **Management Sub-Menu** contains three options (Figure 4-2):

- Utilities
- Housekeeping
- Management Reports

The three options are dealt with individually in separate chapters. The preceding material is reproduced verbatim to facilitate use of the manual.

4.5 HOUSEKEEPING SUBMODULE

HOUSE- KEEPING OPTIONS

4.5.1 The **Housekeeping Submodule** has been designed to allow the **Program/ILS Manager** to set up the **LSA environment**. This Submodule is available only to users who have a **Manager Level Status** in the system. It incorporates three options:

- Task Parameters
- User Status
- Equipment

TASK PARAMETERS

4.5.2 **Task Parameters** - This facility within the **Housekeeping Submodule** allows the **Program Manager** to define a schedule for the performance of **LSA Tasks and Subtasks**. It also allows tailoring of the **Analysis** to suit the acquisition and life cycle phase of a particular weapon system.

4.5.3 To achieve this objective the Program Manager is able to insert **Scheduled Start Date** and the **Scheduled Finish Date** for a particular Task or Subtask. The Program Manager may also tag Tasks or Subtasks that are critical for the weapon system and its life cycle phase.

USER STATUS

4.5.4 **User Status** - This facility allows the **Manager Level** user to **ADD**, **CHANGE** OR **DELETE** users from the LSA System. To use the software, the Analyst ID and Password must exist in the system.

4.5.5 The manager can insert the Analyst ID and Password into the system using this facility. The Analyst ID is a fixed character field. The field width is 4 characters. The Password is also a 5 byte alphanumeric field. The Password is **CASE SENSITIVE**. As such, the user should be careful when entering the password to ensure that the proper case is used.

4.5.6 **ALSAT** incorporates a function to check that the manager has not inadvertently pressed the wrong key while entering a user's password into the system for the first time. The manager is forced to enter the password twice to ensure avoidance of inadvertent errors. Obviously, the password is not presented to the user on the screen and the user cannot backspace if a wrong key is pressed.

4.5.7 The user details are to be entered at the time of Log-In by the user. A detailed description of the fields is given in Chapter 2 of this manual.

**EQUIPMENT
OPTIONS**

4.5.8 **Equipment** - This function within the Housekeeping Submodule allows the **Manager Level User** to **ADD**, **CHANGE** or **DELETE** equipment from the LSA software. The manager is presented with a screen where the equipment details are to be entered.

4.5.9 The various fields on the equipment data screen are shown below, together with field widths and field types:

**EQUIPMENT
DETAILS**

<u>Field Name</u>	<u>Field Type</u>	<u>Field Width</u>
Equipment Name	C	20
<u>Equipment Identification</u>		
Military Nomenclature	C	20
Indenture Level	C	1
Common Name	C	20
National Stock Number	C	20
Manufacturer	C	20
<u>Next Higher Assembly</u>		
Three Levels	C	20
<u>Milestones</u>		
Program	C	20
Development Phase	C	20
Acquisition Management	C	20
<u>Information of Project Manager</u>		
First Name	C	10
Last Name	C	15
Command	C	15
Office Symbol	C	15
Phone Number	C	20
Autovon Phone Number	C	7
<u>Discrepancy Report To</u>		
Name	C	10
Phone	C	7
Command	C	15

TO USE THE HOUSEKEEPING SUBMODULE**HOUSE-
KEEPING**

Use the UP-DOWN Arrow keys to move the highlight bar onto the HOUSEKEEPING option .
Press <ENTER>

The Housekeeping submenu is shown in Figure 4-3

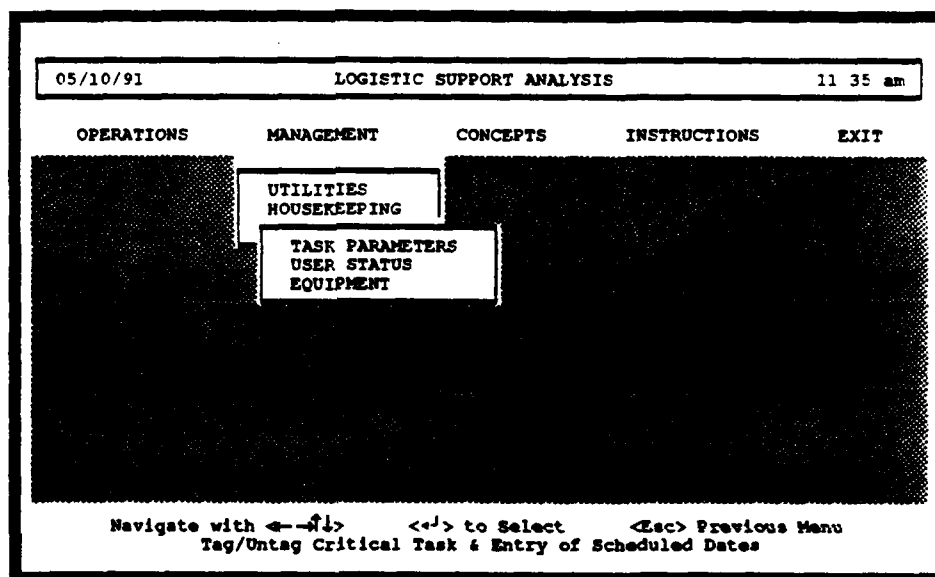


FIGURE 4-3: HOUSEKEEPING SUBMODULE MENU SCREEN

TO USE THE TASK PARAMETERS OPTION

Use the UP-DOWN Arrow keys to move the highlight bar to TASK PARAMETERS
Press <ENTER>

A list of Tasks and Subtasks appears on the screen (Figure 4-4)

Use the UP-DOWN Arrow keys or the PG-UP and PG-DN keys to move the highlight bar to the Task or Subtask for which the Task Parameters have to be Added or Edited.

**TAG/UNTAG
CRITICAL
TASKS**

To TAG or UNTAG a CRITICAL Task or Subtask
Press <SHIFT + F7>

05/10/91		HOUSEKEEPING - TASK PARAMETERS		11 44 am	
EQUIPMENT: 81 MM MORTAR					
TASK NO.	TASK NAME	SCHEDULED DATES		START	FINISH
101	DEVELOPMENT OF EARLY LSA STRATEGY	12/20/90	03/20/91		
301.2.1/2	NEW EQUIPMENT FUNCTIONAL REQUIREMENTS	/ /	/ /		
301.2.3	IDENTIFICATION OF FUNCTIONAL REQUIREMENT	01/14/91	02/28/91		
301.2.4.1	FAILURE MODES, EFFECTS AND CRITICALITY AN	/ /	/ /		
301.2.4.2	RELIABILITY CENTERED MAINTENANCE (RCM)	/ /	/ /		
301.2.4.3	OPERATIONS AND OTHER FUNCTIONAL REQUIREM	/ /	/ /		
301.2.5	DESIGN ALTERNATIVES	/ /	/ /		
302.2.1/2	ALTERNATIVE SUPPORT CONCEPTS	/ /	/ /		
302.2.3/4	ALTERNATIVE EQUIPMENT SUPPORT PLANS	/ /	/ /		
302.2.5	RISK ANALYSIS OF SUPPORT SYSTEM ALTERNAT	/ /	/ /		
303.2.2	SUPPORT SYSTEM ALTERNATIVES TRADE-OFF AN	/ /	/ /		
More.....					

Navigate with <↑↓>, <Home>, <End>, <PgUp>, <PgDn> Exit with <Esc>
 [F1] Help [F5] Change Dates [SHIFT+F7] Tag/Untag Critical Task/Subtask
 • Indicates Critical Task/Subtask

FIGURE 4-4: LSA TASK/SUBTASK ATTRIBUTE SCREEN

SCHEDULED START AND FINISH DATES

To change or enter the SCHEDULED START DATE and the SCHEDULED FINISH DATE

Press <F5>

The highlight bar moves to the SCHEDULED START DATE field

Type in the <SCHEDULED START DATE>

Press <ENTER>

The highlight bar then moves over to the SCHEDULED FINISH DATE FIELD

Type in the <SCHEDULED FINISH DATE>

Press <ENTER>

To return back to the HOUSEKEEPING SUBMENU

Press <ESC>

TO USE THE USER STATUS OPTION

Use the UP-DOWN Arrow keys to move the highlight bar to the USER STATUS option

The **USER STATUS SUBMENU** appears on the screen (Figure 4-5)

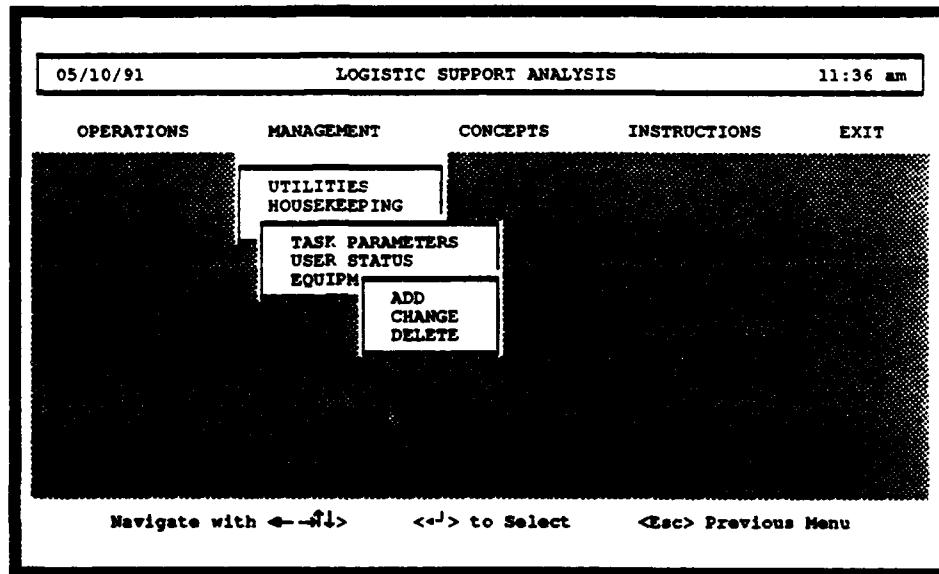


FIGURE 4-5: USER STATUS SUBMENU OPTIONS

TO ADD NEW USER

ADD NEW USER

Use the **UP-DOWN** Arrow keys to highlight the **ADD** option
Press **<ENTER>**

Figure 4-6 displays the **ADD NEW USER SCREEN**

The screen requires the manager to input data into three fields: The **USER IDENTIFICATION CODE**, **USER PASSWORD** and the **USER ACCESS LEVEL**.

Type in the 4 character **<USER IDENTIFICATION CODE>**
Press **<ENTER>**

Type in the 5 character **<USER PASSWORD>**

05/10/91 HOUSEKEEPING - ADD NEW USERS 11 51 am

Enter User Information

Identification Code.....:

Password.....:

Access Level.....:

Please enter new user identification code. Press <Esc> to quit.

FIGURE 4-6: ADD NEW USER**INSERT USER
PASSWORD**

The system prompts you to type in the password a second time to ensure that a wrong key was not inadvertently pressed

Type in, a second time, the 5 character **<USER
PASSWORD>**

The cursor moves over to the **ACCESS LEVEL** field and displays a look up screen containing the two User Access Levels (Figure 4-7)

Use the **UP-DOWN Arrow** keys to move the highlight bar to the appropriate **USER ACCESS LEVEL**
Press **<ENTER>**

To save the data entered, respond to the system prompt
Press **<Y>**
Press **<ENTER>**

If any of the data was erroneously entered and you wish to change it, or you do not wish to save the data entered
Press **<N>**

The screenshot displays a terminal window titled "HOUSEKEEPING - ADD NEW USERS" with a date of "05/10/91" and a time of "1:57 pm". Inside the window, a box prompts the user to "Enter User Information". The fields are filled with: "Identification Code.....: USER", "Password.....: *****", and "Access Level.....:". To the right of the "Access Level" field is a small box containing "MANAGER" and "USER" stacked vertically. Below the information box, a separate box contains the text "Select user access level."

FIGURE 4-7: USER ACCESS LEVELS

Press **<ENTER>**

To enter details of other users, respond to the system prompt

Press **<Y>**

Press **<ENTER>**

If no more users are to be entered into the system, respond to the system prompt

Press **<N>**

Press **<ENTER>**

TO CHANGE USER STATUS

Refer to the **USER STATUS SUBMENU** which is shown in Figure 4-5

Use the **UP-DOWN** Arrow keys to highlight the **CHANGE** option

Press **<ENTER>**

Figure 4-8 displays the **MODIFY USER STATUS SCREEN**

05/10/91 HOUSEKEEPING - CHANGE USER INFORMATION 11:54 am

Enter User Information

Identification Code.....:

Password.....:

Access Level.....:

Analyst ID List
JACK
USER
End of list

Navigate with <↑↓>, <Home>, <End>, <PgUp>, <PgDn>
<←> To select <Esc> To exit without selecting
SELECT USER IDENTIFICATION CODE

FIGURE 4-8: MODIFY USER STATUS

**MODIFY USER
STATUS**

A look-up window appears containing a list of all users in the system

Use the UP-DOWN Arrow keys to highlight the Analyst ID of the user whose status is to be changed
Press <ENTER>

The system prompts the manager to change the password

If the User Password is not to be changed, respond to the prompt
Press <N>
Press <ENTER>

To change USER PASSWORD, respond to the prompt
Press <Y>
Press <ENTER>

Two blank fields appear on the screen against the password

Type in the 5 character **<USER PASSWORD>**

The system prompts you to type in the password a second time to ensure that a wrong key was not inadvertently pressed

Type in, a second time, the 5 character **<USER PASSWORD>**

The cursor moves over to the **ACCESS LEVEL** field and displays a look up screen containing the two User Access Levels (Figure 4-7)

Use the **UP-DOWN Arrow** keys to move the highlight bar to the appropriate **USER ACCESS LEVEL**
Press **<ENTER>**

To save the data entered, respond to the system prompt
Press **<Y>**
Press **<ENTER>**

If any of the data was erroneously entered and you wish to change it, or you do not wish to save the data entered
Press **<N>**
Press **<ENTER>**

To change status of other users, respond to the system prompt
Press **<Y>**
Press **<ENTER>**

If no more changes are to be made to users' status, respond to the system prompt
Press **<N>**
Press **<ENTER>**

TO DELETE USERS FROM THE SYSTEM

Refer to the **USER STATUS SUBMENU** which is shown in Figure 4-5

Use the UP-DOWN Arrow keys to highlight the DELETE option
Press <ENTER>

Figure 4-9 displays the DELETE USER FROM SYSTEM SCREEN

05/10/91 HOUSEKEEPING - DELETE EXISTING USER 11:56 am

Analyst ID List
JACK
USER

End of list

Navigate with <↑↓>, <Home>, <End>, <PgUp>, <PgDn>
<J> To select <Esc> To exit without selecting
SELECT USER IDENTIFICATION CODE

FIGURE 4-9: DELETE USER FROM SYSTEM

A look-up window appears containing a list of all users in the system

DELETE USER

Use the UP-DOWN Arrow keys to highlight the Analyst ID of the user whose Identification Code is to be deleted from the system
Press <ENTER>

The system prompts the manager to confirm that the user is to be deleted from the system

To confirm that the user is to be deleted
Press <Y>

Press <ENTER>

If the user is not to be deleted from the system

Press <N>

Press <ENTER>

To delete other users from the system, respond to the system prompt

Press <Y>

Press <ENTER>

If no more users are to be deleted from the system, respond to the system prompt

Press <N>

Press <ENTER>

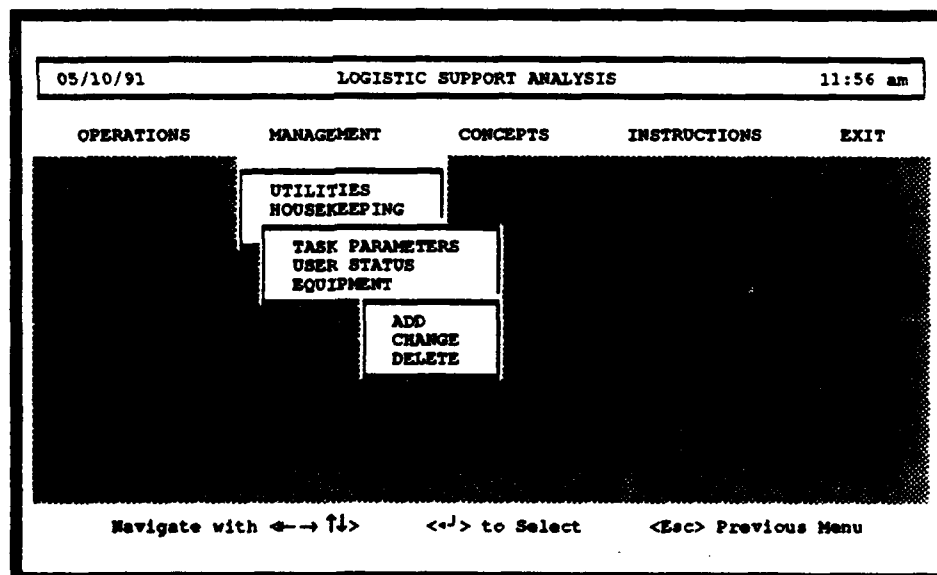


FIGURE 4-10: EQUIPMENT SUBMENU OPTIONS

TO USE EQUIPMENT OPTION

Use the UP-DOWN Arrow keys to move the highlight bar to the EQUIPMENT option

The **EQUIPMENT SUBMENU** appears on the screen (Figure 4-10)

TO ADD NEW EQUIPMENT

Use the **UP-DOWN Arrow** keys to highlight the **ADD** option

Press **<ENTER>**

ADD NEW EQUIPMENT

Figure 4-11 displays the **ADD NEW EQUIPMENT SCREEN**

05/10/91 HOUSEKEEPING - ADD NEW EQUIPMENT 11:57 am

Enter Equipment ID:

Please enter new equipment identification code.
Press <Esc> to exit

FIGURE 4-11: ADD NEW EQUIPMENT

The cursor appears in the **EQUIPMENT ID** field

Type in **<EQUIPMENT IDENTIFICATION>**

Press **<ENTER>**

The **EQUIPMENT IDENTIFICATION** field cannot be left blank

The **EQUIPMENT DETAILS SCREEN** is presented to the manager (Figure 4-12)

05/10/91		HOUSEKEEPING - CHANGE EQUIPMENT INFORMATION		11 58 am	
EQUIPMENT IDENTIFICATION: COMVAT					
Military Nomenclature: N/A		Indenture Level: 1			
National Stock Number: N/A		Common Name: COMVAT		Manufacturer: HONEYWELL	
NEXT HIGHER ASSEMBLY					
FIFV					
MILESTONE					
Program		Development Phase		Acquisition Management	
FIX MOUNT DEMO TEST		6.2 EXPLORATORY		STREAMLINED	
INFORMATION OF PROJECT MANAGER					
First Name: GARY		Last Name: MOSHIER			
Command: AMCCOM		Office Symbol: SMCAR-CCS-C			
Phone Nbr.: 1(201) 724-6944		Autovon Phone Nbr.: 880-6994			
DISCREPANCY REPORT TO					
Name: STEVE TURKE		Phone #: 1(309) 782-7830		Command: AMCCOM	
F1-Help		F10-Save		Esc-Abort	

FIGURE 4-12: ADD/MODIFY EQUIPMENT DETAILS

The cursor appears in the **MILITARY NOMENCLATURE** field

A detailed description of all the fields appears earlier on in this chapter. The manager should complete all the data input fields although it is not mandatory that all fields be completed.

To move the cursor from one field to another use the **UP-DOWN** Arrow keys or Press **<ENTER>**

Once the user goes through all the fields the system prompts the user to save the data entered

To **SAVE** data
Type **<Y>**

Press **<ENTER>**

To enter more new Equipment, respond to the system prompt

Press **<Y>**

Press **<ENTER>**

If no more Equipment are required to be added to the system, respond to the system prompt

Press **<N>**

Press **<ENTER>**

TO CHANGE EQUIPMENT DETAILS

Refer to the **EQUIPMENT SUBMENU** which is shown in Figure 4-9

Use the **UP-DOWN** Arrow keys to highlight the **CHANGE** option

Press **<ENTER>**

A look-up window appears containing the **EQUIPMENT IDENTIFICATION LIST** (Figure 4-13)

Use the **UP-DOWN** Arrow keys to highlight the Equipment ID whose details are to be changed

Press **<ENTER>**

MODIFY EQUIPMENT DETAILS

The **EQUIPMENT DETAILS SCREEN** is presented to the manager (Figure 4-12)

The cursor appears in the **MILITARY NOMENCLATURE** field

A detailed description of all the fields appears earlier on in this chapter. The manager may or may not input data into all the fields on this screen since it is not mandatory to complete all the fields.

To move the cursor from one field to another, use the **UP-DOWN** Arrow keys or

Press **<ENTER>**

Once the user goes through all the fields, the system prompts the user to save the data entered

The screenshot shows a terminal window titled "HOUSEKEEPING - CHANGE EQUIPMENT INFORMATION". The top status bar displays the date "05/10/91" on the left and the time "11 57 am" on the right. The main content area is titled "EQUIPMENT ID" and contains a list of equipment types: "81 MM MORTAR", "COMBAT", "MLA1", and "TANK". Below the list, it says "End of list". At the bottom of the screen, there is a navigation instruction: "Navigate with <↑↓>, <Home>, <End>, <PgUp>, <PgDn> Select with <←>". Below this instruction is the prompt "SELECT EQUIPMENT".

FIGURE 4-13: EQUIPMENT IDENTIFICATION LIST

To **SAVE** data
Type **<Y>**
Press **<ENTER>**

To modify details of other Equipment, respond to the system prompt
Press **<Y>**
Press **<ENTER>**

If no more Equipment details are required to be changed, respond to the system prompt
Press **<N>**
Press **<ENTER>**

TO DELETE EQUIPMENT FROM THE SYSTEM

Refer to the **EQUIPMENT SUBMENU** which is shown in Figure 4-10

Use the **UP-DOWN** Arrow keys to highlight the **DELETE** option
Press **<ENTER>**

A look-up window appears containing the **EQUIPMENT IDENTIFICATION LIST** (Figure 4-13)

**DELETE
EQUIPMENT
FROM SYSTEM**

Use the **UP-DOWN Arrow** keys to highlight the Equipment Identification to be deleted from the system
Press **<ENTER>**

The system prompts the manager to confirm that the Equipment is to be deleted from the system

To confirm that the Equipment is to be deleted
Press **<Y>**
Press **<ENTER>**

If the Equipment is not to be deleted from the system
Press **<N>**
Press **<ENTER>**

To delete other Equipment from the system, respond to the system prompt
Press **<Y>**
Press **<ENTER>**

If no more Equipments are required to be deleted from the system, respond to the system prompt
Press **<N>**
Press **<ENTER>**

CHAPTER 5 MANAGEMENT REPORTS

5.1 INTRODUCTION

5.1.1 The Management Module has primarily been developed for use by Program/ILS Managers and other designated supervisors responsible for assuring that Tasks and Subtasks get assigned, performed and completed within specified scheduled dates. All other users, however, will have access only to the Utilities Submodule within the Management Module. This will allow them to recover corrupted files, pack text files and select the output device to be used for hard copy reports.

5.1.2 The Module itself is designed to be very user friendly. The user is provided with On-Line Help and Look-Up Screens to facilitate data entry. The use of this manual will lead the Management User through that portion of the LSA software designed to provide reports on Task and Subtask status and ensure data integrity and security of the system.

MANAGE-
MENT
MODULE

NOTE

Applicable portions of this Chapter have been reproduced verbatim in Chapter 3 and Chapter 4. This will make the chapters dealing with the Submodules self contained and will facilitate use of this manual.

5.1.3 This volume of the User's Manual has been designed for use with the Executive Shell of the

software. It specifically deals with the Installation Procedures and the use of the Management Module. The use of the Management Module is divided into three parts: Chapter 3 describes the use of the Utilities Submodule, Chapter 4 describes the use of the Housekeeping Submodule, and Chapter 5 deals with the use of the Management Reports Submodule.

5.2 EXECUTIVE MENU SCREEN

EXECUTIVE MENU

5.2.1 The analyst logs into the system using the Analyst ID and Password. The user then selects the Equipment on which the analysis is to be performed. A detailed description of the Log-In procedures is provided in Chapter 2.

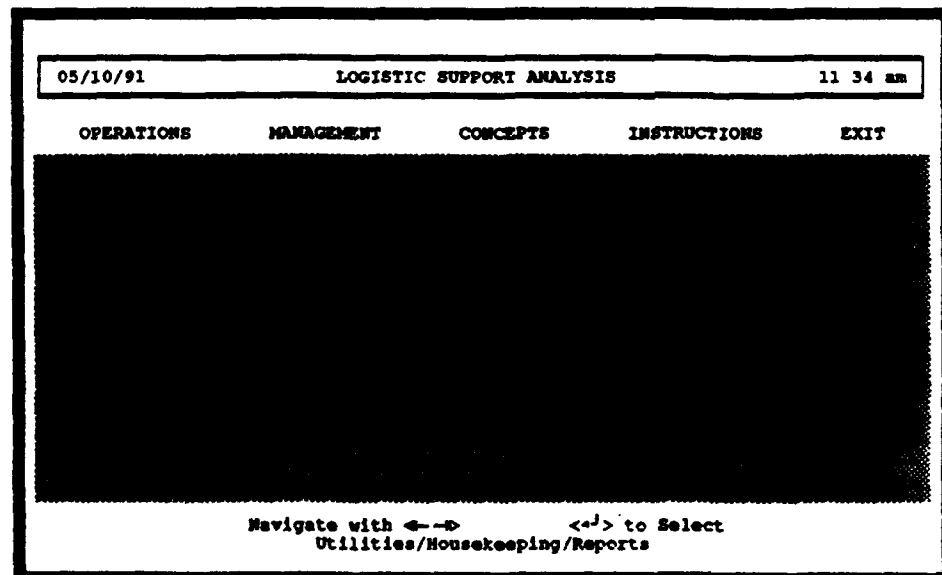


FIGURE 5-1: EXECUTIVE MENU SCREEN

5.2.2 Once the Log-In procedures are successfully completed, the Executive Menu Screen (Figure 5-1) is presented on the screen.

5.2.3 The **Executive Menu** screen allows the user to select one of five options. These are:

OPERATIONS

Operations - The user may select a Task or Subtask and perform the Logistics Support Analysis, or generate reports for the selected Equipment (Refer to individual LSA Task or Subtask User's Manual for a detailed discussion).

**MANAGE-
MENT**

Management - Allows the user to enter the Management Module and make use of the Utilities, Housekeeping or Management Reports facilities (Refer to Chapters 3 through 5 of this for a detailed discussion).

CONCEPT

Concept - The user is able to view a text screen which describes the concept behind the development of the Automated Logistic Software Analysis Tool (ALSAT).

INSTRUCTION

Instructions - The user is able to view a text screen which provides general instructions on the use of the software.

EXIT

Exit - The user may exit the software by selecting this option.

5.3 MANAGEMENT MODULE

**MANAGE-
MENT
MODULE
OPTIONS**

5.3.1 The **Management Module** comprises three facilities to assist in managing and controlling the LSA program (Figure 5-2). The three management facilities available to the users are:

Utilities
Housekeeping
Management Reports

UTILITIES

5.3.2 **Utilities** - This option is available for use by all classes of users and refers to the utilities provided to allow users to Re-index, Pack Text Files and Select Output Device. The three choices permit the user to recover from a broken chain of related data in the databases; to pack

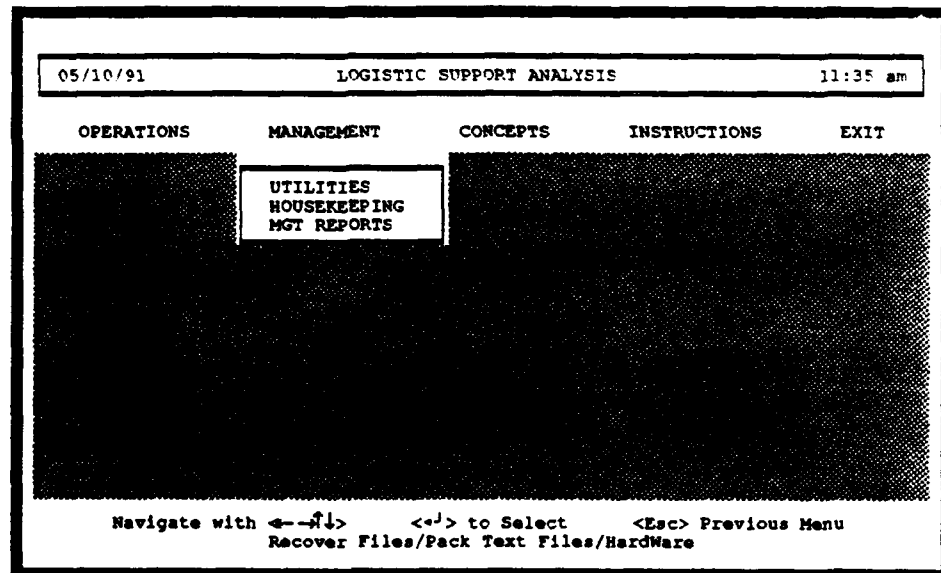


FIGURE 5-2: MANAGEMENT MODULE MENU SCREEN

databases eliminating deleted records and extra space required by text files, and to select appropriate print devices.

HOUSE-KEEPING

5.3.3 **Housekeeping** - This option is available for use only by a user with a **Manager** status. It allows the management user to establish or change task parameters (i.e., scheduled start and finish dates and criticality); to modify user status and details, and to modify details of the Equipments that may be analyzed using the software.

MANAGEMENT REPORTS

5.3.4 **Management Reports** - This choice is also for use only by a user with **Manager** status. It allows the management user to generate reports on all or some of the Tasks and Subtasks for summarization as to status and criticality.

TO ENTER THE MANAGEMENT MODULE

Follow procedures outlined in Chapter 2, to Log-In and **SELECT THE EQUIPMENT** you wish to analyze

**USE MANAGE-
MENT
MODULE**

On the **Executive Menu Screen**
Use the **LEFT-RIGHT Arrow** to move the highlight bar
to **MANAGEMENT**
Press **<ENTER>**

5.4 MANAGEMENT SUB-MENU**MANAGE-
MENT SUB-
MENU**

The **Management Sub-Menu** contains three options
(Figure 5-2):

Utilities
Housekeeping
Management Reports

The three options are dealt with individually in
separate chapters. The preceding material is
reproduced verbatim to facilitate use of the
manual.

5.5 MANAGEMENT REPORTS SUBMODULE**MANAGE-
MENT REPORT
OPTIONS**

5.5.1 The **Management Reports Submodule** within
the **Management Module** is also for use by an analyst
with **Manager level status**. The **Module** generates
reports which enable a manager to control and
maintain an up-to-date status of the **Tasks and**
Subtasks.

5.5.2 The **Automated Logistics Support Analysis**
Tool generates three reports for use by the **Program**
Manager. These are:

Summary LSA Status Report
LSA Status Listing Report
Critical Task/Subtask Status Report

**SUMMARY LSA
STATUS
REPORT**

5.5.3 **Summary LSA Status Report** - This report
provides the **Summary Status Reports** of all selected
Tasks and Subtasks. The module incorporates a
function which allows the manager to specify the
Tasks and Subtasks for which the report is to be
generated.

5.5.4 The report is sub-divided into three sections. The first section contains the report data: The report title, page number, report date and the equipment being analyzed. Section 2 contains the number and name of the Task or Subtask, the name and office of the analyst who last input data into the database, the "As Of" date for the report, the Action Office and the Action Date. Section 3 contains the report rating (**RED**, **AMBER** or **GREEN**) and the report details.

5.5.5 At the end of the report, a Summary sheet records the total number of records requested and generated. The report lists the Tasks or Subtasks whose reports were requested but have no data in them. It also indicates the total number of Tasks and Subtasks in each class of Criticality Rating.

**LSA STATUS
LISTING
REPORT**

5.5.6 **LSA Status Listing Report** - This report contains the report details: Report name, Report Date and Page Number in Section 1 of the report. Section 2 of the report lists the Analyst's Name and Office, Equipment Identification, Equipment Common Name and National Stock Number. Section 3 of the report lists all Tasks and Subtasks, together with their Scheduled Start and Scheduled Finish dates, and records whether these Tasks and Subtasks have been completed.

5.5.7 The report logic compares the Report Date and Scheduled Finish Date for each Task and Subtask. If the Report Date is later than the Scheduled Finish Date, and the Task or Subtask is not marked as finished, it is shown as being behind schedule. The report Summary sheet lists all Tasks and Subtasks behind schedule.

**CRITICAL
TASK/
SUBTASK
STATUS
REPORT**

5.5.8 **Critical Task/Subtask Status** - This report is similar to the LSA Status Listing Report. It contains the report details: Report name, Page Number and Report Date in Section 1 of the report. Section 2 of the report lists the Analyst's Name and Office, Equipment Identification, Equipment Common Name and National Stock Number. Section 3 of the report lists all Tasks and Subtask marked **Critical**, together with their Scheduled Start and

Scheduled Finish dates, and records whether these Tasks and Subtasks have been completed.

5.5.9 The report also contains a Summary sheet which lists all Critical Tasks and Subtasks behind schedule.

TO USE THE MANAGEMENT REPORTS SUBMODULE

GENERATE REPORTS

Use the UP-DOWN Arrow keys to move the highlight bar onto the **MANAGEMENT REPORTS** option
Press **<ENTER>**

The **MANAGEMENT REPORTS** menu appears on the screen
On the Reports Menu

Use the UP-DOWN arrow keys to move the highlight bar to the desired report (Figure 5-3)
Press **<ENTER>**

05/10/91 MANAGEMENT REPORTS 3 28 pm

EQUIPMENT TYPE: 81 MM MORTAR
SELECT REPORT TITLE

MANAGEMENT REPORTS

A. SUMMARY LSA STATUS
B. LSA STATUS LISTING
C. CRITICAL TASK/SUBTASK STATUS

End of list

Navigate with <f1> Select with <enter> Exit with <Esc>
Select the Report to Generate

FIGURE 5-3: MANAGEMENT REPORTS MENU

If the **Summary LSA Status Report** is selected, a listing of all the Tasks and Subtasks appears on the screen (Figure 5-4)

To select the Tasks and Subtasks to be included in the report

REPORT SELECTION

Use the **UP-DOWN Arrow** keys to move the highlight bar to the desired Task or Subtask and Press **<ENTER>**

A (√) appears beside the Task or Subtask to indicate that it is selected

Repeat the above step for each Task or Subtask to be included in the report

To un-select any Task and Subtask previously tagged, highlight the Task or Subtask and Press **<ENTER>**

05/10/91	MANAGEMENT REPORTS	3 29 pm		
EQUIPMENT TYPE: 81 MM MORTAR				
SELECT REPORT TITLE				
MANAGEMENT REPORTS [LSA TASK/SUBTASK] <table border="0"> <tr> <td style="vertical-align: top;"> √ 101 301.2.1/2 √ 301.2.3 301.2.4.1 301.2.4.2 301.2.4.3 √ 301.2.5 302.2.1/2 302.2.3/4 More..... </td> <td style="vertical-align: top; padding-left: 10px;"> DEVELOPMENT OF EARLY LSA STRATEGY NEW EQUIPMENT FUNCTIONAL REQUIREMENTS IDENTIFICATION OF FUNCTIONAL REQUIREMENT RISKS FAILURE MODES, EFFECTS AND CRITICALITY ANALYSIS (FMECA) RELIABILITY CENTERED MAINTENANCE (RCM) OPERATIONS AND OTHER FUNCTIONAL REQUIREMENTS ANALYSIS DESIGN ALTERNATIVES ALTERNATIVE SUPPORT CONCEPTS ALTERNATIVE EQUIPMENT SUPPORT PLANS </td> </tr> </table>			√ 101 301.2.1/2 √ 301.2.3 301.2.4.1 301.2.4.2 301.2.4.3 √ 301.2.5 302.2.1/2 302.2.3/4 More.....	DEVELOPMENT OF EARLY LSA STRATEGY NEW EQUIPMENT FUNCTIONAL REQUIREMENTS IDENTIFICATION OF FUNCTIONAL REQUIREMENT RISKS FAILURE MODES, EFFECTS AND CRITICALITY ANALYSIS (FMECA) RELIABILITY CENTERED MAINTENANCE (RCM) OPERATIONS AND OTHER FUNCTIONAL REQUIREMENTS ANALYSIS DESIGN ALTERNATIVES ALTERNATIVE SUPPORT CONCEPTS ALTERNATIVE EQUIPMENT SUPPORT PLANS
√ 101 301.2.1/2 √ 301.2.3 301.2.4.1 301.2.4.2 301.2.4.3 √ 301.2.5 302.2.1/2 302.2.3/4 More.....	DEVELOPMENT OF EARLY LSA STRATEGY NEW EQUIPMENT FUNCTIONAL REQUIREMENTS IDENTIFICATION OF FUNCTIONAL REQUIREMENT RISKS FAILURE MODES, EFFECTS AND CRITICALITY ANALYSIS (FMECA) RELIABILITY CENTERED MAINTENANCE (RCM) OPERATIONS AND OTHER FUNCTIONAL REQUIREMENTS ANALYSIS DESIGN ALTERNATIVES ALTERNATIVE SUPPORT CONCEPTS ALTERNATIVE EQUIPMENT SUPPORT PLANS			
Navigate with <↑↓, Home, End, PgUp, PgDn> Finish with <F10> Select/Unselect Item with <√> Select/Unselect all with <SHIFT+F10> Select LSA Task/Subtask to include in the report				

FIGURE 5-4: LSA TASK/SUBTASK LISTING

To select or un-select all the Tasks and Subtasks
in one attempt
Press **<SHIFT + F10>**

To indicate that you have finished tagging all
required Tasks and Subtasks
Press **<F10>**

The program then commences to generate the report.
A flashing message appears at the bottom of the
screen saying "Generating Report.....".

From the report destination control box, make the
appropriate selection (Figure 5-5)

The screenshot shows a terminal window titled "MANAGEMENT REPORTS" with a date of "05/10/91" and a time of "3 29 pm". The main text reads "EQUIPMENT TYPE: 81 MM MORTAR" and "SELECT REPORT TITLE". Below this is a box titled "SUMMARY LSA STATUS" containing four buttons: "SCREEN", "PRINTER", "DISK", and "EXIT". At the bottom of this box, it says "Navigate with <←>" and "Select with <↵>".

FIGURE 5-5: REPORT DESTINATION OPTIONS

VIEW REPORT

To view the report on the screen
Select **<SCREEN>**
Press **<ENTER>**

**PRINT
REPORT**

To print the report
Select **<PRINTER>**

Press <ENTER>

**SAVE REPORT
TO DISK**

To save report to a disk file

Select <DISK>

Press <ENTER>

The program allows the analyst to specify the path and file name under which the report is to be stored (Figure 5-6)

05/10/91 MANAGEMENT REPORTS 3:30 pm

EQUIPMENT TYPE: 81 MM MORTAR
SELECT REPORT TITLE

SUMMARY LSA STATUS

SCREEN PRINTER DISK EXIT

Specify Drive:\Path\filename
Press <Esc> to abort.

FIGURE 5-6: SAVE REPORT TO DISK

Specify Path - Drive Name\Directory\Subdirectory\
File Name and Extension, e.g.,
C:\LSA\REPORTS\REP1

EXIT

To return back to the report menu, use the LEFT-
RIGHT Arrow keys to highlight the EXIT option
Press <ENTER>

APPENDIX A

SYSTEM REQUIREMENTS

SYSTEM REQUIREMENTS

PC WITH 640 KB RAM
20MB HARD DISK
ONE 360 KB FLOPPY DRIVE
EGA CARD
MONOCHROME OR COLOR MONITORS

DOS VERSION 3.3

PRINTERS - EPSON
- IBM PROPRINTER
- HP LASER JET
- TI LASER PRINTER
- PANASONIC

APPENDIX B

LIST OF REFERENCE DOCUMENTS

LIST OF REFERENCE DOCUMENTS

8AMC-P 700-11	LSA/LSAR Review Team Guide
AMC-P 700-22	LSA Primer
AMC-P 700-4	LSA Techniques Guide
AMCCOM R 750-5	Battle Damage Assessment and Repair
AR 700-27	Integrated Logistic Systems
AR 70-1	Systems Acquisition Policy and Procedure
AR 750-1	Materiel Maintenance Concepts and Policies
AR 700-127	Integrated Logistics Support (ILS)
DA PAM 700-55	Instructions for Preparing an ILSP
DI-L-7114	LSA Strategy Report
DOD 5000.39D	Acquisition and Management of Integrated Logistic Support for Systems and Equipment
DOD 5000.2I	Major Systems Acquisition Procedures
MIL-M-63003	Preparation of BDAR TM's
MIL-STD-1388-1A	Logistic Support Analysis
MIL-STD-1388-1A/2A	Logistics Support Analysis
MIL-STD-881	Work Breakdown Structures for Defense Materiel Items
MRSA PAM 700-11	Cost Estimating Methodology for Logistics Support Analysis
APJ 966-201	Structured Analysis/Design LSA Task 101, Early LSA Strategy

APJ 983-1	COMVAT Early Strategy Report LSA Task 101
APJ REPORT 966-600	ALSAT Executive User's Manual
APJ REPORT 966-601	Early LSA Strategy Manual
APJ REPORT 966-604	LSA RISK ID Manual
APJ REPORT 966-621	LSA BDAR Manual

Engineering Drawings and Technical
Specifications of the Equipment, System and
Subsystem from the Program Managers Data
File

Design Specifications from the Acquiring
Activity File

Required Operational Characteristics

O & O Plan

Level of Repair Results

APPENDIX C

LIST OF REFERENCE FILES

LIST OF REFERENCE FILES

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LSA Task 101 Files	C-3
LSA Subtask 301.2.3. Files	C-4
LSA Subtask 303.2.11 Files	C-5

LIST OF REFERENCE FILES**EXECUTIVE FILES**

LSA.EXE
LSAOVL.OVL

README

RCANLYHS.DBF
RCANLYHS.NTX
RCANLYST.DBF
RCANLYST.NTX
RCCXHLP.DBF
RCCXHLP.NTX
RCCXHLP.DBT
RCEQHS.DBF
RCEQHS.NTX
RCEQUIP.NTX
RCEQUIP.DBF
RCLSATSK.DBF
RCLSATSK.NTX
RCMENU.NTX
RCMENU.DBF
RCPRHLP.DBF
RCPRHLP.DBT
RCPRHLP.NTX

RCPRNCOD.CTL
RCWELCOM.MEM
RCSCR31.TXT
RCSCR41.TXT

RCPRNCTL.DBF
RCPRNLST.NTX
RCPRNLST.DBF
RCSESSN.DBF
RCSESSN.NTX
RCSTATUS.NTX
RCSTATUS.DBF
RMDBFILE.DBF
RMDBFILE.NTX
RMTSKTAG.DBF
RMTSKTAG.NTX
RSUMSTAT.DBF
RSUMSTAT.DBT
RSUMSTAT.NTX
RSUMSTHS.DBT
RSUMSTHS.NTX
RSUMSTHS.DBF

LIST OF REFERENCE FILES

LSA Task 101 Files

**ATT101.DBF
EQUIP101.DBF
EQUIP101.DBT
HELP101.DBF
HELP101.DBT
PT1_101.DBF
PT1_101.DBT
S1NOTE.DBF
S1NOTE.DBT
TASKS101.DBF**

LIST OF REFERENCE FILES

LSA Subtask 301.2.3 Files

HELPPFILE.DBT
HELPPFILE.DBF
HELPPFILE.NTX
W_RSKSUB.DBF
W_RSKSUB.NTX
W_SUBTSK.NTX
W_SUBTSK.DBF
W2NOTE.DBT
W2NOTE.DBF
WFLIST.DBF
WRSKFR.NTX
WRSKXREF.NTX
WRSKXREF.DBF
WRSKXUN.NTX

LIST OF REFERENCE FILES**LSA Subtask 303.2.11 Files**

R111A	DBF
R111A	NTX
R111B	DBF
R111B	NTX
R112	NTX
R112	DBF
R112	DBT
R1CXHLP	NTX
R1CXHLP	DBT
R1CXHLP	DBF
R1NOTE	DBT
R1NOTE	DBF
R1PRHLP	NTX
R1PRHLP	DBF
R1PRHLP	DBT
R212LST1	DBF
R212LST1	NTX

APPENDIX D

SAMPLE OUTPUT REPORT FORMATS

SAMPLE OUTPUT REPORT FORMATS**Report****Page**

SUMMARY LSA STATUS	D-2
LSA STATUS LISTING	D-4
CRITICAL TASK/SUBTASK STATUS	D-8

Page No. 1

Report Date: 05/23/91

SUMMARY LSA STATUS**EQUIPMENT: COMVAT**

LSA 303.2.11	
BATTLE DAMAGE ASSESSMENT AND REPAIR	
Analyst: George Chernowitz	As of Date: 05/23/91
Office: APJ	
Action Office: APJ-RIDGEFIELD	Action Date: 04/15/91

RATING: GREEN

Battle Damage Assessment and Repair on the COMVAT has been completed. Reports have been distributed to the respective agencies.

Page No. 2

Report Date: 05/23/91

SUMMARY LSA STATUS**EQUIPMENT: CONVAT**

Total Task Summaries Requested: 3

Records Generated: 1

Task Ratings: RED - 0
AMBER - 0
GREEN - 1

Records With No Data: 2
301.2.4.2
402.2.3

***** End of Report *****

Page No. 1

Report Date: 05/23/91

LSA STATUS LISTING**Analyst: George Chernowitz**
Office: APJ**Equipment: COMVAT**
Common Name: COMVAT
NSN: N/A

TASK NO.	TASK NAME	SCHEDULED DATES START FINISH	TASK FINISHED
101	DEVELOPMENT OF EARLY LSA STRATEGY		YES
301	FUNCTIONAL REQUIREMENTS IDENTIFICATION		---
301.2.1/2	NEW EQUIPMENT FUNCTIONAL REQUIREMENTS		---
301.2.3	IDENTIFICATION OF FUNCTIONAL REQUIREMENT RISKS		YES
301.2.4.1	FAILURE MODES, EFFECTS AND CRITICALITY ANALYSIS (FMECA)		---
301.2.4.2	RELIABILITY CENTERED MAINTENANCE (RCM)		---
301.2.4.3	OPERATIONS AND OTHER FUNCTIONAL REQUIREMENTS ANALYSIS		---
301.2.5	DESIGN ALTERNATIVES		---
302	SUPPORT SYSTEM ALTERNATIVES		---
302.2.1/2	ALTERNATIVE SUPPORT CONCEPTS		---
302.2.3/4	ALTERNATIVE EQUIPMENT SUPPORT PLANS		---
302.2.5	RISK ANALYSIS OF SUPPORT SYSTEM ALTERNATIVES		---

Page No. 2

Report Date: 05/23/91

LSA STATUS LISTING**EQUIPMENT: COMBAT**

TASK NO.	TASK NAME	SCHEDULED DATES START FINISH	TASK FINISHED
303	EVALUATION OF ALTERNATIVES AND TRADE OFF ANALYSIS		---
303.2.2	SUPPORT SYSTEM ALTERNATIVES TRADE-OFF ANALYSIS		---
303.2.3	DESIGN, OPERATIONS AND SUPPORT CONCEPTS T. O. ANALYSIS		---
303.2.4	SENSITIVITY ANALYSIS		---
303.2.5	MANPOWER AND PERSONNEL IMPLICATIONS OF ALTERNATIVE SYS		---
303.2.6	TRAINING ALTERNATIVES TRADE-OFF ANALYSIS		---
303.2.7	REPAIR LEVEL ANALYSIS		---
303.2.8	TESTING CONCEPTS		---
303.2.9	SUPPORTABILITY, COST AND READINESS PARAMETER EVALUATION		---
303.2.10	ENERGY ALTERNATIVES TRADE-OFF ANALYSIS		---
303.2.11	BATTLE DAMAGE ASSESSMENT AND REPAIR		YES
303.2.12	TRANSPORTABILITY ALTERNATIVES TRADE-OFF ANALYSIS		---
402	EARLY FIELDING ANALYSIS		---
402.2.1	IMPACT OF NEW SYSTEM ON EXISTING SYSTEM		---

Page No. 3

Report Date: 05/23/91

LSA STATUS LISTING**EQUIPMENT: COMBAT**

TASK NO.	TASK NAME	SCHEDULED DATES START FINISH	TASK FINISHED
402.2.2	SOURCES OF MANPOWER AND PERSONNEL RESOURCES		---
402.2.3	IMPACT OF RESOURCE SHORTFALLS ON SYSTEM READINESS		---
402.2.4	COMBAT RESOURCE REQUIREMENTS ANALYSIS		NO
402.2.5	PLANS FOR PROBLEM RESOLUTION		---

Page No. 4

Report Date: 05/23/91

LSA STATUS LISTING**EQUIPMENT: COMBAT****SUMMARY**

Task/Subtask Behind Schedule:

Total: 0

***** End of Report *****

Page No. 1

Report Date: 05/23/91

CRITICAL TASK/SUBTASK STATUS**Analyst: George Chernowitz**
Office: APJ**Equipment: COMVAT**
Common Name: COMVAT
MSN: N/A

TASK NO.	TASK NAME	SCHEDULED DATES START FINISH	TASK FINISHED
101	DEVELOPMENT OF EARLY LSA STRATEGY		YES
301.2.3	IDENTIFICATION OF FUNCTIONAL REQUIREMENT RISKS		YES
303.2.11	BATTLE DAMAGE ASSESSMENT AND REPAIR		YES

Page No. 2

Report Date: 05/23/91

CRITICAL TASK/SUBTASK STATUS**EQUIPMENT: COMBAT****SUMMARY**

Critical Task/Subtask Behind Schedule:

Total: 0

***** End of Report *****

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