ILS ELEMENT E14
SUPPORT MANAGEMENT AND ANALYSIS

Distribution Program and User's Manual Version 1.0

APJ 966-679

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This User's Manual is the complete user documentation package, and is provided for guidance in using the APJ software. This User's Manual refers to Version 1.0 of the ILS Assessment software. The software permits you to carry out a coherent, orderly and reproducible assessment of ILS Element E14, Support Management and Analysis. The software automates the assessment of ILS Element E14, Support Management and Analysis, and follows the requirements of APJ Report 966-228, Structured Design - ILS Review Element E14 - Support Management and Analysis. It is designed to assess ILS performance as defined in AR 700-127. ILS software guides the user through the assessment by providing a series of questions which may readily be tailored to the weapon system and life cycle stage.

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ILS ELEMENT E14
SUPPORT MANAGEMENT AND ANALYSIS

Distribution Program and User's Manual Version 1.0

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

by

AMERICAN POWER JET COMPANY

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April 1991

PLEASE READ THIS

This manual is intended to demonstrate the ILS Assessment Software and aid the user in becoming familiar with its operation. The screens illustrated in this manual, are intended as a guide to help the analyst through the software operation and provide a sense of "what it looks like". The following ILS review areas have been made the subject of automation:

E1 - Maintenance Planning
E11 - Design Influence
E12 - Standardization and Interoperability
E13 - RAM-D
E14 - Support Management and Analysis
E15 - Cost Analysis and Funding

Because a single automated procedure with a consistent human interface is the objective of APJ's efforts, the analysis structure, screens and operating procedure are identical for each ILS assessment area.

To avoid cumbersome repetition, we have used E1 Maintenance Planning as illustrative displays for all manuals regardless of subject.

The specific assessment questions for each of the other ILS areas (E1, E11, ... etc.) are set forth in the respective automated screens, reports, and Help. To facilitate review and planning of each assessment task, the Data Flow Diagrams and questions are reproduced in Appendices A and B respectively of the manual corresponding to the given task.

The information contained in this manual is generic, and is weapon system and life cycle phase independent. It is designed to be readily structured for any specific weapon system and life cycle stage, and facilities are provided to tag each pertinent question so that attention may be focused on remunerative issues.

FOREWORD

This manual supports the automation of the Structured Analysis of Integrated Logistics Support (ILS) functions. It is the complete user documentation package, and is provided solely for guidance in using the APJ software.

The ILS assessment software is a unified and iterative approach to the management of logistic support throughout the life of a Weapon System. It enables the user to review logistic support decisions and, if required, establish corrective actions.

The automated ILS system is being developed by the American Power Jet Co. (APJ), under contract to Hqs AMCCOM. A major goal of the project is to unify the military and contractor approach to the performance of ILS. This approach was validated by AMCCOM, and necessary adjustments were made to attain a fully useful and user-friendly program.

APJ has used Structured Analysis and Design to develop the ILS assessment logic in accordance with AR 700-127 "Integrated Logistic Support".

The Structured Analysis and Design for ILS Element E14 (Support Management and Analysis) was presented in APJ Reports 966-227 and 966-228. APJ's task performance has been closely coordinated with the Army Logistic Evaluation Agency and AMCCOM. Their assessment experience has been captured in APJ's logic through continued coordination and review at the working level.

The application software functions as an automated assessment technique and data repository that insures the ILS review is complete and yields actionable results. The assessment logic provides a determinate definition of data requirements, detailed implementation processes, and standard output reports. Additionally, a cost, performance, and schedule risk module has been created for each process.

The ILS assessment software is available through HQ AMCCOM, AMSMC-LSP to program managers, ILS functional area representatives, and review activity personnel. It provides guidance and a means of assessing ILS performance by using the automated assessment procedure. Through the use of this procedure, problems may be quickly identified and resolved before testing and milestone reviews.

The Structured Analysis for ILS Element E14, Support Management and Analysis, contains the following six (6) major modules:

1. Assess Planning Documents
2. Assess System Requirements Documents
3. Assess BOIP/QQPRI Planning
4. Assess Test Planning
5. Assess Solicitation Documents
6. Assess ILS Evaluation Plan

NOTE

A bar in the left hand margin of any paragraph indicates changes from the Beta Test version of this manual.

This work was performed by a task team for APJ: George Chernowitz, James M. Ciccotti, Scott Lerman, and William Villon. The manual was prepared by Arthur Kreitman; editing and typing support were most competently provided by Barbara Boren and Denise Montanez.

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All comments on this version are welcome and should be addressed to:

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CHAPTER 1

INTRODUCTION

1.1 GENERAL.

USER'S GUIDE

1.1.1 This User's Manual accompanies Version 1.0 of the ILS Assessment software. The software permits you to carry out a coherent, orderly and reproducible assessment of ILS Element E-14, Support Management and Analysis. It is part of an APJ originated structure for addressing all of the ILS areas in AR 700-127.

1.1.2 This is designed to serve activities concerned with assessing ILS performance as defined in AR 700-127 and establishing its cost, schedule, performance and sustainability implications. Provision is made for such assessments at both the overall and detailed levels.

1.1.3 The user is guided through a series of questions which may readily be tailored according to the weapon system characteristics and life cycle stage. The overall set of questions and their organization are provided in Appendices A and B.

1.1.4 An important feature is a fully articulated guide to performing the assessment through a system of help screens, with a hypertext selection menu. This help system may likewise be tailored to the specific weapon system and life cycle stage.

1.2 SCOPE.

COVERS AR 700-127

1.2.1 The Department of the Army has a requirement for management control of contractor and government requirements for implementation of AR 700-127, (Integrated Logistic Support). Headquarters AMCCOM has initiated action to structure the review of each ILS element, as to the form of the results and the detailed processes involved. This action is necessary to ensure consistency with current US Army policies, procedures and techniques.

REVIEW SCOPE

1.2.2 This computer-assisted system will result in uniform development of a logistical database. It addresses all aspects of the ILS assessment elements, as set forth in Department of Army and Department of Defense administrative publications. Furthermore, it will insure uniformity in efforts and products, reproducibility of analyses, and a well defined structure. This system can be coordinated among all participants in the logistic process to arrive at standardized procedures and a common basis for understanding assessment results.

GENERIC MANUAL

1.2.3 This user's manual is baselined on ILS Assessment Element E1, Maintenance Planning. The examples of screens and reports shown in this manual are intended to illustrate the operation of the software independent of the assessment element. The process titles may be different is the various element, but the operation is unchanged.

1.3 ILS REVIEW LOGIC AND ORGANIZATION.

1.3.1 This software automates the assessment of ILS Element E14 - "Support Management and Analysis" and follows the requirements of APJ Report 966-228, "Structured Design-ILS Review Element E14-Support Management and Analysis".

1.3.2 A detailed Structured Analysis of this review element was developed in APJ report 966-227, "ILS Review Element E14". The detailed Data Flow Diagrams (DFDs) from this Structured Analysis are included as Annex A to this manual, and provide the user with an overview of the logic and approach taken with the analysis.

1.4 ILS SOFTWARE ARCHITECTURE

1.4.1 The overall concept of assessment is illustrated in Figure 1-1 and is weapon system and life cycle phase independent. ILS software is designed to guide the user through an assessment by providing a series of questions for the analyst to answer. The analyst must select the equipment to be assessed and enter an identification before reaching the main menu. From the main menu the user can either perform an assessment or generate a report using data from previous assessments.

1.4.2 During the process of performing an assessment, the user is guided through a series of processes and/or subprocesses that enable him to select a question to be answered. Once a question is selected, the user selects one of several possible responses. After responding to the question the user enters an assessment of the selected answer.

1.4.3 From the main menu the user can generate a report of the information that has been entered during a current or previous sessions. The output of the generate report can be directed to a printer, screen or stored as a file.

1.5 SOFTWARE PROVIDED.

PROGRAM

1.5.1 The ILS Review Element E14 - Support Management and Analysis software is loaded on 360K 5-1/4 inch floppy disks that are provided separately. Refer to Chapter 2 for the equipment required to run this software.

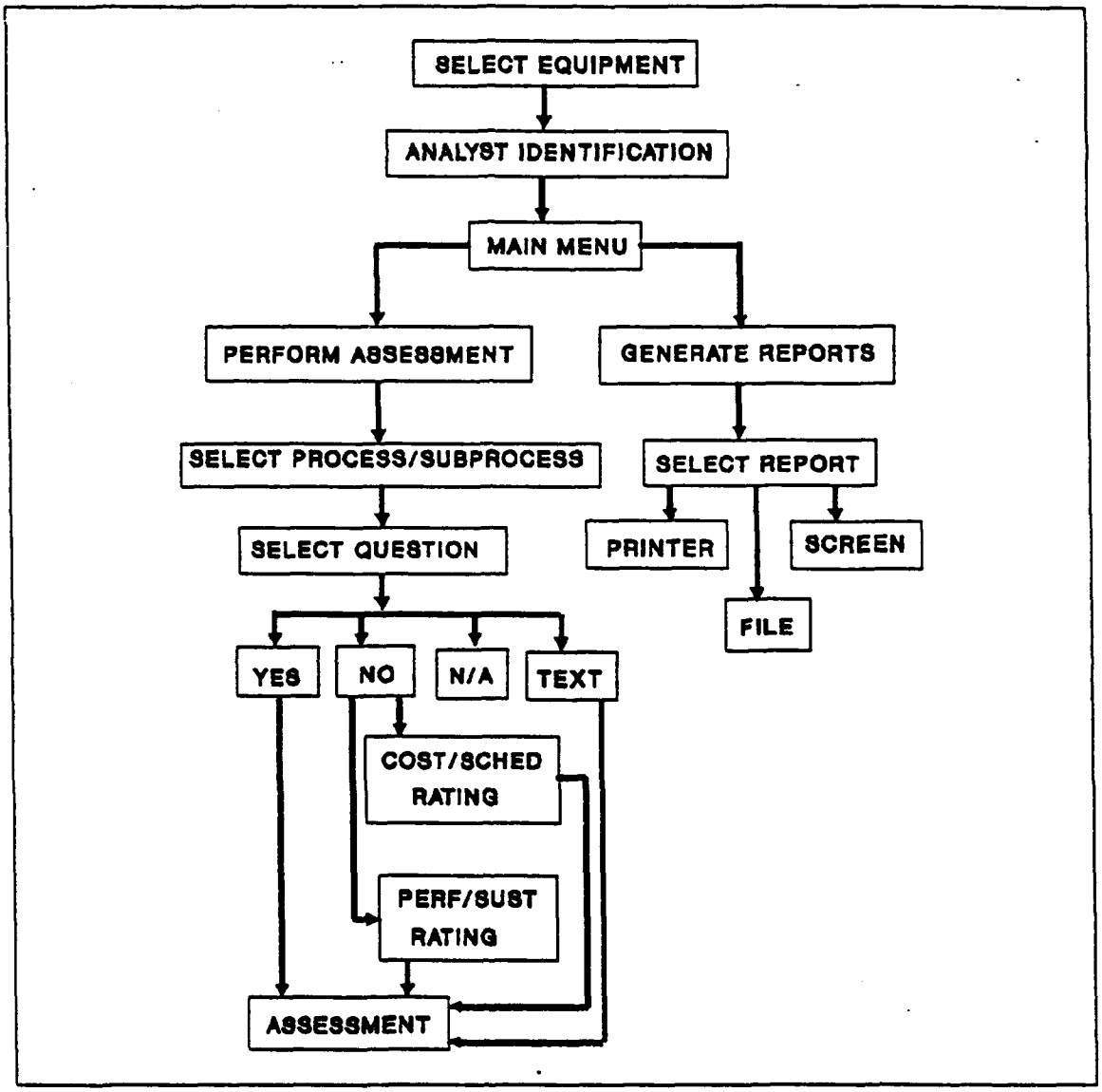

Figure 1-1. ILS Software Architecture

CHAPTER 2

SOFTWARE INSTALLATION AND BACKUP

2.1 GENERAL

2.1.1 This chapter describes the installation of the executable software and the procedures for making a backup file.

2.2 EQUIPMENT REQUIREMENTS

2.2.1 To operate the ILS Review Element E1 software, the user must be equipped with at least the following equipment, or its equivalent.

HARDWARE

1. IBM-PC-XT with DOS version 3.3 or later and 640K RAM
2. 360K or 1.2MB Floppy Disk Drive and 20MB Hard drive
3. Printer: The following printers are supported by the software printer drivers

   Epson E/F/J/RX/LQ
   HP Laserjet 500/+/II
   IBM 80 CPS Matrix

NOTE

If your printer is not one of those listed, select the "IBM 80 CPS Matrix" which allows you to tailor the report generator for any printer.

2.3 POWER ON/OFF

POWER

2.3.1 Since each system is slightly different, follow the manufacturer's specific start-up instructions for the personal computer being used to perform the assessment. Make sure that both the Central Processing Unit (CPU) and the Monitor are powered up. Proceed to the system installation section for the instructions on installation of the Logistics Assessment Software.

2.4 SYSTEM INSTALLATION

MAKE DUPLICATE COPY OF DISKS

2.4.1 This section describes the procedure to load the executable software residing on the floppy disk onto the computer's hard disk and instructions for making copies of the executable program and associated data bases for field use.

2.4.2 Before installing the software for the first time, duplicate the supplied disks. Apply write protect tabs to the original disks and store in a safe place. Use the copy of the software for system installation.

MODIFY CONFIG.SYS

2.4.3 In order for the ILS software to operate properly, the CONFIG.SYS file must contain the statements: FILES=50 and BUFFERS=20. Add these statements to the indicated files if they do not already exist.

2.5 INSTALLATION ON A HARD DISK.

HARD DISK

2.5.1 To install the software on a hard disk of the personal computer, perform the following procedures.

1. Turn the computer and monitor on. The computer should boot-up and the hard disk drive prompt (usually C:\) should appear on the screen.

2. Insert the copy of disk 1, ILS Assessment Software, into Drive A.

3. After the C:\ prompt, type "MD C:\ILS" and press <Enter>. This creates an ILS directory on the hard disk and the C:\ prompt will appear.

4. Type "Copy A:*.* C:\ILS" and press <Enter>. This copies all of the files from the Logistic Assessment Software floppy disk into the ILS directory on the hard disk.

5. Upon completion of copying the files into the ILS directory, the C:\ prompt appears. Remove the software disk just copied from Drive A and store in a safe place.

6. Insert the copy of each disk provided into Drive A, and repeat steps 4 and 5.

IMPORTANT INSTALLATION NOTE

For ILS Assessment Software, E14-Support Management and Analysis, the QLIST.DBF and QLIST.DBT files have been compressed into a single file named QLIST.COM, to fit on a 360K floppy disk. QLIST.COM is a self-extracting file to install this file and extract the two QLIST files follow these instructions:

1) At the C:\ILS prompt type *Copy A:\QLIST.COM* and press *<Enter>*. This will copy the compressed file from the floppy disk to the ILS directory.

2) Type *QLIST* at the C:\ILS prompt and press *<Enter>*. This causes the execution of the self-extracting archived file to generate two files (QLIST.DBF and QLIST.DBT). Type *DEL QLIST.COM* and press *<Enter>* to delete the self-extracting compressed file. It is no longer needed.

3) Continue with the normal installation procedures found in Chapter 2.

2.6 INSTRUCTIONS FOR FIELD USE.

WORKING COPY

2.6.1 The following procedures are for copying the ILS assessment software onto a single 1.2MB floppy disk from the computer's hard disk drive. This provides a working copy of the software for use at a field location, or on a laptop computer. Refer to paragraph 2.7 for procedures to copy the ILS assessment software onto 360K floppy disks.

1. Turn the computer and monitor on. The computer should boot-up and the hard disk drive prompt (usually C:\) should appear on the screen.

2. Insert a 1.2 M blank formatted floppy disk into Drive A.

3. After the prompt type "Copy C:\ILS*.EXE A:"and press <Enter>. This copies the executable file from the ILS directory onto the disk in Drive A.

4. After the prompt type "Copy C:\ILS*.DBT A:" and press <Enter>. This copies the files from the ILS directory onto the disk Drive A.

5. After the prompt type "Copy C:\ILS*.DBF A:" and press <Enter>. This copies the files from the ILS directory onto the disk in Drive A.

6. After the prompt type "Copy C:\ILS*.MEM A:" and press <Enter>. This copies the files from the ILS directory onto the disk in Drive A.

7. After the prompt type "Copy C:\ILS*.RTL A:" and press <Enter>. This copies the files from the ILS directory onto the disk in Drive A.

8. After the prompt type "Copy C:\ILS*.TXT A:" and press <Enter>. This copies the files from the ILS directory onto the disk in Drive A.

9. After the prompt type "Copy C:\ILS*.OVL A:" and press <ENTER>. This copies the files from the ILS directory onto the disk in Drive A.

10. Remove the disk from Drive A. Label this disk with file identification and date. This is the working copy that can be used at a field location to perform an assessment.

2.7 MAKING A FIELD COPY

360K FIELD COPY

2.7.1 The following procedures are provided for copying the ILS assessment software onto multiple 360K floppy disks from the computer's hard disk drive.

1. Turn the computer and monitor on. The computer should boot-up and the hard disk drive prompt (usually C:\) should appear on the screen.

2. Insert a 360K blank formatted floppy disk into Drive A.

3. After the prompt type "Copy C:\ILS*.EXE A:" and press <Enter>. This copies the executable file from the ILS directory onto the disk in Drive A.

4. Remove the disk from Drive A and insert a new 360K blank formatted disk into Drive A. Label this disk with file identification and date.

5. Repeat the procedures of steps 2 through 4 using the following commands to copy the files to the disks.

NOTE

More than one disk is required during the process of copying the following files.

a. After the prompt, type "Copy C:\ILS*.DBT A:".
b. After the prompt, type "Copy C:\ILS*.DBF A:".
c. After the prompt, type "Copy C:\ILS*.MEM A:".
d. After the prompt, type "Copy C:\ILS*.OVL A:".
e. After the prompt, type "Copy C:\ILS*.TXT A:".

2.8 SOFTWARE BOOT-UP PROCEDURE

BOOT-UP FROM HARD DRIVE

2.8.1 The following procedures should be followed each time the software is initiated. Paragraph 2.9 contains procedures for using a hard disk drive, and paragraph 2.10 contains procedures for using a floppy disk.

2.9 BOOT-UP SOFTWARE USING HARD DISK

2.9.1 The following procedure is used for accessing software installed on the computer's hard disk drive.

1. Turn the computer and monitor on. The computer will boot-up and the hard disk drive prompt (usually C:\) will appear on the screen.

2. Type "CD\ILS" and press <Enter> to change to the ILS directory. C:\ILS appears on the screen.

3. Type "ILS" and press <Enter>. The program is now initialized and an introductory screen appears. Refer to Chapter 3 for identification of screens, and Chapter 4 for instructions on performing an assessment.

2.10 BOOT-UP PROGRAM USING FLOPPY DISK.

BOOT-UP FROM FLOPPY

2.10.1 The following procedure is used for accessing the program from a floppy disk.

1. Boot-up the computer with the DOS system disk.

2. Insert program disk into Drive A.

3. At the A drive prompt, type "ILS" and press <enter>. The program is initialized and the ILS screen appears. Refer to Chapter 3 for identification of screens, and Chapter 4 for assessment entering procedures.

2.11 CREATING BACK-UP FILES

2.11.1 At the end of a day, make a back-up copy of the files. The back-up disk may be useful under the following conditions:

(1) If there is a computer hardware problem and another computer is used.
(2) Data files are corrupted or become otherwise unusable and restoration of the files is required.
(3) Transportation of the files from the user site to another management site.

2.11.2 Prior to creating any back-up files that will be restored to another machine, the analyst must ensure that:

PRE-BACKUP INSTRUC-TIONS

1. Formatted disks are available.

2. The machine that the back-up will be restored to has a DOS release version that is equal to or higher than the DOS release version on the back-up machine.

3. The backup and restore .COM files are in a directory specified in the autoexec.bat file path. If not, the complete paths for the back-up and restore must be specified at the time each is processed.

2.11.3 Perform the following procedures to create a back-up disk:

BACKUP PROCE-DURES

1. At the end of a session, place a formatted disk in Drive A. <Exit> from the ILS program to return to the C:\ILS DOS prompt.

2. Type "BACKUP A:\ILS" and press <Enter> to create a set of back-up disks.

3. Remove the back-up disks from Drive A, label and date them. No more than two days' worth of files should be maintained on such back-up disks. On the third day, the back-up files made two days ago should be updated and overwritten.

2.12 RECOVERY PROCEDURES

RESTORE

2.12.1 When file restoration is required, place the latest backup disk in drive A and type "RESTORE A:C:\ILS/S" and press <Enter>. The files will be restored.

RECOVERY FROM CORRUPTED INDEX FILES

2.12.2 If one or more index file associated with the data bases becomes corrupted, use the utility program procedures described in paragraph 3.4.3.

NOTE

Re-indexing and packing is recommended at least every 2-3 days.

2.12.3 The following is a list of files comprising the ILS Review/Software.

FILE NAMES

ANALYST.DBF	HELPILS2.TXT	QLIST.DBT
CHOICEN.DBF	ILS.EXE	REPWELC.MEM
CHOICEN.DBT	ILSYS.OVL	RESPONSE.DBF
CHOICET.DBF	ILSYS2.OVL	RR_PR1.MEM
CHOICET.DBT	INSTR.TXT	SESSION.DBF
CHOICEY.DBF	INTRO.TXT	SUBROC.DBF
CHOICEY.DBT	PROCESS.DBF	SUMMARY.DBF
EQUIP.DBF	PROCLOOK.DBF	SUMMARY.DBT
HELPILS.TXT	QLIST.DBF	WELC.MEM

CHAPTER 3

START-UP OPERATIONS

3.1. INTRODUCTION.

BACKGROUND

3.1.1 The U. S. Army ILS Assessment Software is an interactive menu driven system. The software is accessed by completing a series of identification screens prior to accessing the Main Menu. From the Main Menu, you can perform an assessment, generate reports, obtain help, or exit the program. This chapter explains the purpose of each screen and the required response.

3.2 EQUIPMENT IDENTIFICATION SCREEN.

3.2.1 After system initialization, the introductory screen appears. When any key is pressed, the Equipment Identification Screen appears as shown in Figure 3-1.

EQUIPMENT SIGN-ON SCREENS

3.2.2 To sign on to the system either enter the equipment ID (20 alphanumeric characters maximum), or press <Enter> to view a list of previously entered equipments. Use the arrow keys to move the highlight bar to the equipment desired. Select the equipment by pressing <Enter>. The Equipment Sign-On Screen is displayed as shown in Figure 3-2.

ADDING NEW EQUIPMENT

3.2.3 If the equipment desired is not on the list, select [NEW] and press <Enter>. The equipment Sign-On Screen is displayed as shown in Figure 3-2. Complete each field up to the number of characters indicated in Figure 3-2, and press <Enter> to proceed to the next field. After completion of the last field, press <Enter> and the Analyst Identification Screen appears.

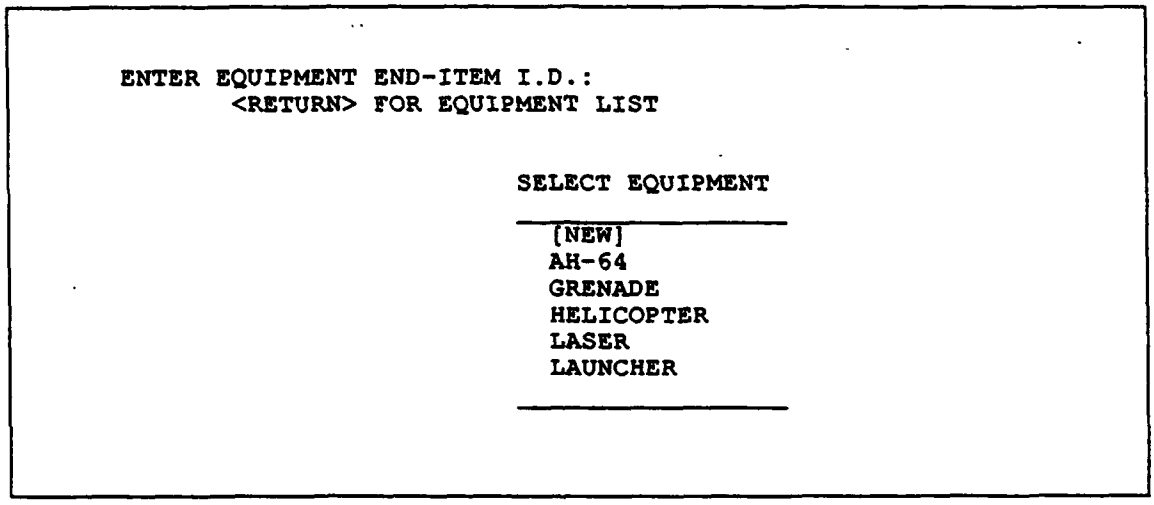

Figure 3-1 Equipment Identification Screen

EDIT OPTION

3.2.4 If the Equipment Sign-On Screen has been previously completed, an ACCEPT-EDIT command appears on the bottom of the screen. To change an entry use the arrow keys to highlight the EDIT option and press <Enter>. This places the cursor on the top line and enables the user to make corrections. Use the arrow keys to move the cursor to the line requiring correction. After completion of all corrections use the arrow keys to highlight the ACCEPT option of the ACCEPT-EDIT selection. Press <Enter> to proceed to the next screen.

3.3 ANALYST IDENTIFICATION SCREEN

ANALYST SCREENS

3.3.1 After completion of the Equipment Identification Screen, two Analyst Sign-On Screens must be completed. The first screen requires you to enter your analyst ID as shown in Figure 3-3 (4 Alphanumeric characters maximum).

```
EQUIPMENT IDENTIFICATION.....: 20A
MILITARY NOMENCLATURE........: 20A   INDENTURE LEVEL : 1N
COMMON NAME..................: 20A
NEXT HIGHER ASSEMBLY.........: 20A
NEXT HIGHER ASSEMBLY.........: 20A
NEXT HIGHER ASSEMBLY.........: 20A
PROGRAM MILESTONE............: 20A
DEVELOPMENT PHASE MILESTONE..: 20A
ACQUISITION MGMT MILESTONE...: 20A
PROJECT MANAGER LAST NAME....: 15A  FIRST NAME: 15A
PROJECT MANAGER OFFICE SYMBOL: 15A  PHONE #: 1(999)-999-9999
PROJECT MANAGER AUTOVON PHONE: 999-9999
DISCREPANCY REPORTS TO.......: 20A
MANUFACTURER.................: 20A
NATIONAL STOCK NUMBER........: 20N
```

Figure 3-2 Equipment Sign On Screen

NOTE

Underlined entries in the sample screens indicate user input and character limits. A=Alphanumeric; N=Numeric

3.3.2 Upon entering your Analyst ID, the Analyst Sign-On Screen appears as shown in Figure 3-4. If an analyst has signed on before, the software recalls the stored information, and this screen appears with the information previously entered. For an ID recognized by the program, the Analyst Sign-On Screen appears with a two choice menu (ACCEPT or EDIT). Use the arrow keys to highlight either the ACCEPT or EDIT choice. Press the <Enter> key to select the desired choice. If the information is correct, choose ACCEPT and the Main Menu is displayed.

```
ENTER ANALYST ID: 4A
```

Figure 3-3. Analyst Identification Screen

```
ANALYST ID.................:4A
ANALYST FIRST NAME.........:15A
ANALYST LAST NAME..........:15A
COMMAND OFFICE SYMBOL......:15A
COMMAND OFFICE PHONE.......: 1(999)-999-9999
AUTOVON PHONE..............:999-9999
```

Figure 3-4. Analyst Sign On Screen

EDITING EXISTING INFORMATION

3.3.3 If the information is to be changed, select the EDIT option, the cursor moves to the first field where the user can make changes. Use the arrow keys to move the cursor to any of the fields requiring change. Move the cursor to the last field (AUTOVON PHONE) and press <Enter> to store the changes and access the Main Menu.

ADDING NEW ANALYST

3.3.4 The first time an analyst uses the software, the information on the Analyst Sign-On Screen must be completed. After completion of the last field, an ACCEPT-EDIT command appears on the bottom of the screen. Press <Enter> to accept the information.

3.4 MAIN MENU

3.4.1 The Main Menu is shown in Figure 3-5. It enables the user to select one of the options described below. Using the arrow keys; move the highlight bar to the desired option and press <Enter>. At the completion of any option, the program returns to the Main Menu and allows another selection to be made or the session to be terminated.

Figure 3-5. Main Menu

MAIN MENU OPTIONS

3.4.2 OPERATIONS. Selecting this option displays two choices: PERFORM ASSESSMENT and REPORT GENERATION. The first option allows the analyst to perform an ILS assessment on the equipment that was selected via the Equipment Identification Screen. The second is used to access the Report Generation Module. In this module, the analyst can generate management and technical reports that document the results of the assessment. A further description on performing an assessment is provided in Chapter 4 and report generation is discussed in Chapter 5.

3.4.3 UTILITIES. Two utility programs have been included in this option. The utilities are: REORGANIZE INDEX FILES and PACK DATABASES. These options allow the user to rebuild index files when they become corrupted. Files can become corrupted when the ILS program is ended abnormally. This occurs when the power is shut off without exiting normally (i.e., a power failure, or turning off the computer before exiting ILS). It can also occur when data is written to bad spots on disks (hard or floppy) and then cannot be read again.

3.4.3.1 In order to execute the utility programs, use the arrow keys to place the cursor on the UTILITIES option and press <Enter>. The two options REORGANIZE INDEX FILES and PACK DATABASES will be displayed.

NOTE

Corrupted files can be recognized by the user when bad or incorrect data is displayed. If the user suspects that any files are corrupted, both utility programs should be run to rebuild the indices. Once that is complete, the user may proceed.

RE-ORGANIZING INDEX FILES

3.4.3.2 To select REORGANIZE INDEX FILES option, use the down arrow key to highlight REORGANIZE INDEX FILES and press <Enter>. This displays a window on the Main Menu Screen entitled "REINDEXING ALL ILS SYSTEM WORK AREAS". As each database index file is rebuilt, the message within the box "Reindexing: Database (file name.DBF)" and the number of records being reindexed are shown. After all databases have been reindexed, a message line appears below the box stating "ILS System Successfully Reindexed, any <Key> to continue."

PACKING DATABASES

3.4.3.3 To select the PACK DATABASES option, use the down arrow key to highlight the selection and press <Enter>. This displays a window on the Main Menu screen entitled PACKING ALL ILS SYSTEM WORK AREAS. As each database file is packed, the message within the box reads "Packing: Database (filename.DBF)" and the number of records that are being packed. Upon completion of packing each file, a message line below the window appears stating "ILS System Successfully Packed, any <Key> to continue."

3.4.4 INTRODUCTION. This option displays a brief narrative about the computer-aided ILS Assessment System Software.

3.4.5 INSTRUCTIONS. This option displays suggestions on how to use the application software, and what to expect when operating the software. In addition, system navigation terminology is also displayed.

TERMINATING THE SESSION

3.4.6 EXIT. This option displays a pull down menu with a YES and NO option. If the YES option is selected, a second menu is displayed to verify the choice to exit the session. If OK is selected, the program exits and returns to the DOS prompt C:\ILS. If NO is selected, you are returned to the Main Menu.

3.5 OPERATIONS

PERFORM ASSESSMENT

3.5.1 From the Main Menu selection, begin the ILS assessment by selecting the PERFORM ASSESSMENT option under OPERATIONS. This option reveals a list of pertinent topics relating to the ILS Element as shown in Figure 3-6.

NOTE

The titles shown in the illustrative figures are provided to show the format of the screen. The actual titles of the ILS Assessment in use may be different, but the software operation is the same.

ASSESSMENT TOPICS

3.5.2 The Assessment Selection Screen shown in Figure 3-6, indicates the process number and abstract (title) of the assessment topic. This permits the user to choose topics that are pertinent for assessing a Weapon System in its current stage of development. Some topics are further divided into subtopics. Use the arrow keys to move the highlight bar to the desired topic and press <Enter> to select it.

3.5.3 Occasionally, and more often as the equipment assessment progresses, the reviewer will note an asterisk (*) on the left hand side of an assessment topic. The * indicates that a process summary has been entered for that topic. It is recommended that the process summary be updated when the reviewer completes most of the questions for the assessment topic.

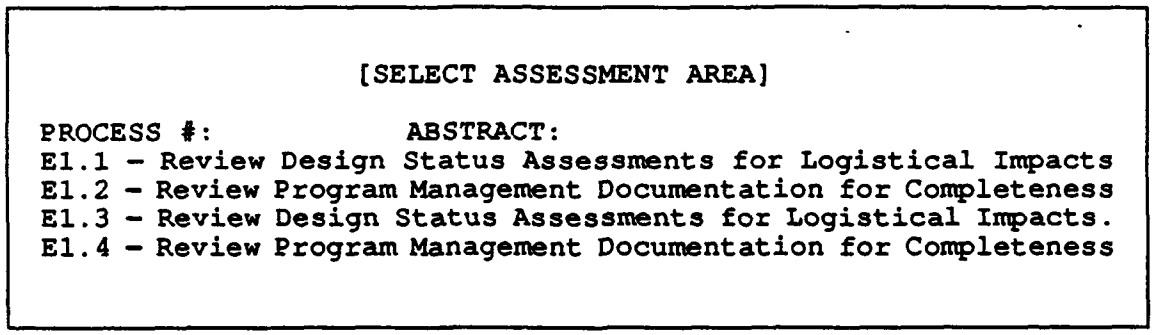

Figure 3-6. Assessment Selection

3.5.4 The user can create, review, or edit a process summary by pressing <F3>. The analyst can enter or revise the process summary on the narrative input screen shown in Figure 3-7. After completion of the summary, press <F10> to save. This saves the summary and allows the analyst to make two ratings that assess the Program Cost & Schedule Impact and Equipment Performance & Sustainability Impact.

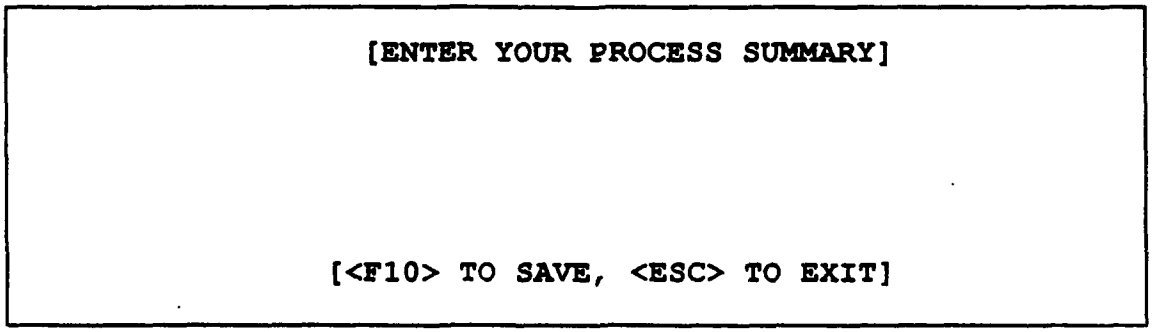

Figure 3-7. Process Summary Screen

QUESTION LIST

3.5.5 When an assessment topic is selected, either a subprocess list appears as shown in Figure 3-8, or a question list is superimposed on the Assessment Selection Screen. The question list shown in Figure 3-9 displays a list of question numbers.

3.5.6 Displayed to the right of each question is its status; DONE, NOT DONE, or N/A(Not Applicable). The status for DONE or NOT DONE is automatically recorded by the software during any of the previous sessions. If the question was answered during any session, it is labeled DONE. It is labeled NOT DONE if it has never been worked on. A N/A (Not Applicable) is displayed when the analyst, during a previous session, determined that the question was not relevant to the equipment or life cycle phase. Refer to Chapter 4 for procedures on performing the assessment.

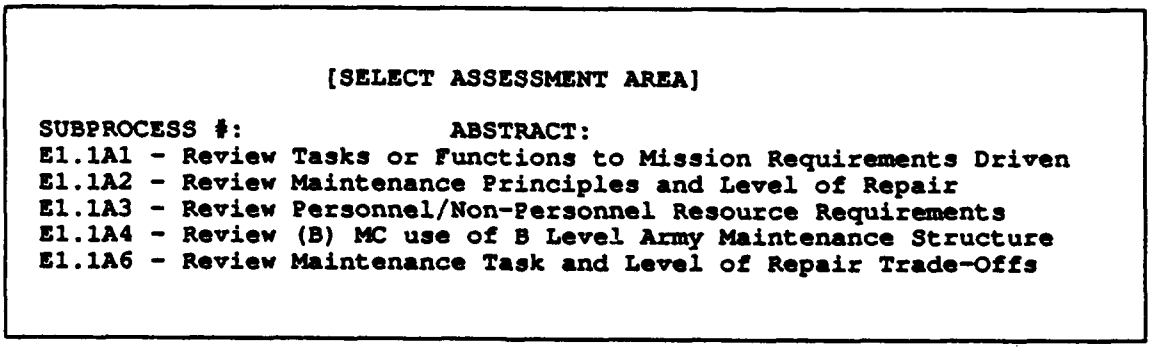

Figure 3-8. Subprocess Menu Selection

NOTE

In some ILS Assessment Elements, another level of subprocessess exists before the question list is displayed. The selection of topics in this sublevel is identical with the subprocess selection.

QUESTION #:	ANSWERED
E1.1-01	NOT DONE
E1.1-02	DONE
E1.1-03	DONE
E1.1-04	N/A
.	
.	
.	
.	
E1.1-17	NOT DONE

Figure 3-9. Question Menu

3.5.7 When the question list is displayed, the <F4> key can be used to review the last answer to the question that is highlighted. The information that is displayed is the narrative text portion of the assessment. Use the up and down arrow keys or <Page Up> and <Page Down> keys to scroll through the text. To return to the question list press <ESC>. Either review the answer to another question or select a question to answer.

3.6 HELP SYSTEM

3.6.1 The Help System is available to the analyst throughout the operation of the software program. When the analyst presses the <F1> key a help screen is displayed giving information on the particular operation being performed. Use the arrow keys to navigate through the help screens. If additional information is required, press the <F1> again. This displays an ILS Help System Index Selection Screen. Use the arrow keys to highlight the desired selection and press <Enter> to review the Help Screen. Press <ESC> to return to the program.

3.7 NAVIGATION.

3.7.1 NAVIGATION MENU. The navigation menu appears at the top of the screen when each question is displayed. It enables the user to answer the question displayed or go to another question. The user accesses the navigation menu by pressing the <ESC> key when the YES/NO/NA choices are displayed beneath the question. The navigation menu becomes activated on the upper portion of the screen as shown in Figure 3-10. This menu gives the user the options defined in Table 3-1.

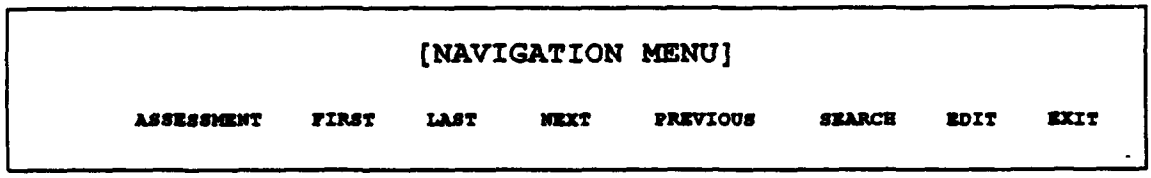

Figure 3-10. Navigation Menu

Table 3-1. Navigation Menu Option Descriptions

NAVIGATION KEYS

SELECTION	FUNCTION
ASSESSMENT	Makes question appearing on the screen active, enabling the analyst to answer it.
FIRST	Displays the first question in the assessment.
LAST	Displays the last question in the assessment.
NEXT	Displays the question after the currently selected question. This option is used to skip a question.
PREVIOUS	Displays the question before the currently selected question. This option is used for answering a question that was skipped or to modify the last answer.
SEARCH	Allows the user to either select a specific question by entering the question number, or searching for a question in another topic. The user selects the topic, a subtopic (if available) and then the specific question desired. This option quickly moves you from one part of the question list to another.
EDIT	Allows the user to edit questions previously answered during this session. The user is returned to the question from which edit was invoked. This option may be used if the analyst wants to review the details of a previously answered question without exiting the software.
EXIT	Allows the user to return to the Main Menu.

CHAPTER 4

ASSESSMENT TECHNIQUES AND PROCEDURES

4.1 INTRODUCTION

4.1.1 This chapter provides the user with the procedures required to perform an ILS assessment. It includes procedures on reviewing previous entries, manipulating of the program and generating assessment results.

4.2 HISTORICAL RESULTS

HISTORICAL RECORDS

4.2.1 The ILS Assessment software is designed to generate a historical record of events over the life cycle of a weapon system. The historical record is developed one session at a time.

CURRENT SESSION

4.2.2 A session begins when an analyst signs on by selecting a weapon system to assess, and ends when he elects to exit. During that current session, all answers to questions are recorded and saved by the software. Changes can be made only to questions answered during a current session. Questions previously answered, may be answered again without affecting data already in the system. Once the analyst exits a current session, no additional changes can be made.

AUDIT TRAIL

4.2.3 As additional sessions are held, the saved records become an audit trail of events that have occurred over the life of the weapon system. This information is used when generating the reports described in Chapter 5.

4.3 MULTIPLE ANALYST USAGE

DIFFERENT USERS

4.3.1 The ILS Assessment software can be used by multiple analysts (one at a time) on one computer. These analysts can assess the same or different aspects of selected equipment. Each analyst can assess the same or a different piece of equipment.

TAGGING RESULTS

4.3.2 Each time a new user enters the program, he completes the Analyst Identification and Sign-on Screens as described in Chapter 3. The program stores the information for each user in a separate record. Every question answered by the analyst during an assessment is tagged with the analyst identification, equipment identification, date, and time the session started.

4.4 PERFORMING AN ASSESSMENT

MAIN MENU

4.4.1 The ILS Assessment Program is entered from the Main Menu. Refer to Chapter 3 for procedures on completing the preliminary screens necessary to reach the Main Menu. From the Main Menu, select the PERFORM ASSESSMENT option under OPERATIONS. This brings up the assessment program.

STARTING ASSESSMENT

4.4.2 Upon selecting the PERFORM ASSESSMENT option from the MAIN MENU, a list of assessment topics is displayed. Each topic has a series of questions which must be answered to perform the assessment. Refer to Appendix B for a complete list of these questions. To select an assessment topic, use the arrow keys to move the highlight bar to the topic desired and press <Enter>. For a further discussion of selecting an assessment topic, see Chapter 3, paragraph 3.5.1 PERFORM ASSESSMENT.

4.5 ANSWERING QUESTIONS

QUESTION SELECTION

4.5.1 After selecting a topic, and a subtopic (if required), the related question list is superimposed on the Assessment Selection Screen. To answer a question, use the arrow keys to move the highlight bar to the desired question number and press <Enter>.

NOTE

The assessment of an answered question can only be changed if it was answered during the current session.

4.5.2 The Question Screen is displayed. The Navigation Menu (see Figure 3-9) appears at the top of the Question Screen, and becomes active (e.g., the program is in a "wait state" while the user makes a selection). The default selection is ASSESSMENT.

4.5.3 To begin answering a question, use the arrow keys to highlight and select the ASSESSMENT option. There are two types of questions that may appear during an assessment. The first type requires either a YES, NO or N/A answer, while the second type requires an explanation.

QUESTION RESPONSE

4.5.4 After reading the question, you can choose to answer it or activate the Navigation Menu by pressing <ESC>. For YES/NO/NA questions, the responses appear below the question and for explanation questions, a box containing a message is displayed.

4.5.5 To answer the first type of question, use the arrow keys to highlight YES, NO, or N/A and press <Enter> to select. Refer to figure 4-1 for an example of how a question screen is displayed.

NOTE

During the assessment procedure, the <F2> function key is used to toggle between the question and the assessment screens. After toggling back to the question, a series of subquestions that discuss additional points are displayed beneath the main question. The <F10> function key is used to save the assessment, and the <ESC> key is used to abort the assessment and proceed to the next question.

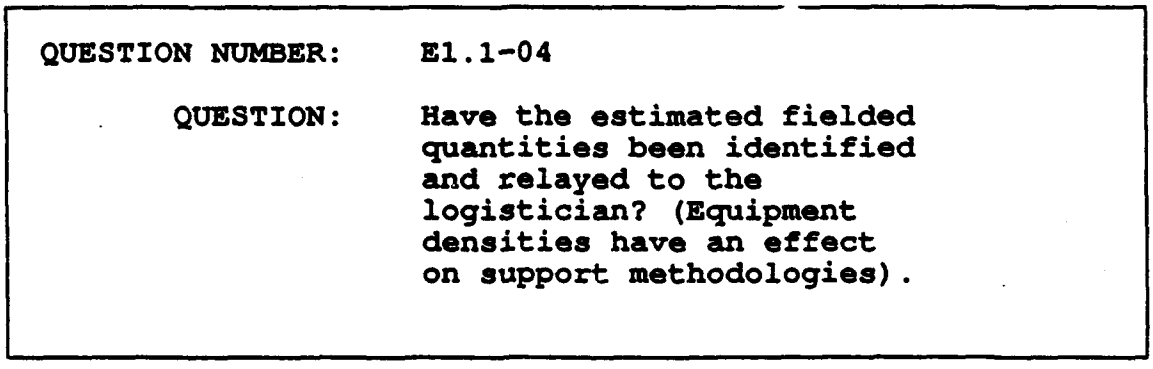

Figure 4-1. Sample Question Screen

4.5.6 Questions of the second type require an explanation instead of a YES, NO, or N/A response. The question types are predetermined and cannot be changed by the user.

4.6 QUESTIONS WITH "EXPLANATION" ANSWERS

EXPLANATION RESPONSE

4.6.1 When an explanation question is selected, a box with the following instructions is displayed at the bottom of a text question screen shown in Figure 4-2.

"<Enter> to proceed, any <Key> next question, <F3> to mark Not Applicable."

4.6.2 ENTERING AN ASSESSMENT. To proceed with your explanation, press <Enter>. The software displays the assessment screen (see Figure 4-3).

4.6.3 NEXT QUESTION. If you decide not to answer the question at this time, press any <Key> other than <Enter> or <F3>. This question is skipped and the software automatically moves to the next question without recording your answer.

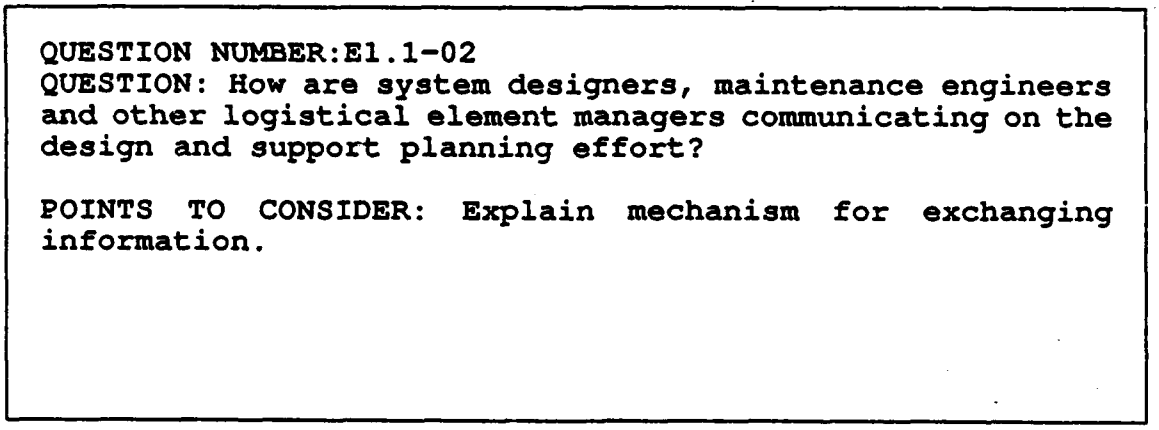

Figure 4-2. Text Question Screen

4.6.4 NOT APPLICABLE. If this question is not applicable to the equipment or life cycle phase press <F3>. The software records your answer and automatically moves to the next question.

4.7 QUESTIONS WITH "YES" ANSWERS

YES RESPONSE

4.7.1 If the response is YES, an assessment screen is displayed (Figure 4-3) for you to enter an assessment (e.g., narrative text answering the question). The assessment screen provides you with a word processing capability. On this screen you may type up to 14 pages of information concerning each question. Your assessment may consist of the work planned or accomplished in the project that deals with the main issue of the question, or actions required to comply with the intent of the question. If you would like to see the question while entering the assessment, press <F2>. After typing in the narrative text of your assessment, the results must be saved by pressing the <F10> key.

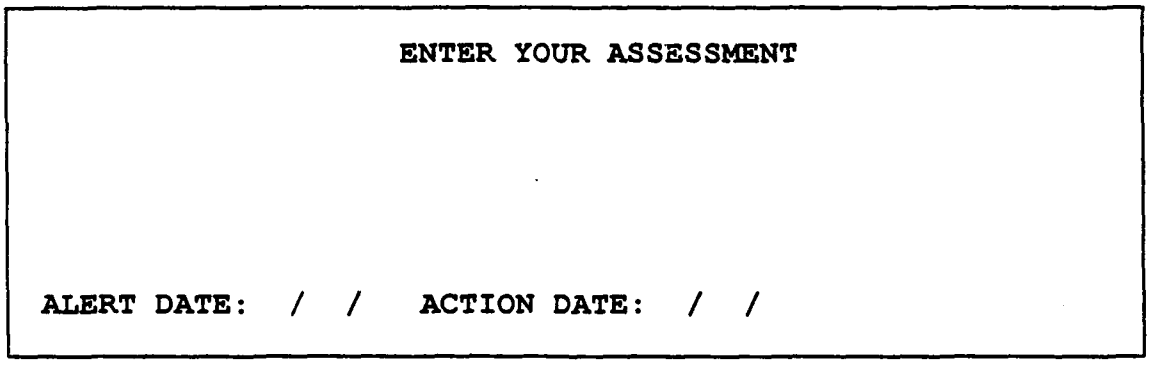

Figure 4-3. Example of the Assessment Screen

ALERT/ ACTION DATE

4.7.2 After completing the assessment and pressing <F10>, the ALERT DATE and ACTION DATE fields are activated. The ALERT DATE field allows the analyst to record a follow-up date to check on specific actions which should be occurring to resolve a problem. The software only accepts the Alert Date if it is greater than or equal to the session date.

4.7.3 The ACTION DATE field permits the analyst to indicate when specific actions must be completed. Action Dates must be greater than or equal to Alert Dates or they will not be accepted by the software. If these dates were completed for the same question during a previous session, the dates appear in the fields provided. To complete or edit the dates, proceed as follows:

a. Complete these fields using the DD/MM/YYYY format. For a single digit, enter a blank space or zero to the left of the digit. The program accepts only actual dates. If an incorrect date is entered, the computer beeps and returns to the first character in the field.

b. Once both fields are completed, a verification message is displayed. If the dates are correct, press <Enter>. If not, type "N" and press <Enter>. The cursor then returns to the ALERT DATE field for editing.

c. There is no requirement to complete these fields. To skip either or both of these fields, press <Enter> once or twice. <Enter> can also be used to accept a field that was previously completed. The verification message is displayed. Press <Enter> to select "Y".

4.8 QUESTIONS WITH "NO" ANSWERS

NO RESPONSE

4.8.1 If the response to the question is NO, a sequence of screens follows. The first is a Cost and Scheduling Impact Screen which is displayed beneath the question as shown in Figure 4-4. This screen gives you the ability to rate the impact on the Weapon System program by selecting CRITICAL, INTERMEDIATE, or ROUTINE.

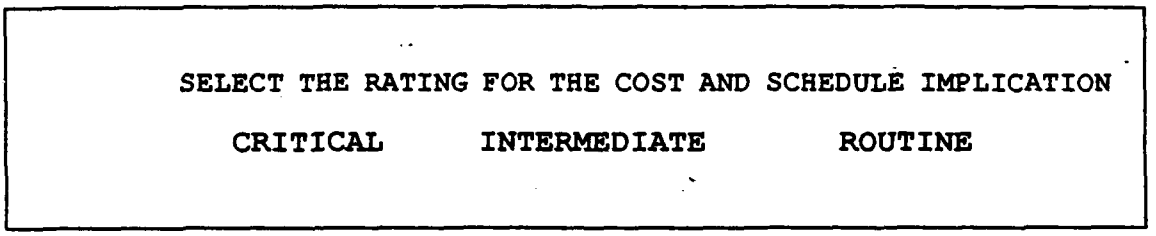

Figure 4-4. Cost and Schedule Rating Screen

SELECT OPTIONS

4.8.2 The user must select one of these options which indicates the time frame for resolving issues that may cause a program schedule slip or cost increase. The CRITICAL option indicates immediate resolution; the INTERMEDIATE option indicates resolution within 30 days; and the ROUTINE option indicates resolution within cost and schedule constraints.

MILESTONE ASSESSMENT

4.8.3 After selecting one of the options, the Milestone Assessment Screen is displayed (Figure 4-5). On this screen, briefly explain what part of the schedule has been impacted or identify the significant cost driver. To save this information, press <F10>. Following completion of the Milestone Schedule Assessment Screen, the user is asked to rate the Performance and Sustainability Implications.

PERF. & SUST.

4.8.4 The Performance and Sustainability Rating Screen is shown in Figure 4-6. The rating options are again CRITICAL, INTERMEDIATE, or ROUTINE. After making the appropriate selection, a Milestone Performance Assessment Screen is displayed. The user enters a brief explanation of how system performance and sustainability is impacted by the issues addressed in the question. To save the information, press <F10>.

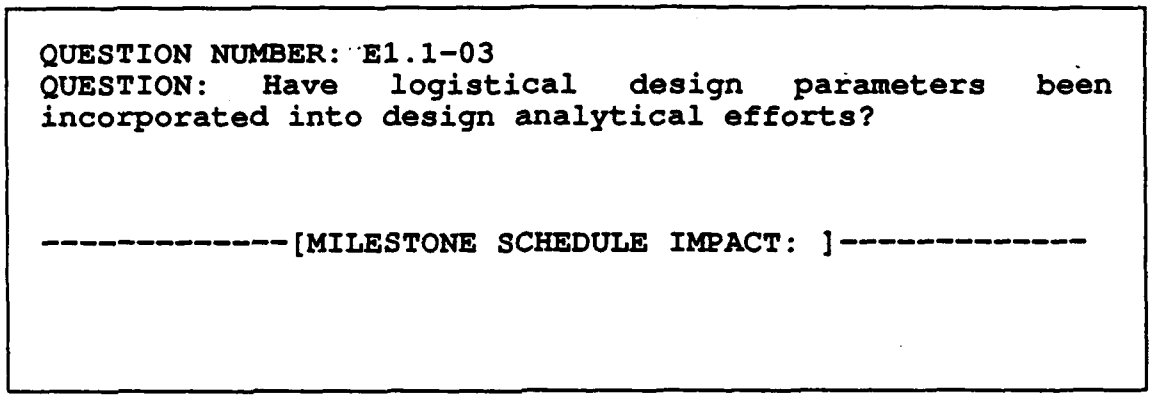

Figure 4-5. Milestone Assessment Screen

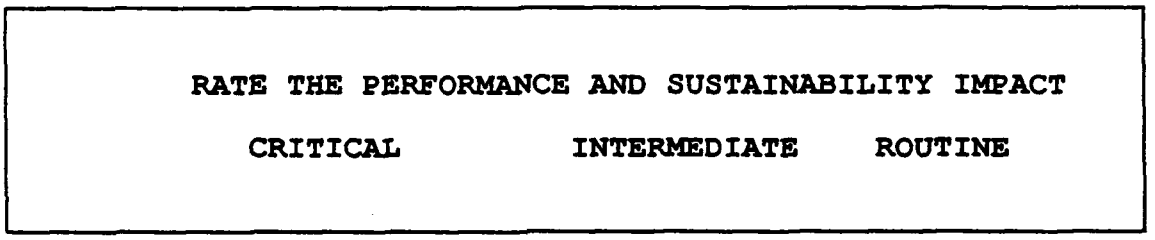

Figure 4-6. Performance and Sustainability Rating Screen

ASSESSMENT RESULTS

4.8.5 The next screen displayed is the Enter Assessment Results Screen. The user enters the assessments results stating why the question was answered "NO". If appropriate, the user should enter a list of actions that must be accomplished to correct any deficiency along with a schedule. Press <F10> to save the information and activate the ALERT DATE and ACTION DATE fields prior to answering the next question. Complete the ALERT DATE fields as indicated in paragraph 4.7.2.

4.9 QUESTIONS WITH "N/A" ANSWERS

MARKING A QUESTION N/A

4.9.1 The user may determine during the course of the assessment that a question is not applicable. A question is not applicable when it is deemed not relevant to the equipment under analysis or does not pertain to the current life cycle phase. To make a question not applicable, use the arrow keys

to highlight the N/A choice and press <Enter> to select it. The software records the response and automatically moves to the next question.

CHANGING THE N/A

4.9.2 If a question was marked not applicable during a previous session (by any analyst assessing the equipment), a message to that effect is displayed, when the question is selected again. If the user determines that the question is now relevant, the N/A response may be changed. Use the <F3> key to return the question to its original state so it can be answered following the procedures described in paragraph 4.5.2

4.10 FUNCTION KEYS

NAVIGATION KEYS

4.10.1 The function keys are used as an aid to the user. If you would like to go to another question, instead of answering the present question, press <ESC>. This displays the navigation menu.

4.10.2 Use the arrow keys to highlight one of the other options of the Navigation Menu. These options are ASSESSMENT, FIRST, LAST, NEXT, PREVIOUS, SEARCH, EDIT, and EXIT. For a description of these selections, refer to Chapter 3, Table 3-1. To return to the Main Menu from the Navigation Menu, the user may press the <ESC> key or highlight and select the EXIT option.

<F10> KEY

4.10.3 <F10> KEY. The <F10> key is available on the Assessment Screen and the two milestone screens. It is used to save the narrative text after the user has finished typing a response.

<ESC> KEY

4.10.4 <ESC> KEY. The <ESC> key has several functions. If you press the <ESC> key prior to selecting a response (i.e. YES/NO/NA) to a question, the Navigation Menu becomes active and the arrow keys can be used to make a selection.

4.10.5 Pressing the <ESC> key from the Navigation Menu, returns you to the Main Menu. If you press <ESC> from the Main Menu, you exit the program.

4.10.6 Pressing the <ESC> key while filling out the assessment screen aborts the answer and displays the next question. Any narrative that is written is not saved.

HELP KEY

4.10.7 <F1> Key. The <F1> key is the help key. Pressing this key displays information to assist the user on using the software, explaining Menu choices or inputting data for a specific screen, and defining the topics on the Assessment Selection Screen. The help key also displays a help menu. This menu allows the user to get context sensitive help for the listed topics.

4.10.8 WORD PROCESSING FUNCTION KEYS. The keys shown in table 4-1, are used when entering text into the program.

Table 4-1. Word Processing Function Keys

WORD PROCESSING KEYS

KEY	FUNCTION
<Insert>	Used to insert a letter, word or phrase between existing words at the location of the cursor.
<Delete>	Used to delete a single letter located under the cursor.
<Backspace>	Used to backspace and erase the previous letter.
<Caps Lock>	Used to enter all upper case letters.
<Enter>	Used to create a hard return to move the cursor to the next line.
<Tab>	Used to indent text line 5 spaces.

CHAPTER 5
REPORT GENERATION

5.1 INTRODUCTION

5.1.1 This chapter provides the user with the information required to generate reports for the ILS assessment performed. All reports can be output to the screen, printer or file.

5.2 SELECTING A REPORT

REPORT CHOICES

5.2.1 The user enters the report generator program from the OPERATIONS option on the Main Menu. After selecting the OPERATIONS option, the user selects the REPORT GENERATOR option. A Reports Welcome Screen is displayed, followed by the Reports Generator Main Menu. The user must press <Enter> on the Report Generation Screen to reach the Main Menu.

5.2.2 The Main Menu has seven report selections and one exit selection. Reports 1 and 2 are executed directly off this menu, while reports 3 through 7 have several submenu options. To select a report, move the highlight bar to the desired choice and press <Enter>. Either a message indicating the report is processing or a window containing a submenu of reports will be displayed. The report options are shown in Figure 5-1 and described in the following paragraphs.

5.2.3 SYSTEM/EQUIPMENT DATA. This option generates a report containing the system/equipment data for this session to the output device selected.

5.2.4 OVERALL ASSESSMENT RESULTS. This option generates a report containing the overall assessment results for the selected equipment to the output device selected.

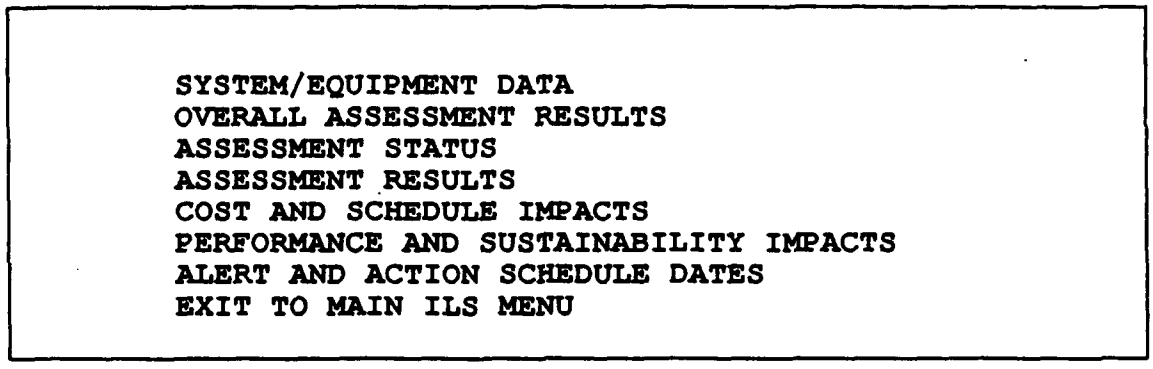

Figure 5-1. Report Generator Main Menu

5.2.5 ASSESSMENT STATUS. This option displays a submenu which allows the user to generate either a WEAPONS SYSTEM CURRENT STATUS REPORT or a CURRENT REVIEW SESSION REPORT. The report is directed to the selected output device.

5.2.6 ASSESSMENT RESULTS. This option displays a submenu which allows the user to select an ASSESSMENT HISTORY REPORT, WEAPONS SYSTEM CURRENT STATUS REPORT or a CURRENT REVIEW SESSION REPORT. The generated report is then directed to the output device selected.

5.2.7 COST AND SCHEDULE IMPACTS. This option displays a submenu which allows the user to select a WEAPONS SYSTEM CURRENT STATUS REPORT, CURRENT REVIEW SESSION REPORT, CRITICALITY ANALYSIS REPORT or a WEAPONS SYSTEM SUMMARY REPORT. The generated report is then directed to the output device selected.

5.2.8 PERFORMANCE AND SUSTAINABILITY IMPACTS. This option displays a submenu which allows the user to select a WEAPONS SYSTEM CURRENT STATUS REPORT, CURRENT REVIEW SESSION REPORT, CRITICALITY ANALYSIS REPORT or a WEAPONS SYSTEM SUMMARY REPORT. The generated report is then directed to the output device selected.

5.2.9 ALERT AND ACTION SCHEDULE DATES. This option displays a submenu which allows the user to select an ALERT DATE ITEMS REPORT or an ACTION DATE ITEMS REPORT. The generated report is then directed to the output device selected.

5.2.10 EXIT TO MAIN ILS MENU. This option terminates the report generator program and returns the user back to the ILS Main Menu.

5.3 CHANGING REPORT DESTINATION

5.3.1 The ILS Assessment software allows the User to output reports to the screen, printer, or file. The mechanism to control the output, device is located on the last line of the Report Menu Screen. Pressing the <F2> key toggles between the three options.

SCREEN OUTPUT

5.3.2 SCREEN OUTPUT. The default device for Report Output is the Screen or Video Display. After the report module loads, the output device is set to screen. After selecting the output device, select any report from the menu and the software generates it. After several minutes the report is displayed to the screen in a format that is analogous to one of the figures presented in Chapter 5. To scroll through the report use the up & down arrow, page up, page down, home, and end keys. Once you have finished reviewing the report, use <ESC> to exit and return to the Report Menu.

PRINTER OUTPUT

5.3.3 PRINTER OUTPUT. Press the <F2> key once to change the output device to printer. Make sure that your printer is on-line. Select the report from the Report Menu. After several minutes your report will begin to print out. Depending on the amount of data in the report, it may take a long period of time for the complete report to print out. At the conclusion of the report, a message indicating the report has finished will be displayed.

FILE OUTPUT

5.3.4 FILE OUTPUT. To change the output device to file, press <F2> twice from the Screen Device option or once from the Printer Device option. When this option is chosen, the file name must be entered. The file name must be eight characters or less. Type the name of the file and press <ENTER>. An .RPT file extension is automatically appended to the name of the file. Choose the Report you wish to generate from the Report Menu and after several minutes a message is displayed indicating the report is complete.

NOTE

Caution should be used when naming reports, since a newly created report file can overwrite an existing report file with the same name.

REPORT FILES

5.3.5 REPORT FILES. The files created from the File Output option are stored in the directory containing the ILS Program. The file is an ASCII text file devoid of any special control characters. The page layout of the information contained in the file is formatted exactly like the printed output. This file maybe imported into a word processor in order to print out only pertinent parts of the report or redirected to a printer at a later date. For instructions on printing a text file from DOS, consult your DOS manual.

SYSTEM/ EQUIPMENT DATA REPORT

5.4 SYSTEM/EQUIPMENT DATA REPORT

5.4.1 This report provides information on the system/equipment being assessed (the system/equipment selected on the Equipment Sign-On Screen). Information related to the life cycle phase, project manager and reviewer is included. Refer to Figure 5-2 for an example of this report.

5.5 OVERALL ASSESSMENT RESULTS REPORT

OVERALL ASSESSMENT RESULTS REPORT

5.5.1 This report contains the narrative text, Cost and Schedule (C/S), and the Performance and Sustainability (P/S) ratings input for each review topic. The C/S and P/S ratings are CRITICAL, INTERMEDIATE, and ROUTINE. The report is sorted by process number and contains the last assessment for each topic. The topic title and the date of the last assessment are also included. Refer to Figure 5-3 for an example of this report.

5.6 ASSESSMENT STATUS REPORT

ASSESSMENT STATUS REPORT

5.6.1 This report has two options: WEAPON SYSTEM CURRENT STATUS and CURRENT REVIEW SESSION REPORT.

5.6.2 These reports contain seven columns. The columns are labeled: Question, Answer, Review Date, Reviewer Initials, C/S Rating, P/S Rating and Action Date. For the questions answered YES, N/A, or Text, the C/S and P/S ratings will not appear. The Action Date may or may not be completed. Any question not answered will have blank columns to the right of the question number.

5.6.3 CURRENT WEAPON SYSTEM STATUS. This report is used to determine the assessment status of the selected System/Equipment. It lists all questions and shows which are answered. A summary is included at the end of the report which indicates the number of questions answered YES/NO/NA/TEXT, and NOT ANSWERED. Following this is a Criticality Summary for the C/S and P/S showing the total number of questions rated as Critical, Intermediate, or Routine. Refer to Figure 5-4 for an example of this report.

5.6.4 CURRENT REVIEW SESSION. This report has the same format as the CURRENT WEAPONS SYSTEM STATUS REPORT. However, it contains only those questions answered during the current session. Refer to Figure 5-5 for an example of this report.

5.7 ASSESSMENT RESULTS REPORT

ASSESSMENT RESULTS REPORT

5.7.1 This report has three options: ASSESSMENT HISTORY REPORT; WEAPON SYSTEM CURRENT STATUS REPORT; and CURRENT REVIEW SESSION REPORT. All versions of this report are generated in question number order, but list only those questions that have been answered. In addition, each topic (e.g., process) begins on a new page.

5.7.2 All reports start with the question number and question. This is followed by any related subquestion (if applicable). The answer (i.e., YES/NO/NA/TEXT), session date, and reviewer's name follow the question. If a YES response was made, the assessment (narrative text) will follow.

5.7.3 If a NO response was entered, the Cost and Schedule Rating and short explanation of the rating will follow. Next, the Performance and Sustainability rating with its short explanation will appear. The last item is the assessment results (narrative text) which may include any actions.

5.7.4 HISTORICAL REPORT. The historical report prints each question and subquestion once. This is followed by all the answers to the question in descending date order (latest to earliest). The answers to a question are separated by a line, and the questions are separated by a gray band. Refer to Figure 5-6 for an example of this report.

5.7.5 CURRENT WEAPON SYSTEM STATUS. This report has the same format as the historical report. However, it contains only one answer to every question. The last answer entered, regardless of the analyst who entered it, is included. Refer to Figure 5-7 for an example of this report.

5.7.6 CURRENT REVIEW SESSION. This report has the same format as the historical report. However, it contains only the answers input by the analyst performing the assessment during the current session. Refer to Figure 5-8 for an example of this report.

5.8 COST AND SCHEDULE IMPACTS REPORTS

COST AND SCHEDULE IMPACTS REPORT

5.8.1 This report has four options: Current Weapon System Status; Current Review Session; Criticality Analysis; and Weapon System Summary.

5.8.2 CURRENT WEAPON SYSTEM STATUS REPORT. This report is sorted by rating. All CRITICAL issues are grouped together followed by INTERMEDIATE and ROUTINE issues. Within each rating group, the questions are broken down by topic where the first question for each topic starts on a new page.

5.8.3 This report is formatted so that question number, question, subquestion (if applicable) appear first. This is followed by the Cost and Schedule Impact (short narrative), and a detailed action field. Refer to Figure 5-9 for an example of this report.

5.8.4 CURRENT REVIEW SESSION. This report has the same format as the Current Weapon System Status Report. However, this report contains only the answers input by the analyst during the current session. Refer to Figure 5-10 for an example of this report.

5.8.5 CRITICALITY ANALYSIS REPORT. This report provides a summary of problem areas for the equipment being assessed. The report is grouped by rating (CRITICAL, INTERMEDIATE, or ROUTINE). It contains all questions whose last answer was NO. Within each grouping, the topics are sorted by topic number and within each topic, the questions are sorted by question number. For each question, the alert and action dates are listed. At the conclusion of each group, the total number of questions within each rating group is provided. At the end of the report, the total number of questions (e.g. TOTAL ACTIONS) counted in the report is provided. Refer to Figure 5-11 for an example of this report.

5.8.6 WEAPON SYSTEM SUMMARY REPORT. This report compares, by topic, the number of questions rated CRITICAL, INTERMEDIATE, and ROUTINE to the number answered satisfactorily and also includes those remaining to be answered.

5.8.7 This report contains seven columns labeled: Process #; Title; Critical; Intermediate; Routine; Satisfactory; and To Do. It is sorted by process number and reflects only the last answer to each question. All topics are included, even if no questions were answered. The report is intended to identify those topics where a large number of problems exist, and therefore require additional effort. Refer to Figure 5-12 for an example of this report.

5.9 PERFORMANCE AND SUSTAINABILITY IMPACT REPORTS

PERFORM-ANCE & SUSTAIN-ABILITY

5.9.1 This report has four options: Current Weapon System Status; Current Review Session; Criticality Analysis; and Weapon System Summary.

5.9.2 CURRENT WEAPON SYSTEM STATUS REPORT. This report is sorted by rating. All CRITICAL issues are grouped together followed by INTERMEDIATE and ROUTINE issues. Within each rating group, the questions are broken down by topic where the first question for each topic starts on a new page. Refer to Figure 5-13 for an example of this report.

5.9.3 This report is formatted so that question number, question and subquestion (if applicable) appear first. This is followed by the Cost and Schedule Impact (short narrative), and a detailed action field.

5.9.4 CURRENT REVIEW SESSION. This report has the same format as the Current Weapon System Status Report. However, it contains only the answered questions entered by the analyst during the current session. Refer to Figure 5-14 for an example of this report.

5.9.5 CRITICALITY ANALYSIS REPORT. This report provides a summary of problem areas for the equipment being assessed. The report is grouped by rating (CRITICAL, INTERMEDIATE, or ROUTINE). It contains all questions whose last answer was NO. Within each grouping, the topics are sorted by topic number and within each topic, the questions are sorted by question number. For each question, the alert and action dates are listed. At the conclusion of each group, the total number of questions within each rating group is provided. At the end of the report, the total number of questions (e.g. TOTAL ACTIONS) counted in this report is provided. Refer to Figure 5-15 for an example of this report.

5.9.6 WEAPON SYSTEM SUMMARY REPORT. This report compares, by topic, the number of questions rated CRITICAL, INTERMEDIATE, and ROUTINE to the number answered satisfactorily and also includes those still remaining to be answered.

5.9.7 This report contains seven columns labeled: Process #; Title; Critical; Intermediate; Routine; Satisfactory; and To Do. It is sorted by process number and reflects only the last answer to each question. All topics are included, even if no questions were answered. The report is intended to identify those topics where a large number of problems exist, and therefore require additional effort. Refer to Figure 5-16 for an example of this report.

5.10 ALERT AND ACTION SCHEDULE DATES REPORTS

ALERT AND ACTION SCHEDULE DATES REPORTS

5.10.1 This report has two options: Alert Date List of Problem Areas; and Action Date List of Problem Areas. The Alert Date List contains a set of follow-up dates related to specific questions, while the Action Date List contains a set of completion dates related to specific actions associated with a question. Each report is a Weapon System Current Status type, but contains only those questions where dates were entered. The questions are sorted by ALERT or ACTION date.

5.10.2 ALERT DATE ITEMS LIST. This report contains all questions where the ALERT DATE has been completed. It is sorted by ALERT DATE from the oldest to the newest. There are six columns in the report that are labeled: Question, Answer. C/S Rating, P/S Rating, Alert Date, and Days Left. The report contains YES/NO/TEXT answers. For YES and TEXT answers, the ratings are blank. The Days Left column indicates the number of days remaining from the Report Date before a follow-up is required. A negative number in this column indicates that the follow-up date has passed. Refer to Figure 5-17 for an example of this report.

5.10.3 ACTION DATE ITEMS LIST. This report contains all questions where the ACTION DATE has been completed. It is sorted by ACTION DATE from the oldest to the newest. There are six columns in the report that are labeled: Question, Answer, C/S Rating, P/S Rating, Alert Date, and Days Left. The report contains YES/NO/TEXT answers. For YES and TEXT answers, the ratings are blank. The Days Left column indicates the number of days remaining from the Report Date before all actions associated with the question must be completed. A negative number in this column indicates that the actions have not been completed. Refer to Figure 5-18 for an example of this report.

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ASSESSMENT OF ILS MAINTENANCE PLANNING
REVIEW MANAGEMENT REPORT

EQUIPMENT IDENTIFICATION:	
SYSTEM:	XX XX XXXXXX
SUBSYSTEM:	Not Subsystem
MILESTONE IDENTIFICATION:	
LOCAL ILS:	XXX
AMC PAM 70-20:	XXX
DA PAM 700-26:	X
PROJECT MANAGER POINT OF CONTACT:	
COMMAND/OFFICE:	XXXXXXXX
CONTACT NAME:	XXX X., XXXX
CONTACT PHONE:	1(XXX)-XXX-XXXX
REVIEWER REFERENCES:	
COMMAND/OFFICE:	XXXX
REVIEWER NAME:	XXXXX, XXXXXX
PHONE:	1(XXX)-XXX-XXXX
REVIEW DATE:	XX/XX/XX
AUTOVON PHONE:	
SEND REPORT TO:	XXXX XXXXXX
NOTES:	

Figure 5-2. System/Equipment Data Report

OVERALL ASSESSMENT RESULTS
WEAPON SYSTEM CURRENT STATUS

ASSESSMENT OF MAINTENANCE PLANNING

EQUIPMENT ID: XXXXXX MILESTONE: XXX

Page #1 REPORT DATE: XX/XX/XX

E1.1	Review Design for Logistical Impacts	Review Date XX/XX/XX	C/S INTERMED	P/S ROUTINE

Summary

E1.3A1	Review Tasks or Functions to Mission Requirements	Review Date XX/XX/XX	C/S CRITICAL	P/S CRITICAL

Summary

E1.4A1	Review (P)MAC for Accuracy & Completeness	Review Date XX/XX/XX	C/S	P/S

Summary

E1.5A1	Assess Reliability Centered Maintenance (RCM) Results	Review Date	C/S	P/S

Summary

Figure 5-3. Overall Assessment Results Report

WEAPON SYSTEM CURRENT ILS STATUS
ASSESSMENT OF ILS MAINTENANCE PLANNING

EQUIPMENT ID: XXXXXX MILESTONE: XXX

PAGE #: 1 REPORT DATE: XX/XX/XX

QUESTION	ANSWER	REVIEW DATE	INIT	COST & SCHED RATING	PERF & SUST RATING	ACTION DATE
E1.1	Review Design for Logistical Impacts					
E1.1-01						
E1.1-02						
E1.1-03	NO	XX/XX/XX	AA	INTERMED	INTERMED	XX/XX/XX
E1.1-04						
E1.1-05	TEXT	XX/XX/XX	BB	---	---	/ /
E1.1-06						
E1.1-07						
E1.1-08						
E1.1-09						
E1.1-10						
E1.1-11						
E1.1-12						
E1.2	Review Program Management Documentation for Completeness					
E1.2-01						
E1.2-02						
E1.2-03	YES	XX/XX/XX	AA	---	---	/ /
E1.2-04						
E1.2-05	TEXT	XX/XX/XX	BB	---	---	/ /
E1.2-06	NO	XX/XX/XX	CC	ROUTINE	ROUTINE	XX/XX/XX
E1.2-07						
E1.2-08						
E1.2-09						
E1.2-10						
E1.2-11						
E1.2-12						
E1.3A1	Review Tasks or Functions to Mission Requirements					
E1.3A-01						
E1.3A-02						
E1.3A-03						
E1.3A-04						
E1.3A-05						

Figure 5-4. Assessment Status Report (Weapon System Current Status) Sheet 1 of 2

WEAPON SYSTEM CURRENT ILS STATUS
ASSESSMENT OF ILS MAINTENANCE PLANNING

EQUIPMENT ID: XXXXXX	MILESTONE: XXX

PAGE #: XX REPORT DATE: XX/XX/XX

REVIEW STATUS SUMMARY

YES	10
NO	8
N/A	4
TEXT	2
UNANSWERED	198
TOTAL	222

CRITICALITY SUMMARY

	CRITICAL	INTERMEDIATE	ROUTINE
Cost and Schedule	4	3	1
Performance and Sustainability	3	3	2
Total	7	6	3

Figure 5-4. Assessment Status Report (Weapon System Current Status) Sheet 2 of 2

CURRENT REVIEW SESSION REPORT
ASSESSMENT OF ILS MAINTENANCE PLANNING

EQUIPMENT ID: XX XX XXXXX REVIEWER: X. XXXXXX
REVIEW DATE: XX/XX/XX OFFICE SYMBOL: XXXXX
MILESTONE: XXX

PAGE #: 1 XX/XX/XX

QUESTION	ANSWER	COST & SCHED RATING	PERF & SUST RATING	ACTION DATE
E1.6A3	Review Depot Support Plans			
E1.6A3-01	YES	---	---	/ /
E1.6A3-02	YES	---	---	XX/XX/XX
E1.6A3-03	N/A	---	---	---
E1.6A4	Review ISSA, HNS, CLS, ICLS Implementation Plans			
E1.6A4-01	N/A	---	---	---
E1.6A4-02	N/A	---	---	---
E1.6A6	Review Warranty Implementation Plans			
E1.6A6-01	NO	CRITICAL	INTERMEDIATE	XX/XX/XX
E1.6A7	Review SDC Plans and Execution			
E1.6A7-01	NO	INTERMEDIATE	ROUTINE	XX/XX/XX
E1.7A1	Review Sub-Assessments for Overall Consistency			
E1.7A1-02	NO	CRITICAL	CRITICAL	XX/XX/XX
E1.7A4	Identify Actions Requiring Further Analysis for Resolution			
E1.7A4-01	YES	---	---	XX/XX/XX

Figure 5-5. Assessment Status Report (Current Review Session Report)

HISTORICAL ASSESSMENT RESULTS
ASSESSMENT OF MAINTENANCE PLANNING

EQUIPMENT ID: XXXXXX MILESTONE: XXX

PAGE #: XX REPORT DATE: XX/XX/XX

PROCESS E1.1 Review Design for Logistical Impacts

---------- QUESTION----------
QUESTION #: E1.1-01
Do design specifications establish logistical requirements (i.e., maintainability, reliability) to meet system readiness objectives and the operational scenarios?

ANSWER: YES SESSION DATE: XX/XX/XX REVIEWER: X. XXXXX

----------ASSESSMENT----------

ANSWER: NO SESSION DATE: XX/XX/XX REVIEWER: X. XXXXX

COST & SCHEDULE RATING: ROUTINE
COST & SCHEDULE IMPACT:

PERFORMANCE & SUSTAINABILITY RATING: ROUTINE
PERFORMANCE AND SUSTAINABILITY IMPACT:

----------ACTION----------

Figure 5-6. Assessment Results Report (Assessment History)

ASSESSMENT RESULTS
WEAPON SYSTEM CURRENT STATUS
ASSESSMENT OF MAINTENANCE PLANNING

EQUIPMENT ID: XXXXXX MILESTONE: XXX

PAGE #: XX REPORT DATE: XX/XX/XX

PROCESS E1.1 Review Design for Logistical Impacts

---------- QUESTION----------

QUESTION #: E1.1-02

How are system designers, maintenance engineers, and other logistical element managers communicating on the design and support planning effort?

----------SUBQUESTION----------

o Explain mechanism for exchanging information.

ANSWER: TEXT SESSION DATE: XX/XX/XX REVIEWER: X. XXXXX

----------ASSESSMENT----------

Figure 5-7. Assessment Results Report (Weapons System Current Status)

ASSESSMENT RESULTS
CURRENT REVIEW SESSION
ASSESSMENT OF MAINTENANCE PLANNING

EQUIPMENT ID: XXXXXX MILESTONE: XXX

PAGE #: XX REPORT DATE: XX/XX/XX

PROCESS E1.1 Review Design for Logistical Impacts

---------- QUESTION----------

QUESTION #: E1.1-02
How are system designers, maintenance engineers, and other logistical element managers communicating on the design and support planning effort?

ANSWER: TEXT SESSION DATE: XX/XX/XX REVIEWER: X. XXXXX

----------ASSESSMENT----------

Figure 5-8. Assessment Results Report (Current Review Session)

COST AND SCHEDULE IMPACT REPORT
WEAPON SYSTEM CURRENT STATUS
ASSESSMENT OF ILS MAINTENANCE PLANNING

EQUIPMENT ID: XXXXXX OFFICE SYMBOL: XXXXX
ILS MILESTONE: XXX

Page #: 1 Report Date: XX/XX/XX

CRITICAL ISSUE

E1.4A1 Review (P)MAC for Accuracy & Completeness
QUESTION #: E1.4A1-02

---------- QUESTION----------

Do the functional group codes adequately reflect the system from a top-down breakdown?

----------SUBQUESTION----------

-Identify functional groups that have placed at incorrect level in the breakdown. -How will this functional group be placed at the correct level? (The End Item Family Tree is useful in performing this analysis.)

COST AND SCHEDULE IMPACT
(A three line text field that includes a short explanation of the cost and/or schedule impact.)

----------ACTION----------

Figure 5-9. Cost and Schedule Impacts Report (Weapons System Current Status)

COST AND SCHEDULE IMPACT REPORT
CURRENT REVIEW SESSION
ASSESSMENT OF ILS MAINTENANCE PLANNING

EQUIPMENT ID: XXXXXX OFFICE SYMBOL: XXXXX
ILS MILESTONE: XXX

Page #: 1 Report Date: XX/XX/XX

CRITICAL ISSUE

PROCESS # :E1.4A03 Review Compatibility of (P)MAC
QUESTION #: E1.4A1-02 with (B)MC

---------- QUESTION----------

Have adequate and accurate task times been input into the (P)MAC?

----------SUBQUESTION----------

-Specify whether the results of testing and demonstrations contradict these values. -Identify the reason the times in (P)MAC and the actual times are different (e.g., training, publications etc.)

COST AND SCHEDULE IMPACT

81 MM Mortar Question E1.4A03-03
XX/XX/XX C&S Rating: Critical
Session #X Analyst: XXX XXXX

----------ACTION----------

Figure 5-10. Cost and Schedule Impacts Report (Current Review Session Report)

COST AND SCHEDULE IMPACT REPORT
CRITICALITY ANALYSIS REPORT
ASSESSMENT OF ILS MAINTENANCE PLANNING

EQUIPMENT ID: XXXXXX ILS MILESTONE: XXX
LAST SESSION DATE: XX/XX/XX REVIEWER: X. XXXXXX

Page #: 1 Report Date: XX/XX/XX

----------CRITICAL----------

E1.4A1 Review (P)MAC for Accuracy & Completeness
E1.4A1.02 ALERT DATE: ACTION DATE:

E1.6A6 Review Warranty Implementation Plans
E1.6A6-01 ALERT DATE: XX/XX/XX ACTION DATE: XX/XX/XX

E1.7A1 Review Sub-Assessments for Overall Consistency
E1.7A1-02 ALERT DATE: XX/XX/XX ACTION DATE: XX/XX/XX

TOTAL CRITICAL ACTIONS: 3

----------INTERMEDIATE----------

E1.1 Review Design for Logistical Impacts.
E1.1-07 ALERT DATE: XX/XX/XX ACTION DATE:XX/XX/XX

E1.4A1 Review (P)MAC for Accuracy & Completeness
E1.4A1-03 ALERT DATE: XX/XX/XX ACTION DATE: XX/XX/XX

E1.6A7 Review SDC Plans and Execution.
E1.6A7-01 ALERT DATE: XX/XX/XX ACTION DATE: XX/XX/XX

TOTAL INTERMEDIATE ACTIONS: 3

----------ROUTINE----------

E1.2 Review Program Management Documentation for Completeness
E1.2-07 ALERT DATE: XX/XX/XX ACTION DATE:XX/XX/XX

TOTAL ROUTINE ACTIONS: 3

SUMMARY TOTAL ACTIONS: 7

Figure 5-11. Cost and Schedule Impacts (Criticality Analysis)

COST AND SCHEDULE SUMMARY REPORT
ASSESSMENT OF MAINTENANCE PLANNING

EQUIPMENT ID: XXXXXX ILS MILESTONE: XXX
LAST SESSION DATE: XX/XX/XX REVIEWER: X. XXXXXX

Page #: 1 Report Date: XX/XX/XX

Process #	Title	Crit	Int	Rout	Sat	To Do
E1.1	Review Design for Logistical Impacts.	0	1	0	1	14
E1.2	Review Program Management Documentation for Completeness	0	0	1	5	3
E1.3A1	Review Tasks or Functions to Mission Requirements	0	0	0	0	11
E1.3A2	Review Maintenance Principles and Level of Repair.	0	0	0	0	11
E1.3A3	Review Personnel/Non-Personnel Resource Requirements	0	0	0	0	11
E1.3A4	Review (B) MC use of 3 Level Army Maintenance Structure	0	0	0	0	2
E1.3A5	Review Host Nation Support (HNS), Interservice Support	0	0	0	0	15
E1.3A6	Review Maintenance Task and Level of Repair Trade-Offs	0	0	0	0	2
E1.3A7	Assess Achievement of SRO and Supportability Objectives	0	0	0	0	3

Figure 5-12. Cost and Schedule Impacts (Weapon System Summary)

PERFORMANCE AND SUSTAINABILITY REPORT
WEAPON SYSTEM CURRENT STATUS
ASSESSMENT OF ILS MAINTENANCE PLANNING

EQUIPMENT ID: XXXXXX OFFICE SYMBOL: XXXXX
ILS MILESTONE: XXX

Page #: 1 Report Date: XX/XX/XX

CRITICAL ISSUE

E1.4A1 Review (P)MAC for Accuracy & Completeness
QUESTION #: E1.4A1-02

---------- QUESTION----------

Do the functional group codes adequately reflect the system from a top-down breakdown?

----------SUBQUESTION----------

-Identify functional groups that have placed at incorrect level in the breakdown. -How will this functional group be placed at the correct level? (The End Item Family Tree is useful in performing this analysis.)

COST AND SCHEDULE IMPACT
(This is a three line text field in which a short explanation of the performance and sustainability impact is included.)

----------ACTION----------

Figure 5-13. Performance and Sustainability Impacts Report (Weapons System Current Status)

PERFORMANCE AND SUSTAINABILITY REPORT
CURRENT REVIEW SESSION
ASSESSMENT OF ILS MAINTENANCE PLANNING

EQUIPMENT ID: XXXXXX OFFICE SYMBOL: XXXXX
ILS MILESTONE: XXX

Page #: 1 Report Date: XX/XX/XX

CRITICAL ISSUE

E1.4A1 Review (P)MAC for Accuracy & Completeness
QUESTION #: E1.4A1-02

---------- QUESTION----------

Do the functional group codes adequately reflect the system from a top-down breakdown?

----------SUBQUESTION----------

-Identify functional groups that have placed at incorrect level in the breakdown. -How will this functional group be placed at the correct level? (The End Item Family Tree is useful in performing this analysis.)

COST AND SCHEDULE IMPACT
MS_SCHED_M -the long character field for MS_SCHED_M. Information about this record: qn=E1.4A1-02, sn=9007181406.

----------ACTION----------

Figure 5-14. Performance and Sustainability Impacts Report (Current Review Session)

PERFORMANCE AND SUSTAINABILITY REPORT
CRITICALITY ANALYSIS REPORT
ASSESSMENT OF ILS MAINTENANCE PLANNING

EQUIPMENT ID: XXXXXX ILS MILESTONE: XXX
LAST SESSION DATE: XX/XX/XX REVIEWER: X. XXXXXX

Page #: 1 Report Date: XX/XX/XX

----------CRITICAL----------

E1.4A1 Review (P)MAC for Accuracy & Completeness
E1.4A1.02 ALERT DATE: ACTION DATE:

E1.6A6 Review Warranty Implementation Plans
E1.6A6-01 ALERT DATE: XX/XX/XX ACTION DATE: XX/XX/XX

E1.7A1 Review Sub-Assessments for Overall Consistency
E1.7A1-02 ALERT DATE: XX/XX/XX ACTION DATE: XX/XX/XX

TOTAL CRITICAL ACTIONS: 3

----------INTERMEDIATE----------

E1.1 Review Design for Logistical Impacts.
E1.1-07 ALERT DATE: XX/XX/XX ACTION DATE:XX/XX/XX

E1.4A1 Review (P)MAC for Accuracy & Completeness
E1.4A1-03 ALERT DATE: XX/XX/XX ACTION DATE: XX/XX/XX

E1.6A7 Review SDC Plans and Execution.
E1.6A7-01 ALERT DATE: XX/XX/XX ACTION DATE: XX/XX/XX

TOTAL INTERMEDIATE ACTIONS: 3

----------ROUTINE----------

E1.2 Review Program Management Documentation for Completeness
E1.2-07 ALERT DATE: XX/XX/XX ACTION DATE:XX/XX/XX

TOTAL ROUTINE ACTIONS: 3

SUMMARY TOTAL ACTIONS: 7

Figure 5-15. Performance and Sustainability Impacts (Criticality Analysis)

PERFORMANCE AND SUSTAINABILITY SUMMARY REPORT
ASSESSMENT OF MAINTENANCE PLANNING

EQUIPMENT ID: XXXXXX ILS MILESTONE: XXX
LAST SESSION DATE: XX/XX/XX REVIEWER: X. XXXXXX

Page #: 1 Report Date: XX/XX/XX

Process #	Title	Crit	Int	Rout	Sat	To Do
E1.1	Review Design for Logistical Impacts.	0	1	0	1	14
E1.2	Review Program Management Documentation for Completeness	0	0	1	5	3
E1.3A1	Review Tasks or Functions to Mission Requirements	0	0	0	0	11
E1.3A2	Review Maintenance Principles and Level of Repair.	0	0	0	0	11
E1.3A3	Review Personnel/Non-Personnel Resource Requirements	0	0	0	0	11
E1.3A4	Review (B) MC use of 3 Level Army Maintenance Structure	0	0	0	0	2
E1.3A5	Review Host Nation Support (HNS), Interservice Support	0	0	0	0	15
E1.3A6	Review Maintenance Task and Level of Repair Trade-Offs	0	0	0	0	2
E1.3A7	Assess Achievement of SRO and Supportability Objectives	0	0	0	0	3

Figure 5-16. Performance and Sustainability Impacts (Weapon System Summary)

ACTION DATE LIST OF PROBLEM AREAS
ASSESSMENT OF ILS MAINTENANCE PLANNING

EQUIPMENT ID: XXXXXX OFFICE SYMBOL: XXXXX
ILS MILESTONE: XXX

Page #: 1 Report Date: XX/XX/XX

QUESTION	ANSWER	COST & SCHED RATING	PERF & SUST RATING	ALERT DATE	DAYS LEFT
E1.7A1-02	NO	CRITICAL	CRITICAL	XX/XX/XX	-98
E1.6A7-01	NO	INTERMEDIATE	ROUTINE	XX/XX/XX	-97
E1.1-07	NO	INTERMEDIATE	INTERMEDIATE	XX/XX/XX	-69
E1.6A6-01	NO	CRITICAL	INTERMEDIATE	XX/XX/XX	228
E1.6A3-02	YES	---	---	XX/XX/XX	425

Figure 5-17. Alert and Action Schedule Dates (Alert Date Items)

ACTION DATE LIST OF PROBLEM AREAS
ASSESSMENT OF ILS MAINTENANCE PLANNING

EQUIPMENT ID: XXXXXX OFFICE SYMBOL: XXXXX
ILS MILESTONE: XXX

Page #: 1 Report Date: XX/XX/XX

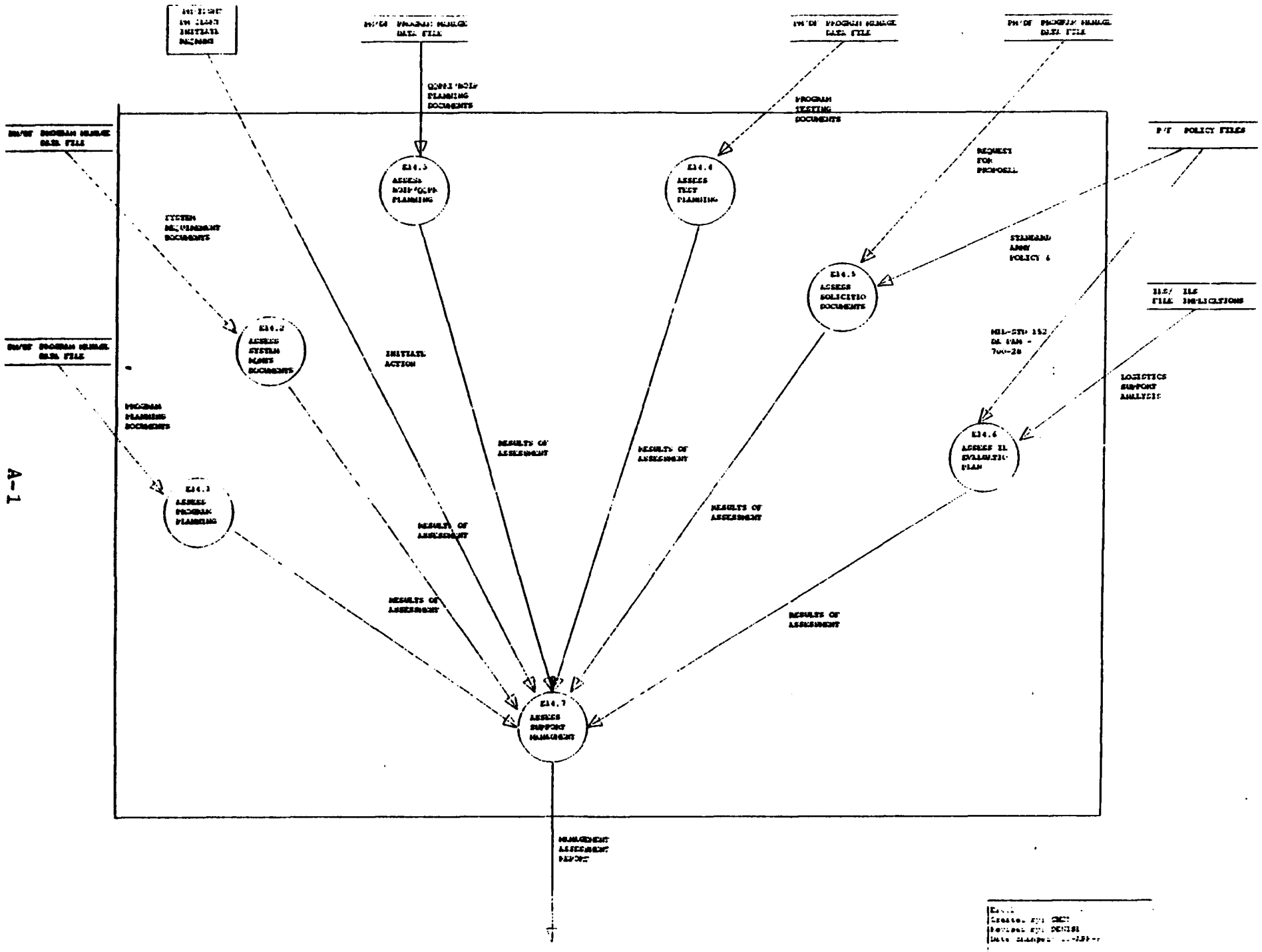
QUESTION	ANSWER	COST & SCHED RATING	PERF & SUST RATING	ACTION DATE	DAYS LEFT
E1.7A1-02	NO	CRITICAL	CRITICAL	XX/XX/XX	-98
E1.6A7-01	NO	INTERMEDIATE	ROUTINE	XX/XX/XX	-97
E1.1-07	NO	INTERMEDIATE	INTERMEDIATE	XX/XX/XX	-69
E1.6A6-01	NO	CRITICAL	INTERMEDIATE	XX/XX/XX	228
E1.6A3-02	YES	---	---	XX/XX/XX	425

Figure 5-18. Alert and Action Schedule Dates (Action Date Items)

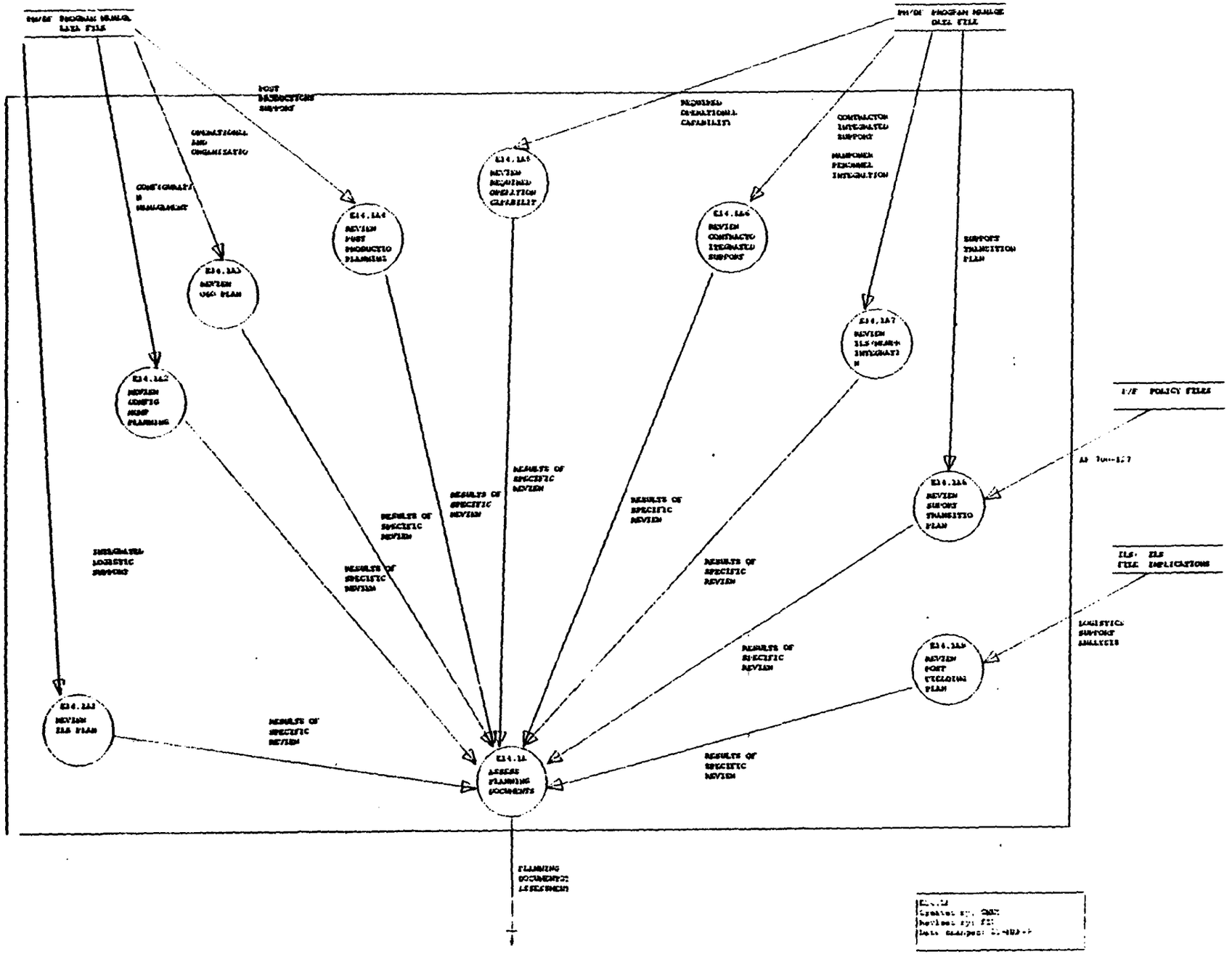
APPENDIX A

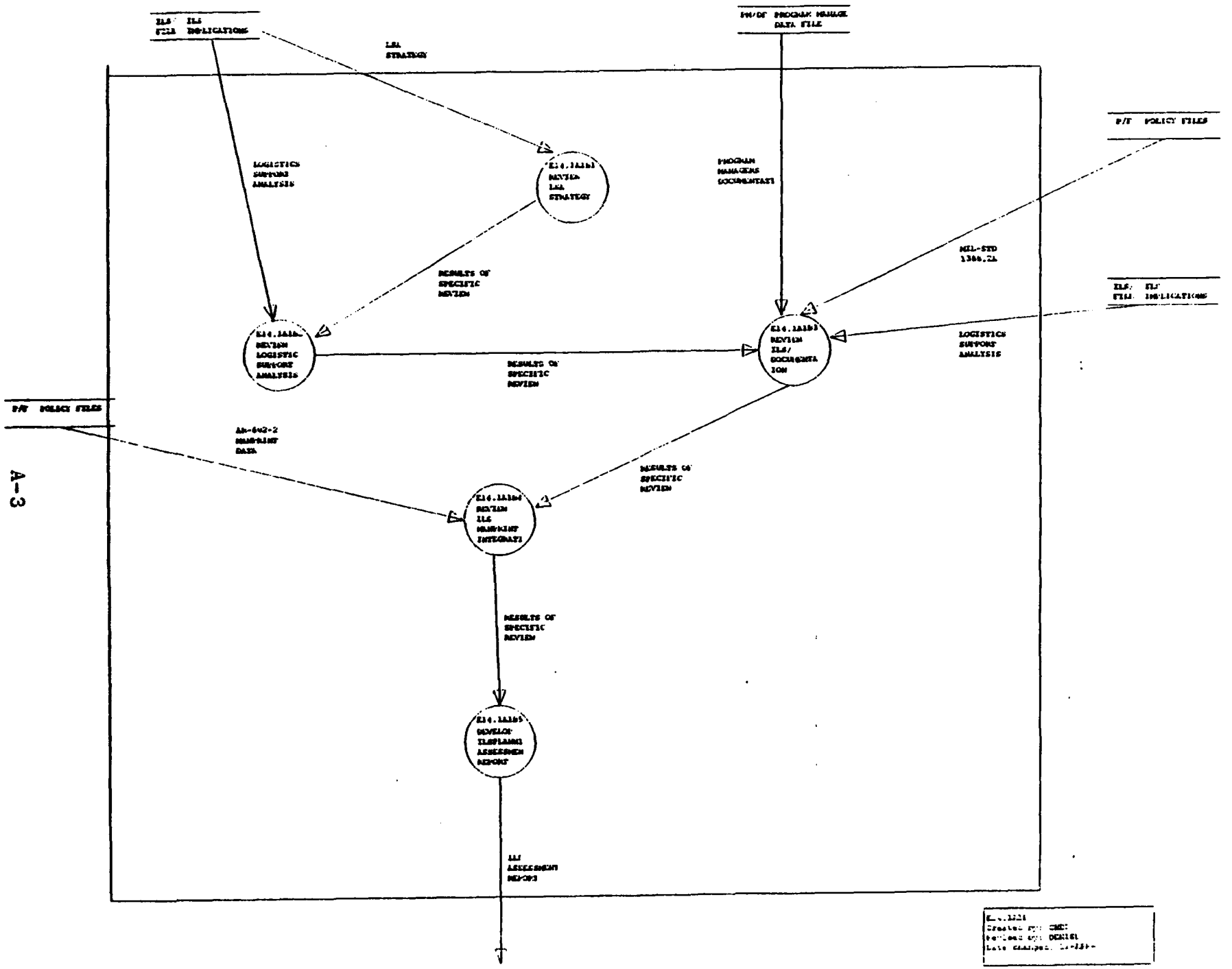
ILS ELEMENT E14
SUPPORT MANAGEMENT
AND
ANALYSIS

DATA FLOW DIAGRAMS

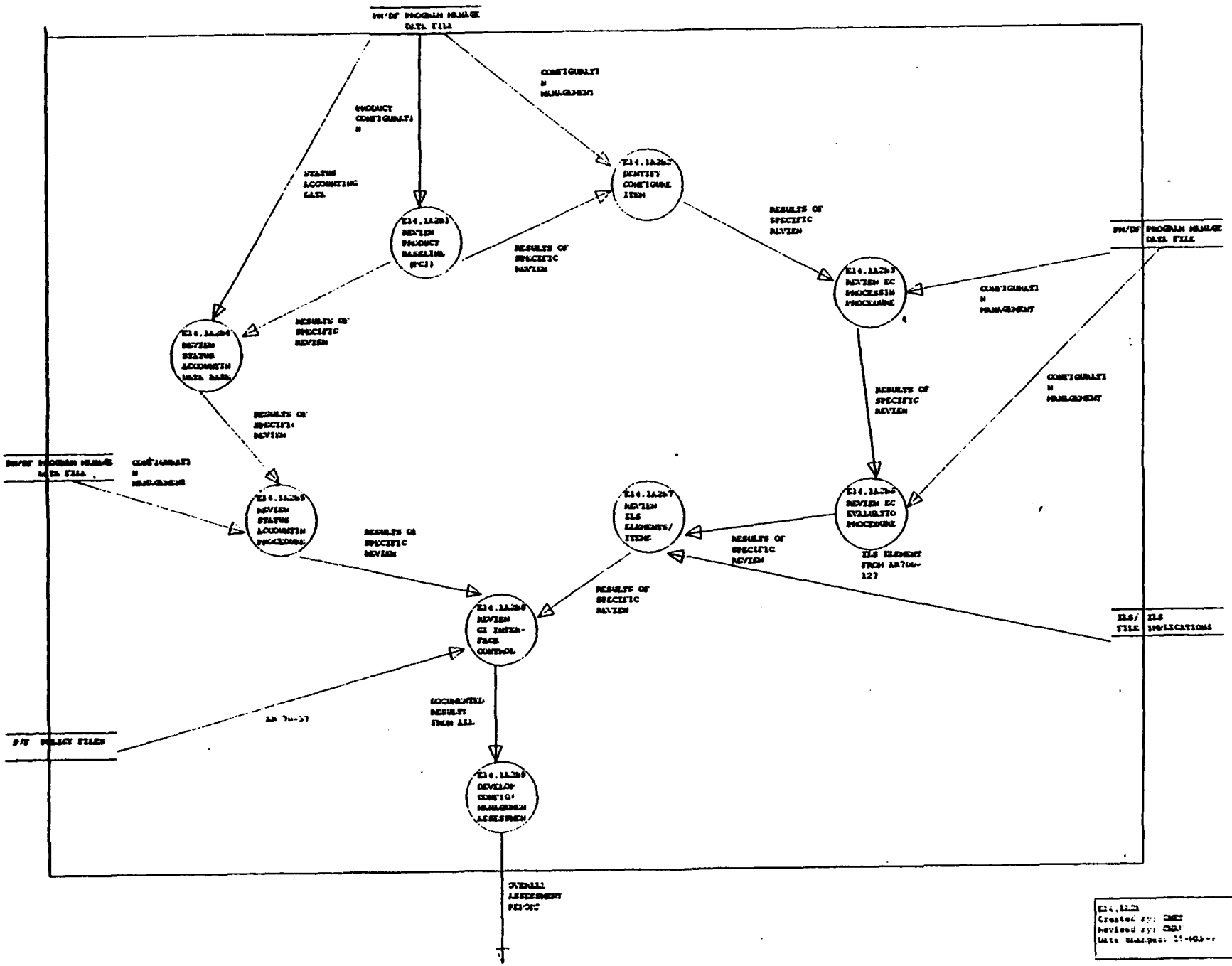

PROGRAM PLANNING DOCUMENTS
PROGRAM TESTING DOCUMENTS
REQUEST FOR PROPOSAL
P/T POLICY FILES
SYSTEM REQUIREMENT DOCUMENTS
STANDARD ARMY POLICY &
ILS/ ILE FILE IMPLICATIONS
INITIAL ACTION
LOGISTICS SUPPORT ANALYSIS
PROGRAM PLANNING DOCUMENTS
RESULTS OF ASSESSMENT
RESULTS OF ASSESSMENT
RESULTS OF ASSESSMENT
RESULTS OF ASSESSMENT
RESULTS OF ASSESSMENT
E14.1 ASSESS PROGRAM PLANNING
E14.2 ASSESS SYSTEM REQMTS DOCUMENTS
E14.3 ASSESS TEST PLANNING
E14.4 ASSESS SOLICITATION DOCUMENTS
E14.5 ASSESS ILE IMPLEMENTATION PLAN
E14.7 ASSESS SUPPORT MANAGEMENT
MANAGEMENT ASSESSMENT REPORT

A-1


POST PRODUCTION SUPPORT
REQUIRED OPERATIONAL CAPABILITY
CONTRACTOR INTEGRATED SUPPORT
MANPOWER PERSONNEL INTEGRATION
SUPPORT TRANSITION PLAN
A14.1A5 REVIEW REQUIRED OPERATIONAL CAPABILITY
A14.1A6 REVIEW CONTRACTOR INTEGRATED SUPPORT
A14.1A7 REVIEW ILS MGMT INTEGRATION
A14.1A4 REVIEW POST PRODUCTION PLANNING
A14.1A3 REVIEW O&S PLAN
A14.1A2 REVIEW CONFIG MGMT PLANNING
A14.1A1 REVIEW ILS PLAN
A14.1A8 REVIEW SUPPORT TRANSITION PLAN
A14.1A9 REVIEW POST PRODUCTION PLAN
A14.1A ASSESS PLANNING DOCUMENTS
RESULTS OF SPECIFIC REVIEW
INTEGRATED LOGISTIC SUPPORT
I/F POLICY FILES
ILS: ILS FILE IMPLICATIONS
LOGISTICS SUPPORT ANALYSIS
PLANNING DOCUMENTS ASSESSMENT


ILS/ ILS FILE: IMPLICATIONS
LSA STRATEGY
SW/DF PROGRAM MANAGE DATA FILE
P/F POLICY FILES
LOGISTICS SUPPORT ANALYSIS
E14.1A1A1 REVIEW LSA STRATEGY
PROGRAM MANAGERS DOCUMENTATI
RESULTS OF SPECIFIC REVIEW
MIL-STD 1388.2A
ILS/ ILS FILE: IMPLICATIONS
E14.1A1A2 REVIEW LOGISTIC SUPPORT ANALYSIS
E14.1A1A3 REVIEW ILS/ DOCUMENTA ION
RESULTS OF SPECIFIC REVIEW
LOGISTICS SUPPORT ANALYSIS
P/F POLICY FILES
AR-640-2 MAINTAINT DATA
RESULTS OF SPECIFIC REVIEW
E14.1A1A4 REVIEW ILS MAINTAINT INTEGRATI
RESULTS OF SPECIFIC REVIEW
E14.1A1A5 DEVELOP ILSPLANNI ASSESSMEN REPORT
LSA ASSESSMENT REPORTS

A-C3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CONFIGURATI N MANAGEMENT
PRODUCT CONFIGURATI N
STATUS ACCOUNTING DATA
RESULTS OF SPECIFIC REVIEW
PM/DF PROGRAM MANAGE DATA FILE
CONFIGURATI N MANAGEMENT
CONFIGURATI N MANAGEMENT
RESULTS OF SPECIFIC REVIEW
RESULTS OF SPECIFIC REVIEW
RESULTS OF SPECIFIC REVIEW
RESULTS OF SPECIFIC REVIEW
RESULTS OF SPECIFIC REVIEW
RESULTS OF SPECIFIC REVIEW
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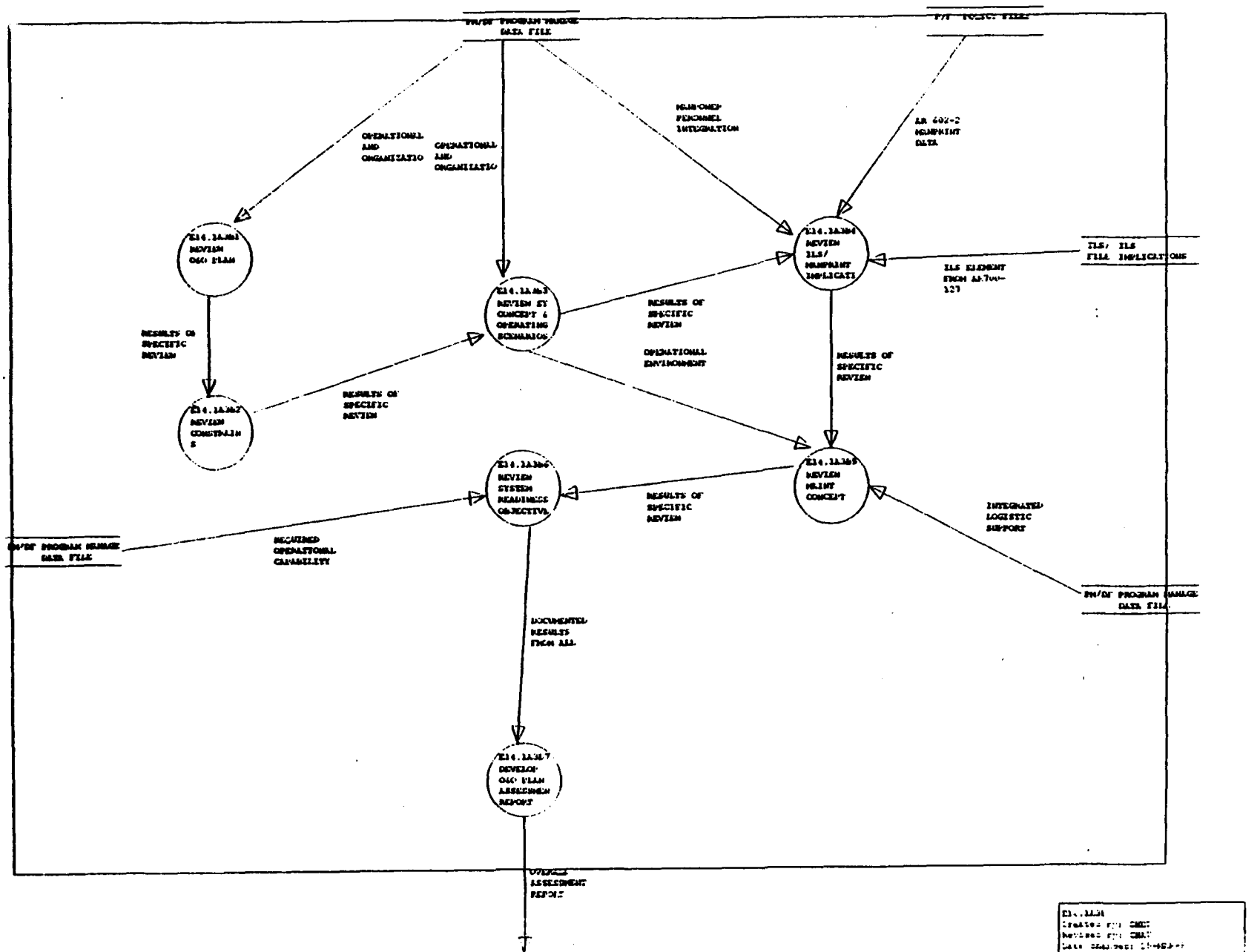
ILS/ ILS FILE IMPLICATIONS
P/B POLICY FILES
DOCUMENTED RESULTS FROM A14.
OVERALL ASSESSMENT REPORT


OPERATIONAL AND ORGANIZATIO
OPERATIONAL AND ORGANIZATIO
MANPOWER/ PERSONNEL INTEGRATION
AR 602-2 MANPRINT DATA
RESULTS OF SPECIFIC REVIEW
RESULTS OF SPECIFIC REVIEW
RESULTS OF SPECIFIC REVIEW
OPERATIONAL ENVIRONMENT
RESULTS OF SPECIFIC REVIEW
RESULTS OF SPECIFIC REVIEW
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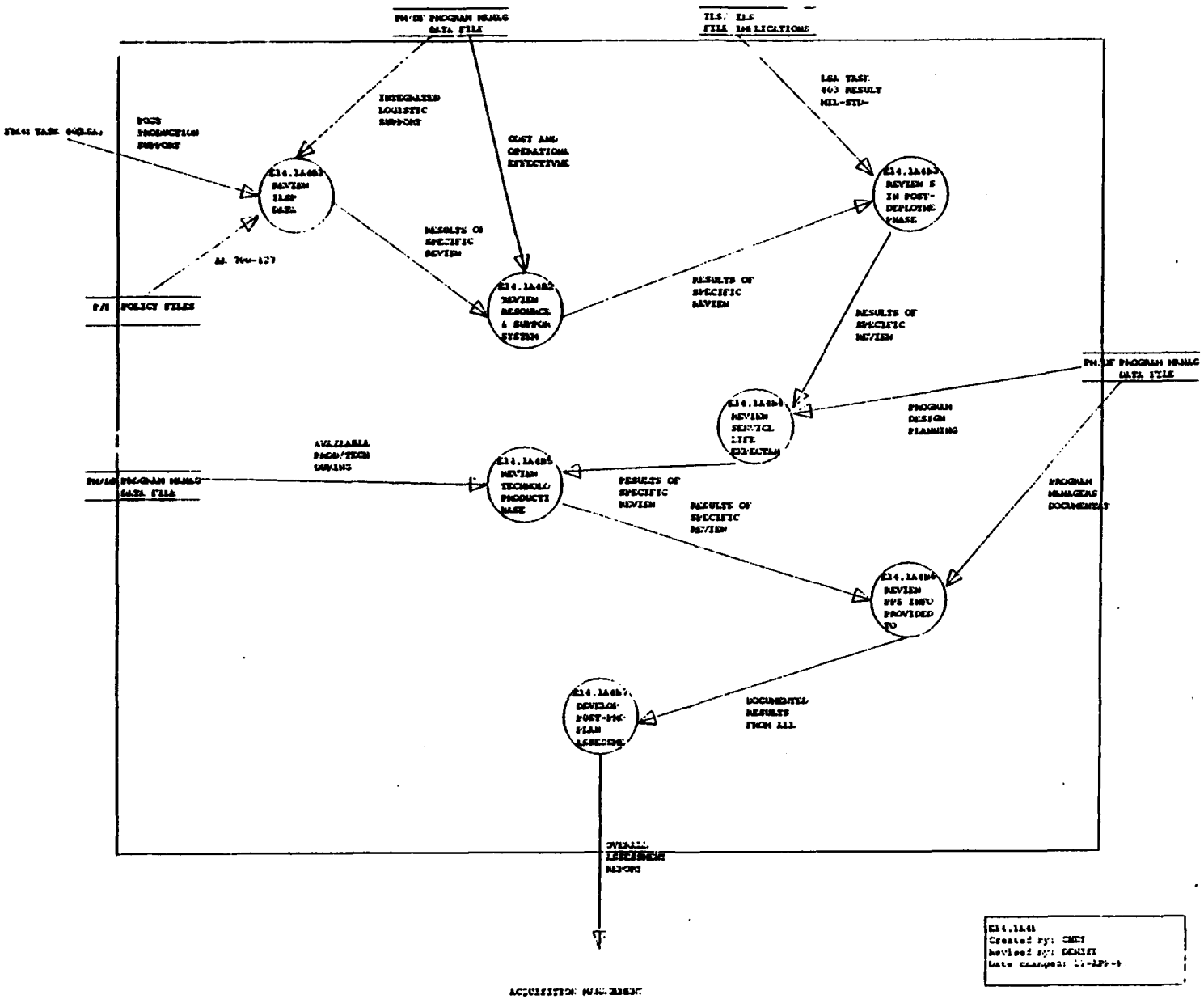
REQUIRED OPERATIONAL CAPABILITY
INTEGRATED LOGISTIC SUPPORT
DOCUMENTED RESULTS FROM ALL
OVERALL ASSESSMENT REPORT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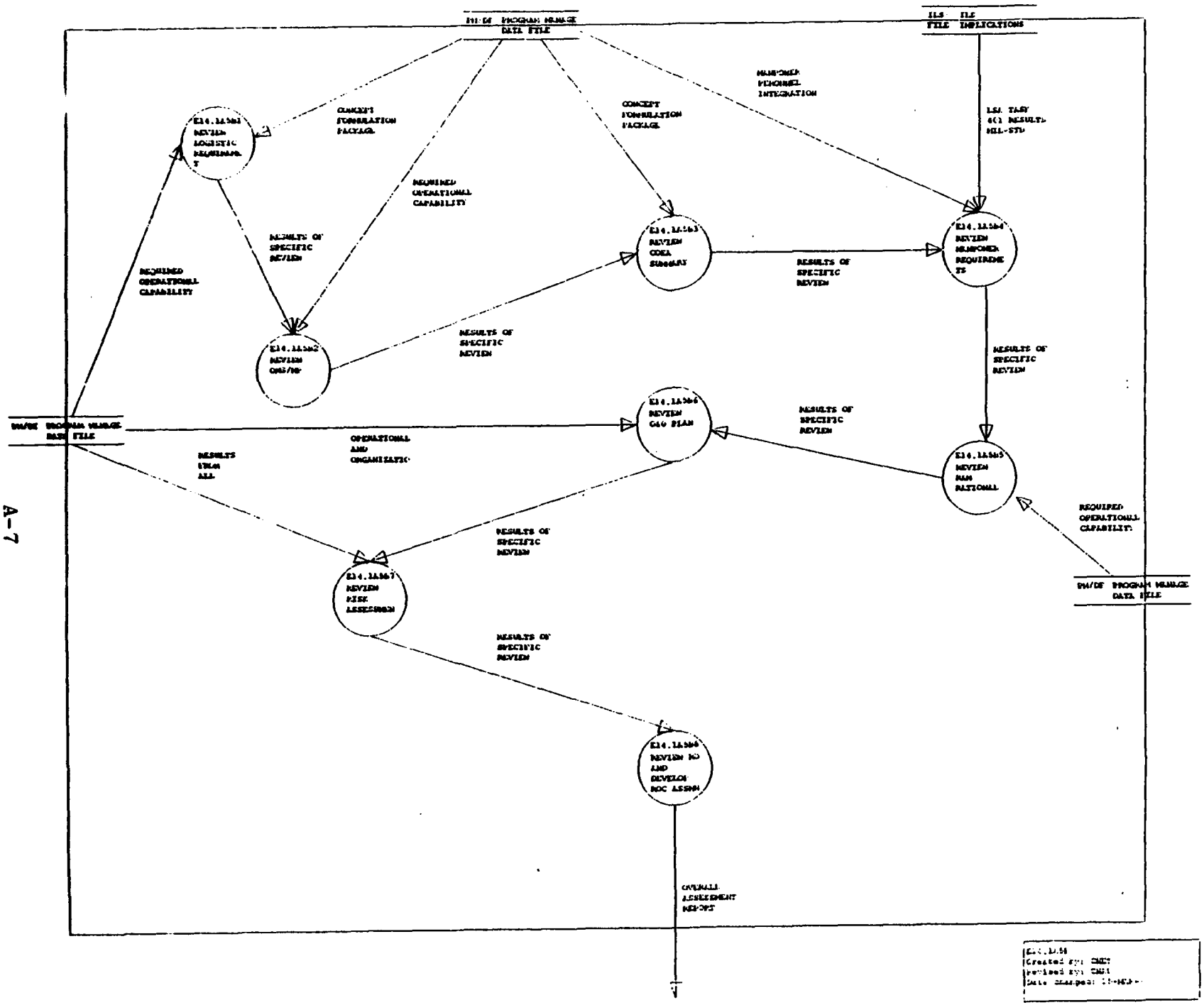
LSA TASK 403 RESULT MIL-STD-
POST PRODUCTION SUPPORT
RESULTS OF SPECIFIC REVIEW
RESULTS OF SPECIFIC REVIEW
RESULTS OF SPECIFIC REVIEW
PROGRAM DESIGN PLANNING
AVAILABLE PROD/TECH SHARING
RESULTS OF SPECIFIC REVIEW
RESULTS OF SPECIFIC REVIEW
PROGRAM MANAGERS DOCUMENTS
DOCUMENTED RESULTS FROM ALL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ILS FILE FILE IMPLICATIONS
MANPOWER/ PERSONNEL INTEGRATION
ILS TASK 40(1 RESULTS MIL-STD
CONCEPT FORMULATION PACKAGE
CONCEPT FORMULATION PACKAGE
REQUIRED OPERATIONAL CAPABILITY
REQUIRED OPERATIONAL CAPABILITY
RESULTS OF SPECIFIC REVIEW
RESULTS OF SPECIFIC REVIEW
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RESULTS OF SPECIFIC REVIEW
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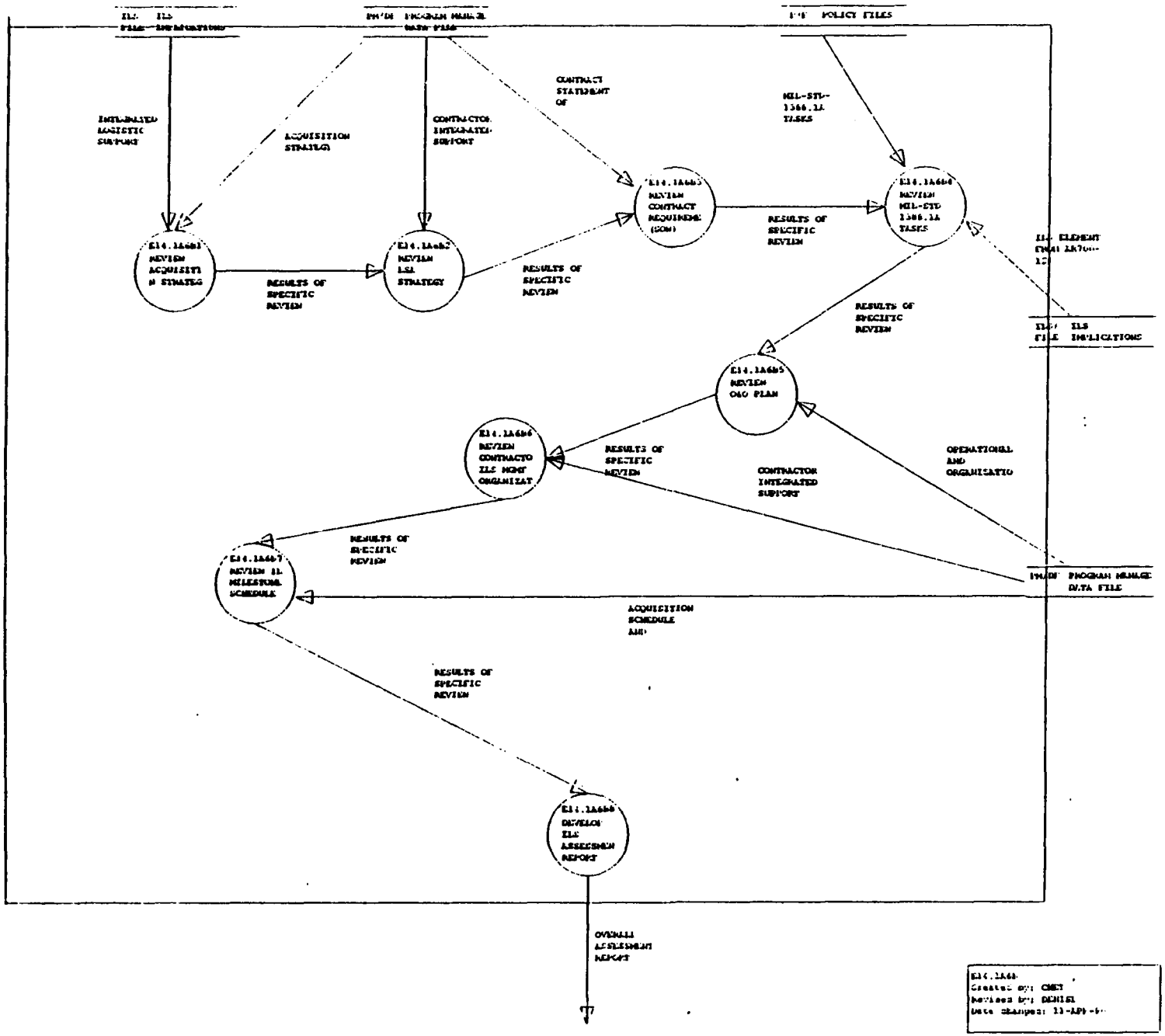
OPERATIONAL AND ORGANIZATIO
RESULTS THEN ALL
REQUIRED OPERATIONAL CAPABILITY
OVERALL ASSESSMENT REPORT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POLICY FILES
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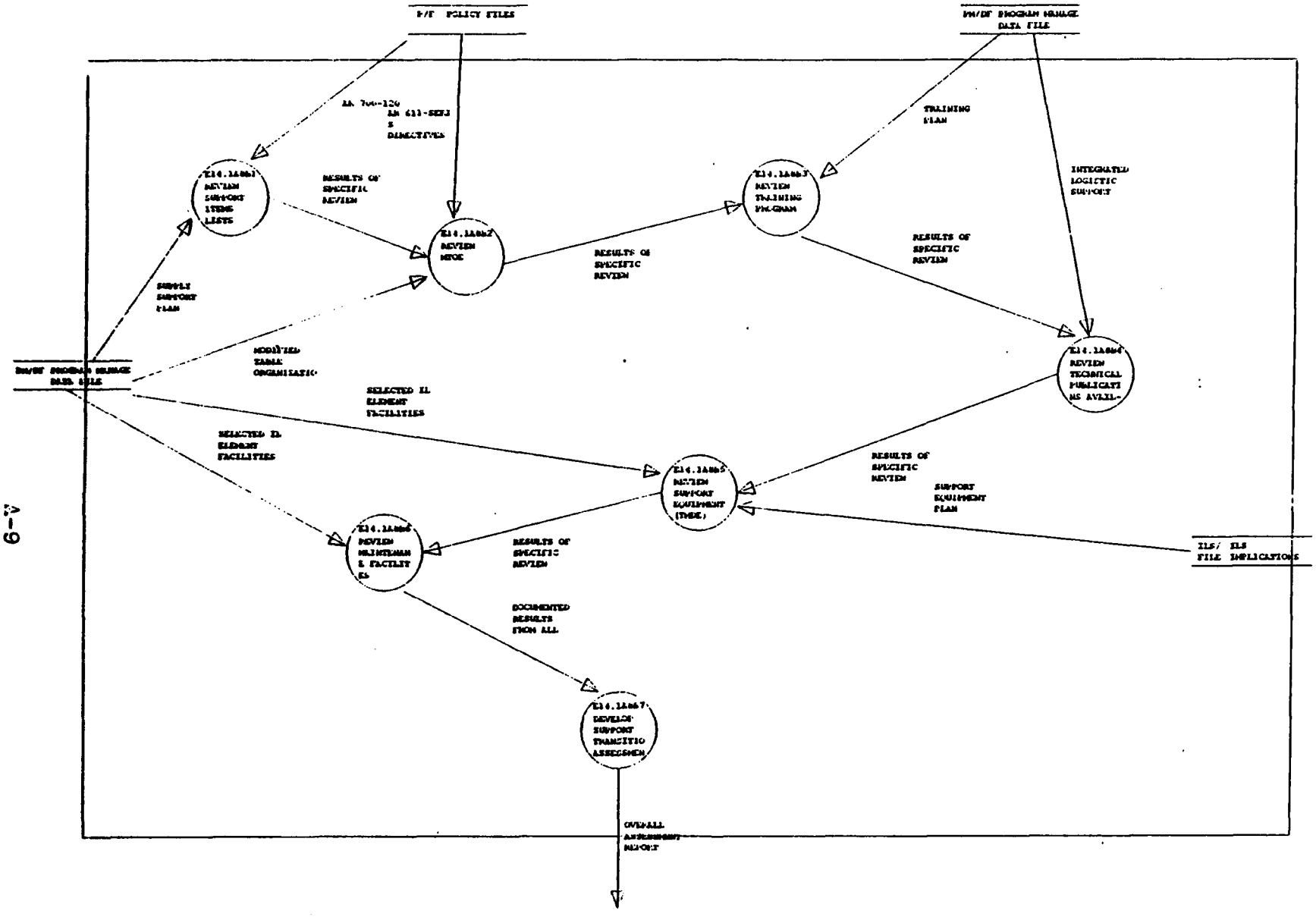
ACQUISITION STRATEGY
CONTRACTOR INTEGRATED SUPPORT
CONTRACT STATEMENT OF
MIL-STD-1388.2A TASKS
E14.1A681 REVIEW ACQUISITION STRATEG
E14.1A682 REVIEW LSA STRATEGY
E14.1A683 REVIEW CONTRACT REQUIREME (SOW)
E14.1A684 REVIEW MIL-STD 1388.2A TASKS
RESULTS OF SPECIFIC REVIEW
ILS ELEMENT
ILS FILE IMPLICATIONS
E14.1A685 REVIEW O&O PLAN
E14.1A686 REVIEW CONTRACTO ILS MGMT ORGANIZAT
OPERATIONAL AND ORGANIZATIO
E14.1A687 REVIEW ILS MILESTONE SCHEDULE
PROGRAM MANAGE DATA FILE
ACQUISITION SCHEDULE AND
E14.1A688 DEVELOP ILS ASSESSMEN REPORT
OVERALL ASSESSMENT REPORT
E14.1A68
Created by: CMET
Revised by: DENISE
Date changed: 13-APR-8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PM/DF PROGRAM MANAGE DATA FILE
AR 700-126
AR 611-SERIES DIRECTIVES
TRAINING PLAN
INTEGRATED LOGISTIC SUPPORT
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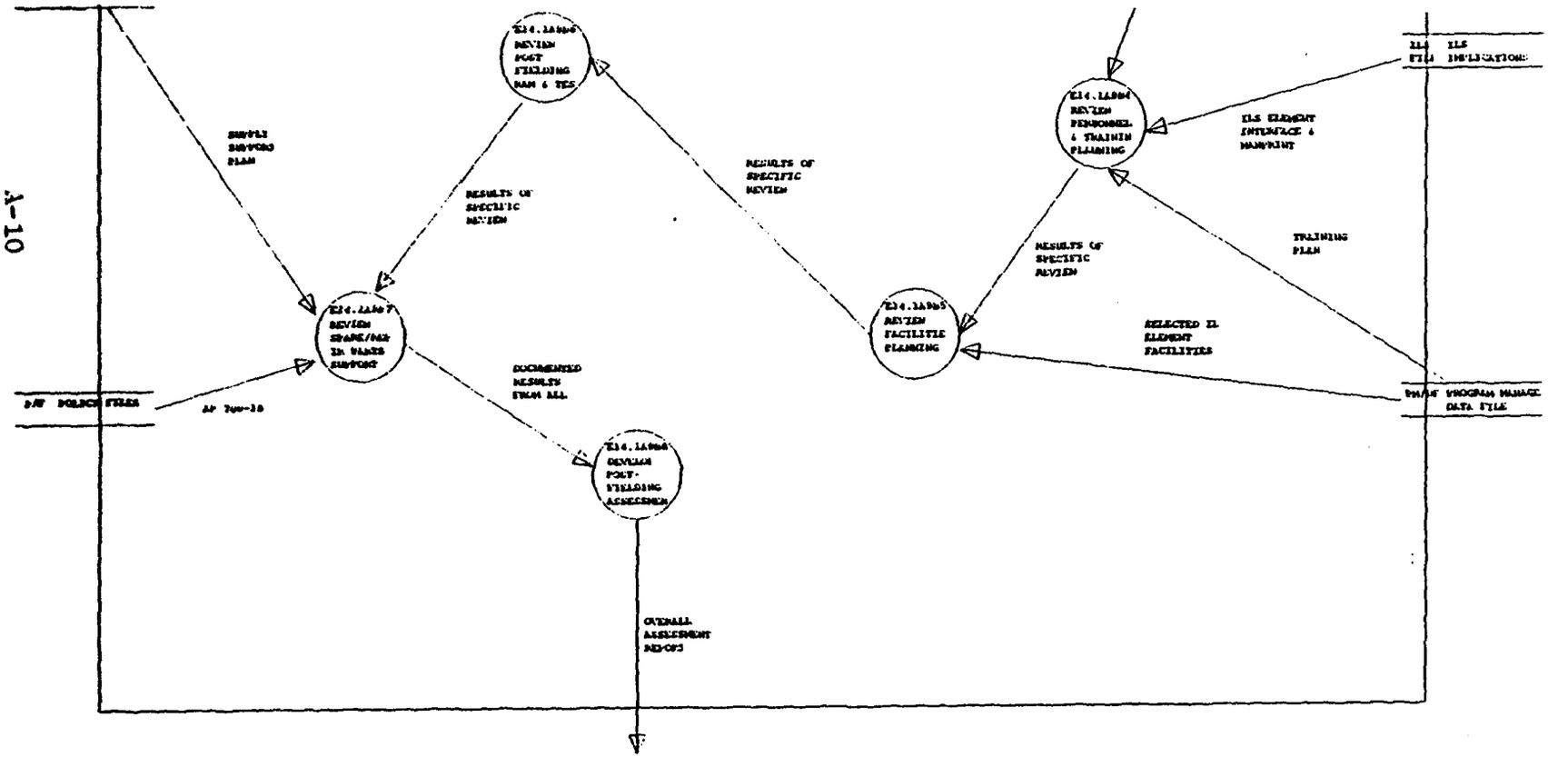
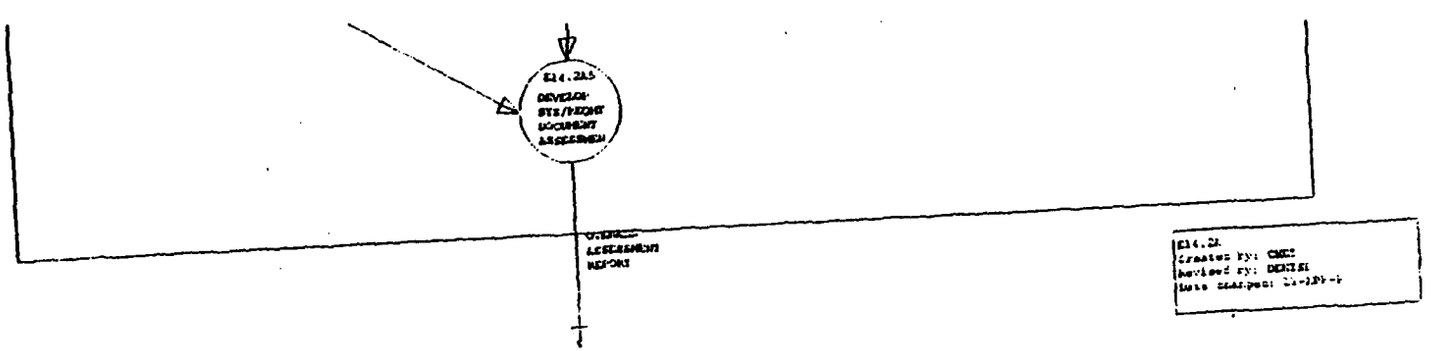
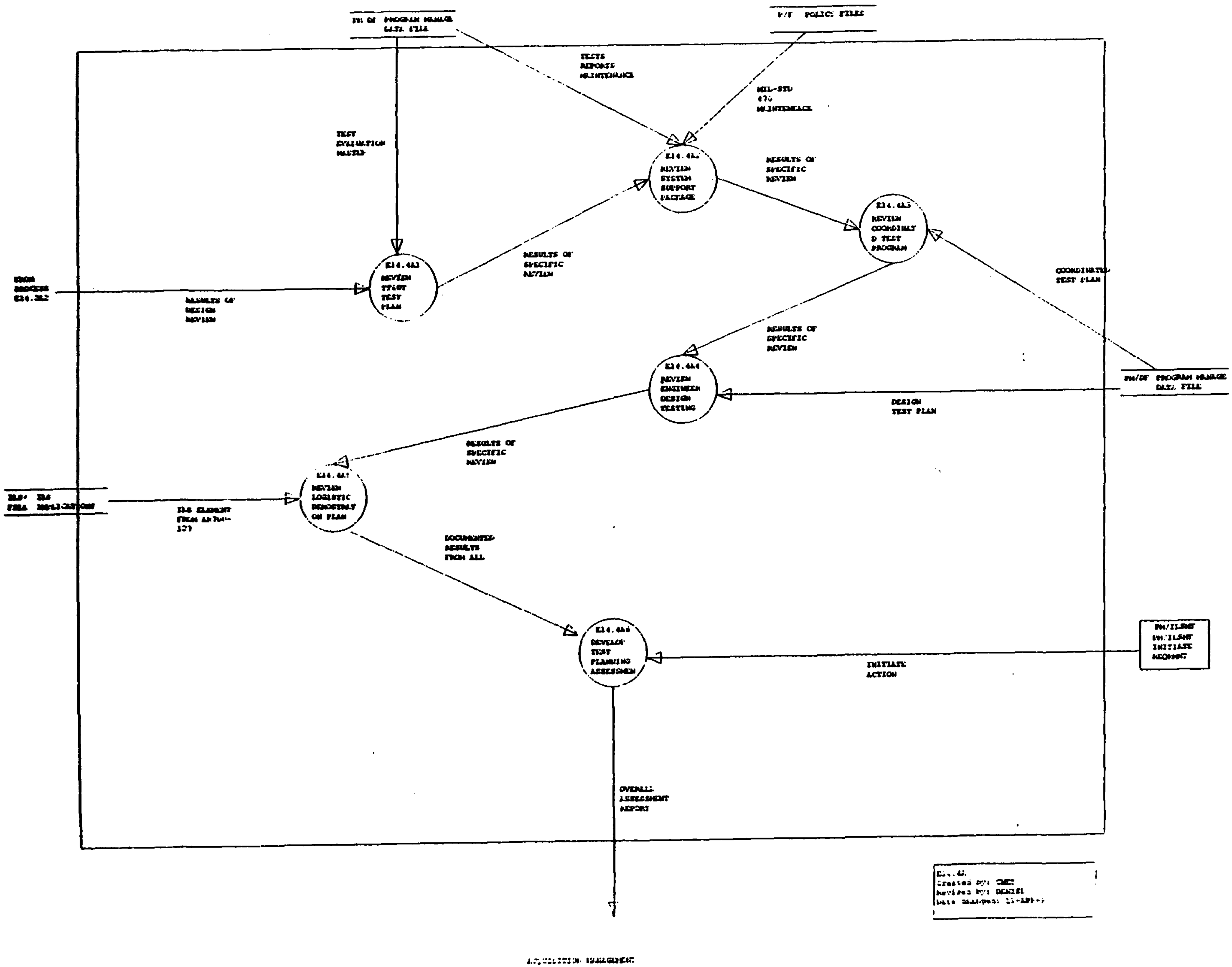
RESULTS OF SPECIFIC REVIEW
E14.1A862 REVIEW MPOE
E14.1A863 REVIEW TRAINING PROGRAM
RESULTS OF SPECIFIC REVIEW
SUPPLY SUPPORT PLAN
MODIFIED TABLE ORGANIZATIO
E14.1A864 REVIEW TECHNICAL PUBLICATI NS AVAIL.
SELECTED EL ELEMENT FACILITIES
SELECTED EL ELEMENT FACILITIES
E14.1A865 REVIEW SUPPORT EQUIPMENT (TMDE)
RESULTS OF SPECIFIC REVIEW
SUPPORT EQUIPMENT PLAN
E14.1A866 REVIEW MAINTENAN E FACILIT ES
RESULTS OF SPECIFIC REVIEW
ILS/ ILS FILE IMPLICATIONS
DOCUMENTED RESULTS FROM ALL
E14.1A867 DEVELOP SUPPORT TRANSITIO ASSESSMEN
OVERALL ASSESSMENT REPORT
ACQUISITION MANAGEMENT


SUPPLI
SUPPORT
PLAN
RESULTS OF
SPECIFIC
REVIEW
RESULTS OF
SPECIFIC
REVIEW
ILS ELEMENT
INTERFACE &
MANPOWER
RESULTS OF
SPECIFIC
REVIEW
TRAINING
PLAN
SELECTED IL
ELEMENT
FACILITIES
DOCUMENTED
RESULTS
FROM ALL
OVERALL
ASSESSMENT
REPORT


OVERALL
ASSESSMENT
REPORT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RESULTS OF SPECIFIC REVIEW
REVIEW SYSTEM SUPPORT PACKAGE
TESTS REPORTS MAINTENANCE
MIL-STD 470 MAINTENANCE
REVIEW COORDINAT D TEST PROGRAM
COORDINATED TEST PLAN
RESULTS OF DESIGN REVIEW
REVIEW ENGINEER DESIGN TESTING
DESIGN TEST PLAN
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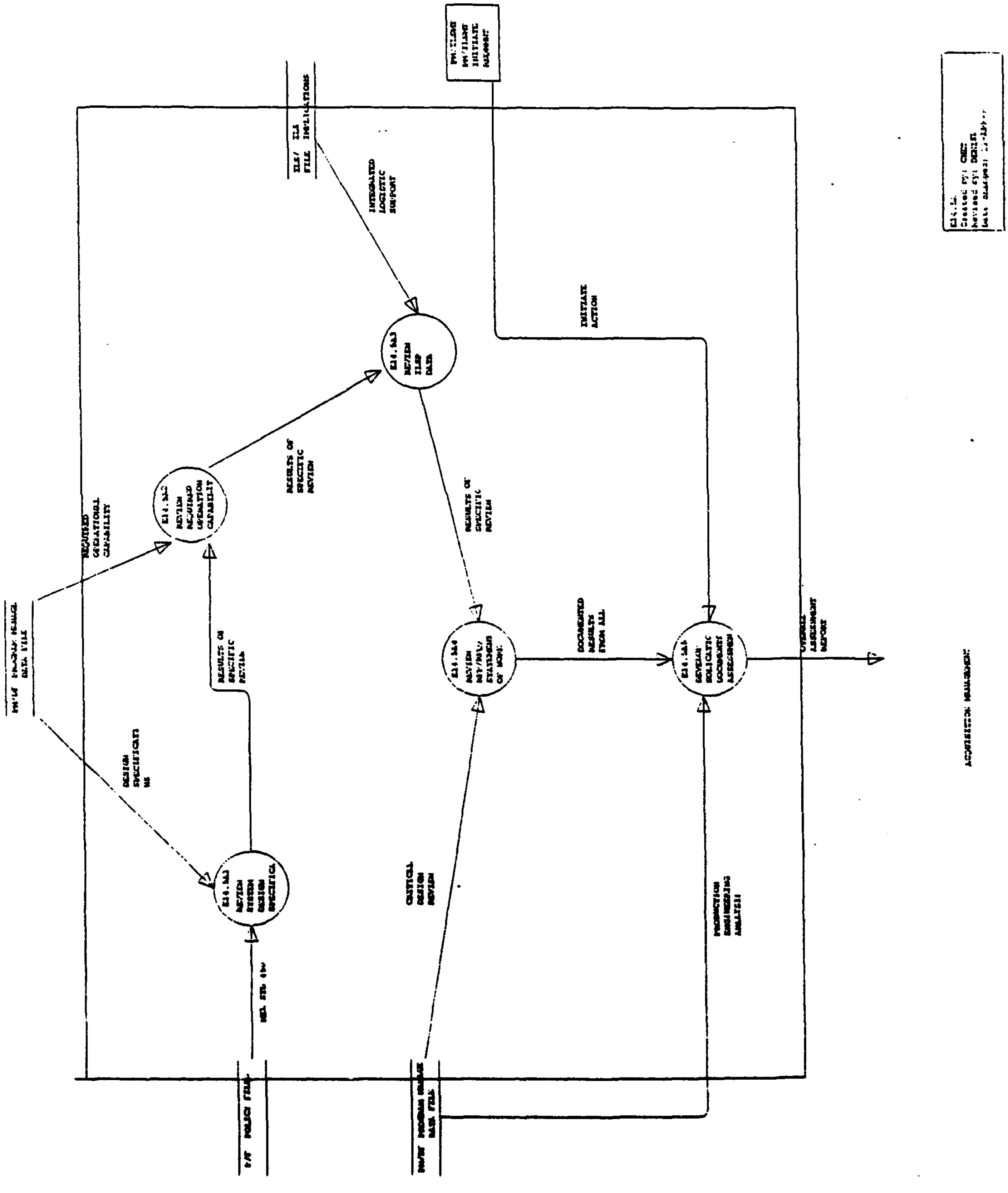
DOCUMENTED RESULTS FROM ALL
DEVELOP TEST PLANNING ASSESSMEN
INITIATE ACTION
OVERALL ASSESSMENT REPORT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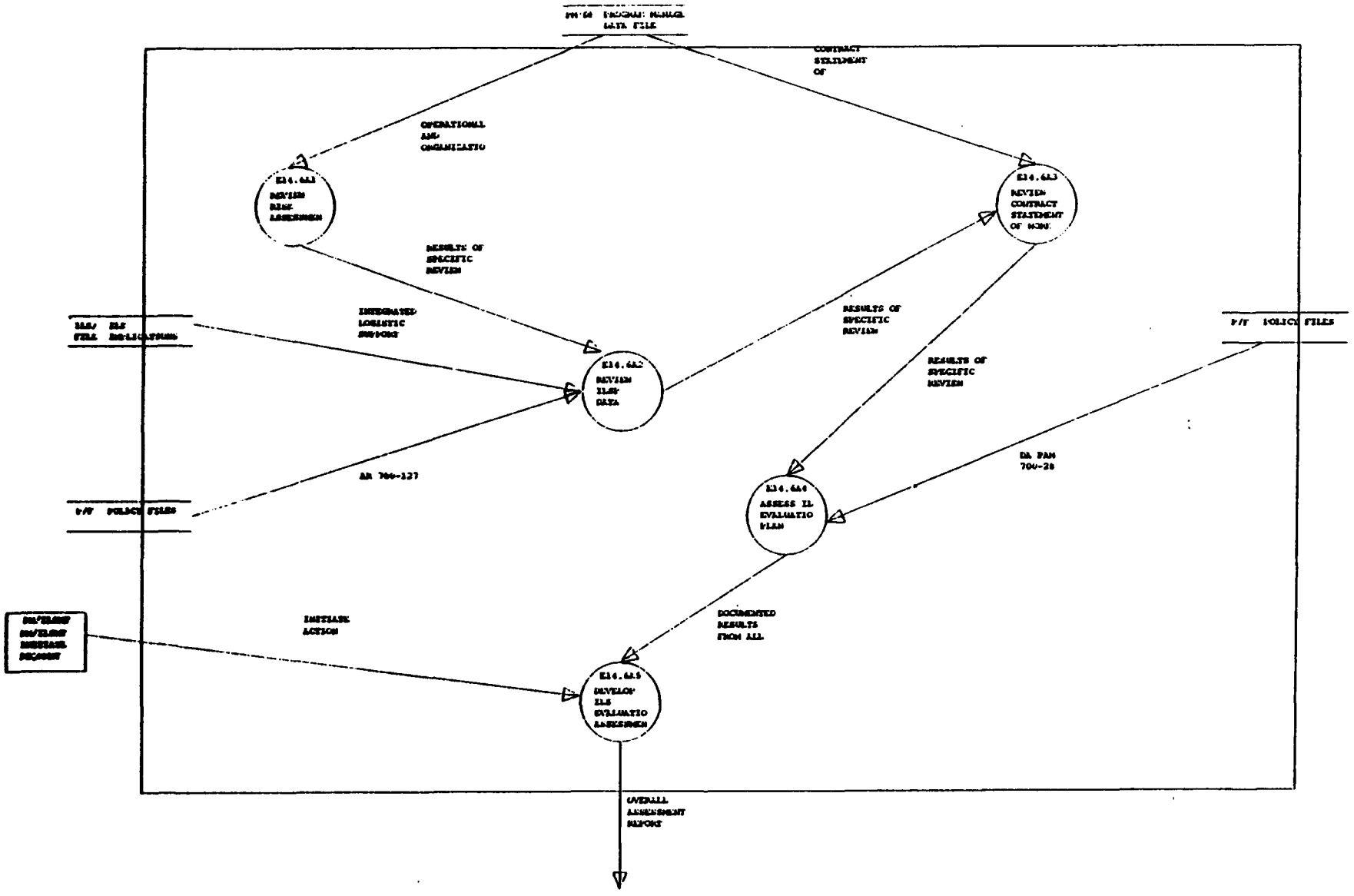
DESIGN SPECIFICATIONS
RESULTS OF SPECIFIC REVIEW
INTEGRATED LOGISTIC SUPPORT
INITIATE ACTION
DOCUMENTED RESULTS FROM ALL
CRITICAL DESIGN REVIEW
PRODUCTION ENGINEERING ANALYSIS
ACQUISITION MANAGEMENT


CONTRACT
STATEMENT
OF
OPERATIONAL
AND
ORGANIZATIO
RESULTS OF
SPECIFIC
REVIEW
INTEGRATED
LOGISTIC
SUPPORT
RESULTS OF
SPECIFIC
REVIEW
RESULTS OF
SPECIFIC
REVIEW
AR 700-127
DA PAM
700-28
INITIAL
ACTION
DOCUMENTED
RESULTS
FROM ALL
OVERALL
ASSESSMENT
REPORT

APPENDIX B

ILS ELEMENT E14
ASSESSMENT OF SUPPORT MANAGEMENT AND

ILS ASSESSMENT: SUPPORT MANAGEMENT & ANALYSIS - PROGRAM PLANNING - ILS PLAN REVIEW

The ILS Element E14 addresses almost every aspect of ILS. In this assessment, support management and analysis will be treated as an overview of each specific area to ensure that each area has been addressed in the overall assessment procedure.

Because of the magnitude of this assessment area, this initial report will be one of a series and will address only the review of the ILS plan as part of the assessment of Program Planning. Other areas will be presented in other reports in this series.

E14.1A1B1 - Review LSA Strategy

The purpose of this process is to review the LSA strategy in preparation for developing the ILSP overall assessment report. What follows is a series of questions to be answered during this review.

1. Is the LSA strategy tailored to the type of acquisition and scheduled to meet project decision points?

- o YES — Go to next question
- o NO — Prepare a discrepancy action chit containing the following information:
  - A detailed description of the discrepancy
  - A detailed description of the action required to correct the discrepancy
  - Identification of the activity or individual responsible for the corrective action
  - The time frame in which the corrective action is to be completed
  - An impact statement as to the affect the discrepancy will have on the support-ability, cost, readiness or schedule if not corrected.

2. Does the LSA strategy address the multidisciplinary activity and coordination of the various engineering disciplines?

- o YES — Go to next question
- o NO — Prepare, a discrepancy action chit (see action chit format from question above).

3. Does the LSA strategy describe how LSA data will be used to provide input for development of ILS elements? (DA PAM 700-55, paragraph 3-4d (2) (b))

o YES Go to next question

o NO Prepare a discrepancy action chit.

4. Does the LSA strategy identify the tasks & subtasks from MIL-STD-1388-1A to be accomplished during the LSA?

o YES Go to next question

o NO Prepare discrepancy action chit.

5. Does the LSA strategy reflect the estimated cost to perform each task/subtasks and identify the proposed organizations to perform each task/subtasks?

o YES Go to next question

o NO Prepare discrepancy action chit.

6. Does the LSA strategy address each probable design, maintenance concept, operational approach and gross estimates of the R&M, O&S costs, logistic support resources and readiness characteristics?

o YES Go to next question

o NO Prepare discrepancy action chit.

7. Does the LSA strategy address the potential design impact on performing the LSA tasks/subtasks.

o YES Go to next question

o NO Prepare discrepancy action chit.

8. Does the LSA strategy identify program funding and schedule constraints and other known key resource constraints that would impact support of the new system, such as deficits in number or skills of available personnel, limited priorities of strategic materiel, etc.?

o YES Go to next question

o NO Prepare discrepancy action chit.

9. Does the LSA strategy identify available databases for use in LSA task accomplishment?

o YES Go to next question

o NO Prepare discrepancy action chit.

10. Does the LSA strategy identify who will have LSA data approval authority and how data will be verified for accuracy and adequacy? (DA PAM 700-55, paragraph 304d (2) (d))?

o YES Go to next question

o No Prepare discrepancy action chit.

11. Does the LSA strategy summarize results of LSA tasks performed in prior acquisition phases? (DA PAM 700-55)?

o YES Go to next question

o NO Prepare discrepancy action chit.

12. Does the LSA strategy address the expected mission and function for the new system/equipment?

o YES Go to next question

o NO Prepare discrepancy action chit.

13. Does the LSA strategy outline the objectives and tasks which provides the best return on investment?

o YES Go to next question

o NO Prepare discrepancy action chit.

14. Are provisions made for LSA strategy updates?

o YES Go to next question

o NO Prepare discrepancy action chit.

This concludes the LSA strategy reviews all pertinent data will be passed to the next process to aid in the LSA task review.

E14.1A1B2 - Review the Logistics Support Analysis Plan (LSAP)

The purpose of this process is to review the LSAP in preparation for developing the ILSP assessment report. What follows is a series of questions to be answered during this review.

1. Does the Logistic Support Analysis Plan identify and integrate all LSA tasks, and activities, and outline the approach toward accomplishing analysis tasks?

- o YES — Go to next question
- o NO — Prepare a discrepancy action chit which includes the following:
  - -Detailed description of discrepancy
  - -Detailed description of the action required to correct the discrepancy
  - -The activity or person responsible for accomplishing the required action
  - -Time frame in which the corrective action is to be completed
  - -Impact statement as to the effect of the discrepancy on supportability, cost, readiness or schedule if not corrected.

2. Does the plan describe the management structure and authorities applicable to LSA? This includes the inter-relationship between line, service, staff and policy organization?

- o YES — Go to next question
- o NO — Prepare discrepancy action chit.

3. Does the plan provide procedures to evaluate the status and control of each task, and identify the organizational unit with the authority and responsibility for executing each task?

- o YES — Go to next question
- o NO — Prepare discrepancy action chit.

4. Does the LSAP describe how the LSA program will be conducted to meet program requirements?

- o YES — Go to next question
- o NO — Prepare discrepancy action chit.

5. Does the LSAP contain a schedule of LSA events with estimated start and completion dates?

o YES Go to next question

o NO Prepare discrepancy action chit.

6. Is the schedule compatible with other ILS and associated system engineering activities?

o YES Go to next question

o NO Prepare discrepancy action chit.

7. Does the LSAP contain a work breakdown structure identifying each item on which LSA will be performed and documented to include any items of support equipment and GFE?

o YES Go to next question

o NO Prepare discrepancy action chit.

8. Does the LSAP identify the maintenance levels for which the LSA will be documented for each item?

o YES Go to next question

o NO Prepare discrepancy action chit.

9. Does the LSAP contain a description of LSA the control numbering system and how it will be used?

o YES Go to next question

o NO Prepare discrepancy action chit.

10. Does the LSAP define a system to disseminate supportability and supportability related design requirements, to designers and associated personnel?

o YES Go to next question

o No Prepare discrepancy action chit.

11. Does the LSAP define the method used to furnish government data to the contractor?

o YES Go to next question

o NO Prepare discrepancy action chit.

12. Does the LSAP contain procedures, methods and controls for identifying and recording design problems or deficiencies affecting supportability, corrective actions required, and status of actions taken to resolve the problem?

o YES Go to next question

o NO Prepare discrepancy action chit.

13. Does the LSAP contain a description of the data collection system to be used by the performing activity to document, disseminate, and control LSA and related design data?

o YES Go to next question

o NO Prepare discrepancy action chit.

14. If automated, has the system been validated by MRSA?

o YES Go to next question

o NO Prepare discrepancy action chit.

15. Does the LSAP contain a description of how LSA tasks and data will interface with the following programs?

a. System/Equipment Design
b. Reliability and Maintainability
c. Human Engineering
d. Standardization and Interoperability
e. Parts Control
f. Safety
g. Packaging Storage, Handling, Transportation
h. Provisioning
i Testability
j. Tech Publication
k. Training & Training Equipment
l. Facilities
m. Support Equipment
n. Test & Evaluation Program
o. MANPRINT

o YES Go to next question

o NO Prepare discrepancy action chit.

16. Does the LSAP contain provisions for updates.

o YES Go to next question

o NO Prepare discrepancy action chit.

17. Does the LSAP contain LSAR data selection sheets (DD Form 1949-1) and identify applicable data elements to be completed?

- o Y S — Go to next question
- o NO — Prepare discrepancy action chit.

18. Does the plan specify introduction or LSA training to be provided?

- o YES — Go to next question
- o NO — Prepare discrepancy action chit.

19. Does the plan identify any and all deliverable data items?

- o YES — Go to next question
- o NO — Prepare discrepancy action chit.

20. Is the duration of the LSAP included?

- o YES — Go to next question
- o NO — Prepare discrepancy action chit.

This concludes the LSAP review. Pertinent information will be consolidated with the results from the LSA strategy review and passed to Process E14.1A1A3.

E14.1A1B3 - Review LSA Documentation

The purpose of this process is to review the LSA documentation in preparation to develop the overall ILSP assessment Report.

What follows is a series of questions that should be answered during this review:

1. Are the elements of the LSAR data selection sheets requiring contractor completion and their delivery schedule identified in the contract statement of work and Contract Data Requirements Lists (CDRL)?

- o YES — Go to next question
- o NO — Prepare discrepancy action chit.

2. Are the LSAR data selection sheets the result of the LSAR tailoring process?

o YES Go to next question

o NO Prepare discrepancy action chit.

3. Do the LSAR data selection sheets reflect realistic requirements consistent with the type acquisition, and acquisition strategy?

o YES Go to next question

o NO Prepare discrepancy action chit.

4. Do the Data Record A's consolidate all pertinent information related to the anticipated operations of the system, the environment in which the system will be operated and maintained, and the system maintenance requirements which must be met?

o YES Go to next question

o NO Prepare discrepancy action chit.

5. Has Data Record A information been prepared for the system and for each subsystem for which maintenance requirements are to be imposed including Government Furnished Equipment (GFE)?

o YES Go to next question

o NO Prepare discrepancy action chit.

6. Are separate Data Record A's developed when wartime/ peacetime requirement are different, utilizing the Alternate LSA control Number Code (ANC) procedure?

o YES Go to next question

o NO Prepare discrepancy action chit.

The main purpose of Data Record A is to document the system maintenance requirements. It may also be used to document the allocation of those requirements to lower indenture reparable.

7. Do the LSAR Data Records (B through J) conform to data requirements and format set forth in MIL-STD-1388-2A?

o YES Go to next question

o NO Prepare discrepancy action chit.

E14.1A1B4 - Review ILS/MANPRINT Integration

The purpose of this process is to review the ILS/MANPRINT in preparation for developing the overall ILSP assessment report. What follows is a series of questions that should be answered during this review.

1. Have crew manpower goals and threshold been established?

o YES Go to next question

o No Prepare discrepancy action chit.

2. Have crew manpower goals & threshold been compared to a contemporary baseline system and significant differences explained considering design support concept, and employment objective?

o YES Go to next question

o NO Prepare discrepancy action chit.

3. Are test planning analysis consistent with established crew manpower goals & thresholds?

o YES Go to next question

o NO Prepare discrepancy action chit.

4. Have analyses been conducted to determine projected availability of required crew manpower?

o YES Go to next question

o NO Prepare discrepancy action chit.

5. Have contractual provisions been established to conduct further trade-off analysis to balance crew manpower and skill requirements, hardware characteristics, and support concepts?

o YES Go to next question

o NO Prepare discrepancy action chit.

6. Do plans exist to update and finalize crew manpower & skill requirements through the LSA process?

o YES Go to next question

o NO Prepare discrepancy action chit.

7. Have maintenance support manpower goals and thresholds been established?

o YES Go to next question

o NO Prepare discrepancy action chit.

8. Have maintenance support manpower goals & thresholds been compared to a contemporary baseline system and significant differences explained considering design support concept, and employment objectives?

o YES Go to next question

o NO Prepare discrepancy action chit.

9. Have manpower and skill levels been estimated through all three levels of maintenance?

o YES Go to next question

o NO Prepare discrepancy action chit.

10. Do test planning analyses verify established maintenance manpower goals and thresholds?

o YES Go to next question

o NO Prepare discrepancy action chit.

11. Have analyses been performed to determine projected availability of required maintenance manpower through all three levels of maintenance?

o YES Go to next question

o NO Prepare discrepancy action chit.

12. Have contractual provisions been established to conduct further tradeoff analysis to balance maintenance manpower, and skill requirements, hardware characteristics, and support concepts?

- o YES Go to next question
- o NO Prepare discrepancy action chit

13. Do plans exist to provide maintenance personnel representing each field support level applicable to the system for IOT&E and technical manual verification?

- o YES Go to next question
- o No Prepare discrepancy action chit.

14. Do plans exist to update and finalize maintenance manpower and skill requirements through the LSA process?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

15. Do plans exist for collecting sufficient manpower and skill data during LD, TT-II, and IOT&E to verify attainment of manpower goals & threshold through all three levels of maintenance?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

E14.1A1B5 - Review ILSP

The purpose of this process is to review the Integrated Logistic Support Plan (ILSP) and develop an overall ILSP assessment report.

What follows is a series of questions that should be answered during the ILSP review.

1. Is the ILSP prepared in the format set forth in DA-PAM-700-55?

- o YES Go to next question
- o NO Prepare a discrepancy action chit which includes the following:

- A detailed description of the discrepancy
- A detailed description of the action required to correct the discrepancy
- Identification of the activity or individual responsible for the corrective action
- The time frame in which the corrective action is to be completed
- An impact statement as to the affect the discrepancy will have on the support-ability, cost, readiness or schedule if not corrected.

2. Does the ILSP provide a general background about the system/equipment being acquired?

o YES Go to next question

o NO Prepare discrepancy action chit.

3. Does the ILSP describe how the plan will be used to manage the ILS program?

o YES Go to next question

o NO Prepare discrepancy action chit.

4. Does the ILSP contain a summary of past actions and events, major decision points and all significant program changes that have taken place?

o YES Go to next question

o NO Prepare discrepancy action chit.

5. Does the plan state what will be accomplished during each life cycle phase of the new system/equipment?

o YES Go to next question

o NO Prepare discrepancy action chit.

6. Does the plan contain provision to track, number, and date each revision, and a summary page of each update?

o YES Go to next question

o NO Prepare discrepancy action chit.

7. Does the plan contain a list of all abbreviations and acronyms used?

o YES Go to next question

o NO Prepare discrepancy action chit.

8. Is the overall description of the system/equipment, including major and secondary items, included in the plan?

o YES Go to next question

o NO Prepare discrepancy action chit.

9. Are all components of the systems described including GFE?

o YES Go to next question

o NO Prepare discrepancy action chit.

10. Does the ILSP contain support-related and goals?

o YES Go to next question

o NO Prepare discrepancy action chit.

11. Does the ILSP describe the transportability requirements of the system and how it will be deployed?

o YES Go to next question

o NO Prepare discrepancy action chit.

12. Are training devices described that are planned or needed to train maintenance and operator personnel?

o YES Go to next question

o NO Prepare discrepancy action chit.

13. Is the support plan for each training device described?

o YES Go to next question

o NO Prepare discrepancy action chit.

14. Is an ILS manager assigned?

o YES Go to next question

o NO Prepare discrepancy action chit.

15. Has the ILSP been coordinated with all ILS program participants and comments resolved?

o YES Go to next question

o NO Prepare discrepancy action chit.

16. Does the ILSP specify the ILS Management Team (ILSMT) and LSA review team by name and organization?

o YES Go to next question

o NO Prepare discrepancy action chit.

17. Does the ILSP establish the working relationship with other groups, such as special study group, test integration working group, training support working group, MANPRINT JWG, and computer resources work group?

o YES Go to next question

o NO Prepare discrepancy action chit.

18. Have all proposed logistic investigations to be performed during current and subsequent acquisition phases been identified and scheduled?

o YES Go to next question

o NO Prepare discrepancy action chit.

19. Has the applicable data been extracted from the following documents and incorporated into the ILSP?

a. Justification for Major System New Start (JMSNS).
b. Organization & Operational Plan (O&O Plan)
c. Required Operational Capability (ROC)
d. System/Equipment Specification
e. Table(s) of Organization and Equipment (TOE)
f. Technical Manuals
g. Field Manuals
h. Transportability/Engineering Analysis report
i. Basis of Issue Plan (BOIP)

j. Qualitative/Quantitative Personnel Requirement Information (QQPRI)
k. Test and Evaluation Master Test Plan (TEMP)
l. System Manpower & Personnel Integration Management Plan (MANPRINT)
m. Test Program Set Management Plan
n. System Training Plan
o. Provisioning Plan
p. LSA Plan
q. New Equipment Training Plan
r. Computer Resource Management Plan
s. Program Baseline Document

o YES Go to next question

o NO Prepare discrepancy action chit.

20. Does the ILSP define the System Readiness Objective (SRO) for both peacetime Ao and wartime requirements?

o YES Go to next question

o NO Prepare discrepancy action chit.

21. Does the plan identify actions to reduce acquisition and/or operations and support costs.

o YES Go to next question

o NO Prepare discrepancy action chit.

22. Have risks associated with system support alternatives been addressed?

o YES Go to next question

o NO Prepare discrepancy action chit.

23. Does the plan outline those actions required to reduce requirements for a high degree of skill to operate and maintain the system (MANPRINT/ILS Integration).

o YES Go to next question

o NO Prepare discrepancy action chit.

24. Does the plan describe how ILS and supportability will be addressed in the source selection process?

o YES Go to next question

o NO Prepare discrepancy action chit.

25. Does the plan identify actions to provide incentives to increase reliability, reduce maintenance requirements, and increase operational readiness?

o YES Go to next question

o NO Prepare discrepancy action chit.

26. Does the plan describe the ILS requirements which will be included in the solicitation documents, contracts and statements of work?

o YES Go to the next question

o NO Prepare discrepancy action chit.

27. Does the plan describe what efforts have been or will be made to assure that the system is engineered to be transportable by all specified transportation modes?

o YES Go to next question

o NO Prepare discrepancy action chit.

28. Does the plan describe the LSA strategy to be used in the acquisition effort?

o YES Go to next question

o NO Prepare discrepancy action chit.

29. Does the plan describe the planned supportability test and evaluation concept, scope and objectives and how they will be met during development tests and evaluations and operational tests and evaluations? (See DA-PAM 700-50)

o YES Go to next question

o NO Prepare discrepancy action chit.

30. Does the plan describe how ILS and LCC will influence source selection, system design and acquisition decisions?

o YES Go to next question

o NO Prepare discrepancy action chit.

31. Does the ILSP contain a maintenance plan that describes the maintenance concept, and defines the task requirements through all applicable levels of maintenance to include requirements for interim contractor support, if any?

o YES Go to next question

o NO Prepare discrepancy action chit.

32. Does the plan describe the optimum repair level analyses (ORLA) to be performed to optimize the maintenance plan?

o YES Go to next question

o NO Prepare discrepancy action chit.

33. Does the ILSP describe the proposed supply support concepts, supply support limitations, constraints and system peculiar requirements for the end item, support equipment and TMDE?

34. Does the ILSP contain provisioning planning in accordance with (AR 700-18)?

o YES Go to next question

o NO Prepare discrepancy action chit.

35. Does the ILSP identify any potential deviation from standard Army supply support procedures? Are these procedures acceptable?

o YES Go to next question

o NO Prepare discrepancy action chit.

36. Does the ILSP address the cataloging, acquisition, packaging, preservation, receipt, storage, issue and disposal of repair parts, ammunition, POL, secondary items, special and common tools?

o YES Go to next question

o NO Prepare discrepancy action chit.

37. Is a plan included for determining the range, quantity, and specific requirements for supply support elements needed in the SSP (AR 700-127)?

o YES Go to next question

o NO Prepare discrepancy action chit.

38. Does the ILSP describe procedures to be used to identify requirements for support equipment and TMDE?

o YES Go to next question

o NO Prepare discrepancy action chit.

39. Does the ILSP require investigation of existing standard support items, such as support equipment (SB 700-20) in the Army inventory, the TMDE Register (DA PAM 700-21), and preferred items list (DA-PAM 700-21-1), and obtaining approval from the appropriate organization prior to use of system peculiar support items?

o YES Go to next question

o NO Prepare discrepancy action chit.

40. Does the ILSP describe how training and training device requirements will be met and who is responsible for meeting those requirements?

o YES Go to next question

o NO Prepare discrepancy action chit.

41. Does the ILSP define a method for determining if new equipment training will be required?

o YES Go to next question

o NO Prepare discrepancy action chit.

42. Does the ILSP identify logistic technical data requirements for the equipment/system?

o YES Go to next question

o NO Prepare discrepancy action chit.

43. Have equipment publications, e.g., technical manuals been identified?

o YES Go to next question

o NO Prepare discrepancy action chit.

44. Is the acquisition schedule for publications coordinated with the system production schedule?

o YES Go to next question

o NO Prepare discrepancy action chit.

45. Does the ILSP describe how the LSAR database will be used as source data in publication preparation to assure compatibility between the repair parts list, support equipment and tool lists, task allocation, skills and the narrative operating and maintenance instructions of the publications?

o YES Go to next question

o NO Prepare discrepancy action chit.

46. Does the ILSP define the criteria to be used for validation & verification of publications and indicate quantities and types required in support of the equipment?

o YES Go to next question

o NO Prepare discrepancy action chit.

47. Does the ILSP provide guidance for inter-Service coordination on technical data requirements for multi-Service acquisition?

o YES Go to next question

o NO Prepare discrepancy action chit.

48. Does the ILSP consider the requirement to purchase a technical data package, and what effect it will have on the acquisition plan?

o YES Go to next question

o NO Prepare discrepancy action chit.

49. Does the ILSP describe ILS requirements, constraints, issues and management procedures unique to stand-alone or embedded computer hardware or software?

o YES Go to next question

o NO Prepare discrepancy action chit.

50. Is the ILSP compatible with the Computer Resource Management Plan (CRMP) in accordance with (DARCOM-R 70-16)?

o YES Go to next question

o NO Prepare discrepancy action chit.

51. Does the ILSP identify manpower and personnel requirements for developing and fielding computer resources and the training requirements to operate and maintain the computer resources?

o YES Go to next question

o NO Prepare discrepancy action chit.

52. Does the ILSP describe a method or plan to acquire, test and evaluate computer software and software support, and how software errors will be detected and corrected?

o YES Go to next question

o NO Prepare discrepancy action chit.

53. Does the ILSP make provisions for determining software support and post-deployment software support procedures, requirements and responsibilities?

o YES Go to next question

o NO Prepare discrepancy action chit.

54. Does the ILSP describe Packaging, Handling and Storage (PHS) requirements, management responsibilities and procedures to be used to ensure that PHS requirements are identified and met in a timely manner consistent with system acquisition schedule?

o YES Go to next question

o NO Prepare discrepancy action chit.

55. Does the ILSP identify anticipated storage modes, constraints and risks?

o YES Go to next question

o NO Prepare discrepancy action chit.

56. Does the ILSP identify parts, components, an Test Program Sets (TPS) environmental storage and climatic requirements (for example, humidity and static control, and grounding requirements)?

o YES Go to next question

o NO Prepare discrepancy action chit.

57. Does the ILSP identify PHS requirements for shipment of equipment & ASIOE to Continental United States (CONUS) and overseas commands, including special PHS requirements of participating services?

o YES Go to next question

o NO Prepare discrepancy action chit.

58. Does the ILSP describe transportation and transportability requirements, and constraints, including transportation requirements for ASIOE, TMDE, parts, ammunition, POL, etc.

o YES Go to next question

o NO Prepare discrepancy action chit.

59. Does the ILSP address the use of transportability analysis performed by the Commander, Military Traffic Management Command as source data for ILS planning?

o YES Go to next question

o NO Prepare discrepancy action chit.

60. Does the ILSP identify requirements for development of a transportability report and submittal to MTMC, IAW AR 70-47, to obtain transportability approval?

o YES Go to next question

o NO Prepare discrepancy action chit.

This request and subsequent transportability approval should be included in the ILSP.

61. Does the ILSP document known or planned maintenance calibration storage and training facilities, utilities requirements and constraints, and personnel facilities requirements in a Support Facilities Annex?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

62. Does the ILSP specify the use of LSAR output Summary LSA-12, special facilities requirements, to provide requirements and justification for the construction of new facilities?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

63. Does the ILSP address the adequacy or inadequacies of existing facilities (both fixed & mobile) for both the end item and its maintenance and support needs?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

64. Does the ILSP identify modification to existing facilities necessary to overcome those inadequacy described above?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

65. Does the ILSP address those requirements (including responsibilities and funding) and schedules required to provide necessary modified or new facilities (fixed and mobile) and any military construction requirements?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

66. Does the ILSP contain a listing of those essential items and equipments with which the proposed system must interoperate? The list should include any proposed or current end items being planned or utilized by allied nations, or systems planned or used by the Army or other Services.

o YES Go to next question

o NO Prepare discrepancy action chit.

67. Does the ILSP identify known or suspected S&I deficiencies and/or shortcomings and plans to correct or eliminate them?

o YES Go to next question

o NO Prepare discrepancy action chit.

68. Does the ILSP describe potential standardization of components, devices, and subsystems to be considered to provide S&I capability and reduce acquisition, training, operations, maintenance, and supply costs?

o YES Go to next question

o NO Prepare discrepancy action chit.

69. If interim contractor support is considered, does the ILSP describe how transition to government support will be accomplished?

o YES Go to next question

o NO Prepare discrepancy action chit.

70. Does the ILSP describe how repair parts usage, skills, training, procedures, technical data will be obtained and used during the transition period?

o YES Go to next question

o NO Prepare discrepancy action chit.

71. Does the ILSP contain sufficient detail to assure that all necessary data is provided in time to adequately provision, train and maintain the system prior to transition to government support.

o YES Go to next question

o NO Prepare discrepancy action chit.

72. Does the ILSP contain the results (dollar/type funds) of cost estimating, by ILS element, major functions, and appropriation research, development, test, and evaluation and other procurement?

o YES Go to next question

o NO Prepare discrepancy action chit.

73. Does the ILSP include provision and schedule for Post Fielding Assessment?

o YES Go to next question

o NO Prepare discrepancy action chit.

74. Does the plan specify the units in which the assessments will be made and the status of support arrangements these units will provide to the assessment teams?

o YES Go to next question

o NO Prepare discrepancy action chit.

75. Does the plan describe and list the assessment team personnel, and skill level required?

o YES Go to next question

o NO Prepare discrepancy action chit.

76. Does the ILSP require and identify a Reliability, Availability, and Maintainability (RAM) sample data collection system?

o YES Go to next question

o NO Prepare discrepancy action chit.

77. Is the sample data collection system in accordance with AR 750-37 and AR 702-3?

o YES Go to next question

o NO Prepare discrepancy action chit.

78. Does the ILSP contain an initial post-production support plan, that documents resources and management actions to ensure the sustainment of SRO requirements and logistic support at all levels following the cessation of the production phase for the equipment/system?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

79. Does the post-production planning reflect the planning criteria set forth in Appendix E or DA-PAM 700-55?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

80. Does the ILSP contain a realistic milestone schedule which shows specific ILS program tasks & events?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

81. Does the milestone schedule include the proposed beginning, current schedule, and completion dates of significant actions, command and staff elements with prime responsibility and primary Point of Contact for the action?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

82. Does the milestone schedule contain the minimum milestones set forth in Appendix D of DA-PAM 700-55?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

83. Have all milestones been coordinated with the organization involved, to ensure that tasks, events, and date are in agreement with their workload and can be accomplished as scheduled?

- o YES Go to next question
- o NO **Prepare discrepancy action chit, then go to end of review and prepare overall ILSP assessment report.**

E14.1A2B - DEVELOP CONFIGURATION/MANAGEMENT REPORT

In order to accomplish the processes reflected on E14 DFD E14.1A2B, the following questions have been prepared to assist in the review and assessment of each individual process:

E14.1A2B1 - Review Product Baseline (PCI)

The purpose of this process is to ensure that the Product Configuration Identification (PCI)/Product Baseline represents the results of the physical configuration audit, and that the documentation is detailed enough to be used to prescribe necessary build-to, form, fit and function requirements for the CI and the acceptance tests for these requirements.

The type and level of detail to be contained in the PCI should be determined by considering requirements for anticipated method of procurement, for configuration audits, and for logistic support of potentially repairable items which are part of the CI.

The following references may be useful: AR 70-37, MIL-STD-1456.

1. Does the Product configuration identification provide the detailed data necessary to prescribe build-to, form, fit function of the CI and the acceptance test for those requirements?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

2. Were requirements for anticipated method of the re-procurement, configuration audits and logistic support of potential repairable items which are part of the CI considered when developing the PCI?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

3. Is the PCI documentation in accordance with MIL-STD-83490 and/or MIL-STD-490, MIL-D-1000, MIL-STD-100 and the criteria set forth in AR 70-37?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

4. Was the approved product Baseline established upon successful completion of the physical configuration audit in accordance with AR 70-37?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

E14.1A2B2 - Identify Configured Item

This process reviews the procedures developed to identify the configured item and the process by which the item is tracked through the status accounting system.

The following reference may be useful: AR 70-37.

1. Was the selection of CIs to be configuration - managed, based on either the Government's need to control a CI's inherent characteristics or to control that CI's interface with other items?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

2. Was selection of prime and lower level CIs accomplished through the system engineering process?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

3. Did the CI selection consider all engineering/logistic factors, i.e., design interface, maintainability, accessibility, troubleshooting, diagnostics, etc.

- o YES Go to next question
- o NO Prepare discrepancy action chit.

4. Has functional configuration identification been accomplished on all designated configuration items?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

5. Does each CI and each of its items that require configuration traceability have assigned numbers in accordance with AR 70-37 and marked as prescribed in MIL-STD-130?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

E14.1A2B3 - Review ECP Processing Procedures

The purpose of this process is to assure that the contractor (as well as in-house) Engineering Change Proposals (ECPs) are prepared in accordance with MIL-STD-480 or MIL-STD-481.

MIL-STD-480 requires a complete analysis of the impact if the change described by the ECP were implemented. This review should consider the validity of the procedures used to ensure that the package submitted with the ECP contains a description of all known interface effects and information concerning changes in the functional/product baselines.

The main thrust of this review should be the supporting data outlining the impact upon integrated logistic support and overall estimated cost impact.

This review will include the Configuration Control Board procedures and processes to ensure all elements of ILS are understood and considered prior to ECP approval.

The following reference may be useful: AR 70-37.

1. Are all engineering change proposals prepared in accordance with MIL-STD 480 or 481?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

2. In the event the engineering change proposal were implemented, has a complete analysis of the impact been performed in accordance with MIL-STD-480?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

3. Does the engineering change proposal documentation contain a description of all known interface effects and information concerning changes required in the Functional/ Allocated/Product Baselines?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

4. Does the ECP documentation provide supporting data outlining the impact upon Integrated Logistic Support as well as overall estimated life cycle cost impact?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

5. Has a Configuration Control Board (CCB) been established?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

6. Does the CCB membership include representatives from all affected activities, such as engineering, product assurance, configuration management, production, maintenance, test, procurement, facilities, training, interface controls, logistic support and in-house/contractor activities?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

7. Are the Chairman, members, and alternates specifically named on a set of special orders/charters establishing the CCB?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

8. Is the decision of the CCB implemented by means of a Configuration Control Board Directive (CCBD) or Configuration Control Board Request (CCBR) which will be the formal record of decision?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

9. Are the significant events in processing ECPs planned in accordance with Figure 2 of AR 70-37?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

E14.1A2B4 - Review Status Accounting Data Base

The purpose of this process is to review the configuration status accounting system data base to ensure that it is capable of handling all status records that will be prepared to record all established baselines of formally released configurations and approved changes thereto. Ensure that the data contained in the status accounting report records for the system or equipment is adequate and available for:

1. Engineering Management
2. Production Management
3. Logistic Management

Ensure that means are provided for feedback of actual information on costs, modification application, serial number affectivity, to replace the estimated data, where estimated data were supplied, prior to the approval of an ECP or request for deviation/waiver.

The following references may be useful: ARs 70-30, 700-126, DA Supply Bulletin H4-1.

1. Does the Status Accounting (SA) Data Base contain the complete data base on which the CIs baseline was established?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

2. Does the SA data base contain the name, number, revision and issue date of each specification that is part of the CI's Baselines?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

3. Does the SA data base contain the number, revision letter and date of each drawing that is part of the CI's Baselines?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

4. Does the SA data base contain the nomenclature of each CI and that of the next higher level (if any) of which it is a part?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

5. Does the data base contain the identifying number of each CI and that of the next higher level (if any one of which it is a part?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

6. Does the SA data base contain the manufacturer's code identification number of the design activity of each CI? Refer to the DA SB H4-1 Cataloging Handbook.

- o YES Go to next question
- o NO Prepare discrepancy action chit.

7. Are provisions made to record the Federal Stock Number of each CI as they are assigned?

- o YES Go to next question
- o No Prepare discrepancy action chit.

8. Does the SA data base contain the part number assigned to units of each CI?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

9. Does the SA data base contain serial numbers or lot numbers assigned to units of each CI?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

10. Does the SA data base provide provisions to record and track all ECPs through the processing route?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

11. Does the SA data base provide provisions for update and feedback to all activities involved, including contractors?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

E14.1A2B5 - Review Status Accounting Procedures

The purpose of this process is to review the configuration status accounting procedures to ensure that the status accounting function provides traceability of configuration baselines and changes thereto and acts as a management tool for accomplishing all related tasks resulting from such changes, and that a configuration record documenting all approved configuration changes to all designated CIs are maintained.

The following reference may be useful: AR 70-37.

1. Does the Status Accounting (SA) Function provide traceability of configuration baseline and subsequent changes and provide management information for accomplishing all related tasks resulting from such changes?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

2. Does the Status Accounting Procedure assure that there will be a configuration record created documenting all approved configuration changes to all designated CI's?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

3. Is configuration status accounting planned to be initialed at the time the configuration baseline is approved, and maintained until the last unit of the configuration type, model, series is delivered?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

4. Does the configuration status accounting procedures require documentation, as a minimum, to include identification of:

a. Technical documentation comprising the configuration baseline and other essential configuration item data?

b. Contractual information required to be included in the record/reports for each configuration item, including contractor identification?

c Approved changes to configuration, including the specific number and kind of items to which these changes apply, the implementation status of each change, and the activity responsible for implementation?

d. The accomplishment of updating/retrofit changes in order to maintain status on all configured items in the custody of a contractor?

E14.1A2B6 - Review ECP Evaluation Procedures

The purpose of this process is to review the ECP evaluation procedures. This review will ensure that:

A. The Configuration Control Board (CCB) is established to achieve coverage of a Command responsibility for review and evaluation of all proposed changes to released configuration identification documentation.

B. Determine if the CCB serves as an advisory group to perform a total impact evaluation on the ECP.

C. Ensure the CCB includes appropriate representatives from elements responsible for Engineering, Product Assurance, Logistic Support, Procurement, Production, Maintenance, and Test.

D. Ensure that the evaluation of each proposed change takes into consideration all aspects of the change on a CI and the associated CIs with which it interfaces. Such aspects should include: Design, Performance, Cost, Schedule, Operational Effectiveness, Logistic Support, Transportability, and Training.

1. Does the Evaluation Procedure include as an alternative, not making the change?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

2. Does the Evaluation Procedure take into consideration all aspects of the change on a CI and the associated CI's with which it interfaces?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

3. Does the Evaluation include the relative merits of production application and inventory retrofitting versus the impact on readiness and economics of operating and supporting multi-configuration?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

4. Is the documentation of the change proposal adequate for translation into detail design capable of producing reliable hardware, computer programs or facilities?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

5. Does the Evaluation include engineering and scientific aspects of the change proposal in view of other research and development effort that may be in process?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

6. Does the Evaluation include the effects the change will have on interfaces with other equipment or facilities of the system and sub-systems as represented in system tests, interface/interface control and coordination drawings, system drawings, system technical manuals, installation, and system performance?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

7. Has documentation for each ECP evaluated to date included the effects of the change on the elements of Integrated Logistic Support and all supportability related issues?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

8. Does the Evaluation address the total impact on cost (contractor/in-house) including all aspects of cost growth and/or cost savings such as engineering, retrofit and Integrated Logistic Support and production cost changes?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

9. Does the Evaluation include effects on ecology, environment and occupational health and safety?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

E14.1A2B7 - <u>Review CI Interface Control Procedures</u>

The purpose of this process is to ensure that interface control documentation is definitized and the detailed interface requirements are included in the allocated/product baseline documentation in the appropriate CI specification.

The following reference may be useful: AR 70-37.

1. Are the detailed interface requirements definitized and the documentation included in the allocated/product Baseline documentation?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

2. Does the interface control documentation establish specific functional or physical relationships that must exist between CI's (particularly between government furnished equipment and contractor furnished equipment) to achieve integration and compatibility?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

3. Does the interface control documentation establish and define design constraints for the item?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

4. Is the interface control documentation in sufficient detail to enable evaluation and control of the physical and functional design interrelationships?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

5. Is the interface control documentation included in all pertinent specifications?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

E14.1A2B8 - Review ILS Elements/Item Interface

The purpose of this process is to ensure that the package of documented data submitted with the engineering change proposals submitted to date contain results of trade-off analysis and impact statements as to the effect the change will have upon interfacing ILS elements. All supportability and supportability related factors should be addressed.

The following reference may be useful: AR 70-37.

1. Are the effects on product configuration, operations and logistics, including interface, identified and justification documented?

NOTE: To answer this question refer to page 3 of the Engineering Change Proposal (DD Form 1692-2), this is a summary sheet which will identify the effects in the following area. Block 34 effects on Product Configuration Identification or Contract. Block 35 effects on Integrated Logistics Support (ILS elements). Block 36 effects on Operational Employment. Block 37 other considerations which include interface. This summary sheet identifies each element effected and also provides a cross reference as to the enclosure and paragraph of the data package containing the narrative results of the Analysis and document the justification for the required change. This data should provide all the information required to accomplish process E14.1A2B8.

2. How many ECPs have been submitted to date?

3. How many approved?

4. How many of approved changes impact ILS elements?

5. Of those impacting ILS elements, for how many have the ILS elements been modified to be compatible with the change?

6. Have all ECPs with documented significant ILS impacts been rejected by the CCB?:

E14.1A2B9 - Develop Configuration/Management Assessment Report

This process will consolidate the findings and results of the other processes on this Data Flow Diagram and develop an overall assessment report on the adequacy of the configuration management planning to ensure a process has been developed that is capable of tracking the item configuration through the life cycle with a sound audit trail.

The following reference may be useful: AR 70-37.

E14.1A3B - DEVELOP AN OPERATIONAL & ORGANIZATIONAL PLAN ASSESSMENT REPORT

In order to accomplish the processes reflected on DFD E14.1A3B, the following questions have been prepared to assist in the review and assessment of each individual process:

E14.1A3B1 - Review Operational & Organizational Plan

The purpose of this process is to review the mission area analysis in order to gain insight as to the types and number of equipments required to meet the threat. This information is required to assess the O&O plan in the areas of supportability and supportability related factors.

The following references may be useful to you: Program Managers Documentation File, AR 70-1, MAA and BDP

1. Does the O&O Plan identify and document critical technical, operational, training, standardization, producibility and interoperability deficiencies?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

2. Does the Mission Area Analysis (MAA) identify logistic support problems for resolution subsequent to the approval of an O&O plan?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

3. Does the O&O Plan address organizational, personnel, training and logistic opportunities for solving mission deficiencies?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

4. Does the O&O Plan address technological support and readiness drivers of current systems, to include production process and industrial base capacity?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

5. Does the O&O Plan address manpower and personnel (MANPRINT) integration constraints that may limit an acceptable solution to the need?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

6. Does the O&O Plan consider systems of allies for cooperative development or coproduction?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

7. Does the O&O Plan address strategic and tactical transportability requirements?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

8. Does the O&O Plan address S&I and RSI requirements?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

9. Does the O&O Plan address the operational environmental requirements and the environmental impact?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

10. Is the operational concept approved?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

11. Is the O&O plan format in accordance with AR 71-9?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

12. Is the need for the system/material capability simply and concisely described?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

13. Was the need developed from a deficiency discovered during MAA?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

14. Is the operational deficiency to be eliminated described?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

15. Is the threat clearly described?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

16. Is each operational characteristic essential to mission accomplishment?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

17. Can each characteristic be evaluated during early technical and user testing?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

18. Is each characteristic supported in the Rationale Annex?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

19. Is there a description of how, what, when and where the system will be employed?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

20. Are other interface systems identified?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

21. Is how the system will interface with the other systems described?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

22. Are the type units that will employ the system identified?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

23. Are the type units that will support the system identified?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

24. Is the system to be replaced identified?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

25. Is the replacement ratio of new to old identified?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

26. Has standardization and interoperability been coordinated with each of the other services?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

27. Does the O&O plan contain the operational mode summary/ mission profile annex?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

28. Does this annex support the operational concept?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

29. Does this annex address both peacetime and wartime conditions?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

30. Does the OMS/MP format comply with AMC/TRADOC PAM 70-11?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

31. Is a full justification provided, in the rationale annex, for each entry in the operational characteristics and system constraints paragraphs?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

32. Does the O&O plan contain a coordination annex which reflects all agencies with which the O&O plan is required to be coordinated?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

33. Did the other services indicate any similar programs contemplated or in progress?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

E14.1A3B2 - Review Constraints

The purpose of this process is to review constraints that may limit an acceptable solution to the need; such as mobility, transportability, Manprint, logistics, environment, communications, survivability, transportability, cost, etc.

The following references may be useful: AR 71-9, MAA, BDP.

1. Are the constraints valid and reasonable?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

2. Have applicable standardization, interoperability or commonality constraints been described?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

3. Are any limits on dimensions described?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

4. Are any limiting factors affecting transportability described?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

5. Are any limiting factors affecting any integrated logistic support elements described?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

6. Are any limiting factors affecting any of the six domains of Manprint described?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

7. Are any unique factors affecting the environment described?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

8. Are any limiting factors affecting training including devices, range facilities, or institutional facilities described?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

9. Is documented rationale supporting each constraint available?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

E14.1A3B3 - Review System Concept & Operation Scenarios

The purpose of this process is to review the proposed system support concept and operational scenarios, to form a basis for the assessment of the O&O plan to ensure all supportability related factors included in the O&O Plan are compatible with the intended use of the system/equipment.

The following references may be useful: AR 70-1, AR 700-127, DA PAM 700-55, and O&O Plan.

1. Has the planning document been initiated that prescribes mission and operation capability goals?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

2. Have the system concept and operational scenarios been described in sufficient detail for the development O&O plan?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

3. Have plans been developed as to how the new system will be integrated into the force structure?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

4. Have priorities been established for developing and acquiring the new technology incorporated into the new system?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

5. Have the operational risks and impact of standardization and interoperability been established?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

6. Have the system concept, operational scenario, doctrine and concepts been coordinated with other services and allied nations?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

7. Has a policy been established and implemented concerning technology security in support of the system requirements?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

8. Has analysis been completed to determine how the materiel system will be used, how it will be supported and how it will contribute to combat capability?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

9. Do the mission scenarios and requirements address operational environment, transportability requirements, employment concepts, deployment plans, and combat service support force structure?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

10. Have details been provided such as annual operating days, annual number of missions, mean mission duration, etc.? These details should be sufficient to include in the O&O plan.

- o YES Go to next question
- o NO Prepare discrepancy action chit.

E14.1A3B4 - Review MANPRINT Implications

The purpose of this process is to ensure that the crew and maintenance manpower goals and thresholds have been established and that the projections have been compared to a contemporary baseline system, and significant differences explained considering design, support concept, and employment objective. Ensure that an analysis has been conducted to determine projected availability of required manpower and plans have been established to resolve any projected shortfalls and that there are plans to update or finalize manpower, skill level, and training requirements through the LSA process. This process will provide the information necessary to ensure that all Manprint and logistic support implications were studied and taken into consideration during the development of the O&O plan.

The following references may be useful: ARs 700-127, 602-2, DA PAM 703-78.

See questions prepared under Process E14.1A1B4 (MANPRINT Implications).

E14.1A3B5 - Review Maintenance Concept

The purpose of this process is to ensure the maintenance concept minimizes the need for the using unit to disassemble the equipment, and that the concept is consistent with Army policy set forth in AR 750-1 regarding the tasks assigned to each level of maintenance. Ensure that the maintenance concept is supported by documented analysis, and that there are plans (reflected in the

Logistics Demonstration Plan and TEMP) to perform and evaluate all proposed maintenance tasks during FSD as required by AR 700-127. Ensure that there are plans to correct shortcomings discovered during the testing process. The basis of this review is to ensure there was an early maintenance concept developed and used during the development of the O&O plan.

The following references may be useful: ARs 700-127, 700-126, 750-1.

1. Does the early maintenance concept analysis identify the type units that will support the new system?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

2. Does the maintenance concept identify what level of maintenance will be performed by what organization?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

3. Does the maintenance concept planning consider where the system will be employed on the battlefield and how it will interface with other systems.

- o YES Go to next question
- o NO Prepare discrepancy action chit.

4. Does the maintenance concept consider the commonality of parts, components, system, TMDE, etc.?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

5. Does the maintenance planning include standardization and interoperability with other services or allied nations?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

6. Does the maintenance concept consider Host Nation Support (HNS), contractor support, interservice support, etc.?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

E14.1A3B6 - Review System Readiness Objective (SRO)

The purpose of this process is to ensure that the initial SROs (peacetime and wartime) have been established and are consistent with current technology and that there are sufficient tests and engineering and support analysis planed to provide evidence of satisfactory progress toward meeting the tentative SRO threshold requirements, resolving technical risks and known problems of similar fielded systems. Determine if the projected mean administration and logistics downtime projected in the SROs are consistent with historical data on anticipated supply, maintenance, recovery, and evacuation responsiveness.

The following references may be useful: DA PAM 700-30, ARs 725-50, 700-10, 700-127, DA PAM 700-55, and AMC/TRADOC PAM 70-11.

1. Has a System Readiness Objective (SRO) been established for both peacetime & wartime?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

2. Does current technology suggest the established SRO can be met?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

3. Were the projected RAM Rationale, operational scenarios, operation mode and mission profiles used to establish the SRO?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

4. Is the SRO consistent with historical data on anticipated supply, maintenance, recovery and evacuation and mean logistic delay times?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

E14.1A3B7 - Develop O&O Plan Assessment Report

This process will consolidate the findings and results of the other processes on this data flow diagram and develop an overall assessment report of the O&O plan and ensure all supportability and supportability related issues were considered and addressed in the plan.

E14.1A4B - DEVELOP A POST-PRODUCTION SUPPORT PLANNING ASSESSMENT REPORT

In order to accomplish the processes reflected on E14 DFD, E14.1A1B the following questions have been prepared to assist in the review and assessment of each individual process. The following directives may be useful: AR 700-127, AR 200-12 and DA PAM 700-26.

E14.1A4B1 - Review ILSP Data

The Purpose of this review is to gain insight into the Maintenance Plan, Maintenance Engineering Analysis and Evaluation of the end item or system to be supported, the Maintenance Allocation Chart, and to review the released parts drawings, descriptions, assembly, general arrangements and diagrams sufficient to indicate the physical characteristics of the parts in the equipment and the location and function of each part. Review the system reliability and maintainability data. Review costs associated with in-house and contractor manufacturing and repair alternatives. Review the supply and consumption data available on the system during tests and post deployment. Information gathered during this review will form the basis for the post-production support plan assessment.

The following references may be useful: ARs 700-127, 700-12, System ILSP, DA PAM 700-26.

1. Does the maintenance planning consider alternative maintenance concepts for the system in the later years of the life cycle?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

2. Does the logistic support analysis identify items or areas of support that may be a potential problem during post-production period?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

3. Have methods to satisfy the support problems been identified?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

4. Are the work breakdown structure diagrams sufficient to indicate the parts in the equipment and the location of each part?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

5. Are the reliability block diagrams sufficient to indicate the physical characteristics and functions of each part in the system?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

6. Does the production engineering analysis reflect the costs associated with in-house and contractor manufacturing and repair alternatives?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

7. Does the ILSP make provisions to collect and analyze support data during post deployment phase to keep the post-production support plan updated?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

8. Does the maintenance planning consider cross-service support capabilities?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

9. Does the maintenance planning consider the impact of product improvement?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

10. Does the Post Support Planning address the warranty program?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

E14.1A4B2 - Review Resources & Support System Constraints

The purpose of this process is to ensure that adequate analysis and evaluations have been accomplished to ensure post-production support requirements have been identified and sufficient funding is available to ensure the system can be supported and maintained and operated in a state of readiness that meets the design requirements and system readiness objective through the life cycle.

This review should identify support items that will present potential problems due to inadequate sources of supply after shut-down of production lines, potential alternatives to satisfy support problems for the system/equipments expected useful life, and recommended plan to assure effective logistic support for the system/equipment for its remaining life. This process will also

identify any hardware or software for which the Government will not or may not have full design rights due to constraints imposed by regulations or laws limiting the information the contractor must furnish because of proprietary or other source control consideration. All other support system or funding constraints should be assessed and evaluated.

The following references may be useful: AR 700-127, DA PAM 700-55, MIL-STD-1388.1A Tasks 401 and 403, and DI P-7119.

1. Have post-production support requirements been identified?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

2. Have resource requirements been identified?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

3. Has the projected funding been authorized & approved?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

4. Has all hardware and software been identified for which the government will not or may not have full design rights due to constraints imposed by regulations or laws limiting the information the contractor must furnish because of proprietary or other source control considerations?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

5. Are there any funding or other support constraints that may impact post-production planning?

- o YES Prepare discrepancy action chit
- o NO Go to next question.

6. Have the funding projections been authorized and are funds available?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

E14.1A4B3 - Review SRO In Post-Deployment

The purpose of this process is to review the required system readiness objective during the post-production phase as the basis for the post-production support plan assessment to ensure the system will be supportable in both peacetime and wartime operational environment, after the assembly and production lines have been closed.

The following references may be useful: AR 70-1, TRADOC/AMCP 70-2, AR 700-127, DA PAM 700-55.

1. Is the post-support planning based on the System Readiness Objective (SRO) during post-deployment phase?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

2. Was the Pre-Planned Product Improvement program (PPI) considered when establishing the SRO?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

3. Will the advancement in manufacturing technology help maintain the SRO during post-production?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

4. During current operations, is the system SRO being met?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

5. Will changes in the operational scenarios or mission profile have an impact on the SRO?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

E14.1A4B4 - Review Service Life Expectancy

The purpose of this process is to review the projected useful life of the system and to ensure the adequacy of support strategy if the system life cycle is extended beyond the original projected, and assess the impact the preplanned product improvement program will have upon the system during the post deployment life cycle (readiness objective and consequently, the post-production support requirements).

The following references may be useful: LSA Task 403, MIL-STD-1388.1A.

1. Does the post-production plan extend beyond the normal Army technological and obsolescence forecast which considers a ten year projection?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

2. Was the impact of P3I program and engineering changes (configuration management) of the system projected throughout the life expectancy of the system?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

3. Were military manpower and personnel skills availability considered during the post-production period?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

4. Have projections been developed to ensure the capability of depot repair activities to perform the required manufacturing of the support items required during post-production period?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

5. Were conversion in lieu of procurement (CILOP) programs considered prior to closing the production lines?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

6. Was the potential of new technology breakthrough considered, and what impact it would have on post-production support?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

E14.1A4B5 - Review Technology Production Base

The purpose of this process is to identify candidate technologies that offer the greatest potential and are sufficiently mature for consideration in developing alternative operational and support concepts during the later years of the systems life cycle through the advancement in production processes and industrial base capacity.

The following reference may be useful: AR 71-9.

1. Did the post-production planning analysis identify areas to pursue which might improve or expand manufacturing technology by improved manufacturing processes, techniques or equipment that would impact the post-production support?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

2. Have alternative operational & support concepts been developed for the post-production phase of the life cycle?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

3. Does the post-production support strategy consider contractor logistic support vs. organic support?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

E14.1A4B6 - Review PPS Information Provided to Contractor

The purpose of this process is to ensure the organization responsible for the post-production support planning has all of the documented data necessary to develop the post-production support plan and assess the validity of the data and assure that all supportability and supportability related issues are addressed.

The following references may be useful: AR 700-127, DA PAM 700-55, MIL-STD-1388.1A Task 403, DA PAM 700-26.

1. Has an organization been designated to prepare and maintain the post-production plan?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

2. Does the post-production planning organization have sufficient data to maintain and update the post-production plan?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

E14.1A4B7 - Develop an Overall Assessment Report

The process will consolidate the findings and results of the other processes on this data flow diagram and develop an overall assessment report of the post-production support planning to ensure that spare and repair parts will be available to sustain normal operations throughout the system's expected service life, after the production and assembly lines have been shut down and the production contract terminated.

The answers to the following questions should be available from the annexes and discrepancy chips.

1. Was the post-production support plan developed as an appendix to the ILSP?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

2. Does the post-production plan contain identification and assessment results of the impact on both the weapon system and the support system (including expected foreign military sales requirements) as a result of expected production phase out and technological change or obsolescence forecast?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

3. Does the post-production plan address the systems readiness objectives in the post-production time frame?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

4. Does the plan consider alternative post support strategies such as second source, support buy-out, pre-planned product improvements, substitution of new technology, etc.?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

5. Does the post-production address the impact if the system life cycle is extended beyond the original projections?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

6. Does the post-production plan contain a support strategy for a system declared obsolete to the U.S. Forces but retained in service by friendly foreign countries and allies?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

7. Are actions needed, to obtain cost-effective competition of post-production support requirements, identified?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

8. Are provisions made for utilization disposition and storage of government-owned production tools, equipment and contractor developed tools, test equipment, etc.?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

9. Have responsible agencies been chartered for joint planning and execution of applicable elements of the post-production support plan?

- o YES Go to next question
- o No Prepare discrepancy action chit.

10. Does the plan schedule a post-production support decision meeting?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

E14.1A5B - DEVELOP AN ROC ASSESSMENT REPORT

In order to accomplish the processes, reflected on E14 DFD E914.1A5B the following questions have been prepared to assist in the review and assessment of each individual process:

E14.1A5B1 - <u>Review Logistic Requirements</u>

The purpose of this process is to ensure all logistic requirements have been identified and documented and that all supportability and supportability related issues are addressed in the Required Operational Capabilities documentation (ROC).

The following references may be useful: ARs 71-9, 700-127, DA PAM 700-55, 70-1, AMC/TRADOC PAM 70-2, and AMC/TRADOC PAM 70-11.

1. Have analyses been performed to determine the degree of compatibility of the new system/equipment with existing system/equipment?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

2. Has standardization, including commonality for components, software, ammunition, power sources, TMDE, etc. been addressed?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

3. Has transportability and mobility been addressed?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

4. Have reliability, maintainability and availability requirements been addressed?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

5. Has the ROC been staffed through the Logistics Evaluation Agency (LEA), and all other appropriate agencies as identified in AR 71-9?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

6. Have requirements for system-related training equipment/ devices been documented in the ROC?

- o YES Go to next question
- o NO Prepare discrepancy action chit

7. Have environmental issues been addressed?

- o YES Go to next question
- o NO Prepare discrepancy action chit

8. Have communication requirements been addressed?

- o YES Go to next question
- o NO Prepare discrepancy action chit

9. Have individual and collective protection equipments been addressed?

- o YES Go to next question
- o NO Prepare discrepancy action chit

10. Have system safety requirements been addressed?

- o YES Go to next question
- o NO Prepare discrepancy action chit

11. Has manpower/force structure been addressed?

- o YES Go to next question
- o NO Prepare discrepancy action chit

E14.1A5B2 - Review the Operational Mode Summary/Mission Profile

The purpose of this process is to ensure that the OMS/MP contains sufficient information to develop the RAM requirements under basic climatic conditions and those extreme conditions associated with relative high frequency use. Project Maintenance Manpower Requirements based on the data contained in the OMS/MP. Ensure that the OMS/MP contains sufficient data to develop test planing that will provide data to evaluate achievement of all RAM requirements under field support conditions.

The following references may be useful: AR 71-9, AR 700-127, DA PAM 700-28, TRADOC Reg 71-4, TRADOC/AMC PAM 70-11, & AR 702-3.

1. Does the OMS/MP describe how the system/equipment will be used to accomplish the missions it will be expected to perform, in sufficient detail to be used for early ILS planning?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

2. Is the OMS/MP based on the description of the tasks, frequency, conditions and standards developed during the MAA?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

3. Does the operational mode summary differentiate between wartime and peacetime operations and include the conditions under which the missions will be performed?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

4. Does the OMS include total operating and alert time for each mission as determined in the mission profile?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

5. Does the mission profile include the utilization or operating time necessary to ensure mission success?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

6. Is the mission profile defined sufficient to be used as the basis for mission reliability assessment?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

7. Are the mission profiles quantitatively described in terms such as hours, miles, rounds etc.?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

8. Is the OMS/MP consistent with future doctrine and tactics (air, land, battle, 2000)?

- o YES Go to next question
- o No Prepare discrepancy action chit.

9. Is the operational mode summary/mission profile included as an appendix to the ROC?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

10. Is the O&O plan approved?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

11. Are the initial evaluation issues and criteria included as enclosure to the transmittal letter for the O&O plan?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

12. Has the O&O Plan been coordinated with those organizations identified in AR 71-9?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

13. Is the needed operational capability clearly and concisely described?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

14. Is there a logical connection among the need, threat and deficiency?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

15. Are all operational characteristics described?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

16. Is the technology available for the design?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

17. If the technology is not available, is it discussed in the Pre-planned Product Improvement section?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

18. Are MANPRINT analyses included?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

19. Are personnel requirements & constraints included?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

20. Has the O&O Plan been coordinated with other services & NATO Nations to determine S&I interfaces?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

21. Is a life cycle cost analysis included?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

22. Are safety considerations and constraints identified?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

23. Is the milestone schedule realistic?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

24. Has an analysis been conducted to determine the need for system training devices?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

25. Are health hazard assessment consideration and constraints identified?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

26. Are any unique health hazard assessment requirements described?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

E14.1A5B3 - Review COEA Summary

The purpose of this process is to ensure that the COEA considered the total ILS costs including the projected operational, maintenance and support costs, and to ensure logistic resources have been identified and realistically represent the requirements necessary to support the equipment in its's operational environment throughout its life cycle, and to ensure a life-cycle cost assessment is included in the ROC.

The following references may be useful: ARs 700-127 & 71-9.

1. Is the life-cycle cost assessment expressed in terms of the life cycle phases of development, military construction, fielding and sustainment costs?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

2. Are design-to-cost goals included in the ROC?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

3. Are design-to-cost goals (acquisition, operation and support) established as a result of trade-off analysis between operational capability, performance costs, and schedules?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

4. Is the life-cycle cost assessment a separate annex to the ROC?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

E14.1A5B4 - Review Manpower Requirements

The purpose of this process is to review the MANPRINT analysis to ensure the manpower projections and skill level projections are consistent with the systems operational requirements and that crew, maintenance, and supply manpower goals and thresholds have been established and are available for inclusion in the ROC.

The following references may be useful: AR 70-1, TRADOC/AMCP 70-2, AR 700-127, DA PAM 700-55, AR 602-2, and AR 71-9.

1. Are the manpower requirements per system per unit, and total Army listed for input to the ROC?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

2. Was a trade-off analysis for any force structure increase performed?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

3. Is an assessment of alternatives to reduce manpower requirements by component provided for the ROC?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

4. Are personnel requirements by MOS provided for the following operators, maintainers, repairer, and other support personnel?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

5. Is the overall training strategy included?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

6. Is the need for training devices included?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

7. Are the HFE analysis considerations and constraints identified?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

8. Are system safety requirements discussed?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

9. Are any health hazards analyses considered and constraints identified?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

E14.1A5B5 - Review RAM Rationale

The purpose of this process is to ensure a failure definition/scoring criteria (FD/SC) consistent with the operational mode summary/mission profile (OMS/MP), and system reliability requirements have been developed and coordinated with required agencies according to AR 702-3 and to ensure the FD/SC includes an assessment of incidents related to logistics burden, durability, and mission success.

The following references may be useful: ARs 702-3, 700-127, DA PAM 700-55, TRADOC/AMCP 70-11.

1. Is the RAM Rationale consistent with the system operational and support requirements, and the COEA?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

2. Does the RAM Rationale include wartime and peacetime operational availability with supporting rationale, the employment concepts used and the support concept constraints?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

3. Does the RAM Rationale present the R&M and ALDT values and life cycle cost differential for each support alternative?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

4. Is the availability factor consistent with the OMS?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

5. Was the RAM Rational data base developed from RAM data on a similar system or system performing functions similar to the new system (Baseline comparative system LSA Task 203 from MIL-STD-1388-1A)?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

6. Has the failure definition and scoring criteria been approved by all concerned activities?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

7. Does the scoring criteria establish specific classifications for assignment of changeability of each test incident?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

8. Does the FD/SC include safety reliability requirements?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

E14.1A5B6 - Review O&O Plan

The purpose of this process is to ensure the O&O Plan includes appropriate logistics related tentative reliability, durability, supportability, manpower, and cost requirements consistent with available current technology and the SRO (Peacetime and Wartime) have been established based on the available technology and the threat that must be countered.

The following references may be useful: ARs 702-3, 700-127, 70-1 and 71-9.

1. Is the operational plan paragraph of the ROC an update synopsis of the operational plan paragraph in the approved O&O plan?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

2. Is the organizational plan paragraph in the ROC an updated synopsis of the organizational plan paragraph in the approved O&O plan?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

3. Is each operation characteristic identified in the O&O plan essential to mission accomplishment?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

4. Are operational characteristics expressed in bands of performance?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

5. Is the needed operational capability clearly and concisely described consistent with the approved O&O plan?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

E14.1A5B7 - Review Risk Assessment

The purpose of this process is to ensure all risks have been identified concerning the technology base, schedule, design, manpower availability, training requirements, and all supportability and supportability related issues and that acceptable solutions have been developed to reduce the risks to an acceptable level.

The following references may be useful: ARs 70-1, 700-127, DA PAM 700-55, MIL-STD-1388-1A.

1. Did the technical assessment include a risk analysis?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

2. Did the system support assessment include a risk analysis?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

3. Did the manpower/personnel assessment include a risk analysis?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

4. Did the technology assessment include risk analysis?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

5. Did the life cycle cost assessment address risk associated with cost?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

6. Were all risks considered when developing the milestone schedule?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

7. Is the threat information in the ROC an updated synopsis of that in the approved O&O plan?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

8. Does the O&O plan contain an updated operational mode summary/mission profile from the RAM rational?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

9. Does the deficiency description in the ROC match that in the approved O&O plan?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

E14.1A5B8 - Review ROC and Develop ROC Assessment Report

This process will review the ROC and consolidate the findings and results of the other processes on this data flow diagram and develop and overall assessment report of the required operational capability for the system to ensure all ILS considerations were assessed and included in the ROC documentation.

The following references may be useful: ARs 700-127, 70-1, 71-9, and TRADOC/AMCP 70-2.

E14.1A6B - DEVELOP CONTRACTORS INTEGRATED SUPPORT PLAN ASSESSMENT REPORT

In order to accomplish the processes reflected on E14 DFD E14.1A6B the following questions have been prepared to assist in the review and assessment of each individual process.

E14.1A6B1 - Review Acquisition Strategy (AS)

The purpose of this process is to review the Acquisition strategy to ensure the contractors ISP is consistent with the Acquisition Strategy Planning.

The following references may be useful: DA PAM 700-55, AR 700-127, AR 700-28, AR 70-1, LSA Task 101 of MIL-STD-1388-1A.

1. Does the AS discuss types of contracts contemplated for each succeeding phase?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

2. Does the AS explain the manner in which competition will be maximized in the form of total life cycle strategy?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

3. Does the AS describe the major efforts to be accomplished during each phase of the acquisition process?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

4. Does the AS provide summary plans to incorporate P3I principles during system design?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

5. Does the AS consider plans to compress the process and accelerate acquisition and identify regulatory waivers required?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

6. Does the AS discuss how the system will be supported when fielded?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

7. Does the AS identify the type, length, and echelons for any use of interim contractor support?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

8. Does the AS include plans to ensure that ILS considerations are evaluated during design?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

9. Does the AS specify means to obtain contractor participation in efforts to minimize operating and support costs and improve system availability?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

10. Does the AS discuss impacts of warranty program on support and supply concepts?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

11. Does the AS contain a summary of known technical risks & plans to reduce or eliminate such risks in succeeding phases?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

12. Does the AS contain plans to ensure RSI goals are achieved?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

13. Has the AS identified readiness, O&S, and manpower cost drivers in predecessor systems?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

14. Does the AS contain plans to ensure that HFE, system safety, and health hazard assessment and control are considered throughout the design process?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

E14.1A6B2 - Review LSA Strategy

The purpose of this process is to review the contractors LSA strategy and ensure the contractor has developed his LSA strategy based on and in parallel with the Army acquisition and LSA requirements and ensure the required tasks identified in MIL-STD-1388-1A have been addressed and cost estimates are reasonable.

The following references may be useful: AR 700-127, DA PAM 700-55, AR 70-1, MIL-STD-1388-1A.

1. Is the LSA strategy tailored to the type acquisition and scheduled to meet program decision points?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

2. Does the LSA strategy address the multidisciplinary activity and coordination of various engineering disciplines?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

3. Does the LSA strategy identify those tasks and subtasks from MIL-STD-1388-1A that is to be accomplished as part of the LSA program?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

4. Does the LSA strategy provide cost projections to accomplish each LSA task?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

5. Does the LSA strategy address the action organization responsible for the accomplishment of each LSA task?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

6. Does the LSA strategy address probable design maintenance concept and operational approach?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

7. Does the LSA strategy contain projections for R&M, O&S costs, and logistic resource requirements?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

8. Does the LSA strategy address the potential design impact on performing the LSA task and subtasks?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

9. Does the LSA strategy identify program funding and schedule constraints and other known key resource constraints, i.e. deficits in number of skills of personnel, limited priorities of strategic materials etc.?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

10. Does the LSA strategy identify available data bases for use in LSA task accomplishment?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

11. Does the LSA strategy outline the objectives and tasks which provide the best return on resources investment?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

12. Does the LSA strategy address the expected mission and function for the new system/equipment?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

13. Is the contractor ISP prepared in accordance with AR 700-55 and MIL-STD-1369A.

- o YES Go to next question
- o NO Prepare discrepancy action chit.

14. Does the ISP describe how the ILS program will be conducted and integrated and tasks planned and performed to meet all program requirements?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

15. Does the ISP provide for revisions and updates?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

16. Does the ISP contain a description plan of how the ILS program will be planned, managed, executed and how each LSA task (1388-1A) and ILS element planning tasks/subtasks contract requirement, and how the overall system/equipment goals, objectives and constraints will be performed?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

17. Does the ISP address system performance, requirements and goals?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

18. Have all proposed logistic investigations to be performed during current and subsequent phases been identified and scheduled?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

19. Does the ISP outline those actions required to reduce requirements for a high degree of skill to operate and maintain the system (MANPRINT)?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

20. Does the ISP identify actions required to increase reliability, reduce maintenance requirements, and increase operational readiness?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

21. Does the ISP address any risks associated with alternative system support systems?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

22. Does the ISP identify actions that may reduce acquisition and/or operating and support costs?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

23. Does the ISP describe the planned supportability test and evaluation concept scope and objectives, and how they will be met during development test and evaluation and operational test and evaluation (DE&OT)? See DA-PAM 700-50.

- o YES Go to next question
- o NO Prepare discrepancy action chit.

24. Does the ISP include planning to determine the ranger, quantity and specific requirements for support elements needed in the SSP?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

25. Does the ISP address the investigation of existing standard support equipment(SB 700-20), in the Army inventory, the TMDE register (AR 750-43) and preferred items list (DA-PAMPHLET 700-21-1)?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

26. Does the ISP describe how the LSAR data base will be used as source data in publication preparation to ensure compatibility between the repair parts list, support equipment and tool list, task allocation, skill and narrative operating and maintenance instructions of the publications?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

27. Does the ISP address those essential items and equipments with which the new system must interoperate to include any proposed or current end item being planned or utilized by other services or NATO Nations?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

28. Does the ISP identify known or suspected S&I deficiencies and/or shortcomings and plans to correct or eliminate them?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

E14.1A6B3 - <u>Review Contract Statement of Work (SOW)</u>

The purpose of this process is to review the contract Statement of Work to ensure it is concise and contains all ILS specifications stated in the contract and tasks required to develop

data to project and assess specific parameters relative to cost, schedule, performance, supportability and supportability related issues, and ensure there is no duplicated effort called for. Ensure that the contractor has a clear understanding of what is required, when it is required, and why it is required, and the tasks are scheduled for completion consistent with the system acquisition schedule, and all contract deliverables are listed as individual line items on the Contract Data Requirements List (CDRL), and a Data Item Description (DID) is identified for each deliverable.

The following references may be useful: MIL-STD-1388-1A, AR 700-127, DA PAM 700-55, AMCP 700-21, and MIL-STD-248.

1. Does the statement of work identify all the work effort required to comply with those ILS specifications contained in the contract?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

2. Is a DID referenced for each ILS deliverable specified on the CDRL concerning the item of the statement of work?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

3. Does the contractors ISP conform to the ILS specification of the contract?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

4. Does the SOW address each element of the contractor ISP?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

5. Does the SOW include all details, requirements and performance objectives, including input and outputs required of the contractor, the extent to which the contractor must perform and the data, planning, analysis or information the contractor must provide?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

E14.1A6B4 - Review MIL-STD-1388-1A LSA Tasks

The purpose of this process is to review the MIL-STD-1388-1A tasks identified to be accomplished to ensure the selection was made by a process which tailored the tasks requirements to the type acquisition and to ensure the tasks selected will provide the required data to assess the validity of all ILS requirement projections and to continuously update and assess supportability and supportability related issues.

The following references may be useful: MIL-STD-1388-1A, AR 700-127, AR 70-1.

1. Were the LSA tasks reflected in the ISP tailored to the type acquisition?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

2. Do the tasks selected provide the required data needed to develop a cost effective support system?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

3. Is there any redundant or duplicated effort among the LSA tasks selected and task requirement of other engineering effort?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

4. Are the tasks start and completion dates compatible with the program milestone schedule?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

5. Are the action organization and point of contact identified for the responsibility of accomplishing each LSA task?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

6. Is there a data need justification for each selected LSA task?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

7. Is there a plan for use of the data developed from each selected task?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

E14.1A6B5 - Review O&O Plan

The purpose of this review is to gain insight on the planned use and quantity of end items to be supported, the initial ILS requirements, the planned use rate, maintenance concept, manpower requirement, etc. This data will be useful and necessary to assess the contractors integrated support plan.

The following references may be useful: AR 700-127, DA PAM 700-55, AR 70-1, TRADOC/AMCP 70-2.

1. Does the ISP support the issues and content of the O&O plan?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

2. Does the ISP maintenance planning expand on the maintenance concept reflected in the O&O plan?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

3. Are the ISP manpower requirements consistent with the O&O plan?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

4. Does the ISP address those constraints identified in the O&O plan?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

5. Does the ISP system description reflect those characteristics set forth in the O&O plan?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

6. Does the ISP address those readiness, cost and supportability drivers identified in the O&O plan?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

E14.1A6B6 - Review Contractor ILS Organization

The purpose of this process is to review the contractors ILS organization to ensure an ILS manager has been assigned and has been delegated the authority to represent the contractor in all matters concerning integrated logistic support issues, and a integrated logistic support management team has been organized and contains a qualified representative responsible for each of the ILS elements, and that all interfacing engineering disciplines are represented.

The following references may be useful: DA PAM 700-55, AR 700-127, MIL-STD-1369A.

1. Has an ILS manager been assigned to the program?

- o YES go to next question
- o NO Prepare discrepancy action chit.

2. Has he been designated in writing as the point of contact and been delegated the authority to represent the contractor in all areas of the integrated logistic support program?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

3. Has a logistic support management team been organized?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

4. Are element managers assigned from all the various engineering disciplines needed?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

E14.1A6B7 - Review Milestone Schedule

The purpose of this review is to ensure all of the ILS tasks and events are scheduled with a beginning and end date established, and the milestone chart reflects those requirements that are to be met. are consistent with the acquisition schedule and system acquisition milestone reviews.

The following references may be useful: MIL-STD-1369A, AR 700-127, DA PAM 700-55, and DA PAM 700-26.

1. Does the ISP contain the minimum milestone set forth in DA PAM 700-55?

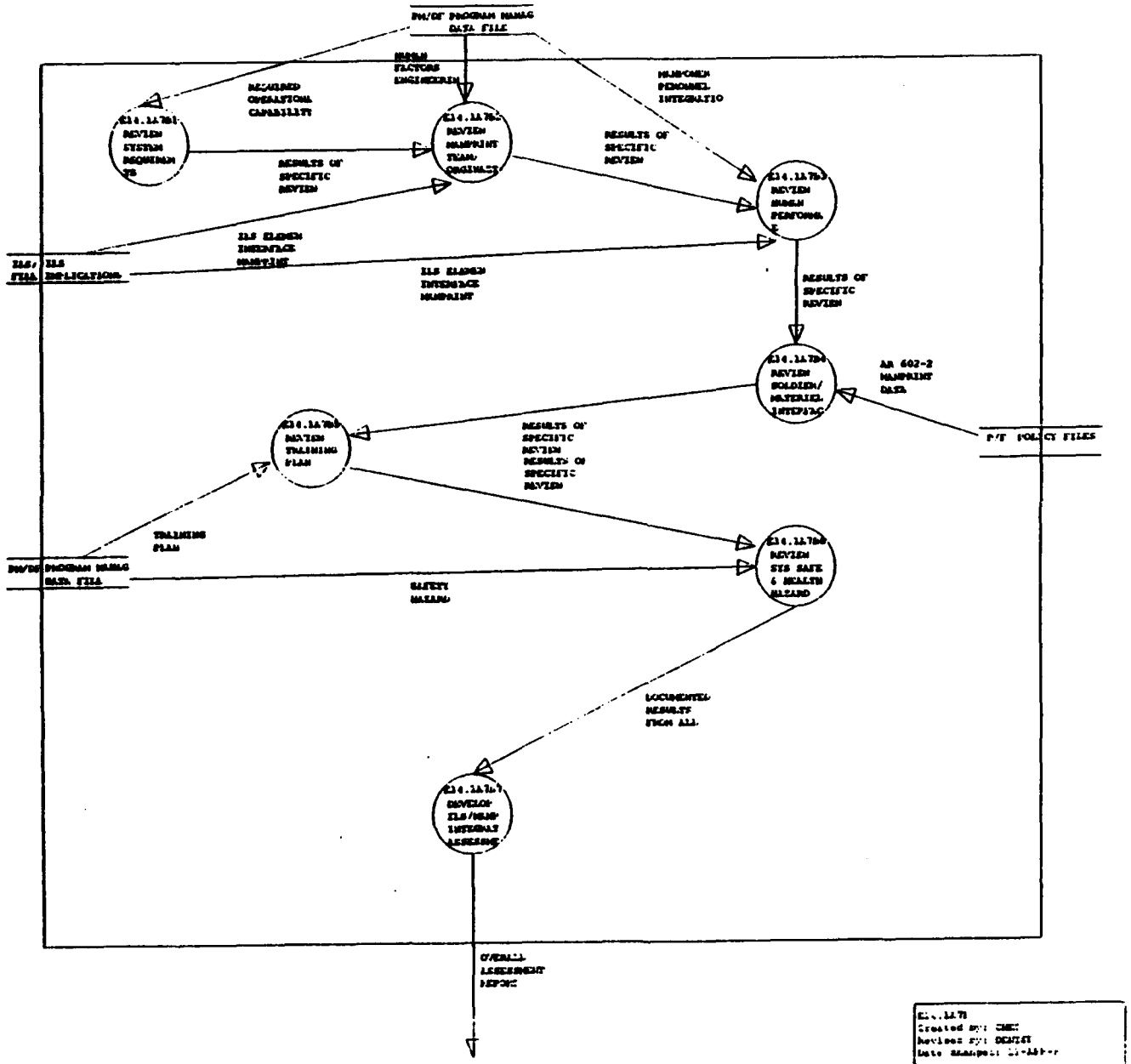
- o YES Go to next question
- o NO Prepare discrepancy action chit.

2. Does the milestone schedule identify what tasks will be accomplished during each life cycle phase of the new equipment?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

3. Does the milestone schedule reflect the beginning and completion dates of each task, and provide a POC for each event?

- o YES Go to next question
- o NO Prepare discrepancy action chit.



4. Have all milestone events been coordinated with the organizations involved, to ensure that tasks, events and dates are in agreement with their individual workload, and can be accomplished as scheduled?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

5. Is the ISP milestone schedule compatible with the program acquisition schedule and milestone decision review schedule?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

E14.1A6B8 - Develop ISP Assessment Report

This process will review the contractors ISP and consolidate the finding and results of the other processes on this data flow diagram and develop an overall assessment report of the contractors integrated support plan to ensure it is consistent with the ILSP and all ILS elements are included and appropriate analysis tasks are identified to satisfy the contract statement of work.

The following references may be useful MIL-STD-1369A, DA PAM 700-55, AR 700-127.

E14.1A7B - DEVELOP ILS/MANPRINT INTEGRATION ASSESSMENT REPORT

In order to accomplish the processes reflected on DFD E14.1A7B, the following questions have been prepared to assist in the review and assessment of each individual process.

E14.1A7B1 - Review System Requirements

The purpose of this process is to review the system requirements to gain the knowledge necessary to ensure that the MANPRINT effort influences the initial functional allocation of tasks among people, hardware, and software, and that MANPRINT is considered in establishing logistics related design constraints and readiness requirements, and that human performance capabilities are considered when determining system performance requirements.

The following references may be useful: ARs 700-127, 602-2, DA PAM 700-55, TRADOC/AMC PAM 70-2.

1. Is MANPRINT data considered during the development of system requirements?

- o YES Go to next question
- o No Prepare discrepancy action chit.

2. Is human reliability and performance considered when developing the system performance requirements?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

3. Have measures of system effectiveness based upon soldier performance been developed?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

4. Has an analysis been conducted to assess any change to the MOS workload due to the system requirement?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

5. Is the aptitude of intended support and operating personnel considered when developing the system requirements?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

6. Are all factors affecting personnel training and training devices considered in the requirements documents?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

E14.1A7B2 - <u>Review MANPRINT Team Organization</u>

The purpose of this process is to review the MANPRINT team organization to ensure that all areas of management are represented. The team should include the representatives of the following:

1. Program Manager (PM)
2. Integrated Logistic Support Manager (ILSM)
3. TRADOC System Manager (TSM)
4. Human Engineering Laboratory
5. Office of the Surgeon General (OTSG)
6. Safety Officers within DA, TRADOC, and AMC
7. System Testers
8. Contractors
9. Army Research Institute for the Behavioral and Social Sciences (ARI).

The following references may be useful to you: AR 602-2, AR 700-127.

In addition to those representatives from management mentioned in the process description, does the MANPRINT team contain representatives with expertise in the following six domains of MANPRINT:

1. Human Factors Engineering
2. Manpower
3. Personnel
4. Training
5. System safety
6. Health hazard assessment.

- o YES Go to next question
- o NO Prepare discrepancy action chit.

E14.1A7B3 - Review Human Performance Requirements

The purpose of this process is to review human performance, capabilities, and limitations to ensure that MANPRINT will focus on total force structure manning issues and identifies up-front constraints for the acquisition and ILS process, and ensure that human performance capability, and performance are considered during planning, development and deployment of each ILS element.

The following references may be useful: AR 700-127, DA PAM 700-55, AR 602-2.

1. Does the human performance analysis address atmospheric conditions including composition, pressure, temperature and humidity?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

2. Does it include acoustic noise, vibration, acceleration, shock, blast and impact forces?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

3. Does it address personnel protection from thermal, toxicological, radiological, electrical, pyrotechnic, visual and other hazards?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

4. Does it address space requirements for personnel, and their equipment for movement and activities they are required to perform during operation and maintenance tasks under all conditions?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

5. Does it address the requirement for safe and adequate passageways, hatches, ladders, stairways, platforms and other provisions for ingress, egress, and passage under all conditions?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

6. Does it address the illumination requirements for the performance of operation. Control training and maintenance of the equipment?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

E14.1A7B4 - Review Soldier/Materiel Interface Characteristics

The purpose of this process is to review soldier/machine interface characteristics to ensure that MANPOWER and training requirements are based on related ILS elements and MANPRINT considerations, and to ensure Human Factors Engineering or behavioral research was applied to determine soldier machine interface and they are predicated on accomplishing the logistic support mission in the most efficient and economical way.

The following references may be useful: AR 700-127, DA PAM 700-55, AR 602-2.

1. Does the Human Factors Engineering analysis address those human engineering design criteria set forth in MIL-STD-1472C?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

2. Does the design minimize personnel and training requirements within the limits of time, cost, and performance?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

3. Does the design reflect Human Engineering, health hazard, life support and biomedical factors that affect human performance?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

4. Does the design reflect allocation of functions to personnel, equipment and personnel/equipment combinations?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

5. Does the design minimize psychophysiological stress effects on mission duration and fatigue?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

6. Does the design reflect applicable system and personnel safety factors, in checking minimization of potential human error in the operation and maintenance of the system?

- o YES Go to next question
- o No Prepare discrepancy action chit.

E14.1A7B5 - Review Training Plan

The purpose of this process is to review the system training plan and new equipment training plan to ensure that the MANPRINT process was applied to determine training needs and constraints, and to identify training and training devices. The training plan should require tasks to develop techniques and tools which would be used to identify initial training strategies and estimates of required training resources.

The following resources may be helpful: AR 700-127, DA PAM 700-55, AR 602-2, AR 570-2, and AR 350-35.

1. Is the cost of personnel and training facilities/ equipment considered during conceptual stages for alternative systems, and selected systems during subsequent stages of acquisition?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

2. Does the training plan describe how the manpower training program will be conducted, managed and implemented to meet requirements?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

3. Is the training program schedule compatible with the acquisition schedule?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

4. Does the training plan contain a specific description of how each specified requirement and task will be complied with and performed?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

5. Does the plan address the training devices needed to accomplish operator and maintenance training?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

6. Have risks and constraints associated with the training program been addressed?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

7. Does the plan identify actions that may reduce personnel and training costs?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

8. Does the training plan cover the requirements for New Equipment (NET) operators/maintainer/instructors, and training teams?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

9. Does the training plan address all levels of maintenance?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

E14.1A7B6 - Review System Safety and Health Hazard Analysis

The purpose of this process is to review the safety and health hazard assessment report to ensure that in those cases where safety or health hazards to operator or support personnel exist, the proposed course of action adequately considers the hazard category, as defined in MIL-STD-882, the likelihood of occurrence, engineering risks, and impact on operational effectiveness, acquisition or procurement cost, and schedules as required by AR 40-10.

The following references may be useful: AR 700-127, AR 40-10, MIL-STD-882, AR 385-16.

1. Do the early safety tasks include evaluation of all materiel, design features, procedures and operational concepts and environments under consideration which would affect safety through the acquisition?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

2. Do the safety tasks identify those technology, design, production and operational, design, production and operational, and support (O&S) risks that may impact safety?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

3. Were trade-off studies performed to reflect the impact on system safety requirements and risks?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

4. Do the safety programs provide qualitative and quantitative system safety requirements for inclusion in the appropriate specifications?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

5. Does the safety planning consider the effects of life cycle storage, shelf life, packaging, transportation, handling, test operation, and maintenance on the safety of the system and its components?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

6. Does the safety planning identify facilities, test requirements, specifications and criteria to ensure design safety is verified?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

7. Does the safety program address the adequacy of safety and warning devices, life support equipment, and personnel protective equipment?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

8. Have critical parts and assemblies, production techniques, assembly procedures, facilities, testing, and inspection requirements which may affect safety been identified?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

9. Does the safety plan identify specific hazard analysis to be performed?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

E14.1A7B7 - Develop ILS/Manprint Integration Assessment Report

This process will consolidate and refine the findings of the other processes on this Data Flow Diagram and develop an overall ILS/MANPRINT assessment report. This report will include the assessment of the adequacy of the integration of all six domains of MANPRINT into the overall ILS analysis process. The six domains of MANPRINT are:

1. Human Factors Engineering
2. Manpower
3. Personnel
4. Training
5. System Safety
6. Health Hazard Assessment.

The following references may be useful: AR 700-127, AR 602-2.

E14.1A8B - DEVELOP ORGANIC SUPPORT ASSESSMENT REPORT

In order to accomplish the processes reflected on DFD E14.1A8B, the following questions have been prepared to assist in the review and assessment of each individual process.

E14.1A8B1 - Review Support Items List

The purpose of this process is to ensure that all system repair parts meeting PLL stockage criteria and identified on the MSL/MRL or SLAC deck as mission essential are available at the designated using units according to AR 700-120 and AR 700-142 and for PLL items not currently available, the gaining command has been notified of the shortages and projected availability dates as required by AR 700-120. This review will also assess the availability of POL, ammunition, support and test equipment, MHE etc..

The following references may be useful: AR 700-127, AR 700-120, AR 700-18, and AR 700-142.

1. Has a recommended PLL or ASL been prepared that identifies all items essential for sustaining materiel readiness?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

2. Is the PLL or ASL tailored to the unit's end item density, geographic location and TOE/TDA mission?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

3. Does the Mission Support Plan (MSP) provide the projected support levels of stock points based on the end item distribution schedule?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

4. Does the Support List Allowance Card (SLAC) include support quantities by total major assemblies, repair parts, special tools, and new TMDE required by class of supply?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

5. Are all logistic support requirements available to the using command?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

E14.1A8B2 - Review Modified Table of Organization & Equipment

The purpose of this process is to review the MTOEs to ensure all crew, maintenance, and support personnel of specified MOS, quantity, SSI, ASII are available at each using unit and all changes to the military occupational structure have been accomplished to implement new or revised MOS, SSI, and ASIs in accordance with AR 611-Series.

The following references may be useful: AR 700-127, DA PAM 700-55, AR 611-Series, AR 570-2.

1. Are quantities of all equipment needed on hand at the using activity at required levels of the approved MTOE?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

2. Were the approved Manpower Requirements Criteria (MARC) equations and variables set forth in AR 570-2 and the QQPRI used as the basis for developing the MTOE?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

3. Have any changes to the MTOE been requested by the using units?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

E14.1A8B3 - Review Training Program

The purpose of this process is to review the Training Program to ensure that the training materiel for each system operator course and system support personal institutional training courses have been developed and the POI approved by TRADOC, and that all

required training devices are available and supportable at the intended training site. Also, to ensure all required training instructors, training equipment, training ammunition, and training devices support equipment are available. That soldier manuals have been developed for each MOS and skill level required to operate and maintain the system and are available to each gaining command.

The following references may be useful: AR 700-127, AR 700-28, AR 350-35.

1. Has all training for training instructor and key personnel been completed?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

2. Has training been completed for a sufficient number of operations, maintains, repairs and other support MOSs?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

3. Has analysis been completed to assess the requirement or changes to the MOS structure or MOS workload?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

4. Have on going training courses and on the job training procedures been developed sufficiently to maintain skill levels required to support the system?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

5. Are all required training devices in place and operational?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

6. Are adequate training ammunition, training manuals, facilities, etc., adequate and available?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

E14.1A8B4 - Review Technical Publications Availability

The purpose of this process is to review the technical publications status to ensure all operator and maintenance manuals have been developed and distributed and that supply and storage bulletins, i.e. storage serviceability standards (SB 740 Series), ammunition surveillance procedures (SB 742-1), packaging and preservation procedures, etc., have been prepared and distributed to each gaining command.

The following references may be useful: AR 700-127, AR 700-129, AR 310-3.

1. Have storage serviceability standards (SB 740 Series) been published and distributed to all storage activities having an assigned mission responsibility for the system?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

2. Have procedures been developed for conducting an ammunition stock pile reliability program and published in (SB 742 1) and an appropriate individual supply bulletin?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

3. Have operation and maintenance manuals been validated, verified and distributed to all using and support activities?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

4. Have ammunition and POL consumption rates been developed, approved and distributed?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

5. Have loading and rigging procedures been provided to using and support organizations?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

6. Have packaging and preservation procedures been developed and distributed?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

7. Have approved Repair Parts and Special Tools List (RPSTL) been distributed to applicable using and support activities?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

8. Has the maintenance allocation chart (MAC) been included in appropriate tech manuals and distributed?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

9. Have calibration procedures been developed and distributed?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

10. Have depot maintenance work requirements (DMWRs) tasks been developed, validated, approved and distributed?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

E14.1A8B5 - Review Support Equipment (TMDE) Availability

The purpose of this process is to review the availability of support equipment and TMDE to ensure that sufficient quantities and types of common equipment for supply support, maintenance support, system operation are included on the TOEs/TDAs and ensure

they are available to and supportable by the gaining activities. Also, ensure all system-peculiar equipments have been added to the TOEs/TDAs and that they are also available.

The following references may be useful: AR 700-127, AR 700-126, AR 710-2, AR 700-142.

1. Are the tools required as basic issue items to perform system operation/crew maintenance, available to each using activity?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

2. Are the tools including (Maintenance Platforms) required to perform system maintenance tasks authorized at all three levels of maintenance available to the designated units?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

3. Is the TMDE (common & peculiar) required to perform system maintenance tasks authorized at all three levels of maintenance available to the designated units?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

4. Is calibration equipment and standards associated with the support and test equipment available to the using units?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

5. Are battlefield recovery equipments required to recover disabled system or equipment from the battlefield available to the designated units?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

6. Are the required types and quantities of MHE (for example, cranes, forklifts, slings, hoists) available to the designated organizations?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

7. Are maintenance shelters, vans, trailers and other required vehicles available at the designated maintenance organization?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

8. Is the required ancillary operational equipment (for example, power generators, generator set, batteries, air conditioners, heaters, radios and prime movers) available to the designated organizations?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

NOTE: If Automatic Test Equipment (ATE) is required for support of the system the additional questions will apply.

9. Have all ATE interface devices associated with maintenance support computer programs been verified and made available to the support units?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

10. Are the resources required to support the new ATE interface devices available at the appropriate support units?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

11. Have all maintenance support computer programs been verified and are they available at the support units?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

12. Have all user instructions (for interfacing with the ATE) been verified and available to the support units?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

E14.1A8B6 - Review Maintenance Facilities Availability

The purpose of this process is to review the facilities planning and ensure that unit, DS, and GS maintenance levels facilities are available to support the system and associated items at projected usage rates and that depot level maintenance facilities and depot maintenance plant equipment is compatible with desired transition to or initiation of organic depot workloading. There are enough storage facilities of the proper type available for initial issue quantities of the PLL items including the ammunition basic load and small arms storage including arms racks and containers that meet physical security requirements?

The following references may be useful: AR 700-127, AR 700 129, TM-841-1, AR 190-11, SB 740-1.

1. Are there enough operational facilities available to permit effective system operations?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

2. Are there enough base operation, administrative, and headquarters facilities available to permit affective deployment?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

3. Are there enough maintenance facilities available to permit effective maintenance tasks at all three levels?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

4. Is there adequate family housing available where required?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

5. Are adequate barracks and dining facilities available?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

6. Are there adequate medical facilities available?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

7. Are there enough morale, welfare, and recreation facilities available to provide essential services for the MOTE unit and supporting elements?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

8. Are there enough storage & supply facilities including PLL, Ammo, POL, small arms racks etc.?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

E14.1A8B7 - <u>Develop Support Transition Assessments Report</u>

The purpose of this process is to consolidate the findings of the other processes on this data flow diagram and prepare an overall assessment report of the adequacy of the materiel support transition plan to ensure a smooth and orderly transition from contractor support to MSC organic support. The plan should include the status of the technical data package, status of all outstanding design/performance issues, planned product improvements and value engineering changes, documentation for support and maintenance, and configuration management documentation and functions.

E14.1A9B - DEVELOP POST-FIELDING ASSESSMENT REPORT

In order to accomplish the processes reflected on E14. DFD E14.1A9B the following questions have been prepared to assist in the review and assessment of each individual process:

E14.1A9B1 - Identify User Units

The purpose of this process is basically to identify those using units that were gaining the new system/equipment as operational system for the first time. This identification is necessary to develop an assessment report of the post-fielding activity and planning.

The following references may be useful: AR 700-127, DA PAM 700-55, MIL-STD-1388-1A Task 402.

1. Have Letters of Notification (LON) been provided to and acknowledged by each gaining activity at least 240 days and 190 days, respectively, prior to production contract award as established by Army policy?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

2. Did each gaining command receive the MSL/MRL at least 7 months prior to the anticipated deployment date (see AR 700-20)?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

3. Was the mission support plan prepared at least 22 months prior to FUED (see AR 700-20 for MSP format)?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

E14.1A9B2 - Review Selected Data Collection System

The purpose of this process is to review the data collection system to ensure the system provides adequate data necessary to monitor the overall systems performance and to isolate areas that require remedial action, i.e., high manhour consumers, high failure items, supply items causing not readiness time, short supply items, operating time, not operational time, reduced capability time, total standby time, etc.

The following references may be useful: AR 750-37, AR 702-7, AR 750-1, and TM 38-750.

1. Does the data collection plan prescribe the objective concepts, policies and responsibilities for collecting data on Army materiel during the post deployment phase of the materiel life cycle?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

2. Is the data collection program designed to collect, process, and analyze logistics management, equipment performance and maintenance performance data?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

3. Does the data collection system provide essential data required for the identification of RAM characteristics, computation of operating and support costs, and evaluation of materiel or systems effectiveness for selected items or equipments?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

4. Does the data collection system satisfy those requirements set forth in AR 700-127, AR 750-1, AR 702-7, AR 750-37, and TM 38-750?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

E14.1A9B3 - Review Support Equipment Planning

The purpose of this process is to review the support equipment planning and determine if the support equipment provided the new using command is sufficient and adequate to support the newly fielded equipment in its intended operational environment and that the support equipment itself is supportable by the using activity.

The following references may be useful: AR 700-127, AR 750-25, AR 750-43.

1. Has any of the new using units experienced any shortage of support equipment?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

2. Do any of the using units consider any support equipment to be in excess of their requirements?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

3. Have any of the using units experienced any difficulty in supporting or maintaining any of the support equipment?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

4. Have any of the using units experienced any mission delays or aborts due to the lack of support equipment?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

E14.1A9B4 - Review Personnel & Training Planning

The purpose of this process is to review the personnel training plan and certify if the planning produced the quantity and quality of personnel with the required skills level to operate and maintain the newly fielded equipment in its operational environment and ensure that required training devices and training materiel are available to sustain the required training demand, and to ensure qualified operator and maintenance personnel will be available through the systems life cycle.

The following references may be useful: AR 700-127, AR 350-38.

1. Are the available ranges adequate to support programmed unit training schedules?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

2. Are classrooms available adequate to support programmed and scheduled unit operator and support personnel training requirements?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

3. Are the training devices and the buildings that house the devices adequate for unit training from a space, utilities, environmental control and other requirements viewpoints?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

4. Do the using units have an on-the-job training program sufficient to maintain required operator & support personnel skill levels?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

5. Have any of the using units experienced any need for additional instructor personnel or training devices?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

E14.1A9B5 - Review Facility Planning

The purpose of this process is to review the facilities planning to determine if sufficient facilities were provided to maintain and operate the newly fielded system to include facility requirements for supply storage, ammunition storage, personnel housing, personnel mess facilities, etc.

The following reference may be useful: AR 700-127

1. Are available operations center facilities adequate to permit effective system operations on a continuous basis?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

2. Are all supply and storage facilities adequate for sustained operations?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

3. Are administrative and headquarters facilities adequate for normal operations activity?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

4. Are troop barracks and dining facilities adequate to support unit personnel?

- o YES Go to next question
- o No Prepare discrepancy action chit.

5. Are military family housing facilities adequate where required and authorized?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

6. Are welfare and recreation facilities adequate to support unit personnel?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

E14.1A9B6 - Review Post Fielding RAM and Test Requirements

The purpose of this process is to ensure that a post-production testing program has been developed and implemented that will ensure that materiel which is reworked, repaired, rebuilt or overhauled after issue and deployment conforms to specified quality, reliability, safety, and operational standards and to ensure the test program includes destructive and or non-destructive tests of assemblies, components and parts that are susceptible to deterioration in storage and that these tests are adequate to

determine the condition of the in-storage materiel and to provide justification for reclassification of materiel that has deteriorated. This program should include testing to ensure the achieved RAM meets pre-established requirements.

The following references may be useful: AR 702-3, AR 702-9, AR 702-10

1. Are descriptions of tests and methods of analysis for diagnosis, qualification, quality conformance, reliability, availability and maintainability RAM set forth in the quality assurance provisions of the DMWR's, storage serviceability standards or appropriate technical manuals?

- o YES Go to next question
- o NO Prepare discrepancy action chit

Note: To perform this process refer to AR 702-10 which prescribes the objectives, concepts, policies and responsibilities for testing of Army materiel during the post production phase of the life cycle.

E14.1A9B7 - Review Spare/Repair Parts Support Planning

The purpose of this process is to ensure the range and quantity of repair and spare parts procured and stocked at each support level, determined in accordance with AR 700-18, are sufficient to support the system in its operation environment, if not, are plans provided to adjust provisioning to an acceptable level. Ensure that the range and quantity of items stocked at GS level as reparable exchange items is adequate to meet the demand satisfaction criteria of AR 710-2. If not, are plans provided to adjust provisioning levels to meet this objective.

The following references may be helpful: AR 700-18, AR 700-127, and AR 710-2.

1. Is the range and quantity of repair and spare parts stocked at each support level adequate to support the new equipment/system in its operational environment?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

E14.1A9B8 - Develop Post Fielding Assessment Report

The purpose of this process is to consolidate the findings of the other processes on this data flow diagram and develop an overall assessment report of the adequacy of the post fielding planning and to ensure provisions have been made to review the success of the complete support system and to compare the achieved ILS parameters with the design requirements in the operational environment.

The following reference may be useful: AR 700-127.

E14.2A - DEVELOP SYSTEM REQUIREMENTS DOCUMENTATION ASSESSMENT REPORT

In order to accomplish the processes reflected on DFD E14.2A, the following questions have been prepared to assist in the review and assessment of each individual process.

E14.2A1 - Assess System Design Review Results (SDR)

The purpose of this process is to assess the System Review Data to ensure that the design represents a feasible approach to the ILS\LSA Program as described in the ILSP and LSAP. During the SDR, the overall program risks associated with each configuration item will be reviewed on a logistical, cost, and schedule basis. For a complete list of what the contractor must provide for review please refer to MIL-STD-1521B Appendix D. This process is mostly concerned with the results of the trade-studies, design studies, functional flow, requirements allocation data, schematic diagrams, and equipment layout drawings and other data that will be useful in managing the ILS efforts, and assessing the system requirements documentation.

The following reference may be useful:

- MIL-STD-1521B.
- AMC-P 700-11, LSA Review Techniques
- DA PAM 700-28, ILS Assessment Guide

1. Do the results of the SDR indicate that the system/ segment specification has adequately addressed ILS requirements in a cost-effective manner that satisfies mission requirements?

o YES Go to next question

o NO Prepare discrepancy action chit.

2. Do the allocated requirements represent a complete and optimal synthesis of the system requirements?

o YES Go to next question

o NO Prepare discrepancy action chit.

3. Is the contractor's functional requirements analysis complete and acceptable?

o YES Go to next question

o NO Prepare discrepancy action chit.

4. Are the support concepts developed based on the system functional requirements?

- o YES Go to next question
- o NO Prepare discrepancy action chit

5. Is the contractor's RAM analysis complete and acceptable?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

6. Does the contractor's Logistic Support Planning include Logistic Support Concept, Maintenance, software facilities, etc.?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

7. Did the contractor review the status of the LSA Tasks/ Subtasks and discuss any results?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

8. Are these tasks on schedule?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

9. Have the results been documented and reported to the Government?

- o YES Go to next question
- o NO Prepare discrepancy chit.

10. Was adequate supportability assessment of proposed design feature made?

- o YES Go to next question
- o NO Prepare discrepancy chit.

11. Were logistics costs, readiness drivers and new/critical resource requirements addressed?

o YES Go to next question

o NO Prepare discrepancy chit.

E14.2A2 - Review System Design Specifications

The purpose of this process is to ensure the system specifications meet the requirements of MIL-STD-490, and to ensure Section three of the system specification details all requirements set forth in the ROC, and other program documents, and that tests and inspections required to verify that the requirements are met, are included in Section 4.

The following references may be useful:

- AR 700-127
- MIL-STD-490
- AMC-R 700-15.

1. Was the system specification developed in coordination with the main subordinate command ILS organization?

o YES Go to next question

o NO Prepare discrepancy chit.

2. Have all logistic performance requirements been included in the system/development specification?

o YES Go to next question

o NO Prepare discrepancy chit.

3. Have the logistic physical compatibility requirements been included (e.g., nozzle size for refueling, weight limits for transportation)?

o YES Go to next question

o NO Prepare discrepancy chit.

4. Have logistic-related reliability requirements been adequately specified (e.g., MTBM, MTBAA, etc.)?

o YES Go to next question

o NO Prepare discrepancy chit.

5. Have qualitative and quantitative maintainability requirement been adequately specified (e.g., modularity, testability, redundancy)?

o YES Go to next question

o NO Prepare discrepancy chit.

6. Have all environmental issues related to use, packaging, handling, storage, and shipment been adequately specified (e.g., mat4erial deterioration prevention) for both the system and its spare parts?

o YES Go to next question

o NO Prepare discrepancy chit.

7. Have special transportability and material handling requirements to include support equipment been established?

o YES Go to next question

o NO Prepare discrepancy chit.

8. Does the logistic section adequately address maintenance, supply, facilities, and facility equipment requirements?

o YES Go to next question

o NO Prepare discrepancy chit.

9. Does the training and personnel section adequately address personnel requirements that must be integrated into design requirements?

o YES Go to next question

o NO Prepare discrepancy chit.

10. Do the training requirements include contractor/ government responsibilities, training equipment/devices, training times/locations, course materials/aids, and special training?

o YES Go to next question

o NO Prepare discrepancy chit.

11. Does the specification include all of the examinations and tests to be performed in order to ascertain the product, material or process to be developed or offered for acceptance conforms to the requirements in Sections 3 and 5 of the specification?

o YES Go to next question

o NO Prepare discrepancy action chit.

NOTE: To accomplish this process, refer to Section 3 - Requirements, Section 4 - Quality Assurance Provision, and Section 5 - Preparation for Delivery. Sections 3 and 5 should detail all requirements and Section 4 should include a corresponding detail QAP for each detail requirement.

E14.2A3 - Review Concept Formulation Package (CFP)

The purpose of this review is to ensure that trade-off determination, trade-off analysis, best technical approach and cost and operational effectiveness analysis were based on the systems requirements documentation and that those system requirements addressed all supportability and supportability related issues including ILS resource requirements.

1. Does the CFP contain the Trade-Off Determination (TOD), Trade-Off Analysis (TOA), Best Technical Approach, and Cost and Operational Effectiveness Analysis (COEA) or and Abbreviated Analysis (AA)?

o YES Go to next question

o NO Prepare discrepancy action chit.

2. Were the above documents based on the stated system requirement (e.g., O&O Plan)?

o YES Go to next question

o NO Prepare discrepancy action chit.

3. Does the CFP adequately address trade-offs, risks, capabilities needed, costs, schedules, ILS requirement, estimated total Army manpower requirements, health, safety and human factors engineering requirements and environmental and ecological factors?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

E14.2A4 - Review System Operational Requirements

The purpose of this process is to review the system operational requirements this will provide the analyst with the background information necessary to develop the system requirements assessment report.

The following references may be useful to you: ROC, O&O Plan, use study (Task 201, MIL-STD-1388-1A)

1. Has the system concept and operational goals & thresholds been described in sufficient detail for the development of the system requirements documents?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

2. Was the integration of the new system into the force structure considered when developing the operational requirement?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

3. Was the degree of new technology considered when developing the system requirements?

- o YES Go to next question
- o NO Prepare discrepancy action chit

4. Was operational constraints, risks and impact of standardization and interoperability considered when developing the system requirements?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

5. Were the support concepts considered when developing the system requirements?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

6. Was the MANPRINT Analysis available when developing the system requirements?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

7. Was human reliability and performance considered when developing the system performance requirements?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

8. Was the aptitude of the intended support & operating personnel considered when developing the system requirements?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

9. Were all factors affecting personnel training and training devices considered when developing the system requirements?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

10. Were safety consideration and constraints considered when developing the system requirements?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

11. Were health hazards and constraints considered when developing the system requirements?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

12. Was Reliability Availability and Maintainability (RAM) considered when developing system requirements?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

E14.2A5 - Develop System/Requirements Document Assessment Report

The purpose of this process is to consolidate the findings of the other processes on this data flow diagram and develop an overall assessment report of the adequacy of the system requirements documentation and to ensure that all supportability and supportability related issues and ILS resources are considered and included and all ILS elements have received appropriate weighing in all system requirements documents.

E14.3A - DEVELOP BOIP/QQPRI ASSESSMENT REPORT

In order to accomplish the processes reflected on DFD E14.3A, the following questions have been prepared to assist in the review and assessment of each individual process.

E14.3A1 - Review O&O Plan

The purpose of this process is to ensure the O&O Plan includes appropriate logistics related tentative reliability, durability, supportability, manpower, and cost requirements consistent with available current technology and the SRO (peacetime and wartime) has been established based on the available technology and the threat that must be countered. The O&O Plan is the initiation document to develop the BOIP/QQPRI. This review provides background information for the BOIP/QQPRI Assessment.

The following references may be useful: ARs 71-9, 702-3, 700-127, and 70-1.

1. Does the O&O Plan identify the type units that will operate and support the new system?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

2. Does the O&O Plan address applicable emerging support concepts, support organizations, and doctrine?

o YES Go to next question

o NO Prepare discrepancy action chit.

3. Does the O&O Plan address where the new system will be employed on the battlefield and how it will interface with other systems, to include standardization and interoperability requirements with other Army, other Service, or allied nation tasks or systems?

o YES Go to next question

o NO Prepare discrepancy action chit.

4. Does the O&O Plan provide details regarding the operational mode summary and mission profile, such as annual operating days, annual number of missions, and mean mission duration requirements?

o YES Go to next question

o NO Prepare discrepancy action chit.

5. Does the O&O Plan include those logistics-related constraints (e.g., transportability) which are considered necessary for any acceptable system solution?

o YES Go to next question

o NO Prepare discrepancy action chit.

6. Does the O&O Plan address manpower and personnel constraints or critical issues?

o YES Go to next question

o NO Prepare discrepancy

7. Does the O&O Plan address how the operating environment impact on manpower & personnel assigned to operate and maintain the system?

o YES Go to next question

o NO Prepare discrepancy action chit.

8. Does the O&O Plan include gross life cycle cost estimates?

o YES Go to next question

o NO Prepare discrepancy action chit.

9. Has the O&O Plan been coordinated with those Army organizations in accordance with AR 71-9?

o Yes Go to next question

o NO Prepare discrepancy action chit.

E14.3A2 - Review Training Devices Requirements

BOIPs are required for materiel developed or item procured in response to a training device requirement (TDR) or any other valid requirements document which will result in a new materiel item which requires a new line and type classification standard (LCC A). This process will review the TDR as an end item to identify the BOIP requirements.

The following references may be useful: ARs 611-2, 71-2, and 71-9.

1. Does the Training Device Needs Statement (TDNS) describe the capabilities of the individual who will be trained by the device?

o YES Go to next question

o NO Prepare discrepancy action chit.

2. Does the TDNS provide an estimate of the number of devices required?

o YES Go to next question

o NO Prepare discrepancy action chit.

3. Does the TDNS provide a target audience description?

o YES Go to next question

o NO Prepare discrepancy action chit.

4. Are the personnel skills needed completely described?

o YES Go to next question

o NO Prepare discrepancy action chit.

5. Is the impact on combined arms operations due to the lack of required skills addressed?

o YES Go to next question

o NO Prepare discrepancy action chit.

6. Does the TDR state how often the device should be used to maintain proficiency?

o YES Go to next question

o NO Prepare discrepancy action chit.

7. Are essential characteristics expressed in bands of performance?

o YES Go to next question

o NO Prepare discrepancy action chit.

8. Have RAM performance characteristics been stated as single values in terms of operational requirement?

o YES Go to next question

o NO Prepare discrepancy action chit.

9. Are manpower requirements adequately addressed?

o YES Go to next question

o NO Prepare discrepancy action chit.

10. Have alternatives to reduce manpower requirements by component been included in the TDR?

o YES Go to next question

o NO Prepare discrepancy action chit.

11. Have measures of system effectiveness based upon soldier performance been included in the TDR?

o YES Go to next question

o NO Prepare discrepancy action chit.

12. Was the BOIP/QQPRI forwarded with the TDR when submitted for approval?

o YES Go to next question

o NO Prepare discrepancy action chit.

13. Does the TDR identify the type of units that will use and support the equipment?

o YES Go to next question

o NO Prepare discrepancy action chit.

E14.3A3 - Review New Equipment Personnel Requirements Summary (NEPRS)

The New Equipment Personnel Requirements Summary (NEPRS) provides a single source of information on the personnel, training, and organization implications of all new or modified materiel under development. It is published annually and updated as required by AR 611-1. This review will assess the contents of the NEPRS to aid in reviewing the BOIP/QQPRI effort.

The following references may be useful: AR 71-2, New Equipment Personnel Requirements Summary.

1. Was the NEPRS used, to obtain the pertinent data available when developing the BOIP/QQPRI?

o YES Go to next question

o NO Prepare discrepancy action chit.

NOTE: This process was included to ensure the research included all sources of data available when preparing the BOIP/QQPRI.

E14.3A4 - Review LSA Data from MIL-STD-1388-1A Tasks

The purpose of this review is to gain the information resulting from early LSA tasks performed i.e., Task 203 - Comparative Analysis of a Baseline Comparison System, Task 301 - Functional Requirements Identification, and Task 302 - Support System Alternatives.

The following reference may be useful: MIL-STD-1388-1A.

1. Were the results from early LSA Analysis, MIL-STD-1388-1A Task 203, "Comparative Analysis", available as source data to the BOIP/QQPRI effort?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

2. Were the results of MANPRINT, i.e., Hardman Analysis, available as source data?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

3. Were the results from MIL-STD-1388-1A, Task 301 (Functional Requirements) available as source data?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

4. Were results from MIL-STD-1388-1A, Task 302 (Support System Alternatives) available as source data?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

5. Were results from MIL-STD-1388-1A, Task 303.2.5, available as source data?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

6. Were results from MIL-STD-1388-1A, Task 401 (Task Analysis) available as source data?

o YES Go to next question

o NO Prepare discrepancy action chit.

E14.3A5 - Review (Tentative) Qualitative and Quantitative Personnel Requirement Information (TQQPRI/QQPRI)

This review will ensure that the QQPRI was prepared and provided concurrently (AR 71-2) with the initial DA Form 3362b-R to TRADOC for use during preparation of the BOIP. It should be noted that updates of the QQPRI are required as revised personnel implications dictate and will be supplied to the combat developer concurrently with DA Form 3362b-R.

The following references may be useful: ARs 71-2 and 611-1.

1. Was the TQQPRI based on the approved requirements documentation?

o YES Go to next question

o NO Prepare discrepancy action chit.

2. Does the TQQPRI contain specified organization doctrinal, training and personnel information at a level of detail sufficient to determine the need for the establishment of or revision to Military Occupational Specialties (MOSs) or Additional Skills Identifiers (ASIs)?

o YES Go to next question

o NO Prepare discrepancy action chit.

3. Are detail data available that is necessary to prepare plans to provide the numbers of trained personnel required for operating and supporting the new equipment/system?

o YES Go to next question

o NO Prepare discrepancy action chit.

4. Where feasible, does the QQPRI describe personnel duties and tasks to include work units, performance standards, and/or manpower authorization factors, recommended MOSs, skill levels, selection and training, including major items for training support?

o YES Go to next question

o NO Prepare discrepancy action chit.

5. Are the estimated annual maintenance manhours realistic considering available LSA data and historical information?

o YES Go to next question

o NO Prepare discrepancy action chit.

6. Has the QQPRI been approved by HQDA (ODCSPER), or HQ TRADOC for condensed QQPRI) and distributed in accordance with AR 71-2?

o YES Go to next question

o NO Prepare discrepancy action chit.

E14.3A6 - Review DA Form 3362R, 3362a-R and 3362b-R

CTA BOIP will be prepared on DA Forms 3362-R and 3362a-R. DA Form 3362b-R (BOIP Feeder Data) will accompany all BOIP. Detailed instructions for preparing these forms are contained in Chapter 3 of AR 71-2. The TOE/TDA/JTA/AOP BOIP will be prepared by automated procedures in the format prescribed in Figures 3-1 and 3 of AR 71-2.

The following references may be useful: ARs 71-2 and 611-1.

1. Have the Basis of Issue Plan cover sheets continuation sheets and feeder data been completed in detail sufficient for data processing?

o YES Go to next question

o NO Prepare discrepancy action chit.

NOTE: To accomplish this task, please refer to AR 71-2, Chapter 3, which provides detail instructions for the data content and procedures for completing the aforementioned DA form.

2. Have BOIPs for the system and applicable system-peculiar support and test equipment, and training devices been approved by HQDA (ODCSOPS) and distributed in accordance with AR 71-2?

o YES Go to next question

o NO Prepare discrepancy action chit.

E14.3A7 - Develop BOIP/QQPRI Assessment Report

This process will consolidate the findings of the other processes on this data flow diagram and develop an overall assessment report of the adequacy of the BOIP/QQPRI planning.

E14.4A - DEVELOP TEST PLANNING ASSESSMENT REPORT

In order to accomplish the processes reflected on DFD E14.4A, the following questions have been prepared to assist in the review and assessment of each individual process.

E14.4A1 - Review DT&OT Test Plan

The purpose of this process is to review the DT/OT Test Plan to insure all ILS elements have been considered and all supportability and supportability issues have been identified and addressed in the plans. Ensure those critical issues associated with the development of the system that are of primary importance to the decision authority in deciding whether to allow the system to continue into the next phase of acquisition are addressed in the test plan.

The following reference may be useful: AR 700-127.

1. Did all test planning activities consider environmental issues and impact?

o YES Go to next question

o NO Prepare discrepancy action chit.

2. Does the test and evaluation Master Plan address preparation and publication of test and evaluation reports consistent with the Milestone Decision Review requirements?

o YES Go to next question

o NO Prepare discrepancy action chit.

3. Were all necessary critical supportability issues associated with the development of the item/system included in the test planning?

o YES Go to next question

o NO Prepare discrepancy action chit.

NOTE: Critical issues for testing are those that can be resolved by testing. Critical issues for testing will be identified initially by the Special Task Force (STF), Special Study Group (STG) or Study Advisory Group (SAG).

4. Does the test planning provide requirements for sufficient supportability test data collection and analysis to verify critical issues?

o YES Go to next question

o NO Prepare discrepancy action chit.

5. Does the DT/OT test planning include testing all components, ground support and training equipment that are to be type classified?

o YES Go to next question

o NO Prepare discrepancy action chit.

6. Does the test plan specify that OT will be done by organizational (TOE) units or their elements with representative user and support troops assigned to do the testing?

o YES Go to next question

o NO Prepare discrepancy action chit.

7. Does the test plan specify, for OT, the use of controlled field exercises to examine the organizational doctrine, integrated support and tactics associated with the planned operational employment of the system?

o YES Go to next question

o NO Prepare discrepancy action chit.

NOTE: Testing will not begin until a safety statement has been received, reviewed, and accepted by the test agency and specific requirements of AR 385-16 and AR 385-40 are complied with.

8. Does the test plan identify test personnel and organizations, materiel, facilities, troop support, logistic support and funds for implementing the test program?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

9. Are test issues structured to address the achievement of an adequate support posture?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

E14.4A2 - Review System Support Package

The purpose of this process is to review the system support package to ensure that all required draft equipment publications (Operator through general support maintenance equipment manuals and "Equipment serviceability criteria" manuals), repair parts, accessories, common and special tools, test equipment, calibration, and maintenance/calibration shop facilities, and personnel skill requirements are included and are available to the testers.

The following reference may be useful: AR 700-127, SEC IV, Paragraph 3-32.

1. Does the system support package include all those items defined in this process description above?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

2. Will a system support package necessary to address supportability test issues be available for technical testing?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

3. Will a system support package sufficient to address supportability test issues be available for operational testing?

o YES Go to next question

o NO Prepare discrepancy action chit.

E14.4A3 - Review Test and Evaluation Master Plan (TEMP)

The purpose of this process is to review the TEMP to ensure the plan includes tasks that will verify that the system as produced conforms to the pre-established performance, safety, supportability, reliability, and quality requirements of the technical data package and contract performance specifications. The tests also will demonstrate that the materiels used, manufacturing processes employed, workmanship standards utilized, and the methods employed for the control of quality are capable of producing a system which meets all of the requirements stipulated in the production contract. Ensure tests include verification of materiels, processes, dimensions, finish, marking, packaging performance and environmental testing. The first article testing should prove whether contractor personnel have correctly interpreted and completely complied with the technical requirements of the contract and validate the technical data package. The TEMP coordinates and integrates the scheduling of all tests for the system/equipment.

The following references may be useful: ARs 702-9, 70-10, and 702-3, and DA PAM 70-21.

1. Does the plan contain all TT/OT logistics demonstration requirements and all other testing required?

o YES Go to next question

o NO Prepare discrepancy action chit.

2. Does the plan identify the critical supportability issues to be examined through testing and the planned testing to resolve these issues?

o YES Go to next question

o NO Prepare discrepancy action chit.

3. Does the plan provide scheduling of all tests for the item/system to support milestone decision reviews and fielding decisions?

o YES Go to next question

o NO Prepare discrepancy action chit.

4. Was the TEMP coordinated with key ILS program participants, as well as other involved agencies/activities?

o YES Go to next question

o NO Prepare discrepancy action chit.

5. Does the TEMP include provisions for detail test plans and independent evaluation, i.e., test design plans, detailed test plan, independent evaluation plans etc.?

o YES Go to next question

o NO Prepare discrepancy action chit.

6. Does the TEMP make maximum efficient use of test resources and ensure complete testing of the item or system, to include the system support package, without duplicating any test effort?

o YES Go to next question

o NO Prepare discrepancy action chit.

NOTE: "The TEMP is fundamentally a management document used for identifying required testing, test personnel and organization. Materiel, facilities, troop support, logistic support, and funds for implementing test programs". Chapter 3, AR 70-10

E14.4A4 - Outline Test Plan/Independent Evaluation Plan

The purpose of this process is to review the engineering test plan to ensure OTP & IEP is included in the TEMP, and is fully integrated into the development test cycle for the appropriate phase of acquisition. The OTP & IEP should include tasks that will:

1. Determine if critical system technical characteristics are achievable

2. Eliminate as many technical and design risks as possible or to determine the extent to which they are manageable
3. Provide data for refining and making the hardware more rugged so that it will meet technical system characteristics requirements
4. Provide information in support of development efforts
5. Insure that components, subsystems and systems are adequately developed before beginning operational testing.

The following reference may be useful: AR 70-10.

1. Does the OTP or IEP identify and define those tasks that must be conducted to determine achievability of technical characteristics, to provide data for refining and ruggedizing hardware configuration, to eliminate design risks or to determine their manageability and to provide for evolution of the design and verification of design changes?

o YES Go to next question

o NO Prepare discrepancy action chit.

2. Is the engineering design testing included in the TEMP.

o YES Go to next question

o NO Prepare discrepancy action chit.

3. Are test issues structured to address achievement of supportability design characteristics and SRO?

o YES Go to next question

o NO Prepare discrepancy action chit.

4. Do the test issues address transportability and mobility characteristics, and constraints?

o YES Go to next question

o NO Prepare discrepancy action chit.

5. Do the test issues address MANPRINT design adequacy to include human factors engineering, health hazards, safety design and proposed personnel skill requirements?

o YES Go to next question

o NO Prepare discrepancy action chit.

6. Are the test issues structured to identify design deficiencies that affect economic system support?

o YES Go to next question

o NO Prepare discrepancy action chit.

E14.4A5 - Review Logistic Demonstration Plan (LD)

The purpose of this process is to review the logistic demonstration plan to ensure the plan provides for verification that the maintainability goals can be attained and the adequacy of the SSP. As a minimum the LD should:

1. Provide data to evaluate the design of materiel with respect to qualitative maintainability aspects, for example, accessibility, base of maintenance, modularization, incorporation of test points, human factors, safety, and the elimination of unnecessary preventative maintenance checks and tasks.

2. Perform all tasks at the operate/crew and unit levels of maintenance and a series of selected tasks at the DS/GS levels.

3. Investigate personnel skill level requirements, adequacy of training programs and training materiels, and the adequacy of task descriptions and illustrations in draft manuals for the equipment.

4. Investigate the selection and allocation of repair parts, adequacy and suitability of tools, TMDE and support equipment, allocation of tasks to appropriate maintenance levels based on personnel skills and maintenance capability, and the adequacy of maintenance time standards included in the maintenance allocation charts.

5. Investigate fault diagnosis procedures and testability using built-in test equipment, automatic test equipment and software programs, and external TMDE.

The following references may be useful: ARs 700-127, 750-1, AMC-R 700-15, DA-PAM 700-50.

1. Does the logistic demonstration plan require a complete non-destructive disassembly (teardown) and reassembly of the system?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

2. Does the LD plan specify that the system, its peculiar TMDE, TPSs, and system support package will be evaluated as a total system support concept?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

3. Are the LD requirements included in the TEMP?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

4. Does the LD plan specify what logistic documentation will be updated as a result of the demonstration?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

5. Are tasks adequately defined to evaluate the supportability of the material design?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

6. Does the plan require the LD results to be recorded and maintained as part of the ILS life-cycle audit trail?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

7. Does the LD plan identify and define specific tasks that are required to be accomplished to evaluate the adequacy of maintenance planning for the system?

o YES Go to next question

o NO Prepare discrepancy action chit.

8. Are tasks identified and defined adequately to ensure all elements of the system support package are utilized and evaluated including peculiar TMDE, TPSs and other support equipments?

o YES Go to next question

o NO Prepare discrepancy action chit.

9. Is the LD scheduled early enough to ensure all deficiencies in the SSP can be corrected prior to the delivery of the final SSP to the TT test sites?

o YES Go to next question

o NO Prepare discrepancy action chit.

NOTE: For a detail description of support system package (SSP) testing please refer to AR 700-127 section III paragraph 3-32.

10. Does the LD plan identify participation by ILS functional representatives, including those responsible for technical publications, training, maintainability, manprint, depot maintenance and others necessary to determine the logistic suitability of the system including the soldier - machine interface TMDE, tech manuals, support equipment and other elements of the system support package?

o YES Go to next question

o NO Prepare discrepancy action chit.

NOTE: Where acquisition program constraints prevent availability of an LD prototype 6 months prior to TT, the LD may be accomplished in increments. In this procedure, LDs are conducted on system components and major subassemblies with a final system level LD to verify the component interface. Other tailored LD procedures may be required. In any event, the LD plan will provide for a complete and adequate LD. AR 700-127.

11. When feasible, has a dedicated prototype been programmed for conduct of the LD?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

E14.4A7 - Develop Test Planning Assessment Report

The purpose of this process is to consolidate the findings of the other processes on this data flow diagram and develop overall assessment report of the adequacy of the test planning. This is to ensure all ILS issues are covered in the tasks requirements and that the tests are such that they will verify that the system can be operated and maintained in its intended environment using the currently developed support system and manpower developed under the MANPRINT process.

E14.5A - DEVELOP SOLICITATION DOCUMENTS ASSESSMENT REPORT

In order to accomplish the processes reflected on DFD E14.5A, the following question have been prepared to assist in the review and assessment of each individual process.

E14.5A1 - Review System Design Specification

1. Do the specifications include detail requirements for system performance (e.g., RAM), that is, what is expected of the system, item or materiel?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

2. Does the specification include detail physical requirements such as weight limits, dimensions etc.?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

3. Does the specification include considerations, such as transportability and storage requirements, durability factors health hazard and safety criteria?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

4. Are reliability goals stated numerically, in logistics-related terms of mission success, or hardware mean time between maintenance actions (MTBA) failures?

o YES Go to next question

o NO Prepare discrepancy action chit.

5. Are maintainability requirements stated in terms of meantime to repair (MTTR) or maintenance manhours per unit of time, i.e., flight hours, sounds, miles, cycles, etc.?

o YES Go to next question

o NO Prepare discrepancy action chit.

6. Are environmental conditions that the system or equipment is expected to experience in shipment, storage, and service, specified?

o YES Go to next question

o NO Prepare discrepancy action chit.

7. Are safety hazards and human engineering requirements specified?

o YES Go to next question

o NO Prepare discrepancy action chit.

8. Are logistic considerations included in the specification, i.e., maintenance considerations such quantitative requirements for accessibility, modular construction, test points, transportability, etc.?

o YES Go to next question

o NO Prepare discrepancy action chit.

E14.5A2 - Review Required Operational Capabilities

The purpose of this process is to review the ROC to ensure its capability is consistent with the O&O Plan, SRO, Army doctrine, organization, force structure, current technology, and safety considerations. Additionally, ensure that the ROC has been prepared, coordinated, and approved in accordance with AR 71-9, to include appropriate logistic provisions and RAM rationale annex.

The following reference may be useful: AR 71-9.

1. Does the ROC describe mission and operational features, such as transportability, RAM, NBC, ICPE, and standardization?

o YES Go to next question

o NO Prepare discrepancy action chit.

2. Have the system concept and operational scenarios been described in sufficient detail to be included in the solicitation documents?

o YES Go to next question

o NO Prepare discrepancy action chit.

3. Does the ROC specify how the new system will be integrated into the force structure (e.g., equipment employment and using/supporting units)?

o YES Go to next question

o NO Prepare discrepancy action chit.

4. Does the ROC address technical requirements that are required for system support?

o YES Go to next question

o NO Prepare discrepancy action chit.

5. In order to develop the solicitation documents, does the ROC establish the criteria for developing and acquiring the system support?

o YES Go to next question

o NO Prepare discrepancy action chit.

6. Does the ROC address the required operating days, annual number of missions, mission duration etc.? These details should be sufficient to be included in the solicitation documents.

o YES Go to next question

o NO Prepare discrepancy action chit.

7. Does the ROC address personnel constraints in sufficient detail to be used in the solicitation documents?

o YES Go to next question

o NO Prepare discrepancy action chit.

E14.5A3 - Review ILSP Data Task Description

The purpose of this review is to gain insight into the maintenance plan, maintenance engineering analysis and evaluation of the end item or system to be supported, the maintenance allocation chart. Also, to review the released parts drawings, description assembly, general arrangements and diagrams sufficient to indicate the physical characteristics of the parts in the equipment and the location and function of each part. Review the system reliability and maintainability data. Review costs associated with in-house and contractor manufacturing and repair alternatives. Review the supply and consumption data available on the system during tests and post deployment.

The following references may be useful: AR 700-127, and DA PAM 700-55, System ILSP.

1. Have analyses been performed to determine the degree of compatibility of the new system with existing equipment, in detail sufficient to be used in the solicitation documents?

o YES Go to next question

o NO Prepare discrepancy action chit.

2. Has standardization, including commonality for components software, ammunition, power, TMDE, etc., been addressed?

o YES Go to next question

o NO Prepare discrepancy action chit.

3. Have manpower personnel requirements, limitations and risks been addressed?

o YES Go to next question

o NO Prepare discrepancy action chit.

4. Are the manpower requirements per system, per unit, and total Army addressed in sufficient detail to be used as solicitation documents requirements?

o YES Go to next question

o NO Prepare discrepancy action chit.

5. Does the LSA strategy identify those tasks and subtasks from MIL-STD-1388-1A that are to be accomplished by the contractor?

o YES Go to next question

o NO Prepare discrepancy action chit.

6. Does the LSA strategy provide cost projections to accomplish each LSA task?

o YES Go to next question

o NO Prepare discrepancy action chit.

7. Does the ILSP contain sufficient detail of ILS requirements to insure all they are specified in the solicitation documents?

o YES Go to next question

o NO Prepare discrepancy action chit.

E14.5A4 - Review RFP, RFQ and SOW

The purpose of this process is to review RFP, RFQ, and the contract statement of work to ensure all work statements are clearly defined and all ILS issues have been sufficiently addressed.

The following reference may be useful: AR 700-127.

1. Do the solicitation documents require the contractor to develop an ISP?

o YES Go to next question

o NO Prepare discrepancy action chit.

2. Do the solicitation documents describe how the ILS program is to be conducted, integrated and identify the tasks to be performed to meet program requirements?

o YES Go to next question

o NO Prepare discrepancy action chit.

3. Do the solicitation documents specify what logistic investigations are be performed in each acquisition phase?

o YES Go to next question

o NO Prepare discrepancy action chit.

4. Do the solicitation documents describe how the LSAR data base is to be developed and how it will be used?

o YES Go to next question

o NO Prepare discrepancy action chit.

5. Do the solicitation documents describe the supportability test & evaluation scope objectives, and how they are to be met during development?

o YES Go to next question

o NO Prepare discrepancy action chit.

6. Is a DID referenced for each ILS deliverable specified in the solicitation documents?

o YES Go to next question

o NO Prepare discrepancy action chit.

7. Do the solicitation documents include all detailed requirements and performance objectives, including Government furnished information and deliverables required of the contractor, the extent to which the contractor must perform and the data, planning, analysis or information the contractor must provide?

o YES Go to next question

o NO Prepare discrepancy action chit.

8. Do the solicitation documents address critical technical, training, standardization, producibility and interoperability requirements?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

9. Do the solicitation documents address provisions for collecting and analyzing support data during each phase of acquisition?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

E14.5A5 - Develop Solicitation Documents Assessment Report

The purpose of this process is to consolidate the findings of the other processes on this data flow diagram and develop an overall assessment report of the adequacy of the solicitation documents. Also, it must ensure that supportability and other ILS issues have been given appropriate weighting factors when the documents were prepared.

The following reference may be useful: AR 700-127.

E14.6A - DEVELOP ILS EVALUATION ASSESSMENT REPORT

In order to accomplish the processes reflected on DFD E14.6A, the following questions have been prepared to assist in the review and assessment of each individual process.

E14.6A1 - Review Risk Assessment

The purpose of this process is to ensure all risks have been identified concerning the technology base, schedule, design, manpower availability, training requirements, and all supportability and supportability related issues and that acceptable solutions have been developed to reduce the risks to an acceptable level.

The following references may be useful: ARs 70-1, 700-127, 700-55, and MIL-STD-1388-1A.

1. Does the risk analysis address all risks in achieving current objectives (operational performance, reliability, cost, supportability, and schedule)?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

2. Have risks been reduced to acceptable levels and a suitable method of resolution been identified in areas of residual technical risks?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

3. Does either the ILSP, ISP, or LSAP require risk analysis to be performed prior to each decision milestone?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

4. Are the risk analysis, concerning supportability, schedule, personnel, producibility, etc., listed as agenda items for the ILS design and program reviews?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

5. Were decision risk analysis processes used during all trade-off studies, including alternatives support concepts?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

6. Are all uncertainties associated with each program ILS element or event identified in the ILSP?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

E14.6A2 - Review ILSP Data

The purpose of this review is to gain insight of the maintenance plan, maintenance engineering analysis and evaluation of the end item or system to be supported, and the maintenance allocation chart. Also, the released parts drawings, descriptions, assembly, general arrangements and diagrams must be reviewed to indicate the physical characteristics of the parts in the equipment and the location and function of each part. Review the system reliability and maintainability data. Review costs associated with in-house and contractor manufacturing and repair alternatives. Review the supply and consumptions data available on the system during tests and post deployment.

The following references may be useful: ARs 700-127, 700-126, System ILSP.

1. Does the ILSP establish working interfaces and coordination with other organizations and activities responsible for participation in the planning and execution of ILS efforts for the new material?

o YES Go to next question

o NO Prepare discrepancy action chit.

2. Does the ILSP establish and maintain a single ILS focal point for planning, scheduling, controlling and reporting the status of performance of the ILS function for the new materiel?

o YES Go to next question

o NO Prepare discrepancy action chit.

3. Does the ILSP exercise overall management of ILS as an integral part of assigned materiel systems, to include planning and scheduling for initial provisioning, equipment publications, support, test, measurement and diagnostic equipment and personnel and training requirement information?

o YES Go to next question

o NO Prepare discrepancy action chit.

4. Does the ILSP require analysis to provide for a balance between system readiness, capability, supportability and life cycle cost during all stages of development or acquisition?

o YES Go to next question

o NO Prepare discrepancy action chit.

5. Does the ILSP provide sufficient testing requirements for ILS evaluation?

o YES Go to next question

o NO Prepare discrepancy action chit.

6. Is the overall logistic support test objectives, test requirements and physical teardown and evaluation requirements incorporated in the TEMP?

o YES Go to next question

o NO Prepare discrepancy action chit.

7. Does the ILSP required a logistic data system to enable the acquisition, storage retrieval and reporting of all logistic reliability, maintainability and test data generated to support the ILS evaluation process?

o YES Go to next question

o NO Prepare discrepancy action chit.

8. Has the ILSP been coordinated with those Army and other organizations identified in DA PAM 700-55?

o YES Go to next question

o NO Prepare discrepancy action chit.

E14.6A3 - Review Contract Statement of Work (SOW)

The purpose of this process is to review the contract statement of work to ensure all ILS issues have been included, and that requirements for the contractor to develop an integrated support plan tailored to the type acquisition and consistent with the logistic support strategy and MIL-STD-1388-1A tasks requirements are line items of the statements of work.

The following references may be useful: ARs 700-127, 700-55, MIL-STDs-1369A and -1388-1A.

1. Does the contract statement of work include the work effort required to support the ILS requirements set forth in the ILSP, specifications, and contract data requirements list of the contract?

o YES Go to next question

o NO Prepare discrepancy action chit.

2. Does the contract statement of work address ILS/LSA reviews, design reviews, program reviews, and evaluation assessments?

o YES Go to next question

o NO Prepare discrepancy action chit.

3. Does the SOW address each of the MIL-STD-1388-1A tasks required by the LSAP?

o YES Go to next question

o NO Prepare discrepancy action chit.

4. Does the SOW address tests required for ILS verification?

o YES Go to next question

o NO Prepare discrepancy action chit.

5. Does the SOW specifically address the LSAR documentation requirements?

o YES Go to next question

o NO Prepare discrepancy action chit.

E14.6A4 - Assess ILS Evaluation Process

The purpose of this process is to consolidate the findings and results of the other processes on this data flow diagram and develop an overall assessment report as to the adequacy of the ILS evaluation procedures. Also, the provisions made for evaluations must ensure the ILS program will support the equipment when fielded.

1. Does the ILSP address ILSMT and LSA Review Team representatives of all ILS functional elements, to evaluate the development, effectiveness, scheduling, availability, and life cycle costing of the system support?

o YES Go to next question

o NO Prepare discrepancy action chit.

2. Are specific test and data collection, evaluation requirements and procedures established to ensure logistic parameters have been met?

o YES Go to next question

o NO Prepare discrepancy action chit.

3. Does the evaluation plan specifically require a logistic evaluation of the hardware and system support package? Will the quantities needed at each test site will be available to meet the test schedule?

o YES Go to next question

o NO Prepare discrepancy action chit.

NOTE: The SSP should contain the following components:

1. Draft equipment publications
2. Personnel requirements (quantity by MOS)
3. Training requirements (by MOS)
4. Accessories (Basic issue items etc.)
5. Support equipment, common and special, including TMDE) and TPS
6. Tools common & special
7. Repair parts
8. Maintenance & operating supplies (POL etc.)
9. Maintenance & calibration facilities.

4. Does the Log Demo Plan evaluation specify what factors will be evaluated and validated during the physical teardown & maintenance evaluation process and what functional elements are responsible for evaluating the logistic suitability?

o YES Go to next question

o NO Prepare discrepancy action chit.

NOTE: For detail information on the physical teardown & maintenance evaluation including the objective and logistic involvement, please refer to AMC-R 700-15.

5. Does the ILS evaluation plan address the requirements for logistic and command reviews to assess and evaluate the progress toward achievement of logistic support goals and examine the completeness of the logistic support acquisition?

- o YES Go to next question
- o NO Prepare discrepancy action chit.

NOTE: These reviews are specified and detailed in DARCOM suppl 1 to AR 700-127 page 20 paragraph 1-16 (Logistic and Command Assessments of Projects (LOGCAP).

E14.6A5 - Develop ILS Evaluation Assessment Report

The purpose of this process is to consolidate the findings and results of the other processes on this data flow diagram and develop an overall assessment report as to the adequacy of the ILS evaluation procedures and to ensure the provisions made for evaluations will ensure the ILS program will support the equipment when fielded.

The following reference may be useful: AR 700-127.

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