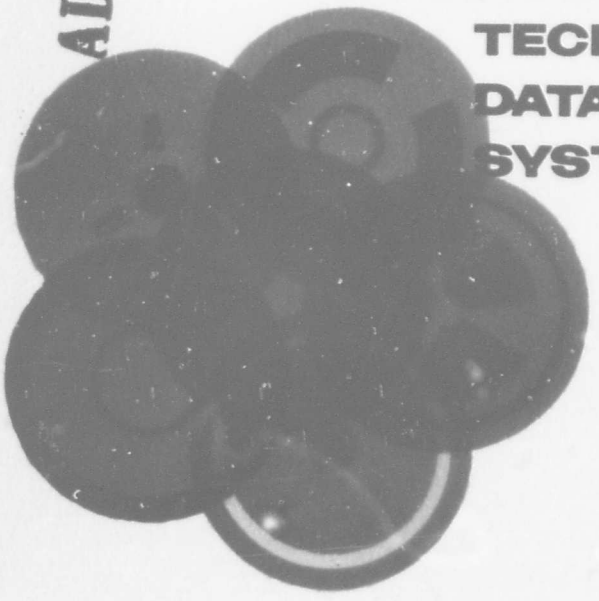
06349-W516-R0-00

11

(1)

INTEGRATED TECHNICAL DATA SYSTEM



COMPUTER SUBSYSTEM:

APPLICATIONS PROGRAMS, GENERAL DESCRIPTIONS

JUNE 1969

PREPARED FOR
U.S. ARMY MATERIEL COMMAND
CONTRACT NO. DA-49-186-AMC-324 (X)

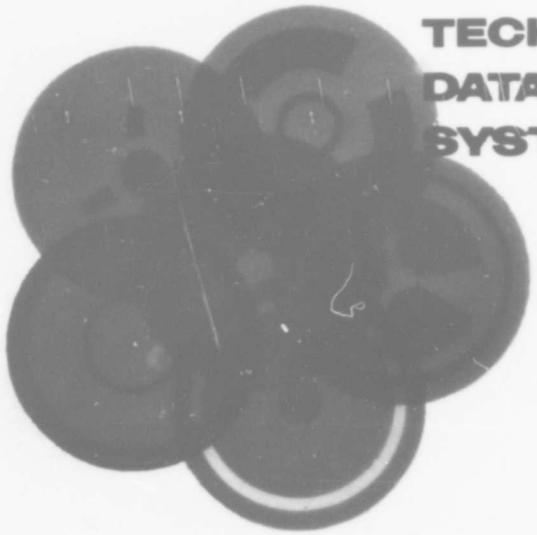
TRW SYSTEMS GROUP
WASHINGTON OPERATIONS
1735 I STREET, N.W. • WASHINGTON, D.C. 20006

123

SETTV

06349-W516-R0-00

INTEGRATED TECHNICAL DATA SYSTEM



COMPUTER SUBSYSTEM:

APPLICATIONS PROGRAMS, GENERAL DESCRIPTIONS

JUNE 1969

PREPARED FOR
U.S. ARMY MATERIEL COMMAND
CONTRACT NO. DA-49-186-AMC-324 (X)

TRW SYSTEMS GROUP
WASHINGTON OPERATIONS
1735 I STREET N.W. • WASHINGTON D.C. 20006

FOREWORD

TRW Systems was awarded a contract [Contract Number DA-49-186-AMC-324(X)] by the U.S. Army Material Command to develop an Integrated Technical Data System (ITDS). The ITDS is intended to provide assistance to the Army Systems Manager in performing his management and technical tasks by operating on relevant data to produce, summarize, and condense information. This allows the manager and technical personnel to (a) determine status and monitor technical progress, (b) identify and predict system technical/management problems and their impact, (c) comprehend and evaluate proposed system changes, and (d) assign and maintain awareness of responsibility for action.

The ITDS is composed of personnel, procedures, equipment and computer programs. The organization of these elements provides a capability for the processing of systems program data, including the following functions:

- Data receipt and indexing
- Validation and verification for authenticity
- Manipulation
- Retrieval
- Display and dissemination

The organization is divided into three major subsystems: the Functional Disciplines Subsystem, the Data Operations Subsystem, and the Computer Subsystem. ITDS user documentation, of which this manual is a part, is oriented to the above subsystems, with the exception of an overall System User's Guide and a Configuration Management Plan.

Following is a tabulation of ITDS user documentation (title of this volume is heavily underscored).

ITDS - Overall:

- System User's Guide
- Configuration Management Plan

Functional Disciplines Subsystem:

- Administrative Manual
- Operations Manual
- Personnel Position Descriptions

Data Operations Subsystem:

- Administrative Manual
- Operations Manual
- Equipment Description
- Personnel Position Descriptions

Computer Subsystem:

These 12 manuals, in general, cover administration of the subsystem, operation and maintenance instructions for the programs, computing equipment descriptions, and personnel position descriptions.

- Administrative manual
- Generalized Processing Program, General Description
- Applications Programs, General Description
- Peripheral Programs, General Description
- Computer Programs Maintenance Manual
- Computer Programs Operations Manual
- Data Processing Center Operator's Manual
- Equipment Descriptions
- Personnel Position Descriptions
- Generalized Processing Program, Programming Documentation
- Applications Programs, Programming Documentation
- Peripheral Programs, Programming Documentation

This manual provides general descriptions of the ITDS applications programs. These programs provide the fundamental capabilities of producing recurring and non-recurring reports from the ITDS data base and

the extraction and loading of data produced by peripheral programs. This manual is written to provide the users of the products of the ITDS applications programs with their capabilities, and in the case of report-generating programs, a description of the output reports. You will be referred to other manuals in the ITDS documentation structure for specific details about some of the subjects covered herein.

CONTENTS

ILLUSTRATIONS

ILLUSTRATIONS
(continued)

ILLUSTRATIONS
(continued)

BLANK PAGE

COMPUTER SUBSYSTEM:
APPLICATIONS PROGRAMS, GENERAL DESCRIPTIONS

1. INTRODUCTION

1.1 PURPOSE

This manual provides a concise guide to the uses and capabilities of the ITDS applications programs. For practicing engineers and managers who use ITDS as a management tool, it is a quick source of general information about the applications programs.

1.2 SCOPE

All of the applications-oriented programs in the ITDS are covered herein. General description material pertaining to each program includes identification of the files in the ITDS data base with which it interfaces via products (i.e., reports or updated files) of the program and discussion of the uses for the program.

1.3 RELATIONSHIP OF APPLICATIONS PROGRAMS TO THE ITDS

The applications programs, as shown in the overall context of ITDS operation in Figure 1-1, have three basic functions. These functions are (1) production of bulk reports (either periodic or nonrecurring), (2) extraction and loading of data into the ITDS that has been produced by the peripheral programs (extract/load) and (3) production of exception reports.

Applications programs are almost completely ITDS user oriented. The only exceptions to this are seven programs that are administratively assigned to the ITDS Data Operations Subsystem. All other applications programs are categorized in accordance with the ITDS functional discipline (users) which they serve.

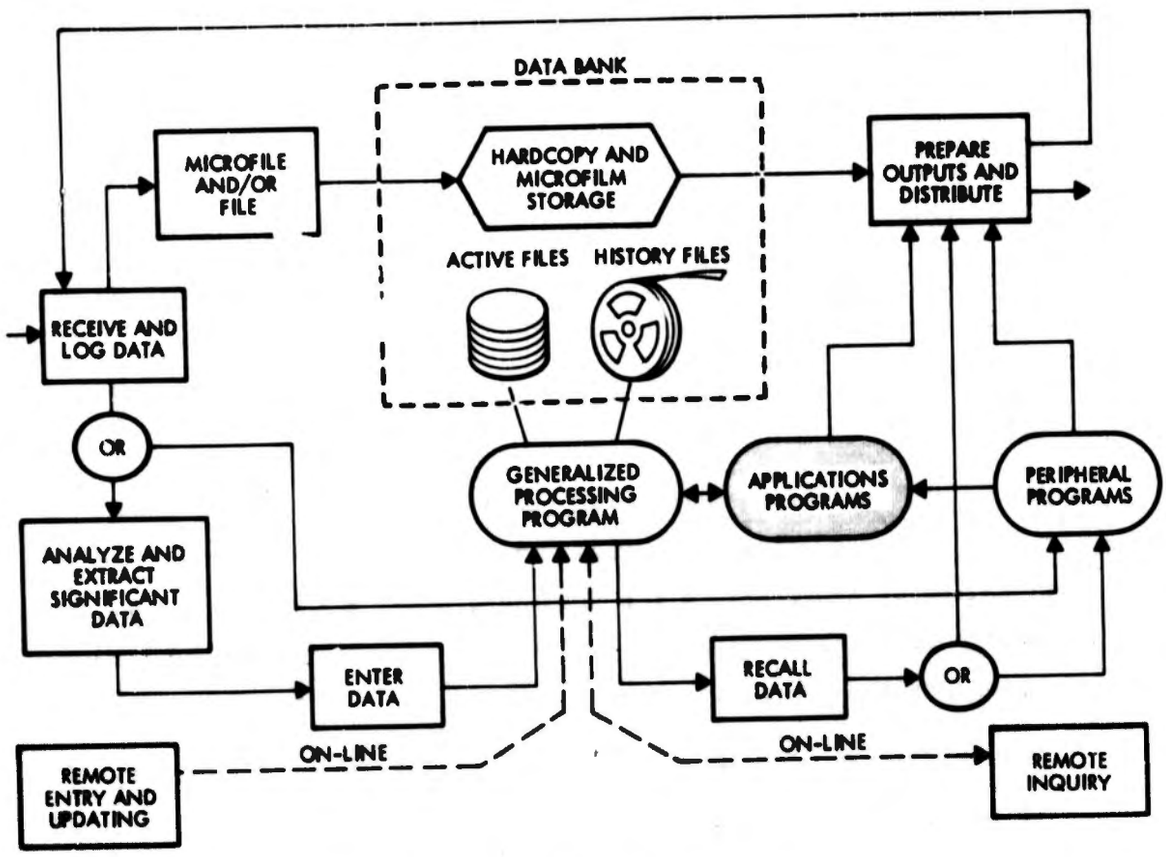


Figure 1-1. Relationship of Applications Programs to ITDS Operation

The allocation of applications programs within the ITDS is as follows:

ITDS Data Operations Subsystem	Sub-Element	Applications Programs
Internal Control Routines		• Generalized Input • Action Item System Extract/Load • Daily Document List • Data Element Manual • Keywork - DAI Cross Reference List • Master Microform List • Keyword Thesaurus

ITDS Functional Disciplines Subsystem	Sub-Element	Applications Programs
Management	Project Control	• PERT Time Extract/Load • PERT Cost Extract/Load • SCIOLIST Extract/Load • MAST Extract/Load • Master Detail Milestones • Time Status Report • Cost Status Report • Funding Status Report
	Data Management	• Government Data Requirements List • Contractor Data Requirements List
	Configuration Management	• CEI Configuration Index • ECP Index • Description and Specification Index/Status • Interface Control Working Group Action Status • ECP/Waiver Processing Audit • Technical Publications Index/Status • Interface Control Drawing Index/Status • Master Drawing List By Work Breakdown Structure
System Engineering		None
Engineering Design		None

ITDS Functional Disciplines Subsystem	Sub-Element	Applications Programs
Quality Assurance		• MEADS (Maintenance Engineering Analysis Data System) Extract/Load and OA Calculations • Maintainability Problems - High 25 • Reliability Problems - High/Low 25
Operational Engineering		None
Production Engineering		None
Test		• Test Program Status - Detail Test Plans • Requirements for Contractor Test - Status Report • Specifications/ Descriptions - Test Status Report • Development Test Status
Logistics		• Maintenance Manhours per usage Unit - MOS • GFM/Support Equipment - Model Function and Status
Production and Procurement		None

Included in the above, and specifically identified as such in this manual, are six extract/load programs. These programs receive the outputs of six peripheral processing programs, extract the necessary data, and produce an input in the form required for loading into the ITDS general processor. The other programs are report generators.

2. DESCRIPTION OF ITDS APPLICATIONS PROGRAMS

2.1 MANAGEMENT APPLICATIONS PROGRAMS

Functional composition of this discipline is (a) planning and control, (b) data management and control, (c) procurement and contracts data control, and (d) configuration management. Except for the internal (to ITDS) control routines discussed in paragraph 2.1.1, the Management Applications Programs are correlated with this composition.

2.1.1 Internal Control Routines

2.1.1.1 Generalized Input

The translation or transfer of data from selected existing non-integrated files into specific ITDS data lists is accomplished using special extract routines in conjunction with a general file conversion program. Data to be extracted is specified by the user. The extract routines take the existing files (tapes), perform necessary sorting, deleting, etc., and produce fixed field tapes acceptable to the generalized conversion program. The latter then processes each tape and produces a bulk-add tape which enters the data into the ITDS. In addition to the file conversion usage described above, the program serves as an available tool for conversion of the data base of peripheral programs into the ITDS dynamic data base.

2.1.1.2 Action Item System Extract/Load

This process is a specific recurring application of the process described in paragraph 2.1.1.1, above. An extract routine (program) takes specified data from the PMO Action Item files and creates two fixed-field tapes compatible with the generalized conversion program. The specified data are the values of the ITDS AID-FILE and the EVENT-FILE attributes listed and defined below. Next, the generalized conversion program produces a bulk-add tape from each of the fixed-field tapes which enters the data into the ITDS. This process occurs routinely each time the PMO Action Item files are updated.

The ITDS AID-FILE consists of the following non-computer generated attributes:

- AID (Action Item Designator) - A unique identifier consisting of a coded alphanumeric grouping which identified both the function and hardware involved.
- ACT-OFF (Action Officer) - Name of the person assigned responsibility for the action.
- TITLE - A condensed description of the task or work assignment established by the action item.
- Suspense-DT (Suspense Date) - Date the action was completed. If no date is given, the action item has not been completed.

The EVENT-FILE consists of the following attributes:

- EVENT-FILE - A unique number equal to the numerical part of the AID value "RAM nnnnn", which is also a milestone number.
- MS-SI-STATEMENT (Action Item Statement) - The last (current) status statement from the Action Item file identified by the EVENT-FILE number.

The two files provide direct access, by ITDS personnel, to current data of the type described in the above definitions, but only in response to queries. Additional information may be obtained by reading PMO Action Item System hardcopy files or submitting a request for information from the peripheral program data base (see Computer Subsystem: Peripheral Programs, General Description, paragraph 2.1.1.1).

2.1.1.3 Daily Document List

The Daily Document List is a computer generated accession list of all documents received by the ITDS in a given day. It is maintained, distributed, and utilized by personnel of the Data Operations Subsystem as the initial, transient record of document receipt. It is produced as a recurring report after the close of each business day and it serves as a notification to interested personnel of the Functional Disciplines Subsystem of the data received during the previous day.

This report provides a sequential listing by assigned Data Acquisition - ITDS (DAI) numbers. To further assist in documentation identification, this report provides a short synopsis of the document title and indicates its source and date of origin, its security classification, its

addressee, its Action Item Designator (AID) number (if any) and its originator's file reference number.

An applications program is utilized to provide the output. This is accomplished by using a generalized extract program in conjunction with a special sorting/formatting routine and a print program.

Figure 2-1 is an illustration of this report generated in support of the Cheyenne (AH-56A) Project, while ITDS itself was under development.

2.1.1.4 Data Element Manual

The Data Element Manual is a computer-generated dictionary of all data elements authorized for use in the ITDS. While it is primarily oriented to the user personnel of the Functional Discipline Subsystem, it provides the official record, language, mnemonics, and English meanings of all attributes, items, and data lists incorporated into the ITDS and, as such, provides an invaluable reference document for all ITDS personnel.

In order to simplify its utilization, this manual consists of three major parts or sections, each of which is explained below.

1) The first section is an alphabetical cross reference listing or index of all data list, item and attribute Identifier Descriptors (ID's) authorized for use by the ITDS. Also included are the official mnemonics and data list codes.

2) The second section contains the same information as the first section but is sorted alphabetically by the mnemonic designations.

3) The third section is an alphabetical record of all authorized data lists in the sequence of the approved data list codes. This section provides the master record of the items and attributes within each data list and indicates the essential features of each.

The Data Element Manual is maintained and distributed by the personnel of the Data Operations Subsystem and is produced as a periodic report. In order to preserve system integrity, all changes, additions, and deletions are proposed through the established ITDS configuration management channels and, after approval, are implemented by the Data Operations Subsystem.

Figure 2-2 is an illustration of this report generated in support of the Cheyenne (AH-56A) Project while ITDS itself was under development.

DAILY AH-56A DOCUMENT LIST
28 MAR 69

PROJ	DAI	SUB DAI	NOMENCLATURE	DOC DATE	CL	DOCUMENT SOURCE	ACTION ITEM NUMBER	DOCUMENT IDENTIFIER	ADDRESSEE
1	29221		COOR TST PLAN,SE ASIA NI	690201	C	AMCPM-SNO		CTPSN	VARIOUS
1	29222		T53 GAS TURBINE ENG/ARMS	681201	C	AMXBR		MEMO RPT 1952	VARIOUS
1	29251		AUTH USE OF GFP	690314	U	AMSAV-P	CALA011		GEFPD
2	29252		MEADS RVW/RECORDS,ACFT	690313	U	AMSAV		1ST IND	AFS-AFO
2	29253		DHARS PROV DOCU	690319	U	AMSEL	AEFCC01	1ST IND	AMSEL
1	29254		GFM DATA AVION/RADIO SET	690317	U	USAALPA			CALAC
2	29255		APP C DATA ITEM RQMT BB	690318	U	AMSEL	DCBD001	1ST IND	AMSAV-P
2	29256		GFM DATA VALIDATION	690314	U	AMSWE			AFS-LFO
2	29257		PART IN PARTS AIR SHOW	690314	U	AMSAV			VARIOUS
1	29258		A TST PROG CONF	690321	U	AMCPM-AFS			VARIOUS
1	29259		REV DEV DESC FIRE CON	690321	U	AMCPM-AFS	AFAA001		AFS-AFO
1	29260		RELIAB/MAINT R&M ASSESS	690321	U	AMCPM-AFS	DAAA001		VARIOUS
2	29261		GROUND SPT EQUIP	690314	U	CALAC	AFFK001	SP/802563	AMSAV-P
2	29262		PIC ADD ECOM GSE RQMT	690317	U	AMSAV-P	GHAA001	1749-606	AFS-EFO
1	29263		REQ DSPO DISCRP GFM MAT	690314	U	AMSAV-P		3667-1792	CALAC
1	29264		PRUD IMPRV PROG	690313	U	AMSAV	BCAA001	CHT 1	VARIOUS
2	29265		AMEND 11 RVW ANAL	690321	U	AMSAV-P	GHAA001	1749-634	CALAC
1	29266		GTV PFAT INSPECTION	690321	U	AMSAV-P	EAAA001	3667-1819	CALAC
1	29267		REV TO APP B	690321	U	CALAC	CLAA004	SP/802485	AMSAV-P
2	29268		REQ APPR WIRE AH56 PROD	690318	U	AFS-EFO	AHBD003	ITDS-E0072	AFS-AFO
2	29269		TERM DIST MEAS EQUIP	690321	U	AMSAV-P		1749-638	USAALPA
1	29270		DESIG CHEY TOW CON EQUIP	690321	U	AFS-AFO		ITDS-A1292	AMCPM-AFS
1	29271		CONTR CLAIM SVCS OBLG	690321	U	AMSAV-P		3667-1818	CALAC
1	29272		GE T-34 ENG SCH	690321	U	AMSAV-P	CAUD001	3667-1821	CALAC
1	29272	A	GE T-34 ENG SCH	690321	U	AMSAV-P	EAAA010	3667-1821	CALAC
2	29273		PRELIM CONTR INST	690321	U	AMSAV-P	FFAA005	1749-630	CALAC
2	29274		LOBING SWITCH DATA	690321	U	AMSAV-P	CIFL001	1749-633	CALAC
1	29275		GUNNERS SEAT TST PROG	690320	U	AMSAV-P	BMDA001	3667-1805	CALAC

Figure 2-1. Sample Daily Document List

CEI-FILE

CE09 Review Type — Code for Type of Review

Size Range: 1-4 — Storage Type: NRS

Justification Type: LA

Associated Attributes: CE10, RT00, RT02

Interrelationship Description:

(1) Attribute CE09 is primary to CE10.

(2) During updating, if a value is to be placed in this field it is first compared with the Review-Type-Table (RT00) to ensure that it exists as a valid review type code. If not, it will be rejected.

(3) On a request for retrieval of CE09, the code(s) residing there will be matched against the codes residing in the Review-Type-Table (RT00) and the associated translation of the code (RT02) will also be supplied as output.

Attribute Description:

A code which identifies the type of review concerning CE00 as prescribed in AMCR11-26 for configuration management. Enter one of the following codes, as applicable:

PDR - Preliminary Design Review

DRR - Design Release Review

DCR - Design Characteristics Review

CDR - Critical Design Review

CAR - Configuration Audit Review

FACR - First Article Configuration Review

IPR - In Process Review

Figure 2-2. Extract from Data Element Manual

2.1.1.5 Keyword-DAI Cross Reference List

This report lists alphabetically all keywords together with DAI numbers of the documents entered in the ITDS. The keywords are used to describe the contents of the documents.

The information used to produce this report comprises values from the keyword file which were indirectly updated from the DAI-file.

An application program is used to provide the output. This is accomplished by using a generalized extract program in conjunction with a special sorting/formatting routine and a print program.

The main use of this report is document identification through the use of keywords. The report provides a cross reference of all pertinent documents in the ITDS.

This listing is produced as a periodic, recurring report, and is maintained by personnel of the Data Operations Subsystem.

Figure 2-3 is an illustration of this report generated in support of the Cheyenne (AH-56A) Project while ITDS itself was under development.

2.1.1.6 Master Microfilm Listing

The Master Microfilm Listing is a computer-generated record of all microfilmed engineering documents stored in the ITDS central files. It is utilized by personnel of the Data Operations Subsystem as a master index, file, and inventory record, and by personnel of the Functional Disciplines Subsystem as an aid in the identification of aperture cards to be retrieved. Because of the large volume of aperture cards involved in any typical research, development, and production program, an automated system of indexing and inventory record is essential. In this system, aperture cards are stored and retrieved by their sequential alphanumeric designations (by document numbers) and by special manufacturer's five-digit code identifications. Although this system has been designed primarily for engineering drawings, engineering orders, specifications, standards, and related change notifications, provisions have been incorporated to include other types of microfiled records as necessary. Depending upon individual circumstances (primarily concerning the availability of original source data), this system provides for:

a) The identification of the government agency in control and possession of the master microfilm card.

DASR KEYWORD-DAICROSS REFERENCE LIST ISSUED 15 JAN 69

MODEL-F	1 19952		1 20904		1 23445		1 25012	A	2 20904					
MODEL-F-104	1 00619		1 07815		1 19595		2 17692		2 18172					
MODEL-GIP-30-106	1 18578													
MODEL-GIP30-106	1 14197		1 14197	A	1 15998		2 15998							
MODEL-GTP-30-106	1 06138	C	1 19968		1 20081									
MODEL-GTP30-106	1 04267	B	1 04267	C	1 04267	D	1 04564		1 08338		1 08338	A		
MODEL-H-46	1 09047		1 09047	A										
MODEL-H150E	1 18473													
MODEL-IBM-4PI	1 20717		1 21500											
MODEL-IBM-4PI-CP2	1 19269		1 21251		2 21251									
MODEL-JFC-42	1 15881		1 16517		1 17105									
MODEL-JTF-2	1 17651		1 18323											
MODEL-KB3A	1 17746													
MODEL-KIT-1A/TSEC	1 08899													
MODEL-KX-160	1 12208		1 12986											
MODEL-K160	1 13139													
MODEL-L-087	1 05952		1 06128		1 06458		1 07017		1 07017	A	1 08136			
MODEL-L-187	1 13039		1 13921		1 14014		1 16850							
MODEL-L-187A	1 08136		1 08519		1 08527		1 08589		1 09025		1 09080		1 09115	
	1 09115	A	1 09352		1 09353		1 09449		1 09999		1 10992		1 11894	
	1 12130		1 12634		1 12891		1 12977		1 13102		1 13566		1 13724	
	1 14529		1 14616		1 14663		1 15419		1 15784		1 16297		1 17647	

Figure 2-3. Sample Keyword-DAI Cross Reference List

b) The rights (if any) of the government to utilize the microfilmed document (limited or unlimited rights).

c) The drawing size designation.

d) Identification of accompanying documentation, superseded documentation and change notices.

e) The security classification of the microfilm image.

f) Document title or nomenclature.

This listing is maintained by personnel of the Data Operations Subsystem and is published as a recurring periodic report.

Figure 2-4 is an illustration of this report generated in support of the Cheyenne (AH-56A) Project while ITDS itself was under development.

2.1.1.7 Keyword Thesaurus

In addition to the indexing of documentation by accession number (DAI) and its identification by source, title, date, addressee, etc., the ITDS utilizes an automated, coordinate indexing system of meaningful keywords for the identification and selective retrieval of hardcopy documentation in storage. With this system, meaningful and representative keywords are selected from the title, summary, foreword, table of contents, or the body of each document, and used to provide the cross reference interrelationships with the accession numbers under which the documents are stored. Rather than scanning the entire index serially by document number or title, this coordinate index system of keywords enables the user to quickly identify all documents in storage relating to a given keyword or group of preconjoined keywords which provide logic groupings into any desired pattern or grouping of functions, activities, subjects, hardware, etc., authorized by the system. By storing these keywords (and their connective relationships with the hardcopy storage files) into the digital data bank, selective retrieval is made possible. The level of selective retrieval in this system is predetermined by the number of keywords utilized and their indenturing or grouping into logical substructures.

The Keyword Thesaurus is a computer generated alphabetical listing of all authorized and acceptable keywords. In addition to the full names of

AS OF DATE 08/05/68

AN56-A MASTER MICROFILM LISTING

DOCUMENT NUMBER	CODE IDENT	RV LT	DOCUMENT NOMENCLATURE	PTS	CAT	DS	POR	SC	WCS NUMBER
1000159	36659	D	HOUSING, MAIN TRANSMISSION-ASSY OF	U	DV	J	T	N	1111210
1000159	36659	E	HOUSING, MAIN TRANSMISSION-ASSY OF	U	DV	J	T	N	1111210
IN1000159	36659	E	NTE	U	DV		H	N	1111210
1000159	36659	F	HOUSING, MAIN TRANSMISSION-ASSY OF	U	DV	J	T	N	1111210
IN1000159	36659	F	NTF	U	DV		H	N	1111210
1000159	36659	G	HOUSING, MAIN TRANSMISSION-ASSY OF	U	DV	J	T	N	1111210
IN1000159	36659	G	NTG	U	DV		H	N	1111210
1000159	36659	H	HOUSING, MAIN TRANSMISSION-ASSY OF	U	DV	J	T	N	1111210
IN1000159	36659	H	NTH	U	DV		H	N	1111210
1000159	36659	J	HOUSING, MAIN TRANSMISSION-ASSY OF	U	DV	J	T	N	1111210
IN1000159	36659	J	NTJ	U	DV		H	N	1111210
1000159	36659	K	HOUSING, MAIN TRANSMISSION-ASSY OF	U	DV	J	T	N	1111210
1000 59	36659	L	HOUSING, MAIN TRANSMISSION-ASSY OF	U	DV	J	T	N	1111210
IN1000159	36659	L	NTL	U	DV		H	N	1111210
1000160	36659	E	HOUSING, MAIN TRANSMISSION CSTG OF	U	DV	J	T	N	1111210
IN1000160	36659	E	NTE	U	DV		H	N	1111210
1000160	36659	F	HOUSING, MAIN TRANSMISSION CSTG OF	U	DV	J	T	N	1111210
IN1000160	36659	F	NTF	U	DV		H	N	1111210
1000160	36659	G	HOUSING, MAIN TRANSMISSION CSTG OF	U	DV	J	T	N	1111210
IN1000160	36659	G	NTG	U	DV		H	N	1111210
1000160	36659	H	HOUSING, MAIN TRANSMISSION CSTG OF	U	DV	J	T	N	1111210
IN1000160	36659	H	NTH	U	DV		H	N	1111210
1000160	36659	J	HOUSING, MAIN TRANSMISSION CSTG OF	U	DV	J	T	N	1111210
IN1000160	36659	J	NTJ	U	DV		H	N	1111210
1000160	36659	K	HOUSING, MAIN TRANSMISSION CSTG OF	U	DV	J	T	N	1111210
IN1000160	36659	K	NTK	U	DV		H	N	1111210
1000160	36659	L	HOUSING, MAIN TRANSMISSION CSTG OF	U	DV	J	T	N	1111210
IN1000160	36659	L	NTL	U	DV		H	N	1111210
1000160	36659	M	HOUSING, MAIN TRANSMISSION CSTG OF	U	DV	J	T	N	1111210
1000160	36659	N	HOUSING, MAIN TRANSMISSION CSTG OF	U	DV	J	T	N	1111210
IN1000160	36659	N	NTN	U	DV		H	N	1111210
1000161	36659	C	COVER, AFT-MAIN TRANSMISSION, ASSY OF	U	DV	J	T	N	1111210
IN1000161	36659	C	NTC	U	DV		H	N	1111210
1000161	36659	D	COVER, AFT-MAIN TRANSMISSION, ASSY OF	U	DV	J	T	N	1111210
IN1000161	36659	D	NTD	U	DV		H	N	1111210
1000161	36659	E	COVER, AFT, MAIN TRANSMISSION, ASSY OF	U	DV	J	T	N	1111210
IN1000161	36659	E	NTE	U	DV		H	N	1111210

Figure 2-4. Sample Master Microfilm Listing

the keywords, the thesaurus provides acceptable abbreviations and/or acronyms for each keyword or group of pre-conjoined keywords. By listing authorized acronyms alphabetically, a useful acronym to keyword cross reference index is produced. These reports can be produced at any time and frequency desired. They are most needed when changes are frequent and when new personnel are introduced into the system.

The Keyword Thesaurus is maintained by the Data Operations Subsystem and is published and distributed as a periodic report. It is used primarily by personnel of the functional disciplines to select and assign keywords that best identify information source documents for subsequent recall and reconsideration when necessary.

Figure 2-5 is an illustration of this report generated in support of the Cheyenne (AH-56A) Project while ITDS itself was under development.

2.1.2 Project Control Routines

The eight programs in this category are used for planning and controlling resources pertaining to the project.

2.1.2.1 PERT Time Extract/Load

The objective of the PERT Time Extract/Load Program is to provide the user with a computerized means of updating selected attributes of the EVENT-FILE data list. The method for accomplishing this is to extract specified data fields from the PERT Time report tape and input this information into the data list. Two PERT Time report tapes -- the Detailed Activity Time Status Report and the Type-1 Summarization Report with time estimates -- are used to update the EVENT-FILE data list. A separate PERT Time Extract/Load program will be used for each PERT report.

The method of accomplishment is the same for both PERT Time Extract/Load Programs. Every record on the PERT time report tapes is matched against a central processor generated inquiry tape. For the processing of both PERT time report tapes, the inquiry tape consists of successor event numbers. When a match occurs, the program extracts the selected data fields from the record and performs the specified computations. The data is then reformatted and written on tape. The preceding operations are also performed for all other matching records. When all operations have been accomplished, the new tape is run to update the Event-File Data List.

DEFINITION OF ABBREVIATION	KEYWORD	COMMENT
DEFENSE CONTRACT ADMINISTRATION SERVICES REGION (OR REPRESENTATIVE)	DCASR	MAY BE FOLLOWED BY -(LA) FOR LOS ANGELES CALIFORNIA
DEFENSE CONTRACT AUDIT AGENCY	DCAA	
DEFENSE CONTRACTOR'S PLANNING REPORT	DCPR	
DEFENSE DOCUMENTATION CENTER	DDC	
DEFENSE INDUSTRIAL PLANT EQUIPMENT CENTER	DIPEC	
DEFENSE LOGISTICS SERVICES CENTER	DLSC	
DEFENSE STANDARDIZATION PROGRAM	DSP	DO NOT USE FOR DISTRIBUTION POINT
DEFENSE SUPPLY AGENCY REGULATION	DSAR	MAY BE FOLLOWED BY A -(NO.)
DEFENSE WEAPON SYSTEMS MANAGEMENT COURSE	DWSMC	
DEFERRED ITEM	DEFERRED-ITEM	
DEFERRED ITEM LIST	DEFERRED-ITEM-LIST	
DEFERRED ORDERING	DEFERRED-ORDERING	
DEFINITIONS OF EFFECTIVENESS TERMS	DEFINITIONS-EFF-TERM	
DELAVAN MANUFACTURING COMPANY, DE MOINES, IOWA	DELAVAN-MFG-CO	
DELEGATION OF AUTHORITY	DELEGATION-AUTHORITY	
DELETE REQUIREMENT	DELETE-REQUIREMENT	
DELINQUENCY REPORT	DELINQUENCY-REPORT	
DELIVERY	DELIVERY	USE DATE-ACTUAL OR DATE-SHIPPED FOR DELIVERY DATE

Figure 2-5. Sample Keyword Thesaurus

The PERT reports -- Detailed Activity Time Status Report and Type-1 Summarization Report -- will be used to update the EVENT-FILE data list containing the equivalent attribute. The reports will be generated on tape so that the selected data can be extracted and input to the data list.

2.1.2.1.1 Updated Attributes of the Event File Data List

The PERT Time Extract/Load Program results in the monthly updating of the EVENT-FILE data list. The following tabulation covers the updating of that data list. It includes a brief description of the data list attributes that are updated by the PERT time reports, along with definitions of the headings appearing in the format.

	ATTRIBUTE	DESCRIPTION
a)	EVENT-FILE (Succ. Event No.)	A match by successor event number between the PERT Detailed Time Activity Status Report and an inquiry tape identical to the file identifier will cause the notated attributes to be updated.
b)	REPT-DT	The latest date that the PERT time report was produced.
c)	1-DETL-PRED-EV-NO	The preceding event number or numbers for an activity that is related to the successor event number.
d)	1-ACT-NOMEN	The word description of the activity defined by the two event numbers.
e)	1-T_A/T_E-IND	The indicator associated with the T_A/T_E-DT to indicate whether this date is an actual or expected completion date. A = Actual, E = Expected.
f)	1-T_A/T_E-DT	The actual (T_A) or expected (T_E) completion date of the activity defined by the two events.
g)	1-TL	The PERT computed latest allowable completion date of the activity defined by the two events.
h)	1-SL	The PERT computed slack value for the activity (T_L-T_E).
i)	1-TIME-E	The estimated duration time for the activity.

ATTRIBUTE	DESCRIPTION
j) MS-TA/TE-IND	The indicator associated with MS-TA/TE-DT to indicate whether this date is an actual or expected completion date. A = Actual, E = Expected.
k) MS-TA/TE-DT	The actual (T_A) or expected (T_E) completion date of the milestone. This date is the latest of all dates present in attribute 1-TA/TE-DT.
l) MS-TL	The latest allowable completion date for the milestone. This date is the latest of all dates present in attribute 1-TL.
m) MS-SL	The slack value of the milestone. This value is the least of all values present in attribute 1-SL.

The following attributes are the entries in the EVENT-FILE data list that are updated by the Type-1 Summarization Report.

ATTRIBUTE	DESCRIPTION
n) EVENT-FILE (Succ. Event No.)	A match by successor event number between the Type-1 Summarization Report and a card deck identical to the file identifier will cause the following attributes to be updated.
o) 2-SUMRY-PRED-EV-NO	The preceding event number or numbers for a summary activity that is related to the successor event number.
p) 2-Ev-WORDS	The word description of the event.
q) 2-TA/TE-IND	The indicator associated with the 2-T_A/T_E-DT to indicate whether the date is an actual or expected completion date. A = Actual, E = Expected.
r) 2-TA/TE-DT	The actual (T_A) or expected completion date of the activity defined by the two events.
s) TL	The PERT computed latest allowable completion date of the activity defined by the two events.
t) 2-SL	The PERT computed slack value for the activity (T_L-E).
u) 2-TIME-E	The estimated duration time for the activity.

2.1.2.2 PERT Cost Extract/Load

The objective of the PERT Cost Extract/Load Program is to provide the user with a computerized means of updating selected attributes of a given ITDS data list (i.e., the COST-STAT-FILE data list or a data list containing the equivalent attributes). The method for accomplishing this is to automatically extract specified data fields from the PERT Cost Program/Project Status Report tape and input this information into the data list.

Every record in the PERT Cost Program/Project Status Report tape is matched against a central processor generated inquiry tape containing the work breakdown structure numbers that are present in the given ITDS data list. When a match occurs, the program extracts selected data fields from the record and performs the specified computations. The data is then reformatted and written on tape. The preceding operations are performed for all other matching records. When all operations have been accomplished, the new tape is run to update a given ITDS data list.

2.1.2.2.1 Updated Attributes of the COST-STAT-FILE Data List

The following data list attributes are updated by means of inputs furnished by the PERT Cost Program/Project Status Report.

	ATTRIBUTE	DESCRIPTION
a)	Cost-Stat-File (WBS No.)	A match by work breakdown structure (WBS) element number, between the PERT Cost Program/Project Status Report tape and an inquiry tape identical to the file identifiers, will cause the notated attributes to be updated.
b)	REPORT-DT	The latest date that the PERT cost report was produced.
c)	CUT-OFF DATE	The latest date prior to the report date that data changes were entered in order to update the PERT cost report tape.
d)	WBS-LEVEL	The level of indenture of the work breakdown element.

ATTRIBUTE	DESCRIPTION
e) PERT/COST-WBS-NOMEN	The descriptive nomenclature of the WBS element.
f) ACT/EXP-COMPL-IND	The indicator associated with the ACT/EXP-COMP-DT to indicate whether this date is an actual or expected completion date. A = Actual, E = Expected.
g) ACT/EXP-COMPL-DT (Te)	The actual or expected completion date of the last event of all activities embraced in the WBS element.
h) SCD-COMPL-DT	The date when the last event of all activities embraced within the WBS element is scheduled for completion.
i) LATEST-ALLOW-DT (TL)	The PERT computed allowable completion date is the latest date by which the last event of all activities embraced within the WBS element can be completed without program impact.
j) MOST-CRITICAL-SLACK	The PERT computed slack value ($T_L - T_E$) of all activities embraced by the WBS element.
k) WRK-PERF-TO-DT-ACTL	The dollar figure of actual costs of work performed to date.
l) WRK-PERF-TO-DT-VALUE	The dollar figure of the planned cost of all completed work packages and percent complete by planned cost of work packages in work.
m) TOT-AT-COMPL-PLANNED	The dollar figure of the planned cost to complete all activities embraced within the WBS element.
n) TOT-AT-COMPL-LRE	The estimate of the cost to complete all activities embraced within the WBS element.

2.1.2.3 SCIOLIST Extract/Load

The objective of the SCIOLIST Extract/Load Program is to provide the user with a computerized means of updating selected attributes of a given ITDS data list. The method for accomplishing this is to automatically extract specified data fields from the SCIOLIST report tape and input this information into the data list. There are two SCIOLIST Extract/Load Programs. One program extracts data from the SCIOLIST Fiscal Year Report tape and inputs it into the FUND-STAT-SUMMARY-FILE data list or a data

list containing the equivalent attributes. The second program extracts data from the SCIOLIST Command Report tape and inputs it into the COMD-FUND-STAT-FILE data list or a data list containing the equivalent attributes.

The method of accomplishment is the same for both SCIOLIST Extract/Load Programs. Every record on the SCIOLIST report tapes is matched against a central processor generated inquiry tape containing the identifiers that are present in the given ITDS data list. For the processing of the SCIOLIST Fiscal Year Report tape, the inquiry tape consists of the cost collection structure numbers. For the processing of the SCIOLIST Command Report tape, the inquiry tape consists of a double identifier, commodity command within cost collection structure number. When a match occurs, the program will extract the selected data fields from the record, reformat them, and record them on tape. The preceding operations are performed for all other matching records.

When all operations have been accomplished, the new tape is processed to update the given ITDS data list.

The SCIOLIST reports are used to update two ITDS data lists. The SCIOLIST Fiscal Year Report contains the information necessary to update selected attributes of a given ITDS data list (i.e., the FUND-STAT-SUMMARY-FILE data list or a data list containing the equivalent attribute). This report is generated on tape so that the selected data can be extracted and input to the data list.

The SCIOLIST Command Report contains the information necessary to update selected attributes of the COMD-FUND-STAT FILE data list. This report will be generated on tape so that the desired data can be extracted and input to the data list.

2.1.2.3.1 Updated Attributes of the FUND-STAT-SUMMARY FILE

The following attributes are the entries in the data list that are updated from the SCIOLIST Fiscal Year Report.

	ATTRIBUTE	DESCRIPTION
a)	FUND-STAT-SUMMARY-FILE (CCS-SYM)	A match by cost collection structure (CCS) number between the SCIOLIST Fiscal Year Report tape and an inquiry tape identical

ATTRIBUTE	DESCRIPTION
	to the file identifiers will cause the notated attributes to be updated.
b) REPT-DT	The latest date that the report was produced.
c) FY	The fiscal years for which funding is required.
d) TOT-RQMTS	The total funding requirements as specified by project management for each fiscal year.
e) REL-TO-PROJ	The total funding for each fiscal year which has been released to the project and approved by the AMC.
j) DISTR-TO-FLD	The total dollar figure released by the project manager for each fiscal year.
g) OBLIGATED	The total dollar figure obligated for each fiscal year.

2.1.2.3.2 Updated Attributes of the COMD-FUND-STAT-FILE

The following attributes are the entries in the data list that are updated from the SCIOLIST Command Report.

ATTRIBUTE	DESCRIPTION
a) COMD-FUND-STAT-FILE (CCS* Command)	A match by cost collection structure (CCS) number and command number between the SCIOLIST Command Report tape and an inquiry tape identical to the data list identifiers will cause the notated attributes to be updated.
b) REPT-DT	The latest date that the report was produced.
c) FY	The fiscal years for which funding is provided.
d) TOT-RQMTS	The total funding requirements as specified by command by the project manager for each fiscal year.
e) REL-TO-PROJ	The total funding by command, for each fiscal year, which has been released to the project and approved by the AMC.

ATTRIBUTE	DESCRIPTION
f) DISTR-TO-FLD	The total funds released by the project manager by command for each fiscal year.
g) OBLIGATED	The total funds by command which have been obligated for each fiscal year.

2.1.2.4 MAST Extract/Load

The objective of the MAST (Material Aquisition Status Technique) Extract/Load Program is to provide the user with a computerized means of updating selected attributes of a given ITDS data list (i.e., the PROD-STAT-FILE data list, or a data list containing the equivalent attributes). The method for accomplishing this is to automatically extract specified data fields from the MAST history tape and input this information into the data list.

Every record in the MAST history tape is matched against a central processor generated inquiry tape containing a double key, a unique identifier (i.e., federal stock number) and receiving organization present in the given ITDS data list.

When a match occurs the program will extract selected data fields from the record, and carry out the specified computations. The data will then be reformatted and written on tape. The preceding operations will also be performed for all other matching records. When all operations have been accomplished, the new tape will be run to update a given ITDS data list.

2.1.2.4.1 Inputs via the MAST History Tape

The MAST history tape is the input source for the MAST Extract/Load Program and contains the information necessary to update selected attributes of the given ITDS data list. For each unique identifier receiving organization on the MAST history tape, there is one type 1, description data, and six type 2, quantity data, that have the following meaning and record identifier in the order listed:

RECORD TITLE	RECORD IDENTIFIER
Incremental Original Scheduled Quantity	2
Incremental Revised Scheduled Quantity	3
Incremental Actual Delivery Quantity	4

RECORD TITLE	RECORD IDENTIFIER
Incremental Avail/Exp Quantity	5
Incremental Minimum Allowable Quantity	6
Incremental Marginal Quantity	7

The field descriptions given below are of those fields used to update the given ITDS data list.

FIELD	DEFINITION
a) Unique Identifier (i.e., the federal stock number, if it exists)	A unique identifier assigned to this item, normally a federal stock number. If no federal stock number exists, a unique identifier will be generated and used until a federal stock number is assigned.
b) Receiving Organization	The organization which is designated as the final destination for the item.
c) Status Date	The latest date, prior to the report date, that data changes were entered in order to update the MAST history tape.
d) Report Date	The date when the last MAST Peripheral Program was run and a report was produced.
e) Incremental Original Scheduled Quantity Record	It can contain up to 60 fields of four numeric characters per field. The first field is the quantity for the "Begin Date." The last field is the quantity for the "End Date." The next two characters contain the number 2, which is the record identifier for the incremental original scheduled quantity. The remaining characters contain the predecessor and successor event numbers. The five remaining type 2 records are formatted in the same way as the incremental original scheduled quantity record.

2.1.2.4.2 Updated Attributes of the Production Status File Data List

The MAST Extract/Load Program results in the monthly updating of a given ITDS data list (i.e., the PROD-STAT-FILE data list or a data list containing the equivalent attributes). This section covers the updating of a given ITDS data list. It includes a brief description of the data list attributes that are updated by MAST and an annotated sample of the data list format.

The ITDS data list contains the cumulative available or expected delivery quantity, the cumulative revised scheduled delivery quantity, the cumulative minimum allowable quantity, and the cumulative actual delivery quantity. These cumulative totals are found in two sections of the data list. The first section is ordered so that the entries reflect the cumulative history of this item, prior to the latest MAST report date, that data changes were entered in order to update the MAST history tape. The second section shows the expected status of this item in relation to a given month and year. This projection is carried forward as far as deliveries are expected.

The following attributes of the PROD-STAT-FILE data list are updated from the MAST Extract/Load Program.

	ATTRIBUTE	DESCRIPTION
a)	PROD-STAT-FILE (Unique Identifier *RECV-ORG)	A match by federal stock numbers and receiving organizations, between the MAST history tape and an inquiry tape identical to the file identifiers will cause the notated attributes to be updated.
b)	REPT-DT	The latest date that the MAST Program was run and a report produced.
c)	AS-OF-DATE	The latest date, prior to the report date, that data changes were entered in order to update the MAST history tape.
d)	CUM-REQMTS	The total cumulative revised scheduled quantity from the initial scheduled delivery date to the AS-OF-DATE.
e)	CUM-ACTLS	The total cumulative actual quantity from the initial delivery date to the AS-OF-DATE.
f)	CUM-MIN-ALLOW	The total cumulative minimum allowable quantity from the initial scheduled delivery to the AS-OF-DATE.
g)	CUM-MARGIN	The arithmetic difference between the CUM-MIN-ALLOW and CUM-SERV-ART-ON-HAND.
h)	CUM-SERV-ART-ON-HAND	The total cumulative available quantity from the AS-OF-DATE.

ATTRIBUTE	DESCRIPTION
i) PROJECTED-MONTH-YEAR	This attribute contains listing of all months and years from the AS-OF-DATE to the last expected delivery. All of the following attributes are ordered in such a way as to produce a 1-1 correspondence between the attribute and the PROJECTED-MONTH-YEAR.
j) REPT-UAR	The arithmetic difference between RQMTS and EXPCTD-REPT.
k) CUM-UAR-MONTH	The arithmetic difference between CUM-RQMTS-monthly and CUM-EXPCTD-monthly.
l) CUM-RQMTS-MONTHLY	The total cumulative revised scheduled delivery quantity from the initial scheduled delivery date up to and including a given month and year.
m) CUM-EXPCTD-MONTHLY	The total cumulative expected delivery quantity from the initial scheduled delivery date up to and including a given month and year.
n) CUM-MIN-ALLOW-MONTHLY	The total cumulative minimum allowable quantity from the initial scheduled delivery date up to and including a given month and year.
o) CUM-MARGIN	The arithmetic difference between the CUM-MIN-ALLOW-MONTHLY and the CUM-EXPCTD-MONTHLY.

2.1.2.5 Master Detail Milestones

The purpose of the Milestone Application Outputs Program is to provide the user with a monthly report on the status of the detailed milestones. The method for accomplishing this is to extract specified attributes from a given ITDS data list (i.e., an EVENT-FILE data list or a data list containing the equivalent attributes) and enter the data onto a Milestone Report tape.

The records that are used to produce the Milestone Report will be extracted from the selected attributes of a given ITDS data list, reformatted and written onto the Milestone Report tape. This tape will be sorted in ascending sequence on any or all of three fields: milestone number, schedule date, and Department of the Army milestone number. A report will be produced after each sort.

2.1.2.5.1 Inputs via the EVENT-FILE Data List

The EVENT-FILE Data List contains the information necessary to produce the Milestone Report. The selected attributes are extracted from the data list, reformatted, and written on the Milestone Report tape.

The necessary attributes and their meanings are set forth below:

ATTRIBUTE	DESCRIPTION
a. CUTOFF-DT	The latest date prior to the last PERT time report that data changes where entered in order to update the PERT history tape.
b. MILESTONE-NO	The milestone number of the project milestone related to the event number
c. MS-NOMEN	The work description of the project milestone.
d. DA-MS-NO	The number assigned to the milestone by the Army Special Staff Officer.
e. MS-TA/TE-IND	The indicator associated with the MS-TA/TE-IND to indicate whether this date is an actual or expected completion date. A=Actual, E=Expected.

ATTRIBUTE		DESCRIPTION
f.	MS-TA/TE-DT	The actual (TA) or expected (TE) completion date of the milestone.
g.	MS-TL	The latest allowable completion date of the milestone.
h.	MS-TS	The scheduled completion date of the milestone.
i.	MS-TD-IND	The indicator (D) for the management-directed date of the milestone.
j.	MS-TD-DT	The management directed date for the milestone.
k.	RESP-PERF-ORG.	The office symbol of the organization responsible for milestone completion.

2.1.2.5.2 Outputs to the Milestone Report

The Milestone Report Generator Program results in the monthly printout of the Milestone Report. This report is sorted by milestone number, schedule date, and Department of the Army milestone number. This section covers production of the Milestone Report. Figure 2-6 shows the Milestone Report format. Following the illustration are definitions of data fields on the report.

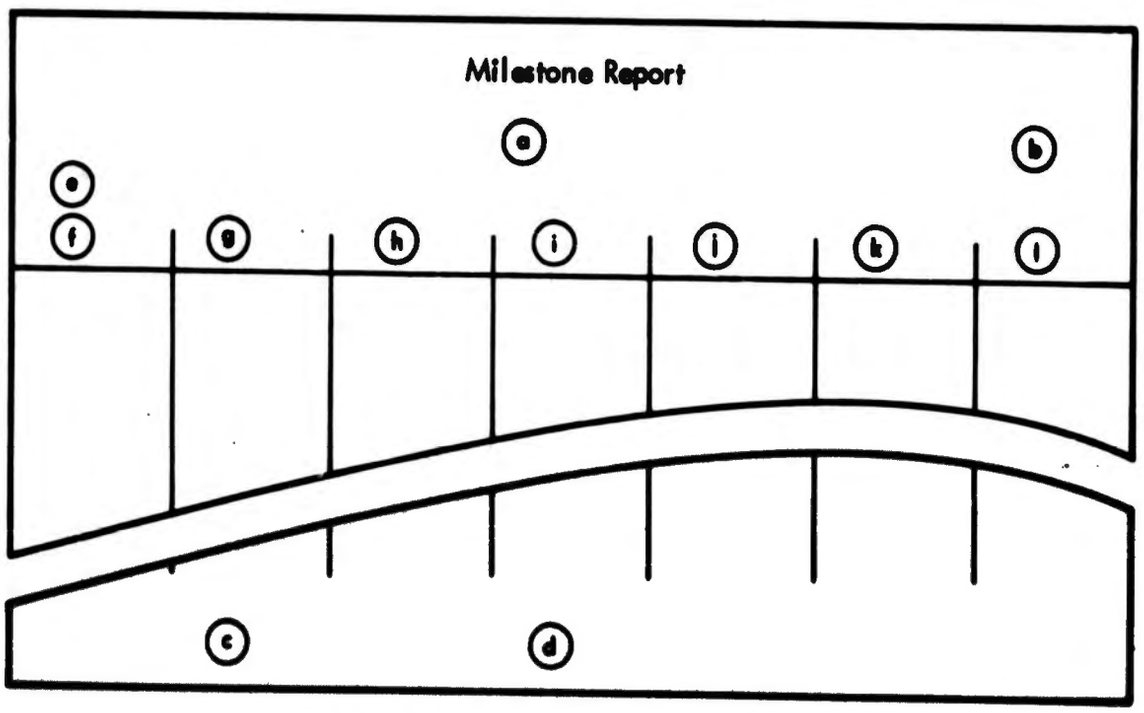


Figure 2-6. Milestone Report Format

FIELD DEFINITIONS

The following defined fields are the entries that are internally created by the Milestone Report Generator Program.

	FIELD	DEFINITION
(a)	Title	The designation of the total program included in the report.
(b)	Release Date	The date the Milestone Report is produced.
(c)	Page Number	Self-explanatory
(d)	Classification	Self-explanatory

The following defined fields are the entries in the Milestone Report that are extracted from the EVENT-FILE data list.

	FIELD	DEFINITION
(e)	CUTOFF	The latest date prior to the last PERT/time report that data changes were entered in order to update the PERT history tape.
(f)	MILESTONE NUMBER	The milestone number of the project milestone relatable to.
(g)	MS-NOMEN	The work description of the project milestone.
(h)	RESP AGENCY	The office symbol of the organization responsible for milestone completion.
(i)	DA MS NO	Department of the Army Milestone Number.
(j)	SCHED. DATE	The scheduled completion date of the milestone.
(k)	DIR/ACT/EXP DATE	Those dates prefixed with an "A" reflect the actual completion date. Those dates prefixed with an "E" reflect expected dates of completion.
(l)	LATEST ALL DATE	Those dates prefixed with a "D" reflect directed completion dates. All other entries reflect the latest alloweble completion dates.

Figure 2-7 is an illustration of this report generated in support of the Cheyenne (AH-56A) Project while IITDS itself was under development.

ADVANCED AERIAL FIRE SUPPORT SYSTEM MILESTONE REPORT (AMCR 11-16)
MASTER DETAIL MILESTONES - AMCPM-AFS
BY MILESTONE NUMBER

CUTOFF 29 FEB

RELEASE DATE 06 MAR

MILESTONE NUMBER	MILESTONE DESCRIPTION	DA MS NO	SCHED DATE	DIR/ACT/ EXP. DATE	ALL. DATE
0100	QUALITATIVE MATERIEL DEVELOPMENT OBJECTIVE(QMDC)APPROVED	1	APR64	A 6APR64	
0110	REQUEST FOR PROPOSALS ISSUED	2	AUG64	A 1AUG64	
0120	PROPOSALS RECEIVED	3	NOV64	A 23NOV64	
0700	QUALITATIVE MATERIEL REQUIREMENTS APPROVED	11	NOV65	A 30NOV65	
0710	REVISED TECHNICAL DEVELOPMENT PLAN SUBMITTED		APR66	A 25APR66	
0900	TECHNICAL DEVELOPMENT PLAN APPROVED		DEC64	A 15DEC64	
0920	CDP CONTRACTORS SELECTED	5	FEB65	A 19FEB65	
0930	CDP CONTRACTS AWARDED	6	MAR65	A 12MAR65	
1100	CONTRACT DEFINITION PHASE(CDP) INITIATION APPROVED	4	FEB65	A 9FEB65	
1200	REQUEST FOR AUTHORITY TO NEGOTIATE DETERMINATION AND FINDINGS APPROVED	7	OCT65	A 26OCT65	

MAR 06, 1968 PAGE 1

Figure 2-7. Sample Milestone Report

2.1.2.6 Time Status Report

The purpose of the Time Status Report is to provide the user with a computerized means of obtaining, upon inquiry, a formatted response at a remote terminal. The response consists of selected attributes belonging to the EVENT-FILE data list. These selected attributes reflect the status of the most significant values of an event.

The formatted response, obtained upon inquiry, is internally generated. This is accomplished through the use of an "M" correlative which allows the user to retrieve the values of a selected number of attributes by specifying one special attribute.

2.1.2.6.1 Time Status Report Format

The Time Status Report (see Figure 2-8) is generated as a result of a user's inquiry to the EVENT-FILE data list and is ordered by successor event number. This section covers the production of the Time Status Report.

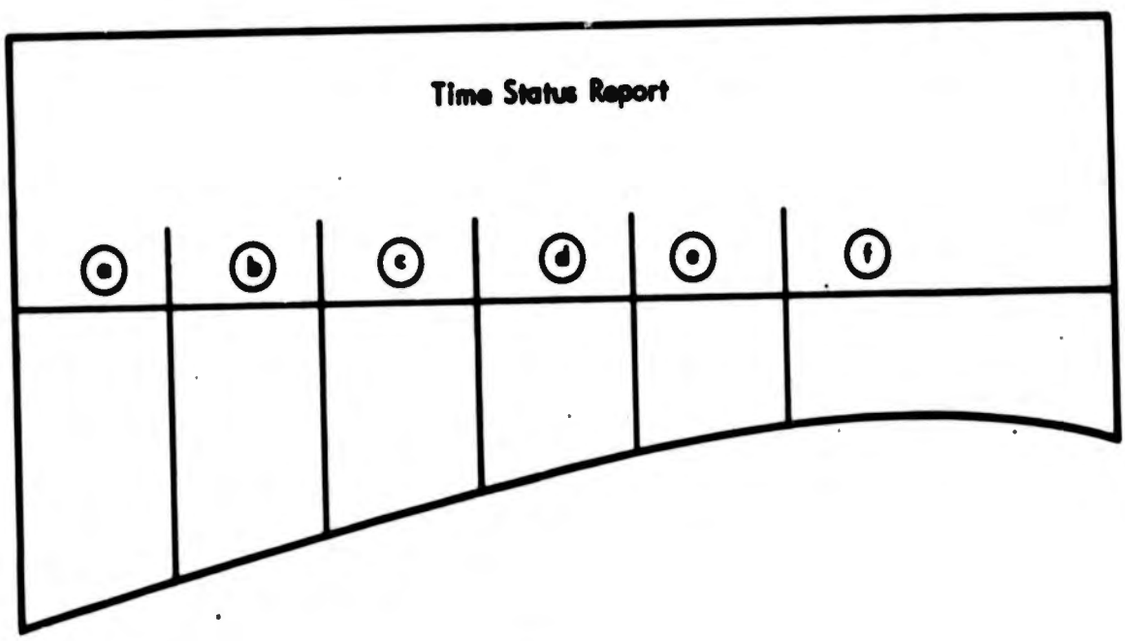


Figure 2-8. Time Status Report Format

	FIELD	DEFINITION
(a)	EVENT-FILE (successor event number)	The PERT successor event number
(b)	1-DETL-PRED-EV-NO	The preceding event number or numbers for the activity or activities defined by the detail PERT network, containing the same successor event number.
(c)	1-TA/TE-IND	The indicator associated with the TA/TE-DT to indicate whether this date is an actual or expected completion date. A=Actual, E=Expected.
(d)	1-TA/TE-DT	The actual or expected completion date of the activity defined by the two events.
(e)	1-T_L	The PERT computed latest allowable completion date of the activity defined by the two events.
(f)	1-SL	The PERT computed slack value for the activity (T_L-T_E).

Figure 2-9 is an illustration of this report generated in support of the Cheyenne (AH-56A) Project while ITDS itself was under development.

TRANSACTION 586

STATEMENT LIST TIME-STATUS REPT IN EVENT FILE

EVENT FILE	1-DETL-PRED-EV-NO	1-TA/TE-IND	1-TA/TE-DT	1-TL	1-SL
2040	1205	A	20 Jan 69	22 Apr 69	10.2
	1210	A	27 Jan 69	22 Apr 69	9.2
	4310	E	03 Feb 69	22 Apr 69	11.2
2075	2005	E	10 Mar 69	19 Sep 70	27.2
2240	2185	E	13 Aug 69	25 Mar 70	31.2
2250	2215	E	13 Nov 69	11 Mar 70	16.2
	2235	E	16 Oct 69	11 Mar 70	20.2
	2245	E	30 Oct 69	11 Mar 70	18.2
2405	2260	E	11 Sep 69	22 Apr 70	31.2

Figure 2-9. Sample Time - Status Report

2.1.2.7 Cost Status Report

The purpose of the Cost Status Report is to provide the user with a computerized means of obtaining, upon inquiry, a formatted response at a remote terminal. The response consists of selected attributes belonging to the COST-STAT-FILE data list. These selected attributes reflect the actual and planned dollar costs of a WBS element, as related to contractor reported information.

The formatted response obtained upon inquiry is internally generated within the processor/data base. This is accomplished through the use of an "M" correlative which allows the user to retrieve the values of a selected number of attributes by specifying one special attribute. Figure 2-10 shows the Cost Status Report Format.

	FIELD	DEFINITION
(a)	COST-STAT-FILE (WBS No.)	The work breakdown structure element number.
(b)	CONTR-ORIG-TGT-CST	The dollar value of the original contractor reported target cost.

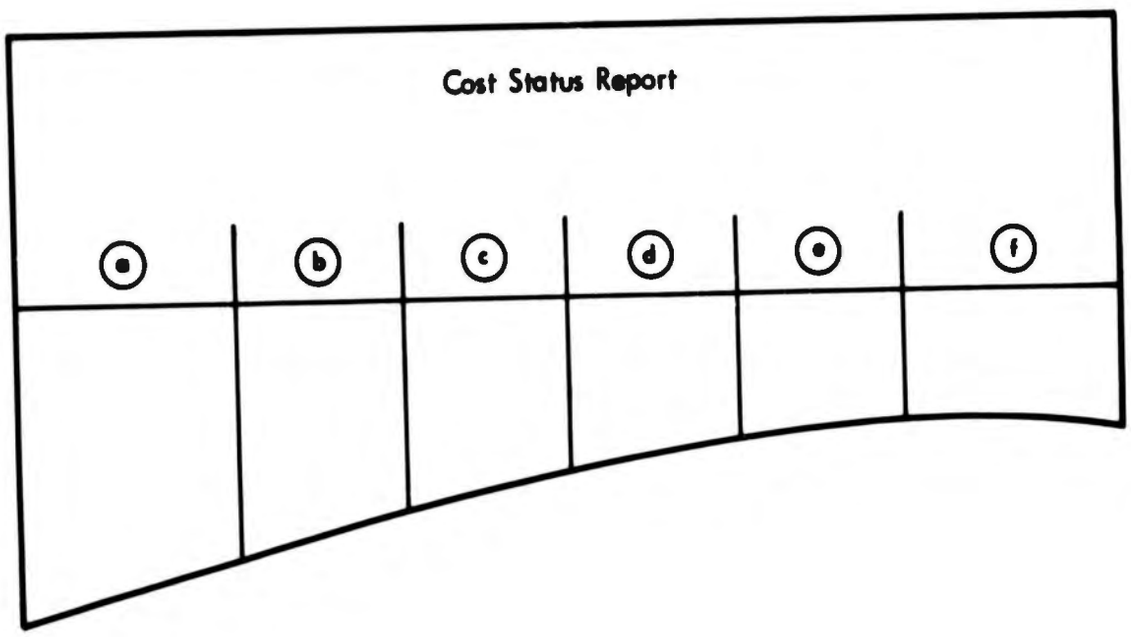


Figure 2-10. Cost Status Report Format

	FIELD	DEFINITION
(c)	CONTR-LAT-TGT-CST	The dollar value of the latest contractor reported target cost.
(d)	CONTR-DELTA	The arithmetic difference between the original contractor target cost and the latest contractor target cost.
(e)	WRK-PERF-TO-DT-ACTL	The dollar figure of the actual cost of work performed to date.
(f)	TOT-AT-COMPL-LRE	The estimate of the cost to complete all activities embraced within the work breakdown structure element number.

Figure 2-11 is an illustration of this report generated in support of the Cheyenne (AH-56A) Project while ITDS itself was under development.

TRANSACTION 588

STATEMENT LIST COST-STAT-REPT IN COST-STAT-FILE

COST-STAT-FILE	CONTR-ORIG-TGT-CST	CONTR-LAT-TGT-CST	CONTR-DELTA	WRK-PERF-TO-DT-ACTL	TOT-AT-COMPL-LRE
1130000	7002000	12599000	-5597000	10020000	13797000
1131000	1197000	2106000	- 909000	1747000	2106000
1132000	887000	593000	294000	576000	593000
1133000	1041000	2744000	-1603000	1464000	2761000
1134000	618000	609000	9000	291000	592000

Figure 2-11. Sample Cost Status Report

2.1.2.8 Funding Status Report

The purpose of the Funding Status Report is to provide the user with a computerized means of obtaining, upon inquiry, a formatted response at a remote terminal. The response consists of selected attributes belonging to the FUND-STAT-SUMMARY-FILE data list. These selected attributes reflect the total dollar figures by fiscal year for each cost collection system number and provide the program manager with visibility as to total program funding with corresponding distribution and obligations against the funding.

The formatted response, obtained upon inquiry, is internally generated within the processor/data base. This is accomplished through the use of an "M" correlative which allows the user to retrieve the values of a selected number of attributes by specifying one special attribute.

2.1.2.8.1 Funding Status Report Format

The Funding Status Report (see Figure 2-12) is generated as a result of a user's inquiry to the FUND-STAT-SUMMARY-FILE data list and is ordered by cost collection system number. This section covers the production of the FUND-STAT-REPT.

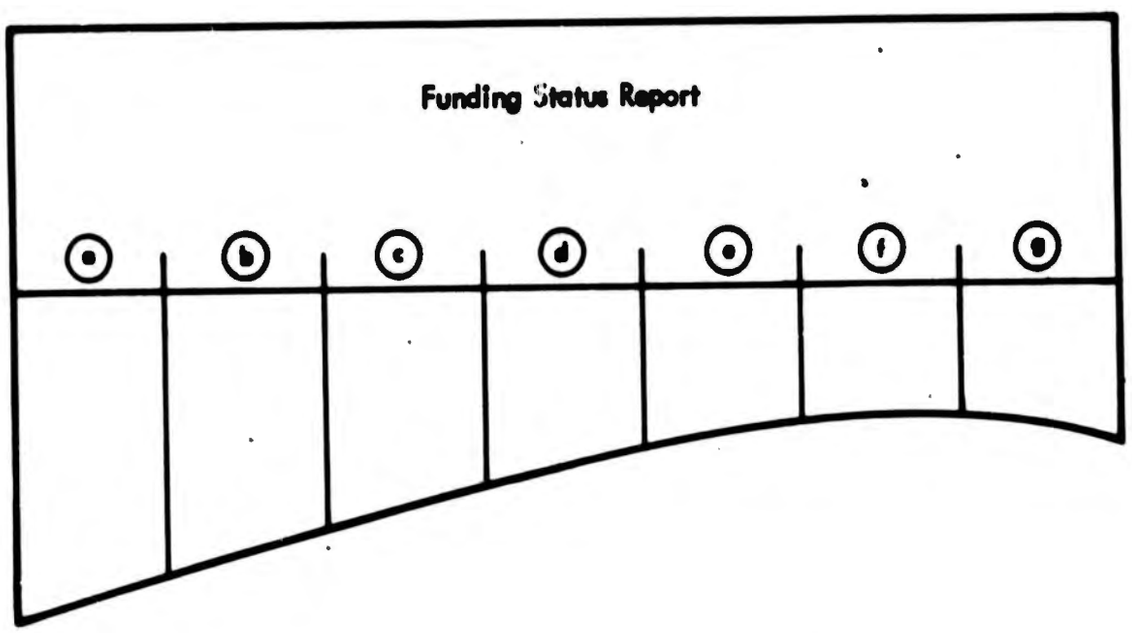


Figure 2-12. Funding Status Report Format

	FIELD	DEFINITION
(a)	FUND-STAT-SUMMARY-FILE (CCS NO.)	The cost collection system number
(b)	COMD	The commodity command funded under the CCS number.
(c)	FY	The fiscal years for which funding is required.
(d)	TOT-RQMTS	The total dollar requirements for each fiscal year.
(e)	REL-TO-PROJ	The total dollars which have been released to the project by fiscal year.
(f)	DISTR-TO-FLD	The total dollar figure released by the project manager by fiscal year.
(g)	OBLIGATED	The total dollar figure obligated by fiscal year.

Figure 2-13 is an illustration of this report generated in support of the Cheyenne (AH-56A) Project while ITDS itself was under development.

TRANSACTION 587

STATEMENT LIST FUND-STAT-RPT IN FUND-STAT-SUMMARY-FILE

FUNDING-STAT-SUMMARY-FILE	COMD	FY	TOT-RQMTS	REL-TO-PROJ	DISTR-TO-FLD	OBLIGATED
111100	AVSCOM	67	420000	420000	420000	420000
	ECOM	68	750000	725000	675000	645000
		69	900000	000000	000000	000000
111110	AVSCOM	67	140000	140000	140000	140000
	ECOM	68	175000	175000	175000	175000
		69	250000	000000	000000	000000
111111	AVSCOM	67	180000	180000	180000	180000
	ECOM	68	350000	350000	325000	300000
		69	350000	000000	000000	000000
111112	AVSCOM	67	100000	100000	100000	100000
	ECOM	68	225000	200000	175000	170000
		69	300000	000000	000000	000000

Figure 2-13. Sample Funding Status Report

2.1.3 Data Management Lists

Data management applications programs provide an ITDS data base for supporting project functional responsibilities in the areas of improved management and determination of requirements for:

a) Procurement of technical data and information (AR 700-51/AMCR 700-48).

b) Management control systems for use in the acquisition process (AR 37-200 and DOD Instructions 7000.6/7000.7).

c) Armed Services, Procurement Regulations (ASPR).

d) The using project's contract requirements for GFM and the project manager's internal reporting requirements for measurement of cost, schedule, and performance as they relate to date.

The data management application reports described below provide requirements and status measurement visibility when related to agreements identified in the prime contractor's development or production contracts. The data management applications programs are used by the data management officer and responsible data source agencies for determining overall contractual requirements for data.

2.1.3.1 Government Data Requirements List (GDRL)

This report presents measurement visibility of the prime contractor's GFM (Government-furnished material) data requirements versus the government data source agencies' response status. The GDRL is issued periodically as required by the project manager. It reflects all of the information needed by the user to determine GFM data requirements and status of the data intended to satisfy the requirements. The data source is the GFM data file; the attributes addressed in loading and retrieval are as follows:

	ATTRIBUTE	DESCRIPTION
a)	GFM-DATA-FILE	Equipment nomenclature
b)	CONT-NO	Contract number related to the data requirements
c)	COM-CMD	Commodity command responsible to supply the data
d)	FSN	Federal stock number of a) above

	ATTRIBUTE	DESCRIPTION
e)	TITLE	Title of the contractor's data need
f)	DOC-NO	Document number of the data supplied
g)	REV	Revision, if any, to the document supplied
h)	DOC-DATE	Date of the document, or revision, supplied
i)	NEED-DT*SCH-DT*REC-DT	Concatenated need, scheduled and received dates
j)	VALIDITY	Validation status of data supplied
k)	COMP-STA	Completion status of the data requirement
l)	AVAL	Availability of data
m)	BASELINE	An asterisk, if the data is configuration controlled
n)	CON-NO	Unique contractor assigned number for the data requirement
o)	COM-CMD-TBL	Commodity command coded conversion table from which item c) identification is retrieved. The table provides computer storage economy.

The GDRL Report is formatted as shown in Figure 2-14, below.

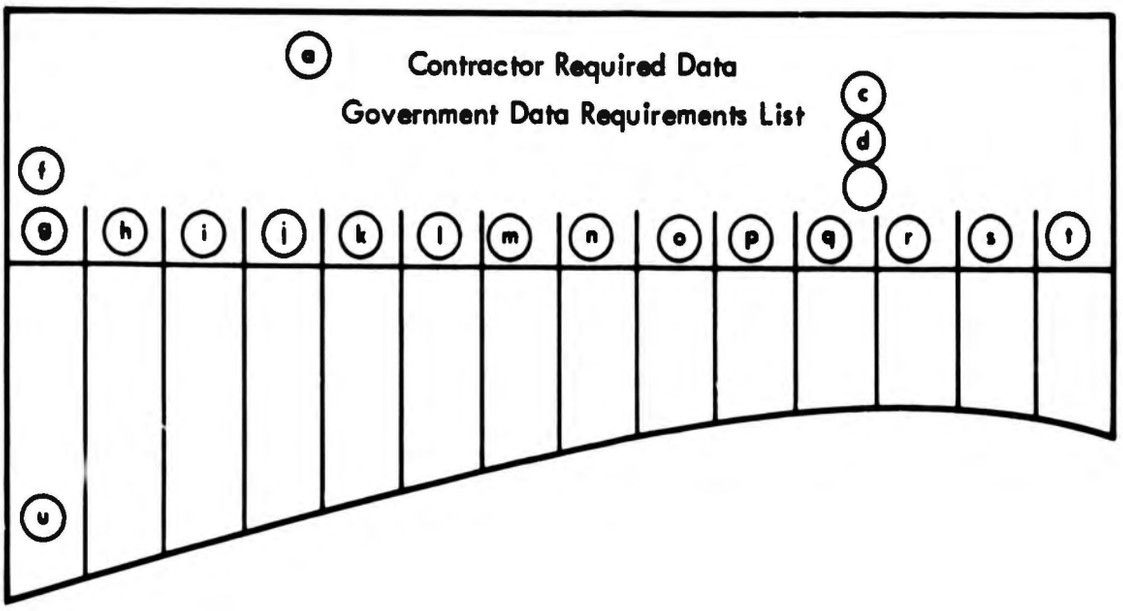


Figure 2-14. GDRL Report Format

	FIELD	DEFINITION
(a)	GOVERNMENT DATA REQUIREMENTS LIST	Preprogrammed report title
(b)	CONTRACT NO.	Contract number from GFM data file
(c)	ISSUE DATE	Computer generated Gregorian conversion date
(d)	ISSUE NO.	Arbitrary sequence number generated by transaction date change
(e)	V P C B	V: Valid P: Preliminary C: Tenths completed B: Change controlled
(f)	RESPONSIBLE AGENCY	Commodity command
(g)	NOMENCLATURE	Nomenclature of hardware (GFM) item
(h)	DATA REQMT TITLE	Title of data requirements indentured beneath the related GFM item
(i)	FSN	Federal stock number of the item
(j)	DOCMT NO.	Document number of data furnished for the requirement
(k)	REV	Revision letter, if any
(l)	DOC DATE	Date of the document submitted
(m)	NEED DATE	Date the contractor identified data as needed
(n)	SCHEDULE DATE	Date government scheduled the data for on-dock at the contractor's facility
(o)	RECEIVED DATE	Date officially received by the contractor
(p)	V	See (e)
(q)	C	See (e)
(r)	B	See (e)
(s)	AVBLTY	Yes, no, or blank

	FIELD	DEFINITION
(t)	CONTROL NUMBER	Unique number assigned by the contractor to his data item requirement
(u)	PAGE	Sequentially numbered page count of the report

Figure 2-15 is an illustration of this report generated in support of the Cheyenne (AH-56A) Project while ITDS itself was under development.

CONTRACTOR DATA REQUIREMENTS LIST

AH-56A GOVERNMENT DATA REQUIREMENTS LIST
DAAE11-66-C-3667(N)

RESPONSIBLE AGENCY: AVSCOM

ISSUE DATE: 30 May 69
ISSUE NO.: 001

V = V(ALID) P(RELIM)
C = TENTHS COMPLETED
B = CHANGE CONTROL

NOMENCLATURE OR RQMT TITLE	FSN OR DOCMT NO.	REV	DOC.DATE	NEED DATE	SCHEDULE DATE	RECEIVED DATE	V	C	B	AVBLTY	CONTROL NUMBER
Engine, Turbo-shaft	FSN1234-567-899										
Model Specification	E1123	B	15 Nov 67	23 May 68	23 May 68	23 May 68	V	X	*	Y	101001
CG Location	6010T43	A	17 Jun 66	1 Jan 66	11 Jan 67	22 Jul 67	P	8		Y	101035
Fire Extinguisher	FSN4210-555-8837										
Equipment Spec	MIL-E-52031	A	7 Aug 53	1 Jan 66	1 May 66	1 May 66	V		*	Y	132001
Outline Dwg	A20-01-63		28 Jun 63	1 Jan 67	1 Jan 67	1 Jan 67	V		*	Y	132003
Assembly Dwg	FR2-3/4-11848	H	29 Jan 55	10 May 68	10 May 68	10 May 68	V			Y	132004

Figure 2-15. Sample GDRL Report

2.1.3.2 Contractor Data Requirements List (CDRL)

The CDRL Application Program reflects DD Form 1423 authorized data item requirements of the contract in the format shown on Figure 2-6. The data source is the ADL-FILE and the attributes addressed in loading and retrieval are as follows:

	ATTRIBUTE	DESCRIPTION
a)	ADL-FILE	Authorized data item number (AR 700-51)
b)	TITLE	Name of the data item
c)	SUB-TITLE	Sub-title of the data item, if any
d)	SCHED-DT	Predicted data submittal dates
e)	REC-DT	Actual date data is received at AMCPM-AFS(PMD)
f)	FREQ	Frequency of the data submittal
g)	APPR	An X indicates prior approval required
h)	SHIP-DOC	An X indicates a DD Form 250 is required
i)	ADRSEE-CODE	Coded agency symbol on the DD Form 1423
j)	DISTR	Quantity distributed to each agency
k)	TOT-DISTR	Total quantity distributed
l)	CONT-REF	Contract task reference for the data
m)	TECH-OFF-CODE	Office responsible for the data requirement
n)	IAC	An X indicates an integrating contractor must receive a copy
o)	AOD	As of date
p)	SUBQ-SUBM	Requirement for subsequent submittals
q)	FIRST-SUBM-DT	First date data is to be submitted
r)	REMARKS	(Self-explanatory)
s)	CONT-NO	Related contract which required the data
t)	CONTRACTOR	Contractor's name who supplies the data
u)	SYSTEM	Project name

The CDRL report is designed to show the relationship of the contractual requirements for prime contractor data and the status of the data submittals by the prime contractor as extracted from data entered into the ITDS.

The CDRL Report is formatted as shown in Figure 2-16, below.

	FIELD	DEFINITION
(a)	CONTRACTOR DATA REQUIREMENTS LIST	Preprogrammed report title
(b)	CONTRACT NUMBER	Contract number applicable
(c)	CONTRACTOR NAME	Contractor name
(d)	REPORT DATE	Computer generated report date
(e)	DATA ITEM NUMBER	Data item number
(f)	TITLE	Same as DD Form 1423 entry
(g)	SUBTITLE	Same as f , if assigned
(h)	CT-REF	Contract reference shown on DD Form 1423

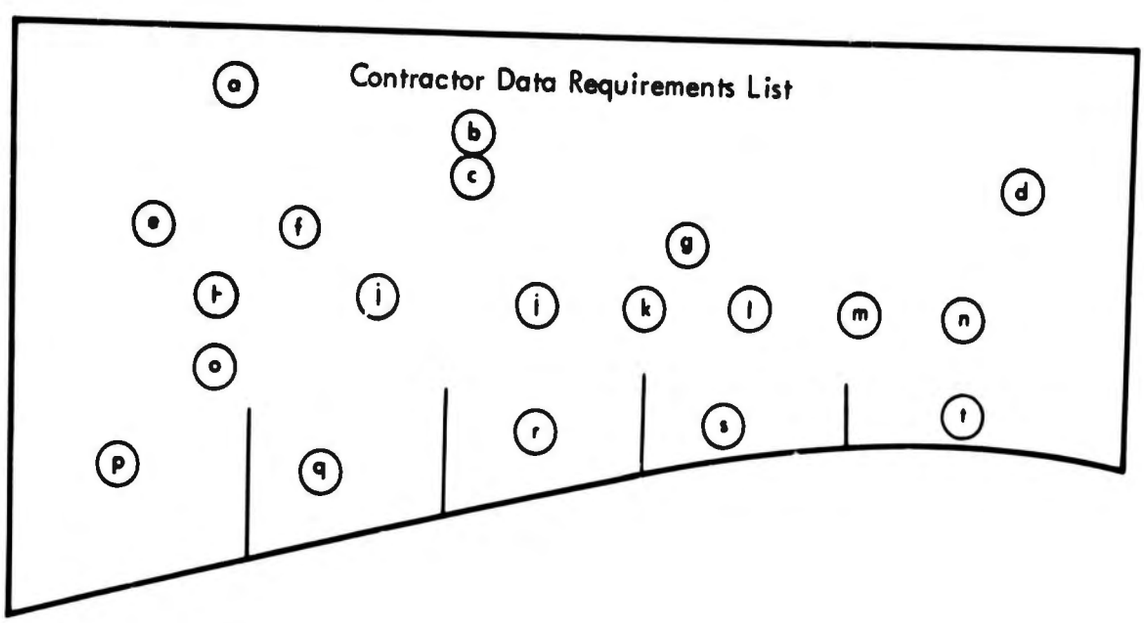


Figure 2-16. CDRL Report Report Format

	FIELD	DEFINITION
(i)	TECH OFFICE	Responsible office shown on DD Form 1423
(j)	DD 250	An X or leave blank per AR 700-51 instructions as recorded on DD Form 1423
(k)	APPR	Approval, per AR 700-51 instructions as recorded DD Form 1423
(l)	FREQ	Frequency of data submittal shown on DD Form 1423
(m)	IAC	An X or leave blank as recorded on DD Form 1423
(n)	AOD	As-of date shown on DD Form 1423
(o)	REMARKS	Remarks extracted from block No. 16 of DD Form 1423
(p)	ADDRESSEE	Office symbols or addressee codes identified on DD Form 1423
(q)	DISTR	Quantity of copies/reproducibles required for each addressee
(r)	TOTAL DIST	Total quantity required Computer generated quantity
(s)	SCHED DATE	Projections made by functional office as defined in Data Element Manual
(t)	RECD DATE	Actual receipt date extracted from PMO date stamp on submitted data

Figure 2-17 is an illustration of this report generated in support of the Cheyenne (AH-56A) Project while ITDS itself was under development.

CONTRACTOR DATA REQUIREMENTS LIST

AH-56A PROJECT
DAAE11-66-C-3667(N)
LOCKHEED CALIFORNIA COMPANY

REPORT DATE: 30 May 66

08-002(REV)
TITLE: DESIGN TEST PROGRAM — SUBTITLE: CONTRACTOR TEST PLAN

CT-REF: APPENDIX I — TECH OFFICE: AMCPM-AFS — DD250: — APPR: A — FREQ: ONE/R — IAC: — AOD: ASREQ

FIRST SUBM: 90 DAC — SUBQ SUBM:

REMARKS:

ADDRESSEE:	DISTR:	TOTAL DIST:	SCHED DATE:	RECD DATE:
AMCPM-AFS	6/0	11/0	21 Jun 66	21 Jun 66
AMSAV-EAS	1/0			
AMSEL-VL-S	3/0			
AMSEL-PP-EA	1/0			

13-009
TITLE: ACCIDENT PREVENTION SAFETY PROGRAM — SUBTITLE:

CT-REF: APPENDIX E — TECH OFFICE: USABAAR — DD250: — APPR: A — FREQ: ANNLY — IAC: — AOD: D

FIRST SUBM: 90 DAC — SUBQ SUBM: 30 Days after Receipt from Govt.

REMARKS:

ADDRESSEE:	DISTR:	TOTAL DIST:	SCHED DATE:	RECD DATE:
USABAAR-E	1/0	4/0	21 Jun 66	21 Jun 66
AMCPM-AFS	3/0		21 Jun 67	20 Jun 67
			21 Jun 68	19 Jun 68

Figure 2-17. Sample CDRL Report

2.1.4 Configuration Indices

The configuration indices in this section were designed to enable configuration identification, status accounting, and change management summary with detailed information for all management levels. Each of the reports cited below contains only those elements deemed necessary for configuration visibility while providing essential information for cross referencing between the reports. Because of the print space limitation on the configuration indices, collecting data required to answer particular questions may require reference to one or more configuration reports. For example, the contractual status of DCP's in the Description Index may be obtained by using the ECP Audit. From the ECP Audit Report, one would determine the date of authorization and the contract modification number authorizing the ECP that generated the DCP. If there is no modification number or contracting officer's letter number and date in the ECP Processing Audit for the said ECP, the DCP would not be authorized, with respect to the contract, as of the cutoff date shown on the report. In order to obtain the maximum benefit and utilization of the configuration indices, the user is strongly urged to become thoroughly familiar with the contents of each report.

2.1.4.1 CEI Configuration Index

The CEI Configuration Index provides a complete list of all of the configuration end items (CEI's) that make up the system. Corresponding part numbers, federal stock numbers, description/specification numbers, interface control drawing numbers, and technical manual numbers are shown as well as the nomenclature of the CEI, the commodity manager, and CEI position in terms of the life cycle. ECP's and MWO numbers, when executed, will be included in this index. This index is designed primarily as the key to other reports in the system.

The CEI Configuration Index interfaces with the following ITDS data base files:

a) PN-File

b) PBS-File

c) CONTRACT*MOD-File

d) DESC/SPEC-File

e) ECP-File

f) MWO-File

g) WAIVER-File

h) TECH-MAN-File

i) DWS-File

j) ICD-File

k) TST-Phase

l) REVIEW-TYPE-TBL

m) COM-CMD-TBL

The CEI Configuration Index is issued monthly. CEI's are listed alphanumerically in the index and other data will be listed in the order of its occurrence, as shown on Figure 2-18.

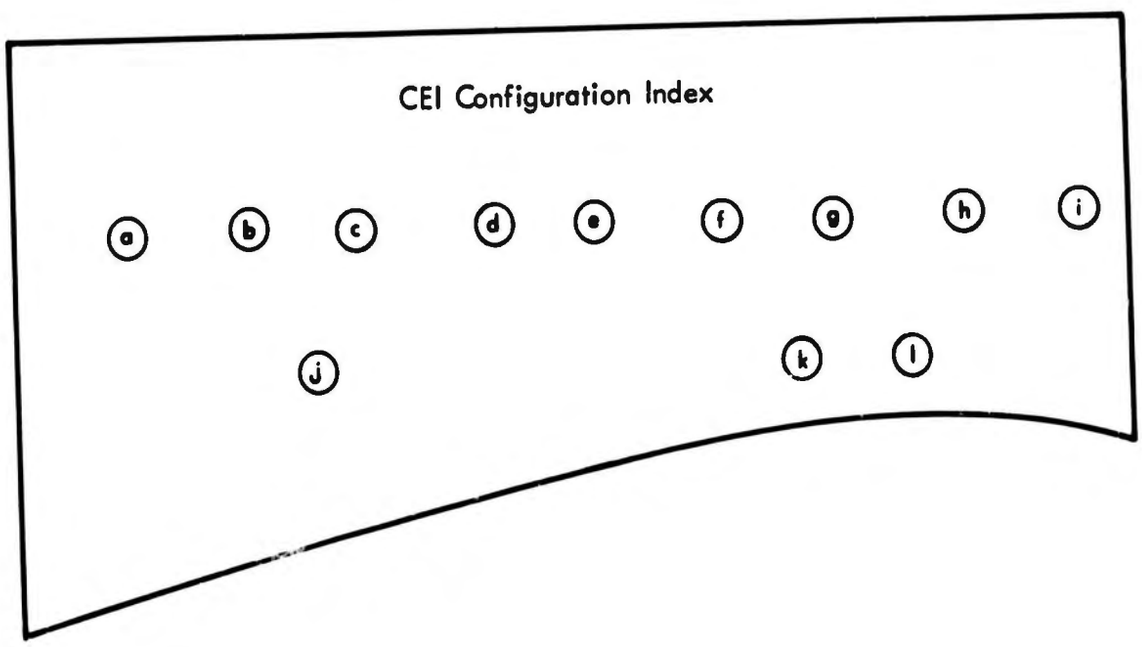


Figure 2-18. CEI Configuration Index Report Format

	FIELD	DEFINITION
(a)	CEI NO.	CEI number assigned to the configuration end item
(b)	PART NO.	Authorized part number or part numbers of the CEI
(c)	FED. STOCK NO.	Federal stock numbers of the CEI
(d)	DESCRIPTION/ SPECIFICATION	Description specification number under which the CEI's performance requirements are controlled
(e)	DRAWING NO.	Manufacturer's drawing number
(f)	ICD NO.	Interface control drawing numbers
(g)	TECHNICAL MANUAL NO.	Technical manual number for the CEI
(h)	COM MGR	Commodity manager who has technical cognizance of the CEI Ref AR 701-5 AMC - US Army Materiel Comd BD - USA MICOM/AMSMI-SC BF - USA WECOM/AMSWE-SMC CL - USA ECOM/AMSEL-MR/P-SC CT - USA AVSCOM/SMOSM-M
(j)	PRG PHS	Program Phase DEF - Definition OP - Operational DEV - Development DSP - Disposal LP - Limited Production PRD - Production
(k)	NOMENCLATURE	The official nomenclature in accordance with handbook H6-1
(l)	ECP NO.	ECP number(s) affecting the CEI
(i)	MOD WORK ORDER NO.	Modification Work Order (MWO) number assigned to the ECP

Figure 2-19 is an illustration of this report generated in support of the Cheyenne (AH-56A) Project while ITDS itself was under development.

CEI CONFIGURATION INDEX

PAGE NO. 1

CUTOFF 15 MARCH 1969

PROGRAM AH-56A
REPORT NO. AFS-CM-1

CEI NO.	PART NUMBER / TITLE	DESCRIPTION / SPECIFICATION	DRAWING NUMBER	I C D NUMBER	FED. STOCK NO.	ECP NUMBER	TECH. ORDER NO. / MOD.WORK ORDER NO.	COM. MGR.	PRG PHS
A178	835465	CR0054-3.114	835465	D026					
	DISPLAY MAP PLOTTER-PT489/ASQ104					AFS-041		CL	DEV
A179		CP0015	A179						
						(MOCKUP REV8)			
						AFS-024			
						AFS-040			
						AFS-041			
	PILOT'S HELMET SIGHT							BF	DEV
A180									
	100-4649	CR0054-3.109		D014	5826-705-2060				
					5826-226-6030				
						(MOCKUP REV10)			
	RECEIVER, GLIDE SLOPE/MARKER BEACON R-844( )/ARN58					AFS-041			
A183		CR0054-3.108		D020	5826-985-9170			CL	PRD
						(MOCKUP REV 11)			
	VOR/LOC RECEIVER AN/ARN-82					AFS-041			
A185	671055-101	CP0024	671055					CL	PRD
						(MOCKUP REV 10)			
	YAW AXIS STABILITY AUGMENTATION SYSTEM					AFS-041			
A186	097482-300	CR0054-3.070	097482	D009	5895-686-7626			CL	DEV
	ANTENNA AT-884/APX-44					AFS-041			
A187	671081-101	CP0028	671081					CL	PRD
						(MOCKUP REV 11)			
	DISTANCE MEASURING EQUIPMENT					AFS-041			
A188		CR0054-3.037						CL	DEV
	RECEIVER-TRANSMITTER RADAR APX-68 *** DELETED							CL	PRD

Figure 2-19. Sample CEI Configuration Index

2.1.4.2 ECP Index

The ECP Index identifies all the proposed engineering change proposals (ECP's) to the system. The ECP number and title, priority, category, the number of the CEI affected, the corresponding FSN, the affected description/specification number, the ICD number, part number, the effectivity of the change, the technical publications affected are shown; the authorization of the ECP (its modification and contracts numbers) is also cited on this index.

The ECP Index interfaces with the following ITDS data base files:

a) CONTRACT*MOD-File

b) MWO-File

c) DCN-File

d) CEI-File

e) DESC/SPEC-File

f) DWG-File

g) ICD-File

h) SCTY-CLASS-TBL

The ECP Index is issued on a monthly basis. The ECP Index will be used to establish the contractually authorized hardware and data configuration resulting from the approval of each ECP listed on this index. The ECP's will be listed alphanumerically. The output format is shown on Figure 2-20.

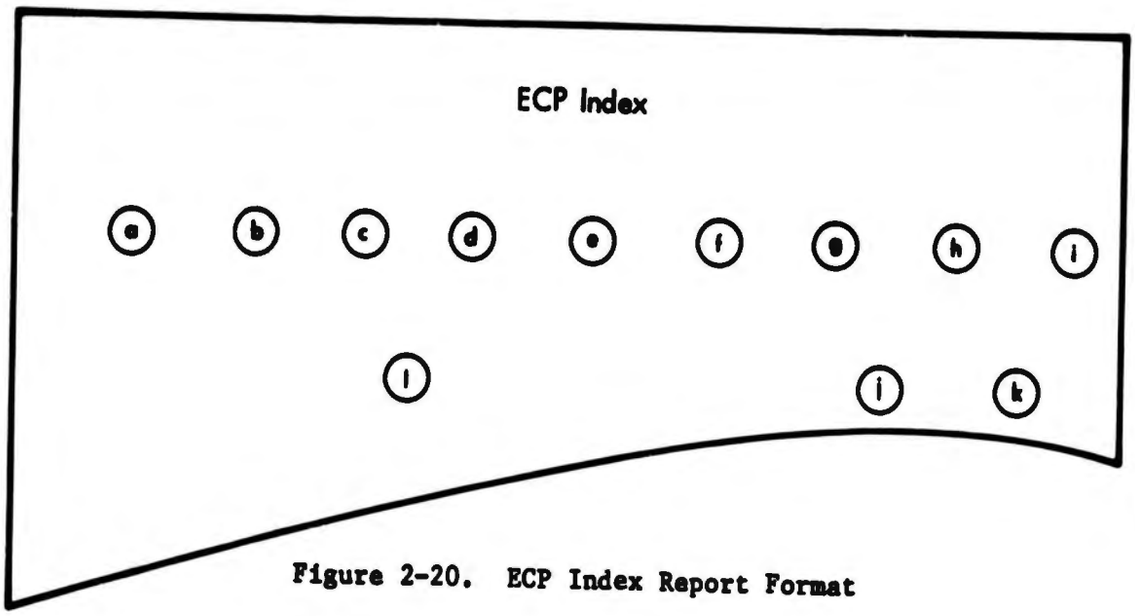


Figure 2-20. ECP Index Report Format

	FIELD	DEFINITION
(a)	ECP NO.	ECP number assigned by the contractor
(b)	PRI	Priority of the ECP E - Emergency U - Urgent R - Routine
(c)	CAT.	Change Category D - Design Deficiency C - Compatibility S - Safety P - Operational Requirements PS - Prod. Stoppage CR - Cost Reduction V - Value Engineering E - Editorial FA - FAA Required
(d)	CEI NO/FED STOCK NO.	Number of the CEI affected and its corresponding Federal stock number
(e)	DESCRIPTION/ SPECIFICATION	Description/Specification number under which the CEI's performance requirements are controlled
(f)	ICD NO.	Interface control drawing numbers under which the CEI's interfaces are controlled.
(g)	PART NO.	Part numbers affected by identified in the ECP.

	FIELD	DEFINITION
(h)	EFFECTIVITY	The effectivity of the change expressed in CEI serial numbers.
(i)	MOD NO.	The modification number which authorized implementation of the ECP, or the contracting officer's letter number (KO----------) which provides initial ECP approval or disapproval.
(j)	TECHNICAL PUBLICATIONS	The numbers of all technical publications affected by an ECP.
(k)	CONTRACT NO.	The numbers of the contracts on which the ECP is authorized.
(l)	TITLE	Title of the engineering change proposal.

Figure 2-21, is an illustration of this report generated in support of the Cheyenne (AH-56A) Project while ITDS itself was under development.

ECP INDEX

PAGE NO. 1

CUTOFF 15 MARCH 1969

PROGRAM AH-56A
REPORT NO. AFS-CM-5

ECP NUMBER	P R I O T	CEI NUMBER / FED. STOCK NO.	DESCRIPTION SPECIFICATION	ICD NUMBER	PART NUMBER	PROPOSED EFFECTIVITY FROM	THRU	TECH. PUBLICATIONS
		TITLE					MOD / CCN NO.	CONTRACT NUMBER
(MOCKUP REV01)	R E	C009	CE0010			66-8826	AND SUB	
			CE0012			66-8826	AND SUB	
			CE0034			66-8826	AND SUB	
			CE0036			66-8826	AND SUB	
			CE0037			66-8826	AND SUB	
			CP0001			66-8826	AND SUB	
			CP0004			C011-1001	AND SUB	
			CP0047			C040-1001	AND SUB	
			CR0054			66-8826	AND SUB	
			CR0054-3.016			66-8826	AND SUB	
			SS0001			66-8826	AND SUB	
		MOCKUP REVIEW*B5-6,13,16-19,30,32-36,38-41					P009	DAAE11-66-C-3667(H)
(MOCKUP REV02)	R E	C081	CE0036			66-8826	AND SUB	
		MOCKUP REVIEW ACTION ITEM *** A43					P009	DAAE11-66-C-3667(H)
(MOCKUP REV03)	R E	C071	CE0005			66-8826	AND SUB	
		MOCKUP REVIEW ACTION ITEM *** A71					P009	DAAE11-66-C-3667(H)
(MOCKUP REV04)	R E	C009	CP0001			66-8826	AND SUB	
			SS0001			66-8826	AND SUB	
		MOCKUP REVIEW*B5,9,13,16-19,30,32-36,38-40,C15					P009	DAAE11-66-C-3667(H)
(MOCKUP REV05)	R E	C019	CR0054-3.040			C019-1001	AND SUB	
		CHANGE FIRE RATE AND WEIGHT					P011	DAAE11-66-C-3667(H)
(MOCKUP REV06)	R E	C035	CP0034			C035-1001	AND SUB	
		MOCKUP REVIEW ACTION ITEM *** A64					P050	DAAE11-66-C-3667(H)
(MOCKUP REV07)	R E	C009	CP0001			66-8826	AND SUB	
		MOCKUP REVIEW ACTION ITEM *** A29					P050	DAAE11-66-C-3667(H)
(MOCKUP REV08)	R E	C009	CP0001			66-8826	AND SUB	
			CP0003			C010-1001	AND SUB	
			CP0004			C011-1001	AND SUB	
			CP0015			A179-1001	AND SUB	
			CP0034			C035-1001	AND SUB	

Figure 2-21. Sample ECP Index Report

2.1.4.3 Description/Specification Index/Status

The Description/Specification Index/Status identifies the description/specifications that define the technical requirements for the system. All of the changes to the listed description/specifications are recorded plus the effectivities of particular changes and any revision to description/specifications.

The Description/Specification Index/Status interfaces with the ECP file, ICD File, Waiver File, CEI-File, COM-CMD-TBL, SCTY-CLASS-TBL, STATUS-CODE-TBL, and DAI-File.

This index is available on a monthly basis. The descriptions/specifications will be listed alphanumerically. Figure 2-22 shows the output format.

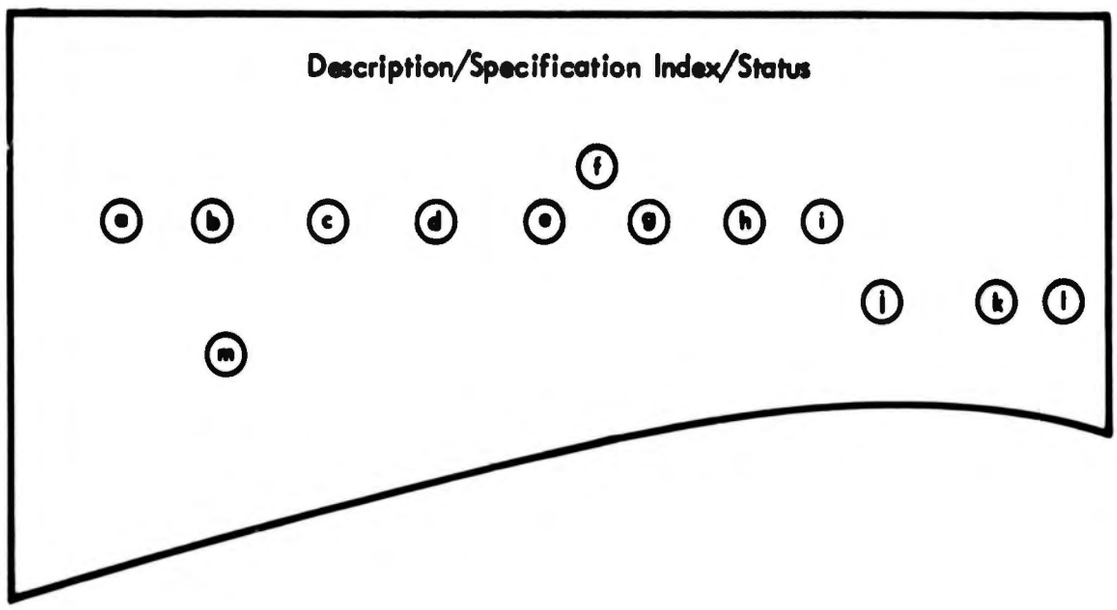


Figure 2-22. Description/Specification/Index/Status Report Format

	FIELD	DEFINITION
(a)	DESCRIPTION/ SPECIFICATION	Description/specification number under which the CEI's performance requirements are controlled
(b)	REL DATE	Date the description/specification was released
(c)	CEI NO./FED STOCK NO.	CEI/Federal stock numbers
(d)	COM MGR	Commodity manager who has technical cognizance over the CEI: AMC - US Army Materiel Comd BD - USA MICOM/AMSMI-SC BF - USA WECOM/AMSWE-SMC CL - USA ECOM/AMSEL-MR/P-SC CT - USA AVSCOM/SMOSM-M
(e)	SEC CL	Security classification: U - Unclassified C - Confidential S - Secret TS - Top Secret SRD - Secret Restricted Data
(f)	DCP NO.	Description change proposal number - the number assigned to the DCP which implemented the approved change proposal
(g)	DCP DATE	Description change proposal date
(h)	EFFECTIVITY	Serial number effectivity of the DCP
(i)	ECP NO.	ECP number which generated the DCP
(j)	REV LTR	Revision letter of the description/ specification
(k)	REV DATE	Date on which the revision of the description/specification was released
(l)	REVISED TO INCORP.	Identifies DCP numbers which are incorporated into the description/ specification by each revision
(m)	TITLE	Title of the description/specification

Figure 2-23 is an illustration of this report generated in support of the Cheyenne (AH-56A) Project while ITDS itself was under development.

DESCRIPTION AND SPECIFICATION INDEX/STATUS

CUTOFF 15 MARCH 1969

PROGRAM AH-56A
REPORT NO. AFS-CM-2

DESCRIPTION / SPECIFICATION	REL. DATE	CEI NUMBER/ FED. STOCK NO.	COM. MGR.	SEC. CL.	D CN PO	DCP DATE	..EFFECTIVITY.. FROM	THRU	ECP NUMBER	RL ET REV. VR DATE	REVISE TO INCORP.
	TITLE										
CD0014	660121	B374 4933-930-1957	BF	U					AFS-002 AFS-003		
					01	661005	B374-1001	AND SUB	(MOCKUP REV10)		
	TARGET SET, FIRE CONTROL HARMONIZATION										
CD0015	660121	B375	CT	U	01	680619	B375-1001	AND SUBS	AFS-017		
	KIT MOORING (NOT REQD FOR AH56-A)										
CD0018	660121	B377	CT	U							
	TOOL KIT - APU OVERHAUL										
CD0021	660121	C045	CT	C							
	IR SUPPRESSION KIT										
CD0022	660121	B379 1730-809-0302	CT	U					AFS-014R1		A 670711
	CRANE, MULTI-PURPOSE MAINTENANCE										
CD0025	660121	B382	CT	U	01	661005	B382-1001	AND SUB	(MOCKUP REV10)		
					02	670116	B382-1001	AND SUB	AFS-007		
	FUELING HOSE										
CD0028	660121	C015	CT	U							
		1560-106-2414							AFS-041		
		1560-106-2415							AFS-041		
	PYLON, WING, INBOARD										
CD0029	660121	B383	CT	U					AFS-016R1		A 670711
	SLING, AERIAL VEHICLE, COMPLETE										
CD0036	660121	B387	CT	U	01	661005	B387-1001	AND SUB	(MOCKUP REV10)		
	SLING, UNIVERSAL COMPONENT										
CD0043	660121	B388	CT	U					AFS-041		
	KIT, BLADE BALANCING ADAPTER										
CD0053	660121	C016 4933-987-9816	CT	U							
	KIT, ARMOR, 7.62 MM PROTECTION										

Figure 2-23. Sample Description and Specification Index/Status Report

2.1.4.4 ICWG Action Status

The ICWG Action Status lists all of the action items generated at and ICWG (Interface Control Working Group) meeting. It is the purpose of the ICWG Action Status to permit tracking and monitoring of all cited action items from start to completion. The ICWG Action Status contains the action items identified by action item numbers and title date, revision letter and date, the priority of the action item, the ICD affected, CEI/FSN affected, and ECP number. Each item is further identified by tasks, agency responsible for completion, scheduled completion date, and actual date completed.

This report interfaces with the ICD-File, ECP-File, DAI-File, and ICWG-NO-File.

The frequency of this report is monthly. An exception report may be created whenever completion of an action is delinquent. Figure 2-24 shows the output format.

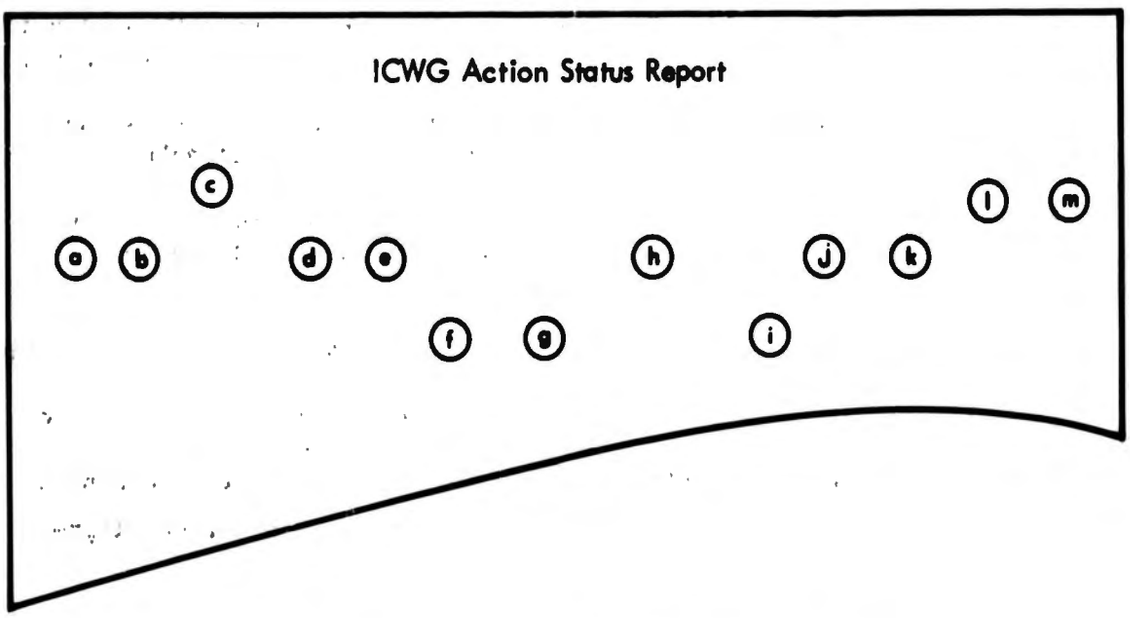


Figure 2-24. Interface Control Working Group Action Status Report Format

	FIELD	DEFINITION
(a)	ACTION ITEM NUMBER	ICWG action item number assigned by the chairman of ICWG
(b)	DATE	Date of the original issue of the action item number
(c)	REV LTR	Current revision letter to the action item number
(d)	REV DATE	Date of the latest ICWG action revision
(e)	ORIG CODE	Originator of the action item
(f)	PRIORITY	Priority of the action item (routine, urgent, emergency)
(g)	ICD AFFECTED	Interface control drawings affected by the action item
(h)	CEI/FSN AFFECTED	Configuration end item/Federal stock number affected by the action item
(i)	ECP NUMBER	Engineering change proposals generated by the ICWG action
(j)	TASK NUMBER	Task No. - subtask to the ICWG action to be accomplished by a responsible agency
(k)	RESPON AGENCY	Agency responsible for accomplishing designated action item subtasks
(l)	SCHED COMPL DATE	Scheduled completion date - the date action items are scheduled to be accomplished
(m)	ACTUAL COMPL DATE	Actual completion date of the action item
(n)	TITLE	Title of the action item

Figure 2-25, is an illustration of this report generated in support of the Cheyenne (AH-56A) Project while ITDS itself was under development.

ICWG ACTION STATUS

PAGE NO. 1
PROGRAM AH-56A
REPORT NO. AFS-CM-8

CUTOFF 15 MARCH 1969

ACTION ITEM NUMBER	DATE / TITLE	REV. LTR.	REV. DATE	ORIG. CODE	PRIORITY	ICD AFFECTED	CEI/FSN AFFECTED	TASK NO.	RESPON AGENCY	SCHED. COMPL. DATE	ECP NUMBER	ACTUAL COMPL. DATE
X001-DMO-0017	660708			AFS-PM	ROUTINE		A205 C009 C012 C025	001	CALAC	660930		650915
	ICD TOW/AAFSS											
0001-DMO-0343	670718			AFS-PM	ROUTINE		A194	001	ECOM			
	LOHAP-AN/ARN 89 (PEDM) TEST DATA REQUIREMENT											
0002-DMO-0343	670718			AFS-PM	ROUTINE		A194	001	ECOM	670801		670801
	LOHAP-AN/ARN 89 OUTLINE DRAWINGS REQUIREMENT											
0003-DMO-0343	670718			AFS-PM	ROUTINE		A191 A192 A194 A195	001	ECOM	670804		670912
	SYLVANIA (LOHAP) QUARTERLY REPORT (AUGUST) REQMT											
0004-DMO-0343	670718			AFS-PM	ROUTINE		A191	001	ECOM	670815		670801
	FLIGHT RELEASE-AN/ARC 114 ECOM TO RELEASE											
0005-DMO-0343	670718			AFS-PM	ROUTINE		A191 A192 A194 A195	001	ECOM	670815		670720
	VALIDATION OF (LOHAP) DOC LD-D-1420 REV D											
0006-DMO-0343	670718			AFS-PM	ROUTINE		A191 A192 A194 A195	001	ECOM	680301		
	TECH MANUALS-LOHAP-ENG DEV MODELS REQMTS											
0007-DMO-0343	670718			AFS-PM	ROUTINE		A194	001	ECOM			670313
	LOHAP COMM SETS-EDM OUTLINE DWGS REQMT											
0008-DMO-0343	670718			AFS-PM	ROUTINE		A191 A192 A194 A195	001	ECOM			
	COMMUNICATIONS SYSTEM OUTY CYCLE REQUIREMENTS											

Figure 2-25. Sample ICWG Action Status Report

2.1.4.5 ECP Processing Audit

This report provides the capability to determine the status of any ECP that has been submitted and is relevant to the system. Using this report one can monitor the processing of engineering changes per the AMCR 11-26 requirement.

The ECPs are listed alphanumerically.

This report is created from data existing in the ECP file. The choice of attributes and structure of the report is designed for easy reference to fulfill its intended use.

The report will be in accordance with Figure 2-26, with respect to output format.

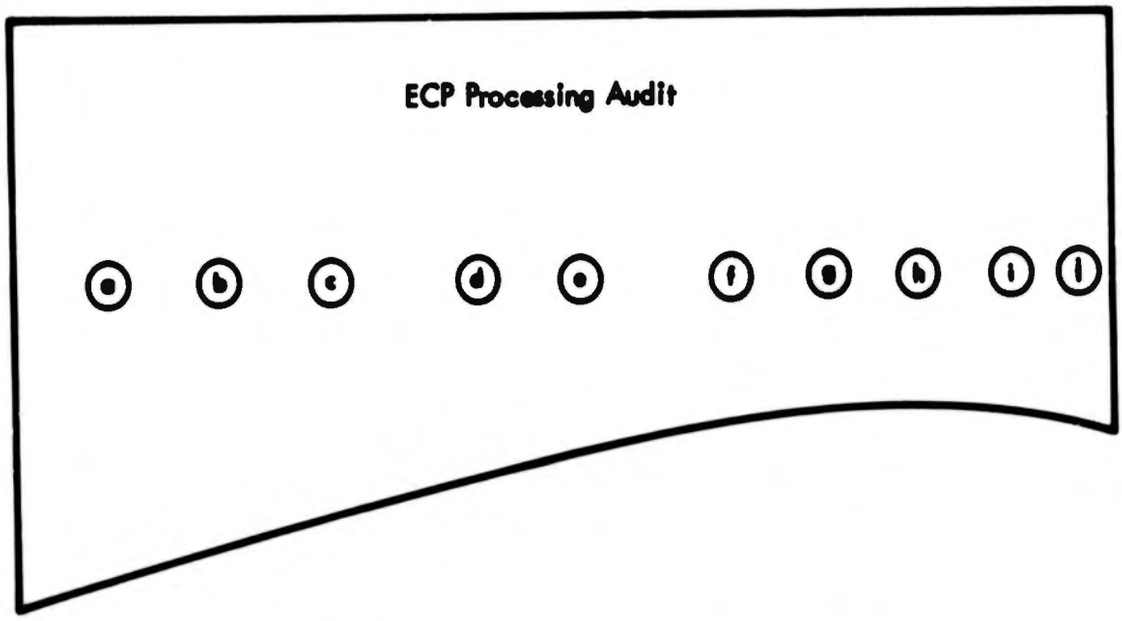


Figure 2-26. ECP Processing Audit Report Format

	FIELD	DEFINITION
(a)	ECP NUMBER	Engineering change proposal number and mandatory/arbitrary codes assigned to each engineering change for control purposes
(b)	CEI NUMBER	Configuration end item number
(c)	SUBMIT DATE	Submittal date of the ECP
(d)	CCB DISPOS.	Configuration Control Board disposition of the ECP
(e)	CCBD DATE	Date of Configuration Control Board directive
(f)	MOD DATE	Date of the contract modification contracting officer's letter which provides contractual disposition for the mod
(g)	MOD NUMBER	The control number of the contract modification or contracting officer's letter which provides contractual disposition for the mod
(h)	SUBMIT TO CCBD	Elapsed days from submittal of ECP to Configuration Control Board Directive (CCBD)
(i)	CCBD TO MOD	Elapsed days from CCBD to contract modification
(j)	SUBMIT TO MOD	Elapsed days from submittal of ECP to contract modification.

Figure 2-27 is an illustration of this report generated in support of the Cheyenne (AH-56A) Project while ITDS itself was under development.

CUTOFF 15 MARCH 1969 — ECP/WAIVER PROCESSING AUDIT — PAGE NO. 1

PROGRAM AH-56A
REPORT NO. AFS-CM-9

ECP DESIGNATOR/ WAIVER NUMBER	CEI NUMBER / FED. STOCK NO.	SUBMIT DATE	CCB DISPOS.	NOR/ CCBD DATE	MOD/ CCN DATE	MOD/ CCN NUMBER	..... ELAPSED DAYS FROM ..... SUBMIT TO CCBD/NOR	CCBD/NOR TO CCN/MOD	SUBMIT TO CCN/MOD
(MOCKUP REV01)	C009	660610	APPR	660727	670630	P009	47	338	385
(MOCKUP REV02)	C081	660610	APPR	661004	670630	P009	116	269	385
(MOCKUP REV03)	C071	660610	APPR	661005	670630	P009	117	268	385
(MOCKUP REV04)	C009	660610	APPR	661024	670630	P009	136	249	385
(MOCKUP REV05)	C019	660718	APPR	660819	661007	P011	32	49	81
(MOCKUP REV06)	C035	660610	APPR	661005	680109	P050	117	461	578
(MOCKUP REV07)	C009	660610	APPR	661202	680109	P050	176	402	578
(MOCKUP REV08)	C009	660610	APPR	670525	680109	P050	349	229	578
(MOCKUP REV09)	C009	660610	APPR	661025	670202	P020	137	100	237
(MOCKUP REV10)	C009	660610	APPR	661005	680109	P015	117	461	578
(MOCKUP REV11)	C009	660610	APPR	661018	680109	P015	130	448	578
(MOCKUP REV12)	C081	660610	APPR	661025	680220	P019	137	483	620
(MOCKUP REV13)		660610	APPR	661202	680220	P019	176	444	620
(MOCKUP REV14)	C073	660610	APPR	661208	680220	P019	182	438	620
(MOCKUP REV15)	C009	660610	APPR	661005	680109	P015	117	461	578
(MOCKUP REV16)	C009	660610	APPR	661005	680220	P019	117	503	620
(MOCKUP REV17)	A227	660610	APPR	661018	680220	P019	130	490	620
(MOCKUP REV18)	C009	660610	APPR	680116	680213	P101	585	28	613
AFS-001	A188	660920	APPR	661025			35		
AFS-001-C1	A188	661004	APPR	661222	670123	P018	80	31	111
AFS-002	C019	661010	DISP	661108	661122	K0199	29	14	43
AFS-003	C035	661010	DISP	661108	661122	K0199	29	14	43
AFS-004	C019	670804							
AFS-004-R1	C019	680103							
AFS-004-R1C1	C019	680326							
AFS-004-R1C2	C019	680723							
AFS-005		661213	DISP	670125	670320	K0343	42	54	96
AFS-005-R1		670828	APPR	671102	671204	P072	66	33	99
AFS-006		661123	APPR	670126	670217	P027	64	22	86
AFS-007	B382	661201	APPR	670116	670217	P040	45	32	77
AFS-008	C038	661109	APPR	670206	670217	P040	89	11	100
AFS-009(ASSIGN)									
AFS-010	C009	661212	APPR	670110	670302	P040	28	51	79
AFS-011(PRELIM)	C081	680417	DISP	680625			69		
AFS-012	C009	661230	APPR	670314	670329	P029	73	15	88
AFS-013	C037	670216	APPR	670515	670606	P066	88	22	110
AFS-014	B379	670120	DISP	670413			83		
AFS-014-R1	B379	670614	APPR	670711	671103	P036	27	115	142
AFS-015	B446	670124	APPR	670711	671103	P063	168	115	283
AFS-016	B387	670126	DISP	670413			77		
AFS-016-R1	B387	670614	APPR	670711	671103	P061	27	115	142

Figure 2-27. Sample ECP/Waiver Processing Audit Report

2.1.4.6 Technical Publication Index/Status

The Technical Publication Index/Status provides the capability of identifying and statusing the technical publication - - i.e., technical manuals, training manuals, operator's handbook, etc. that are applicable to the system. It provides a record of all changes and revisions to each publication listed. The report contains technical publication numbers, related CEI and FSNs, related-date ECP and MWO numbers, change schedule-proposed and actual, revision letters plus dates and titles.

This report interfaces with the ECP File, MWO-File, Waiver-File, and CEI File.

The output format is as shown on Figure 2-28. The report is produced monthly and publications will be listed alphanumerically in this report.

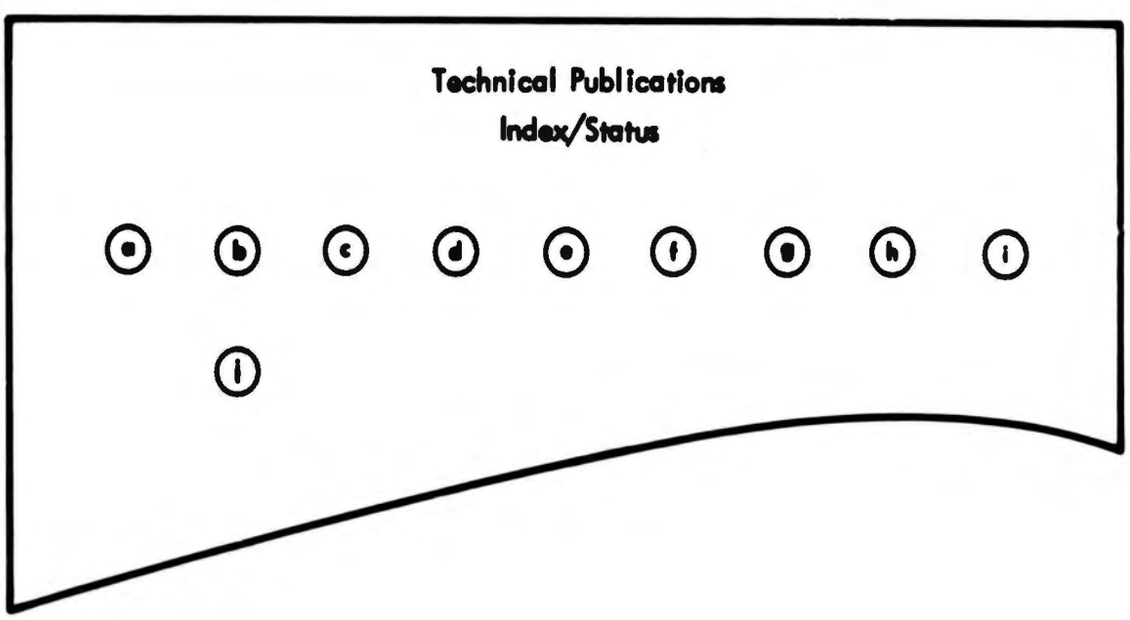


Figure 2-28. Technical Publications Index/Status Report Format

	FIELD	DEFINITION
(a)	PUBLICATION NUMBER	Number of the technical publication PM's TM's LO's etc.
(b)	CEI NUMBER/FED STOCK NO.	CEI number or Federal Stock Number of the affected configuration end item
(c)	REL DATE	Released date of the publication
(d)	ECP NUMBER	Engineering change proposal number
(e)	MOD WORK ORDER NO.	Modification work order number (MWO) assigned to the ECP ---- Change Pages ----
(f)	SCHEDULE REL DATE	Schedule release date which incorporated provisions of the ECP into the publication
(g)	ACTUAL REL DATE	Actual release date which incorporates provisions of the ECP into the publication
(h)	REV LTR	Revision letter of publication
(i)	REV DATE	Date of the publication
(j)	TITLE	Title of the publication

Figure 2-29 is an illustration of this report generated in support of the Cheyenne (AH-56A) Project while ITDS itself was under development.

TECHNICAL PUBLICATION AND REVISION STATUS PAGE NO. 1

PROGRAM AH-56A
REPORT NO. AFS-CM-10

CUTOFF 15 DECEMBER 1968

PUBLICATION NUMBER	CEI NUMBER/ FED.STOCK NO.	REL. DATE	ECP NUMBER	TECH.ORDER NO./ MOD.WORK ORDER NO.	...CHANGE SCHEDULE REL.DATE	PAGE... ACTUAL REL.DATE
	TITLE					
P/ML01000-251-12	C010 LUB ORDER XM53,XM52,XM51, AND S AND F CONTROL					
P/M1000-251-ESC	C010 ESC XM53, XM52, XM51, AND S AND F CONTROL					
P/M1000-251-12	C010 POMM, XM53, XM52, XM51, AND S AND F CONTROL					
P/M1000-251-20P	C010 POMM OP RPSTL XM53, XM52, XM51, AND S AND F CONTROL					
P/M1000-251-35	C010 POMM DS,GS,AND D XM53,XM52,XM51 AND S AND F CONTROL					
P/M1000-251-35P	C010 POMM DS,GS,D, RPSTL XM53,XM52,XM51 AND S AND F CONTROL					
P/M11-1520-222-20	AH-56A ORG'L MAINT MANUAL AH-56A AIRCRAFT AVIONICS SYS					
P/M11-1520-222-20P	AH-56A ORG'L RPSTL AH-56A AIRCRAFT AVIONICS SYS					

Figure 2-29. Sample Technical Publication and Revision Status Report

PROGRAM AH-56A
REPORT NO. AFS-CM-10

CUTOFF 15 DECEMBER 1968

PUBLICATION NUMBER	CEI NUMBER/ FED.STOCK NO.	REL. DATE	ECP NUMBER	TECH.ORDER NO./ MOD.WORK ORDER NO.	...CHANGE SCHEDULE REL.DATE	PAGE... ACTUAL REL.DATE
	TITLE					
P/M11-1520-222-35	AH-56A DS,GS,AND D MAINT MANUAL AH-56A A/C AVIONICS SYS					
P/M11-1520-222-35P	AH-56A DS,GS,AND D RPSTL AH-56A A/C AVIONICS SYS					
P/M11-4920-291-24	C083 ORG'L MAINT MANUAL,FAULT LOCATION AND WARNING SYS					
P/M11-4920-291-24P	C083 ORG'L RPSTL FAULT LOCATION AND WARNING SYS					
P/M11-5826-236-24	A187 ORG'L MAINT MANUAL,NAV SET,RADIO AN/ARN( )(DME)					
P/M11-5826-236-24P	A187 ORG'L RPSTL NAV SET,RADIO AN/ARN( )(DME)					
P/M11-5831-203-24	C079 ORG'L MAINT MANUAL,CONTROL,INTERCOM C-( )/AIC					

Figure 2-29. Sample Technical Publication and Revision Status Report (Continued)

2.1.4.7 Drawing Index/Status

The Drawing Index/Status, issued monthly, is capable of being used as the official source to determine the current issue and change to each engineering drawing for the system. This report will contain all of the engineering drawings, listed alphanumerically, down to the maintenance critical item level. Changes, including effectivities, will be reported against these cited drawings.

The Drawing Index/Status will interface with the following data files:

CEI-File, COM-CMD-TBL, DWG-File, SCTY-CLASS-TBL, ECP-File, WAIVER-File, and ICD-File.

The output format is shown on Figure 2-30.

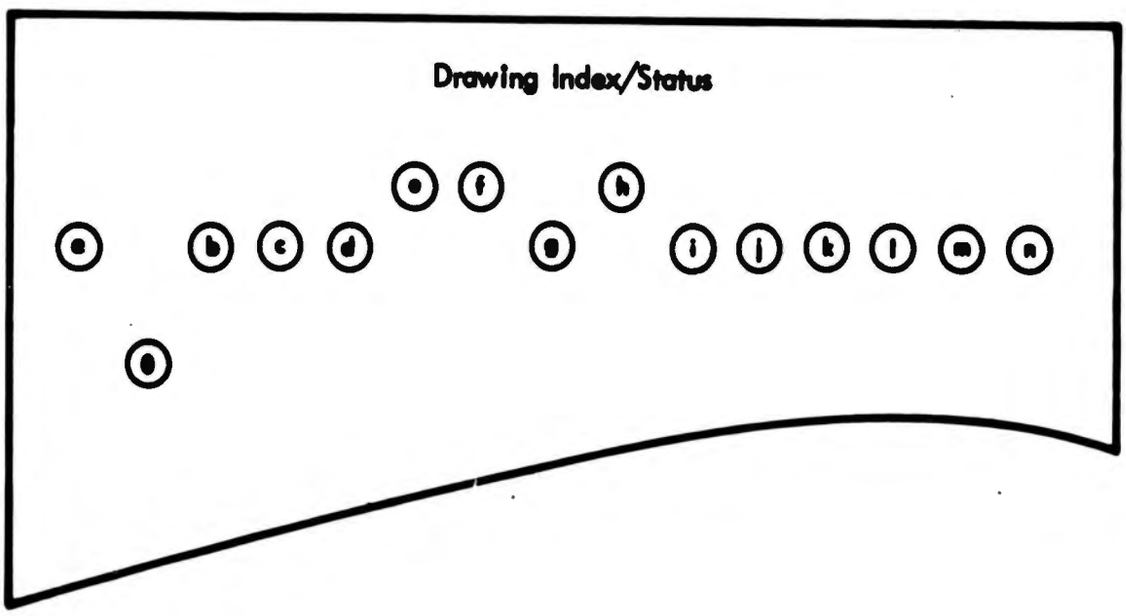


Figure 2-30. Drawing Index/Status Report Format

	FIELD	DEFINITION
(a)	DRAWING NUMBER	Manufacturers drawing number
(b)	REL DATE	Release date of the basic drawing
(c)	CEI NO./FED STOCK NO.	Configuration end item number/Federal Stock number of the item identified by the drawing
(d)	CODE IDENT	Manufacturers code identification in accordance with H4-1
(e)	CAT.	Drawing category in accordance with MIL-D-1000 CAT. A - Design Evaluation CAT. B - Interface Control CAT. C - Service Test CAT. D - Logistic Support CAT. E - Procurement (Identical Items) CAT. F - Procurement (Interchangeable Items) CAT. G - Installation CAT. H - Maintenance CAT. I - Government Manufacture CAT. J - Interchangeability
(f)	FORM	Drawing for in accordance with MIL-D-1000 Form 1 - Drawings to military standards Form 2 - Drawings to industry standards (partial MIL controls) Form 3 - Drawings to industry standards (minimum MIL controls)
(g)	SEC CL	Security Classification U - Unclassified C - Confidential S - Secret TS - Top Secret SRD - Secret Restricted Data
(h)	ENGR. CHANGE NUMBER	Engineering change number (EO) number
(i)	CHANGE DATE	Release date of change (EO) 661204 (year) (month) (day)
(j)	EFFECTIVITY FROM-THRU	Effectivity From Thru Serial number effectivity of the engineering change (EO) number

	FIELD	DEFINITION
(k)	ECP NO.	Engineering change proposal which generated the engineering change to the drawing when applicable
(l)	REV LTR	Revision letter of the drawing
(m)	REV DATE	Date the drawing revision was released
(n)	REVISED TO INCORP	Revised to incorporate engineering change numbers (EOs) into drawing revision letter
(o)	TITLE	Title of the drawing

Figure 2-31, is an illustration of this report generated in support of the Cheyenne (AH-56A) Project while ITDS itself was under development.

DRAWING INDEX/STATUS

PROGRAM AH-56A
REPORT NO. AFS-CM-3

CUTOFF

DRAWING NUMBER	REL DATE	CEI NO. FED STOCK NO.	CODE IDENT	CAT	FORM	SEC CL	ENGR. CHANGE NUMBER	CHANGE DATE	EFFECTIVITY FROM	EFFECTIVITY THRU	ECP NO.	REV LTR	REV DATE	REVISED TO INCORP.
	TITLE										AHA DRAWING NO.			
670913	660601	C035	36659	A	3	U	670913-1	660615	C035-1001	& SUB		A	660715	670913-1
							670913-2	660701	C035-1001	C035-1001				670913-2
							670913A-1	660902	C035-1001	& SUB				
	AREA FIRE SYSTEM, 30MM, XM-140										AFS-105			

Figure 2-31. Sample Drawing Index/Status Report

2.1.4.8 ICD Index/Status

The ICD Index/Status provides a list of all the Category B (MIL-D-1000) control drawings and interface control documents used on the system program. A record of all changes to the cited ICDs is shown by this report. This report is the official source for identifying the current issue and changes to each ICD. The ICDs are listed alphanumerically. The date of the ICD, associated CEI and FSN, related description/specification, affected drawing's change number and date, corresponding ECP number revision letter and date, and the title of the ICD are shown on this report.

The index interfaces with the following data files:

DESC/SPEC-FILE, DWG-FILE, SCTY-CLASS-TBL, CEI-FILE, ICWG-NO-FILE, and ECP FILE.

The output format will be as shown on Figure 2-32. This report is issued on a monthly basis.

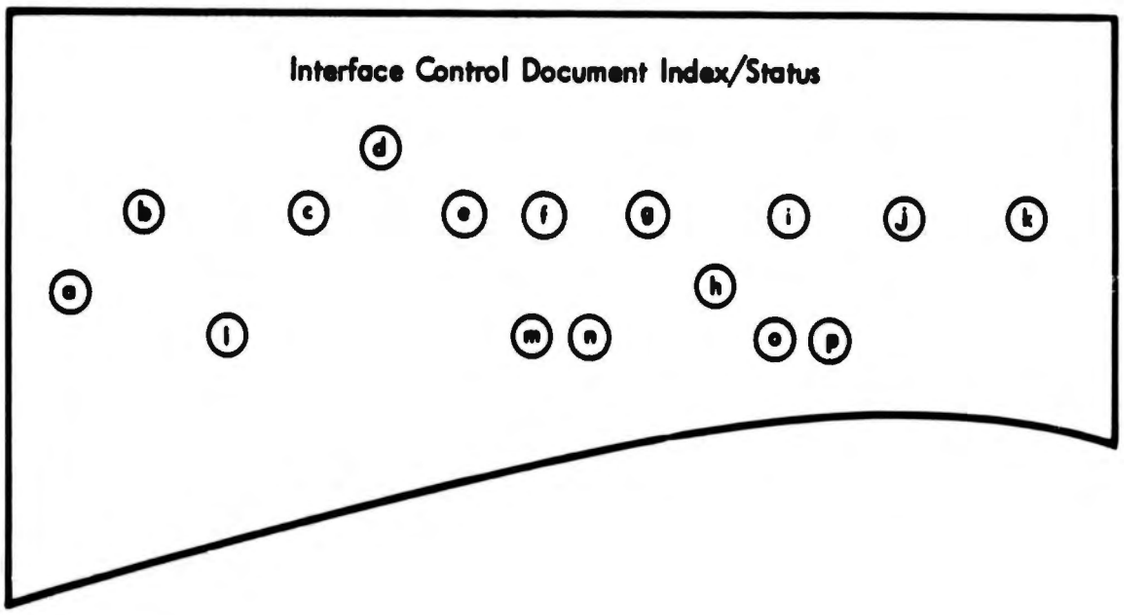


Figure 2-32. Interface Control Document Index/Status Report Format

	FIELD	DEFINITION
(a)	ICD NUMBER	Interface control document numbers.
(b)	REL DATE	Release date of the ICD (YYMMDD).
(c)	CEI NUMBER/FED STOCK NO.	CEI number assigned to the configuration end item/Federal stock number of the item.
(d)	AFFECTED DESCRIPTION/ SPECIFICATIONS	Description/specification number(s) which are constrained by the ICD.
(e)	AFFECTED DRAWING NUMBERS	Manufacturers' drawing numbers which are constrained by ICD.
(f)	ICD CHANGE NUMBER	The number assigned to AM ICD as a result of approved ECP.
(g)	CHANGE DATE	Date of the ICD change number.
(h)	ECP NUMBER	ECP number assigned by the contractor which generated the ICD change.
(i)	REV LTR	Revision letter of the latest ICD
(j)	REV DATE	Date on which the revised ICD was released
(k)	REVISE TO INCORPORATE	Revised to incorporate Identified ICD changes incorporated by the latest ICD revision letter
(l)	TITLE	Title of the interface control document
(m)	ICD NUMBER	IC drawing which is physically part of the ICD
(n)	REV LTR	Revision letter of the IC drawing
(o)	PRODUCT DRAWING NO. REFERENCED	Product drawing number referenced on each interface drawing
(p)	PRODUCT DESCRIPTION/ SPECIFICATION REFERENCED	Product description/specification referenced on each interface drawing

Figure 2-33 is an illustration of this report generated in support of the Cheyenne (AH-56A) Project whilte ITDS itself was under development.

ICD INDEX

PAGE NO. 1

PROGRAM AH-56A
REPORT NO. AFS-CM-4

CUTOFF 15 MARCH 1969

ICD NUMBER	REL. DATE	CEI NUMBER/ FED.STOCK NO.	DESCRIPTION/ SPECIFICATIONS	DRAWING NUMBERS	SEC CL.	ICD CHANGE NUMBER	CHANGE DATE	ECP NUMBER	RL ET VR	REV. DATE	REVISE TO INCORP.
	TITLE										
D001		B393	CR0054-3.002	880019	U						
	BOMB HOIST, AERO 14C AND AIRCRAFT, AH-56A ICD										
D002		B396	CR0054-3.005	880022	U						
	TOW BAR, AND AIRCRAFT, AH-56A ICD										
D003		B413	CR0054-3.026	880021	U						
	JACK, HYDRAULIC, HAND AND AIRCRAFT, AH-56A ICD										
D004		B419	CR0054-3.027	880020	U						
	JACK, HYDRAULIC, TRIPOD AND AIRCRAFT, AH-56A ICD										
D005		A199	CR0054-3.063	880045	U						
		A199		880047							
		A199		880051							
	HF/SSB ARC-102-REC./XMTR RADIO SET CEI A199 TO AH-56A ICD										
D006		A200	CR0054-3.069	880048	U						
		A200		880050							
	MARKER BEACON ANTENNA CEI A200 TO AH-56A ICD										
D007		C020	CR0054-3.041	880023	U						
		C020		880024							
		C012	CP0016								
		C014	CD0066								
		C015	CDCC28								
		C024	CD0067								
	RACK, AERO 65A1 TO AH-56A AERIAL VEHICLE, ICD REQUIREMENTS										

Figure 2-33. Sample ICD Index Report

ICD NUMBER	REL. DATE	CEI NUMBER/ FED.STOCK NO.	DESCRIPTION/ SPECIFICATIONS	DRAWING NUMBERS	SEC CL.	ICD CHANGE NUMBER	CHANGE DATE	ECP NUMBER	RL ET VR	REV. DATE	REVISE TO INCORP.
	TITLE										
D008		C037	CR0054-3.094	880025	U						
		C037		880026							
		C037		880027							
		C037		880028							
		C037		880029							
		C037		880030							
		C037		880031							
		C037		880032							
		C037		880033							
		C037		880034							
		C037		880035							
		C037		880036							
		C037		880037							
		C037		880038							
		C037		880040							
		C009	CP0001								

Figure 2-33. Sample ICD Index Report (Continued)

2.1.4.9 Master Drawing List by WBS

The Master Drawing List by WBS provides a report of all drawings stored in the ITDS Data Bank and their relationship to the work breakdown structure. The report delineates the following data for each drawing:

a) Applicable subsystem and WBS number

b) CEI number of subsystem

c) WBS number associated with drawing

d) Nomenclature of drawing

e) Current revision letter

f) Security classification

g) Government Rights and drawing data

h) Manufacturers Code as defined in Handbook H4

The drawings are listed in WBS numeric sequence with drawings, within a single WBS number, listed in alphameric sequence. The drawing sort by WBS allows an interested party to obtain drawing data related to a specific subsystem directly.

Figure 2-34, is an illustration of this report generated in support of the Cheyenne (AH-56A) Project while ITDS itself was under development.

WBS NUMBER	DRAWING NUMBER	NOMENCLATURE	RL ET VR	S C	P T S	FSCM
1111110	1001472	COVER, APU, RIGHT ANGLE DRIVE		N	U	36659
1111110	1001472	COVER ASSY, APU RIGHT ANGLE DRIVE, LOWER	A	N	U	36659
1111110	1001472	COVER ASSY, APU RIGHT ANGLE DRIVE, LOWER	B	N	U	36659
1111110	1001473	SHAFT, OUTPUT, APU		N	U	36659
1111110	1001473	SHAFT, OUTPUT, APU	A	N	U	36659
1111110	1001473	SHAFT, OUTPUT, APU	B	N	U	36659
1111110	1001473	SHAFT, OUTPUT, APU	C	N	U	36659
1111110	1001473	SHAFT, OUTPUT, APU	D	N	U	36659
1111110	1001473	SHAFT, OUTPUT, APU		N	U	36659
1111110	1001475	LINER, BEARING OUTPUT SHAFT	A	N	U	36659
1111110	1001475	LINER, BEARING OUTPUT SHAFT		N	U	36659
1111110	1001476	COVER-BEARING ASSY OF OUTPUT-UPPER-APU	A	N	U	36659
1111110	1001476	COVER-BEARING, OUTPUT-UPPER-APU	B	N	U	36659
1111110	1001476	COVER-BEARING, OUTPUT-UPPER-APU	C	N	U	36659
1111110	1001476	COVER-BEARING, OUTPUT-UPPER-APU		N	U	36659
1111110	1001477	LINER, BEARING-LOWER APU	A	N	U	36659
1111110	1001477	LINER, BEARING-LOWER APU	B	N	U	36659
1111110	1001477	LINER, BEARING-LOWER APU		N	U	36659
1111110	1001478	SHROUD, OIL PUMP, LOWER	A	N	U	36659
1111110	1001478	SHROUD, OIL PUMP, LOWER	B	N	U	36659
1111110	1001478	SHROUD, OIL PUMP, LOWER	C	N	U	36659
1111110	1001478	SHROUD, OIL PUMP, LOWER		N	U	36659
1111110	1001479	SHROUD, UPPER OUTPUT SHAFT	A	N	U	36659
1111110	1001479	SHROUD, UPPER OUTPUT SHAFT	B	N	U	36659
1111110	1001479	SHROUD, UPPER OUTPUT SHAFT		N	U	36659
1111110	1001480	RETAINER, BEARING-LOWER, ASSY OF	A	N	U	36659
1111110	1001480	RETAINER, BEARING-LOWER	B	N	U	36659
1111110	1001480	RETAINER, BEARING-LOWER	C	N	U	36659
1111110	1001480	RETAINER, BEARING-LOWER				

Figure 2-34. Sample Master Drawing List by WBS

WBS NUMBER	DRAWING NUMBER	NOMENCLATURE	RL ET VR	S C	P T S	FSCM
1111110	1001481	COVER, BEARING, OUTPUT SHAFT SUPPORT		N	U	36659
1111110	1001481	COVER, BEARING, OUTPUT SHAFT SUPPORT	A	N	U	36659
1111110	1001481	COVER, BEARING, OUTPUT SHAFT SUPPORT	B	N	U	36659
1111110	1001482	SHIM, LAMINATED, PINION, SPIRAL BEVEL, A.P.U.		N	U	36659
1111110	1001483	SLEEVE, WEAR, OIL SEAL APU OUTPUT SHAFT		N	U	36659
1111110	1001483	SLEEVE, WEAR, OILSEAL APU OUTPUT SHAFT	A	N	U	36659
1111110	1001483	SLEEVE, WEAR, OIL SEAL APU OUTPUT SHAFT	B	N	U	36659
1111110	1001484	PIN, APU CLUTCH		N	U	36659
1111110	1001484	PIN, APU CLUTCH	A	N	U	36659
1111110	1001487	TUBE-OIL DISCHARGE A.P.U.		N	U	36659

Figure 2-34. Sample Master Drawing List by WBS (Continued)

2.2 SYSTEM ENGINEERING

2.3 ENGINEERING DESIGN

The above paragraphs are allocated for future use when the need arises for applications programs for the system engineering and engineering design functional disciplines.

2.4 QUALITY ASSURANCE APPLICATION PROGRAMS

2.4.1 The Quality Assurance Application Programs implement those report requirements of reliability, maintainability, and operational readiness disciplines having a common input, in this case MEADS. MEADS; an integrated logistic system, maintenance engineering analysis data system is user (Army) oriented and contains information approved by the various cognizant AMC commodity commands.

The five ITDS Data Lists listed below are created and maintained through the application-input program, three lists (QG, QM, QS) contain basic data as they appear on MEADS worksheets (WS "B", "C1", and "C2") segregated according to three levels of detail. The QG list contains information on a given maintainable assembly while the QM contains information about maintenance personnel and the QS about material that is necessary in maintaining an item described in the QG list. The QA list contains information on all three disciplines in the form of computed values for each maintainable item while the AV list contains operational readiness values summarized to system levels including end item levels. The values in QA and AV lists include mean time (or cycles, rounds etc) between failures, mean time between maintenance, active maintenance time, mean active maintenance time, and achieved availability. A key reporting capability is the calculation of variances* between requirements, predictions, and actuals or measured values which may be listed or provided as exception reports to the project manager.

2.4.1.1 MEADS Extract/Load and QA Calculations

The MEADS Extract/Load program is an applications program to convert the MEADS Peripheral Program into the Data Lists of the ITDS. The data lists dependent on the Application program are:

AV - O/R - AVAL-FILE - Operational Readiness Availability

QA - FGC-AVAL-FILE - Functional Group Code Availability File

QG - MEADS-FGC-FILE - Maintenance Engineering Data Functional Group Code File

*Variances are computed for the following three reports so that a number greater than one will indicate a negative change and a number less than one will indicate a positive or desirable change or trend as regards original predictions.

QM - FGC*TASK-CODE*MOS-FILE - Functional Group Code Maintenance Task Code Military Occupational Specialty File

QS - FGC*TASK-CODE*PN-FILE - Functional Group Code Maintenance Task Code Part Number File

2.4.1.2 Maintainability Reports

The two reports illustrated below are problem directed summaries in keeping with exceptions reporting. The top twenty-five maintainable assemblies are identified by considering the extent to which actual experience varies adversely with predicted maintenance man hours per flight hours. Actions would be warranted as regards improvements in design, production, testing or handling processes.

Figure 2-35 below illustrates a breakout of items most likely to cause excessive aircraft down-time and therefore the most opportunity to improve aircraft availability.

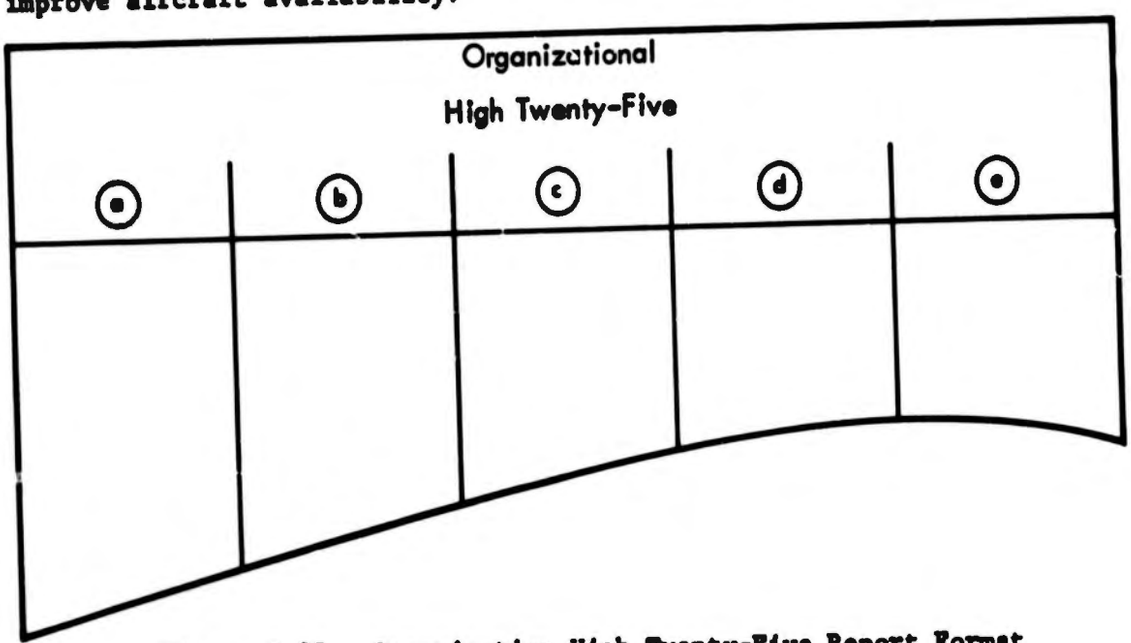


Figure 2-35. Organization High Twenty-Five Report Format

FIELD

(a) FGC NUMBER

(b) NOMENCLATURE

(c) FEDERAL STOCK OR PART NUMBER

(d) HIGH 25 DELTAS ACTUAL/PREDICTED MMH/(USAGE UNIT)

(e) REMARKS

Figure 2-36 is an illustration of this report generated in support of the Cheyenne (AH-56A) Project while ITDS itself was under development.

AAFSS MAINTAINABILITY PROBLEM REPORT DATE 15 Apr. 69
ORGANIZATIONAL
HIGH TWENTYFIVE (25)

FGC NUMBER	NOMENCLATURE	FEDERAL STOCK or PART NUMBER	HIGH 25 DELTAS ACTUAL/PREDICTED (MMH/FH)	REMARKS
30301	Turret, 30mm	37-619500-1	5.76	XM52
19304	Indicator, BDHI	6017-1	5.68	
19305	Indicator, BDHI		5.68	
19380	Navigation "J" Box	1003462-101	2.00	
19350	Vertical Ref. Unit	G156-008-001	2.00	

Figure 2-36. Sample Organizational High Twenty-Five Report

Figure 2-37 below illustrates the standard format, in this case listing the items taking a greater time than predicted in being returned into the inventory cycle. Improvements here will increase equipment availability.

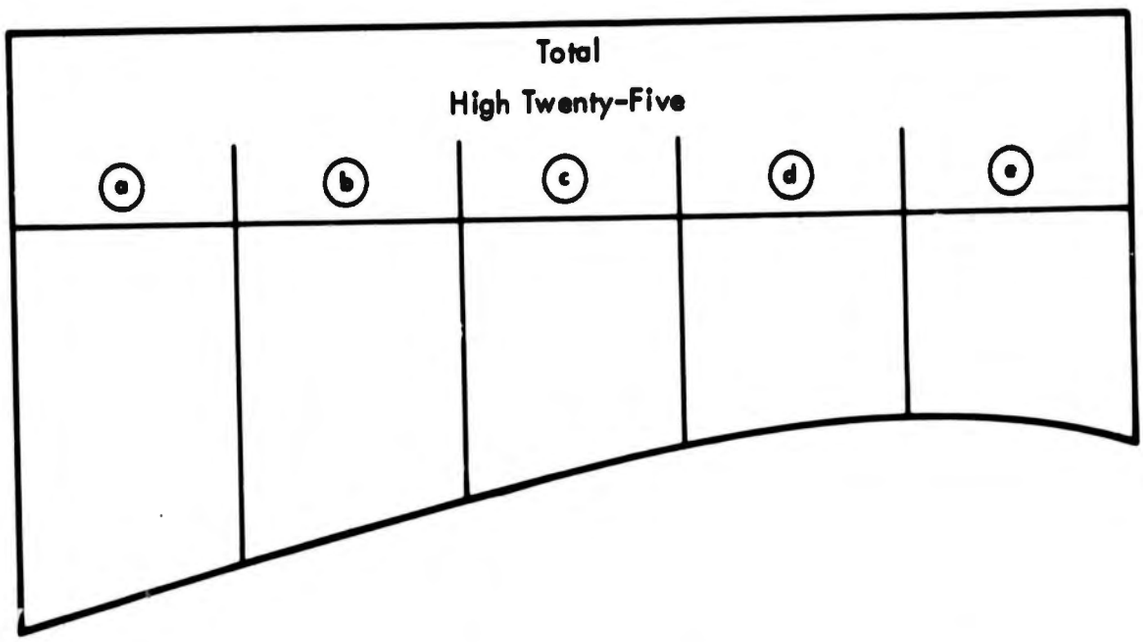


Figure 2-37. Total High Twenty-Five Report Format

FIELD	
a	FGC NUMBER
b	NOMENCLATURE
c	FEDERAL STOCK OR PART NUMBER
d	HIGH 25 DELTAS ACTUAL/PREDICTED MMH/(USAGE UNIT)
e	REMARKS

Figure 2-38 is an illustration of this report generated in support of the Cheyenne (AH-56A) Project while ITDS itself was under development.

AAFSS MAINTAINABILITY PROBLEM REPORT DATE 15 Apr. 69
TOTAL
HIGH TWENTYFIVE (25)

FGC NUMBER	NOMENCLATURE	FEDERAL STOCK or PART NUMBER	HIGH 25 DELTAS ACTUAL PREDICTED (MMH/FH)	REMARKS
19304	Indicator, BDHI	6017-1	15.45	
19305	Indicator, BDHI	6017-1	15.45	
30301	Turret, 30mm	37-619500-1	4.93	XM52
06100	No. 2 Utility Pwr. Pkg.	344851	2.89	
06110	No. 1 Flight Pwr. Pkg.	341351	2.89	

Figure 2-38. Sample Total High Twenty-Five

2.4.1.3 Reliability Reports

The standard format and the "problem" orientation established for maintainability reports are followed as illustrated below. The purpose of the two short listings are to identify first those items failing more often than planned during tests and missions and second the items which will fail most often though meeting their specific requirements or allocations as planned. Reliability improvements on these items will not only improve availability but will assure more success in meeting mission objectives.

The High Twenty-five Report identifies those equipments with the greatest variance between allocations, predictions and/or actual Mean Time Between Failure (MTBF). Figure 2-39, below, illustrates the report format. Field definitions are self-explanatory.

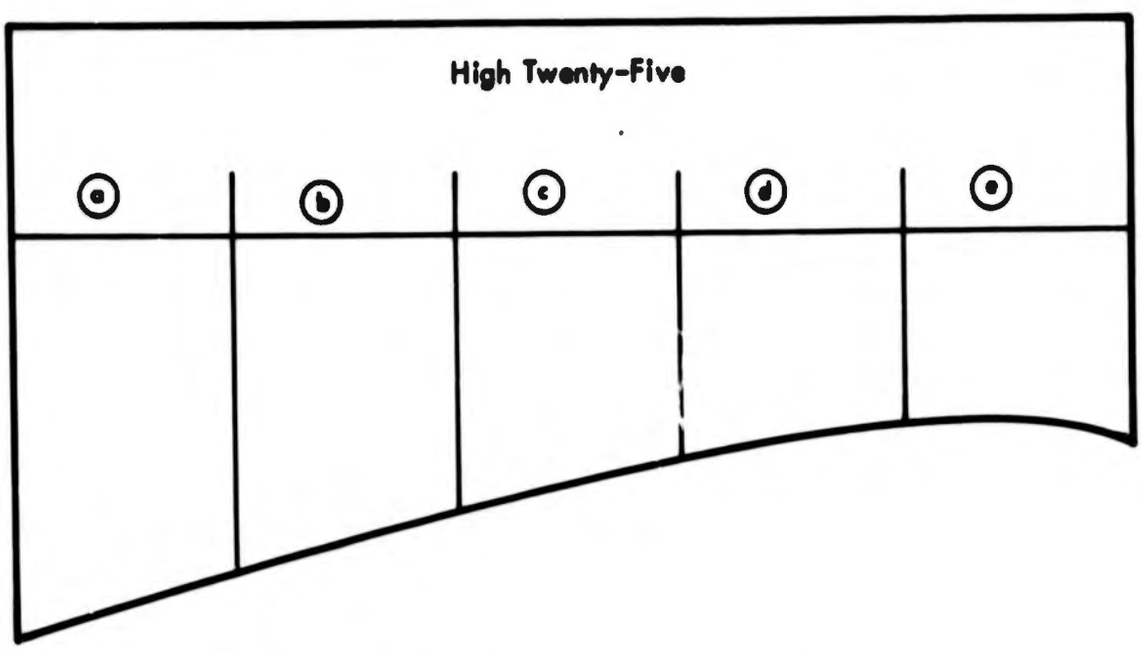


Figure 2-39. High Twenty-Five Report Format

FIELD

- (a) FGC NUMBER
- (b) NOMENCLATURE
- (c) FEDERAL STOCK OR PART NUMBER
- (d) HIGH 25 DELTAS ACTUAL/PREDICTED MBH/(USAGE UNIT)
- (e) REMARKS

Figure 2-40 is an illustration of this report generated in support of the Cheyenne (AH-56A) Project while ITDS itself was under development.

AAFSS RELIABILITY PROBLEM REPORT DATE 15 Apr. 69
HIGH TWENTYFIVE (25)

FGC NUMBER	NOMENCLATURE	FEDERAL STOCK or PART NUMBER	HIGH 25 DELTAS PREDICTED/ACTUAL (MTBF)	REMARKS
19830	VHF/AM RCVR/XMTR	1003462-101	10.00	AN/ARC-115
04310	Transmission, Eng.	1000156-101	9.55	
03100	Engine - Basic	-	1.27	
06100	No. 2 Utility Pwr. Pkg.	344851	1.04	
06110	No. 1 Flight Pwr. Pkg.	341351	1.00	

Figure 2-40. Sample High Twenty-Five Report

The Low Twenty-five Report lists the 25 equipments with lowest MTBF (high failure rates converted to MTBF). Figure 2-41, below, illustrates the report format. Field definitions are self-explanatory.

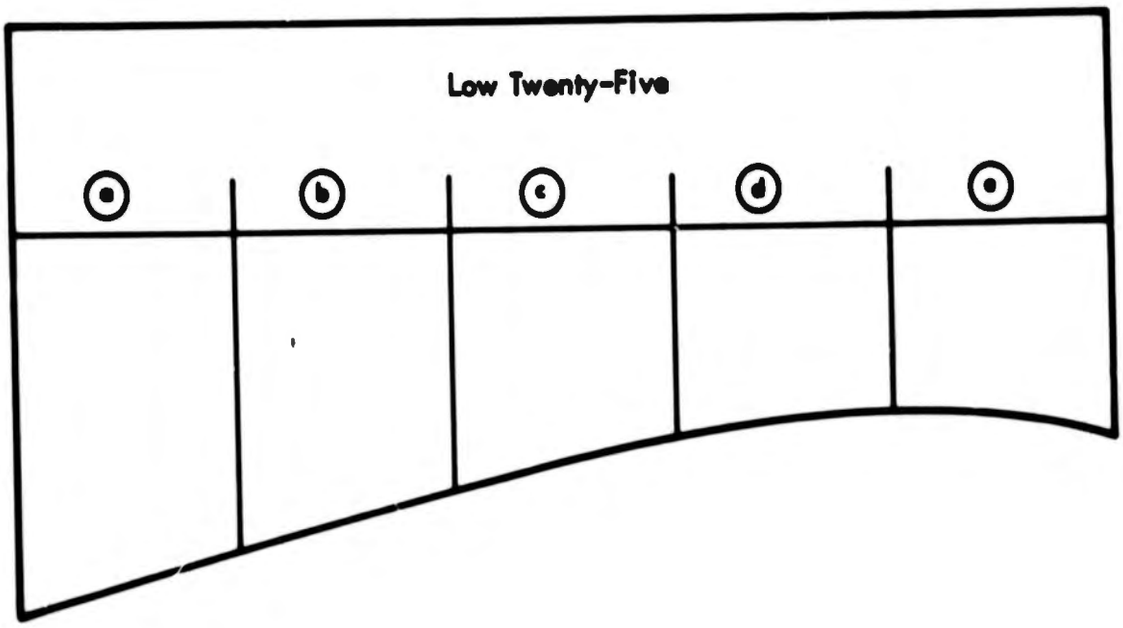


Figure 2-41. Low Twenty-Five Report Format

FIELD	
a	FGC NUMBER
b	NOMENCLATURE
c	FEDERAL STOCK OR PART NUMBER
d	LOW 25 (MTBF)
e	REMARKS

Figure 2-42 is an illustration of this report generated in support of the Cheyenne (AH-56A) Project while ITDS itself was under development.

AAFSS RELIABILITY PROBLEM REPORT DATE 15 Apr. 69
LOW TWENTYFIVE (25)

FGC NUMBER	NOMENCLATURE	FEDERAL STOCK or PART NUMBER	LOW 25 (MTBF)	REMARKS
19380	Navigation "J" Box	1003462-101	350	
18100	Auxiliary Power Unit	380518-1-2	1000	
19301	Turn Rate Gyro	A2850-6	1000	
19840	UEF/AM RCVR/XMTR	5MB596500	1060	AN/ARC-116
19830	VHF/AM RCVR/XMTR	5MB596225	1060	AN/ARC-115

Figure 2-42. Sample Low Twenty-Five Report

2.5 OPERATIONAL ENGINEERING

2.6 PRODUCTION ENGINEERING

The above paragraphs are allocated for future use when the need arises for applications programs for the operational and production engineering functional disciplines.

2.7 TEST APPLICATIONS PROGRAMS

2.7.1 Test Status Reports

Test Status Reports provide the project manager an overview of the status and activities of the test program, including test planning, test progress and, importantly, the status of testing with respect to performance quarantees of the contract. Test Status Reports are generated from dynamic files of test-related data stored in the ITDS data bank.

2.7.1.1 Test Program Status - DID

This report, submitted monthly, provides the latest status of testing by detail test plan (or equivalent test plan). Each detail test plan is listed by numerical sequence in the format of Figure 2-43. Presented is the number, title, and date of the test plan; the applicable paragraph(s) of the contract or of the general test plan which states the test completion date; cognizant government activity; and significant remarks concerning the present status of the test plan or test activity.

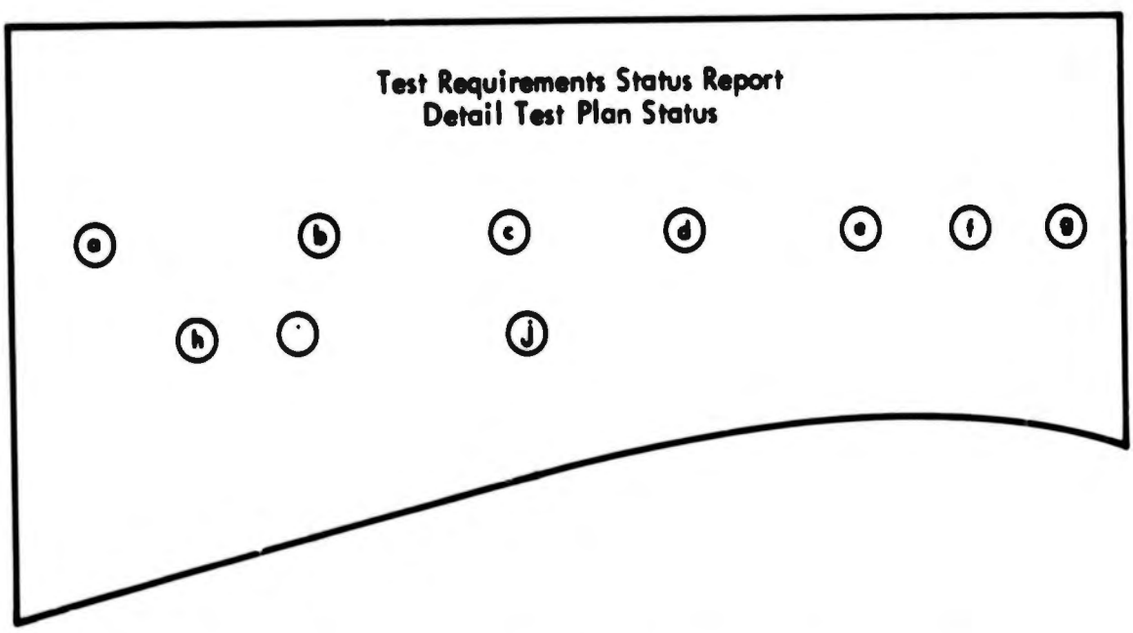


Figure 2-43. Detail Test Plan Status Report Format

	FIELD	DEFINITION
(a)	DTP NO.	The numerical designation of the detail test plan
(b)	TITLE	The title of the detail test plan
(c)	DATE	Issue date of detail test plan
(d)	REQUIREMENTS DOCUMENT	Alphanumerical or numerical designation of document in which the requirement for the test covered in the DTP is found.
(e)	REQUIREMENT PARAGRAPH NO.	Paragraph in requirement document which describes test requirement
(f)	COGNIZANT COMMAND	Commodity command having cognizance over the test
(g)	PROPOSED START DATE	Date test was proposed or scheduled to begin
(h)	ACTUAL START DATE	Date test actually began
(i)	DATE COMPLETED	Date testing was completed
(j)	REMARKS	Present status, summary of test results or significant remarks concerning the DTP

Figure 2-44 is an illustration of this report generated in support of the Cheyenne (AH-56A) Project while ITDS itself was under development.

TEST PROGRAM STATUS-DTP

ISSUE DATE 20 JAN 69

DTP NO.	TITLE	CONTRACT APPENDIX/ PARA NO.	TEST WITNESSING SCHEDULE PROPOSED START DATE	DTP PROPOSED START DATE	ACTUAL START DATE COMPLETED DATE	COGNIZANT COMMODITY COMMAND	COMMENTS
1	DUST SEPARATION TESTS. 1 JUL 66	3.2.1.1 (1)	11 AUG 66		S-8 AUG 66 C- AUG 66	AVCOM	FINAL REPORT IN MTPR NO. 1
2	LOW SPEED WIND TUNNEL TEST OF A 0.22 SCALE LOCKHEED AAFSS COMPOUND VEHICLE MODEL - DRAG STUDY. 5 JUL 66	10.2.1.4 (1)	5 SEPT 66	5 JUL 66	S-18 JUL 66 C- AUG 66	AVCOM	FINAL REPORT IN MTPR NO. 3
3	TAIL ROTOR AND CONTROL SYSTEM TAIL ROTOR HUB DEVELOPMENT FATIGUE TEST. 3 AUG 66	3.2.8.3 (1)	17 APR 67	NONE	S-AUG 66 C-OCT 66	AVCOM	FINAL REPORT IN MTPR NO. 6
4	TAIL ROTOR AND CONTROL SYSTEM TAIL ROTOR GIMBAL RINGS AND SHAFTS DEVELOPMENT FATIGUE TESTS. 10 AUG 66	3.2.8.3 (1)	22 MAY 67	NONE	S-SEPT 66 C-OCT 66	AVCOM	FINAL REPORT IN MTPR NO. 6
5	MAIN ROTOR TENSION TORSION PACK FATIGUE TEST. 9 SEP 68	3.2.8.7 (1)	6 DEC 66	NONE	S-5 DEC 66 RESUMED 28 JUN 67 RESUMED 22 AUGUST 67	AVCOM	TESTING IS CONTINUING ON THE MARK XXVI TENSION-TORSION PACK. THIS PACK HAS EXPERIENCED MORE THAN 3 1/2 LIFETIMES OF SPECTRUM TESTING. THERE ARE

Figure 2-44. Sample Detail Test Plan Status Report

2.7.1.2 Requirements for Contractor Test - Status Report

This report and its companion report, the Specification/Description Status Report (paragraph 2.7.1.3, below) provide visibility over the contractual aspects of the test program. Issued quarterly, the report lists each paragraph of the contractual document which specifies the requirements for contractor tests, and provides the status of each test requirement paragraph. The report format (Figure 2-45) includes the document number; paragraph number; title of the paragraph; related detail test plan; the date the test requirement was completed or was otherwise satisfied by a test; and significant remarks concerning the test or test requirement.

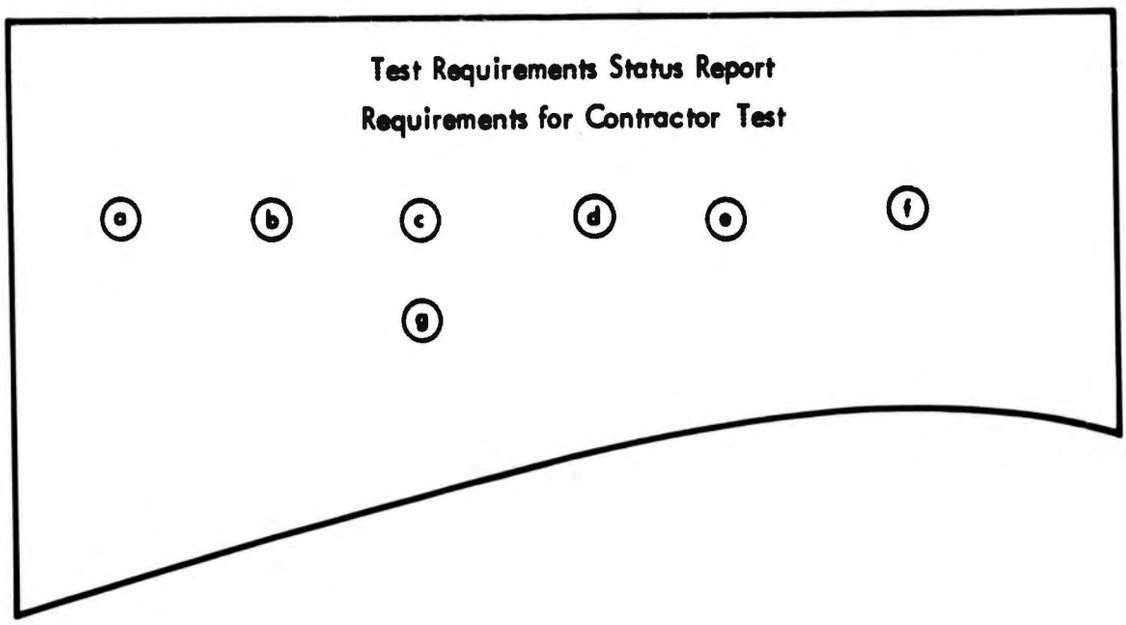


Figure 2-45. Requirements for Contractor Test - Status Report

	FIELD	DEFINITION
(a)	DOCUMENT	Alphanumerical or numerical designation of the contractual test requirements document
(b)	PARAGRAPH	Paragraph number of the specific test requirement
(c)	NOMENCLATURE	Title of the test requirement paragraph

	FIELD	DEFINITION
(d)	DETAIL TEST PLAN	Related DTP which describes how the requirement is to be tested
(e)	COMPLETION DATE	Date that testing of the requirement was completed
(f)	REQUIREMENTS DOCUMENT	Alphanumerical designation of, and paragraph number within, the related system or development description which specifies performance guarantees to be met by the test
(g)	REMARKS	Present status, summary of results or significant remarks concerning the test or test requirement.

Figure 2-46 is an illustration of this report generated in support of the Cheyenne (AH-56A) Project while ITDS itself was under development.

APPENDIX I STATUS

APP I/CTP PARAGRAPHS	TEST TITLE	DTP	COMPDTE	REQUIREMENT	REMARKS
2.0	STRUCTURES (TITLE)				
2.1	GEN'L REQ'T'S FOR STRUCTURAL TESTS				
2.1.9	INSTRUMENT CALIBRATION	94			
2.2	STRUCTURES SUBSYSTEM				
2.2.1	STRUCTURAL VEH. TEST FATIGUE	68		FAR	
2.2.1.1	GENERAL	68			
2.2.1.2	AIRFRAME FATIGUE TESTS	68			
2.2.1.2.1	TEST SPECTRUM	68			
2.2.1.2.2	LOADING SYSTEM	68			
2.2.1.2.3	ACCURACY OF LOADING	68			
2.2.1.2.4	DATA ACQUISITION	68			
2.2.1.2.5	INSPECTION PROCEDURE	68			
2.2.2	STRUCTURAL VEH. TEST STATIC	86		FAR	
2.2.2.1					
A		86			
B					
C		86			
2.2.2.2	LIMIT LOAD PROOF TEST	50	5SEP67	FAR	
2.2.3	ULTIMATE AND FAILURE TESTS	50 86	5SEP67	CP0001	(4.1)3.1.1.2.1 HARD POINTS

Figure 2-46. Sample Requirements for Contractor Test-Status Report

2.7.1.3 Specification/Description - Test Status Report

This quarterly report provides a cross reference between the system specification (and/or development description) and all pertinent test documents in the system program. Against each requirements paragraph (Section 3 paragraph) of the specification or description is listed the related test requirement paragraph found in Section 4 of the specification or description; the related QMR paragraph; the related paragraph in the Requirement for Contractor Tests document; the date the specification requirement was satisfied; and pertinent remarks. Figure 2-47 illustrates the format of this report.

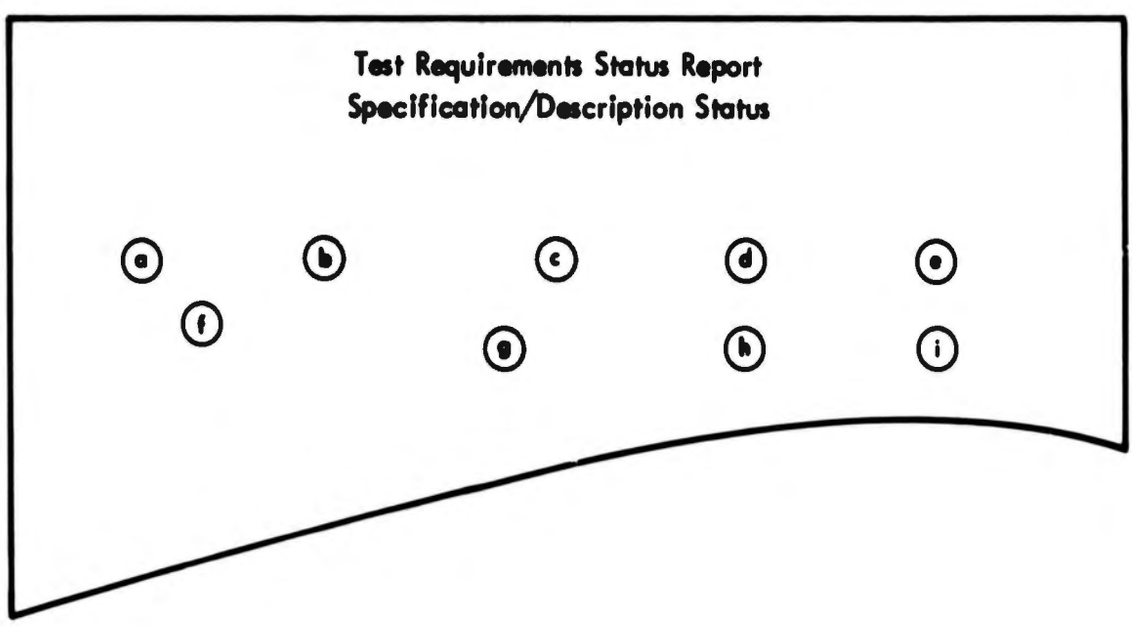


Figure 2-47. Specification/Description Status Report

	FIELD	DEFINITION
(a)	DOCUMENT	Alphanumerical or numerical designation of the document which specifies the requirements of the system or equipment undergoing test.
(b)	PARAGRAPH	Paragraph number of a specific requirement in the requirements document.

FIELD		DEFINITION
(c)	TEST	The paragraph number in the test and evaluation section which correlates with the requirements of paragraph (b) .
(d)	TITLE	Title of requirements paragraph (b) .
(e)	QMR	Paragraph number in the QMR which correlates with requirements paragraph (b) .
(f)	CONTRACT TEST REQUIREMENT	Paragraph number in the Requirements for Contractor Tests which correlates with requirements paragraph (b) .
(g)	DTT	Detail Test Plan related to requirements paragraph (b) .
(h)	COMPLETION DATE	Date requirement (b) testing was completed.
(i)	REMARKS	Status, summary of test results or significant remarks concerning requirement (b) .

Figure 2-48 is an illustration of this report generated in support of the Cheyenne (AH-56A) Project while ITDS itself was under development.

APPENDIX L STATUS

SS0001

REQUIREMENTS	TEST	TITLE	QMR	APPENDIX I	DTP	COMP DATE	TEST STATUS AND REMARKS
3.0		REQUIREMENTS	7	N/A			DAI 9098
3.1		PERFORMANCE		10.7			
3.1.1		PERFORMANCE CHARACTERISTICS	2C 8N 1B	N/A			
3.1.1.1	4.1.2.1	OPERATIONAL	9C 9A 7O 7D 7E 7K 1B 9G 3D				
3.1.1.2	4.1.2.3.1	MISSIONS	7A 7B	10.2.1.9 10.7			
A	4.1.2.2 4.1.2.3.4	MEDIUM ENDURANCE MISSION		10.7			
B	4.1.2.2	LONG ENDURANCE MISSION		10.7			
C	4.1.2.2	SHORT ENDURANCE MISSION		10.7			
D	4.1.2.2	OVERLOAD MISSION		10.7			
E	4.1.2.2 4.1.2.3.4	MAXIMUM ALTERNATE GROSS WT. MISSION		10.7 10.7			
F	4.1.2.2	FERRY MISSION	7G	10.7			

Figure 2-48. Sample Specification/Description Status Report

2.7.1.4 Vehicle Test Status Report

This monthly report provides a chronological summary of testing conducted on each vehicle (or primary development item). For the purpose of example, Figure 2-49 illustrates the format of the report when used to track test time for an aerial vehicle (Army helicopter). In this example, the report will indicate each time a vehicle (by serial numbers) undergoes a flight or ground test. It records the date of test; flight or ground test number; duration of test; the total ground and flight time accumulated on the vehicle to date; the serial number of the engine and transmission installed for the test; the ground, flight and accumulated time on the engine and transmission; related test plan; and pertinent remarks. The format of the report can be modified as required to track time or cycles against any development or production test article.

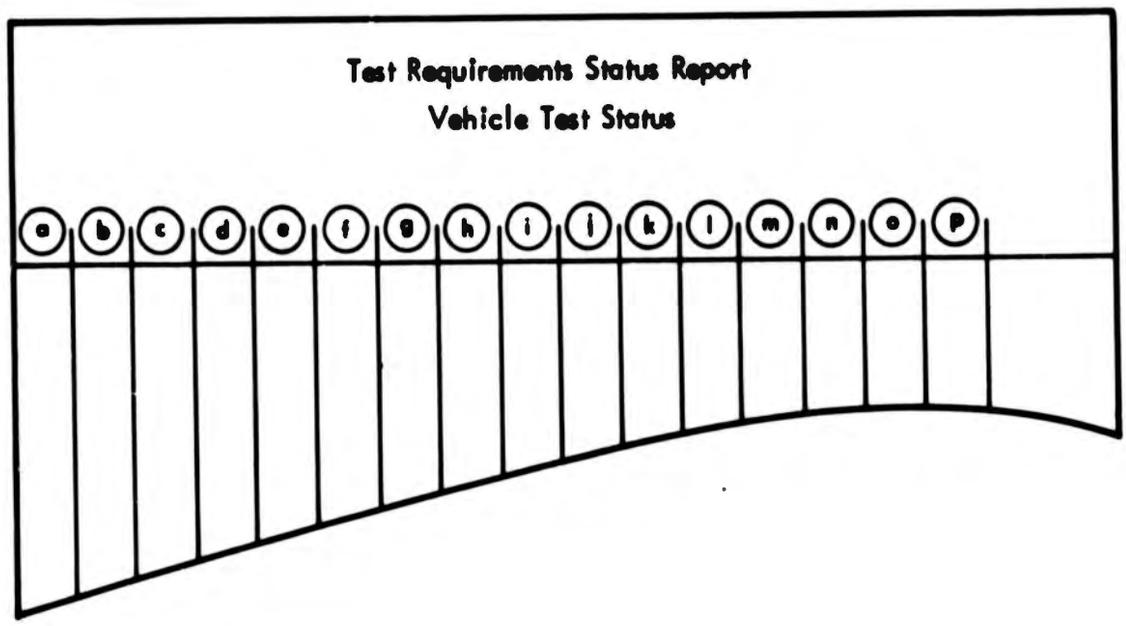


Figure 2-49. Vehicle Test Status Report

	FIELD	DEFINITION
(a)	DATE	Date of test
(b)	VEHICLE SERIAL NO.	Serial number of the vehicle undergoing test

	FIELD	DEFINITION
(c)	LOCATION	Location of test (test site)
(d)	( ) TEST NO.	Numerical designation of the Flight Test
(e)	( ) TEST NO.	Duration of the flight test (in tenths of an hour)
(f)	( ) TEST TIME	Total flight test time accumulated on the vehicle to date
(g)	( ) TEST TIME	Numerical designation of the ground test
(h)	TOTAL ( ) TIME	Duration of ground test (in tenths of an hour)
(i)	TOTAL ( ) TIME	Total ground test time accumulated on the vehicle to date
(j)	VEHICLE TOTAL TIME	Total test time accumulated on the vehicle to date (sum of flight time and ground time)
(k)	(EQUIPMENT) SERIAL NO.	Serial number of the engine installed in the vehicle during the test
(l)	(EQUIPMENT) TOTAL TIME	Total test time accumulated on the engine to date
(m)	(EQUIPMENT) SERIAL NO.	Serial number of the transmission installed in the vehicle during the test
(n)	(EQUIPMENT) ( ) TIME	Total test time accumulated on the transmission to date
(o)	DETAIL TEST PLAN	Detail Test Plan which describes the test
(p)	REMARKS	Status, summary of results or significant remarks concerning the test.

Figure 2-50 is an illustration of this report generated in support of the Cheyenne (AH-56A) Project while ITDS itself was under development.

DEVELOPMENT TEST STATUS AH-56A "CHEYENNE"

ACFT. S/N 66-8827						ENGINE S/N 268004					TRANS. S/N 1003	
DATE	LOCATION	TEST FLT.	GRD. TIME	FLT. TIME	TOTAL FLT.TIME	A/C T.T.	ENG. T.T.	XSM TIME	DTP	REF.	REQ	REMARKS
7/12	Oxnard	149	.4	.7	41.1	114.2	106.6	6.0 / 17.6				Main Rotor track to 160 KTS. Longitudinal stability to 125 KTS.
7/15	Oxnard	150 / 111	.8	.4	41.5	115.4	107.8	6.4 / 18.8				Evaluate 50% wider Chord Wing to 100 KTS.
7/16	Oxnard	151 / 112	.6	.8	42.3	116.8	109.2	7.2 / 20.2				Ejection seat vibration data; Auto-rotation evaluation and Wing/Rotor lift sharing
7/17	Oxnard	152 / 113	.9	.1	42.4	117.8	110.2	7.3 / 21.2				Ejection seat vibration data; Main Rotor track
7/18	Oxnard		.2			118.0	110.4	/ 21.4				Pre-flight
7/19	Oxnard	153 / 114	.1	.6	43.0	118.7	111.1	7.9 / 22.1				Extended chord wing envelope expansion to 150 KIAS level flight. Autorotation performance evaluation; Level flight performance and rotor wing sharing characteristics
7/24	Oxnard	154	.3			119.0	111.4	/ 22.4				Pre-flight
7/25	Oxnard	155 / 115	.1	.7	43.7	119.8	112.2	8.6 / 23.2				Evaluate in-flight characteristics with wings removed (T) Excessive 4P vibration
7/25	Oxnard	156 / 116	.1	.4	44.1	120.3	112.7	9.0 / 23.7				Forward flight performance, wings removed
7/26	Oxnard	157 / 117	.3	.4	44.5	121.0	113.4	9.4 / 24.4				Hover performance evaluation, without wings and less than 3 KIAS wind. GW-15600 lbs.
		158 / 118	.2	.5	45.0	121.7	114.1	9.9 / 25.1				Evaluate performance without wings, in auto rotation and in level flight (linear dampers removed)

LEGEND A - ARMY L - LAC
F - FAA (T)- TERMINATED

Week Ending 11 September 1968

Figure 2-50. Sample Vehicle Test Status Report

2.8 LOGISTICS APPLICATIONS PROGRAMS

2.8.1 The programs described below represent the computerized periodic standard reports designed to determine logistics factors to management. They identify the requirements for support personnel and equipment necessary to produce the weapons system and maintain it in an operational status. In the case of personnel requirements the report identifies the predicted manpower and skill requirements based upon analysis performed by the prime contractor during design. As development of the weapon system continues these values are refined and updated based upon actual experience.

The reports dealing with support materiel provide the capability of assessing potential and actual impacts on production and support operations when deliveries cannot be made as scheduled.

2.8.1.1 Maintenance Manhours per Operating Hour - MOS

The maintenance manhour per flight hour distribution summary is produced from the Functional Group Code Maintenance Task Code Military Occupational Specialty file (QM file). The maintenance man minutes (per 300 flight hours) for each level of maintenance for each MOS are listed by functional group code. These are summed at the subsystem level by MOS and maintenance level and at the total system level.

The data extracted from the QM file is converted to maintenance man hours per flight hour by dividing by 18,000. This establishes the distribution of maintenance time by MOS within functional group code, subsystem and system level. The distribution between maintenance levels is obtained from the prime contractor's quarterly quality assurance report.

This report is produced on an as required basis.

2.8.1.2 GFM/GSE Model Function and Status

These reports are bookkeeping type reports designed to provide visibility into requirements and status of Government Furnished Material and Ground Support Equipment. Each report is produced from the GSE/GFM*MODEL/PN-FILE (GF) which obtains values from the DD 610 Parts 1 and 2, and the Master GSE list required from the prime weapon system

contractor. The DD 250's provide actual deliveries and costs. The details of the reports are described in the following paragraphs.

2.8.1.2.1 Government Furnished Material (GFM) Reports

This listing provides each item of GFM required by the prime contractor in terms of delivery dates and quantities. During the course of performance the status information is extracted from delivery documentation (DD 250) and the complete status is summarized as indicated in Figure 2-51.

Part One of the GFM report is limited to those equipments which are to be installed on the vehicle itself. Part Two addresses the GFM required for installation on trainers and material to be delivered under the prime contract.

The report may be generated on a scheduled or unscheduled basis and contains provisions for bulk reporting or exception reporting. There is no provision for automatically producing delinquency reports.

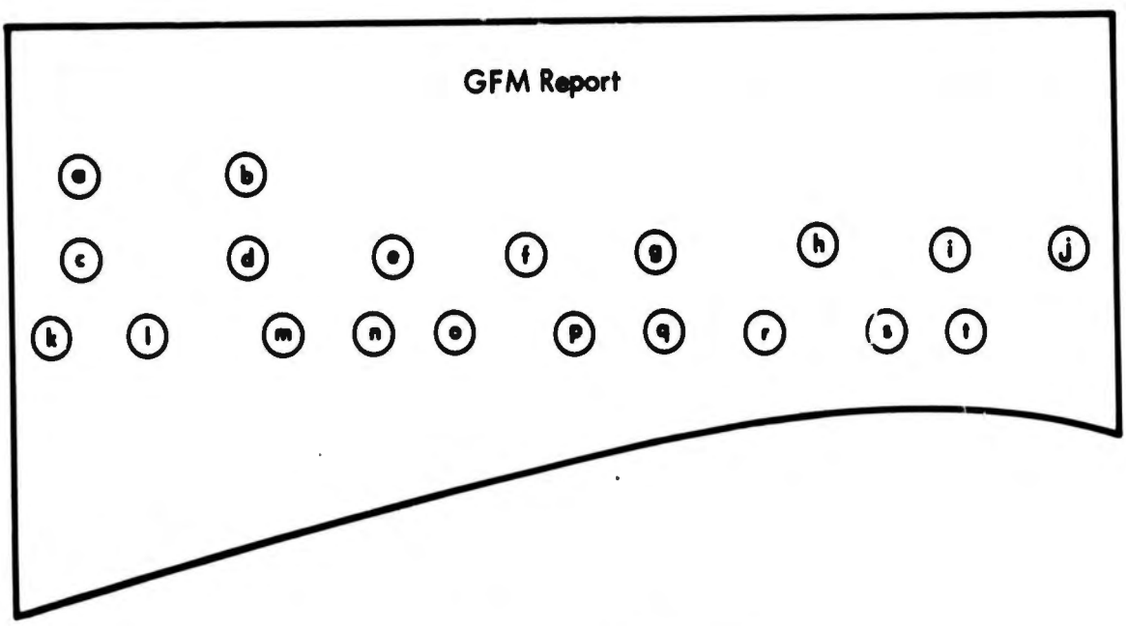


Figure 2-51. GFM Report

	FIELD	DEFINITION
(a)	GFM MODEL (GPN)	This entry contains the nomenclature of the item, and the GPN keyword for the computerized program
(b)	PART NUMBER (PN)	Self-explanatory
(c)	APPENDIX NO.	This entry provides for recording the appendix number of the item as shown on DD 610 Part I and number listed on Part II of DD 610
(d)	FSN	Federal Stock number
(e)	FMC	Federal manufactures code
(f)	PLT	Production lead time
(g)	TYPE CLASSIFICATION (TP-CL)	Standard A, Standard B, Limited Production, Development
(h)	COMMODITY COMMAND (CC)	Self-explanatory
(i)	UNIT COST	Self-explanatory
(j)	SCHEDULE DATE (SCH-DT)	On-dock delivery dates listed on DD 610 converted to Julian date.
(k)	SCHEDULED QTY. (SCH-QTY)	Quantities shown on DD 610
(l)	REVISED DATE (RVS'D DATE)	Column to record approved revision to original schedule date
(m)	REVISED QTY. (RVS'D QTY)	Column to record approved changes to quantity
(n)	QUANTITY RETURNED (QTY RET'D)	Column to record items returned by the contracts Army sources due to design deficiency or malfunctions.
(o)	ACTUAL DATE	Date shown on DD 250 that item was received by the contractor
(p)	DELIVERY DOC NO.	The contractors Receiving Department control number hand written on DD 250, DD 1149, or DD 1348's which are stamped by the contractor

FIELD		DEFINITION
(q)	SERIAL NO.	Column for recording serial numbers of items to be controlled and tracked by serial number
(r)	TOTAL QTY. DUE	Summary column for recording total quantity of items due
(s)	TOTAL QTY. SHIPPED	Summary column to record total quantity shipped against total quantity due
(t)	TOTAL VALUE SHIPPED	Summary of total value of item shipped to date.

Figure 2-52 is an illustration of this report generated in support of the Cheyenne (AH-56A) Project while ITDS itself was under development.

LIST GFM*MODEL/GPN SCH-DATE-FILE 'MOUNT*MT-3600/ARN-82'

GFM STATUS

SCHED DATE	SCHED TOTAL VALE QTY	RVS'D DATE	REVS'D QTY	QTY RET'D	+ACTUAL DATE	DELIV DOC.NO.	SERIAL NO.	TOTAL QTY DUE	TOTAL QTY SHIPPED	SHIPPED	TOTAL QTY
71181	20										
71212	21										
71243	21										
71273	22										
71304	20										
71334	22										
71365	22										
72031	20										
72059	11										

Figure 2-52. Sample GFM Report

2.8.1.2.2 Support Equipemnt Report

These listings provide each item of support equipment (whether government or contractor furnished) required for delivery to specified sites.

The report is divided into four parts to increase its visibility. Part 1 describes type of equipment, cost, commodity, command, support level, etc; Part 2 has a brief description of the function; Part 3 contains status information on requirements and deliveries, and; Part 4 is a cost summary by fiscal year. Figure 2-53 shows each part of the report.

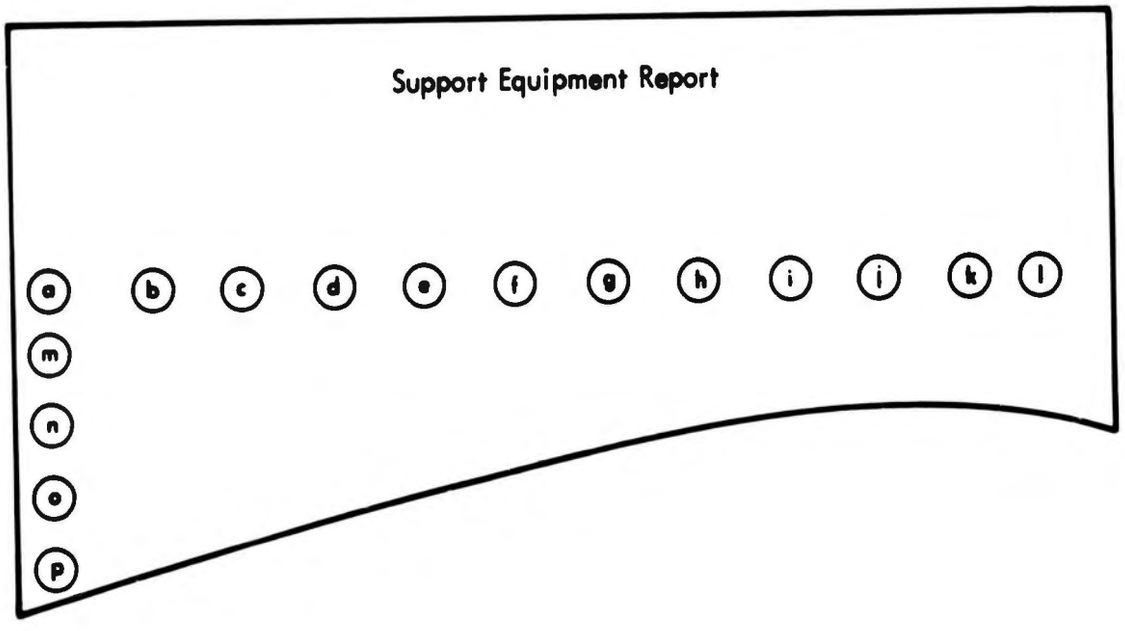


Figure 2-53. Support Equipment Report

FIELD		DEFINITION
PART I		
(a)	ITEM NO.	This is an identification number for each item sheet. New items will be added to the end of the listing and dripped items will be deleted.

FIELD		DEFINITION
(b)	FSN	Self-explanatory
(c)	TYPE EQ	Identifies the three categories in the master support equipment list: Test Support Equipment - TSE Special Tools Handling Equipment
(d)	FMC	Self-explanatory
(e)	PLT	Production Lead Time
(f)	M/L	Maintenance or support level Organizational - O Direct Support - DS General Support - GS Depot Support - DS or Depot Note: Those items utilized in more than one level will reflect the multiple usage, i.e., O-DS-GS etc., as the item appears on Master GSE List. Once the item appears and is coded, it is not repeated in the subsequent areas.
(g)	SOURCE	Contractor Furnished Equipment - CFE Government Furnished Material - GFM
(h)	TP-CL	Type-Classification Standard A Standard B Limit Production or Development Note: Information now entered is based on the premise that the FSN identified items are Standard A, Contractor CFE items are Development. Information on LP items were extracted from offical correspondence.
(i)	CALIB	Self-explanatory. This entry identified support equipment items requiring calibration.

FIELD		DEFINITION
(j)	FGC	Functional Group Code This is the FGC information extracted from the MEADS sheets, and identified the functional group of the system upon which this piece of equipment will be used.
(k)	CMD	Command This is the commodity command identifier.
(l)	UNIT COST	Self-explanatory

PART II - Description and Function Statements

(m)	DESCR	Self-explanatory
(n)	FUNCTION	Self-explanatory

PART III - Support Equipment Status

(o) This section reports delivery dates, quantities, revised delivery dates, receipts, location and shipping documents, and serial numbers.

PART IV - Support Equipment Cost

(p) This information is required to reflect the total cost of the support equipment program.

Figure 2-54 is an illustration of this report generated in support of the Cheyenne (AH-56A) Project while ITDS itself was under development.

```
LIST GFM*MODEL/GPN-FILE 'SET TEMPLATE, FIRE INTERRUPT*B806'                    GSE REPORT

ITEM-NO  FSN              TYPE-EQ    FMC     PLT  M/L     SOURCE  TP-CL  CALIB  FGC     CMD  UNIT COST   TO
3001                      TEST SPT   36659   11   ORG.    CFE     DEVL   NO     30006        3350.00
                                                  G.S.                          30021
                                                                                30073

LIST GFM*MODEL/GPN-FILE 'SET TEMPLATE, FIRE INTERRUPT*B606'                    DESCRIPTION

DESCR:

LIST GFM*MODEL/GPN-FILE 'SET TEMPLATE, FIRE INTERRUPT*B606'                    FUNCTION

FUNCTION:  SHOWS A COMPARISON OF THE ACTUAL FIRE AND TRAVEL LIMITS OF THE ARMAMENT WHEN USED IN CONJUNCTION
           WITH A GUN BARREL INSTALLED ADAPTER AND A MULTIMETER, CONNECTED TO THE FIRE INTERRUPT SWITCH,
           THE TEMPLATE SET REFLECTS THESE LIMITS FOR FOUR DIFFERENT SITUATIONS.  XM-51, XM-52, XM-53 WITH
           MAXIMUM STORES ON THE AIRCRAFT AND THE XM-52 WITH NO STORES MOUNTED ON THE AIRCRAFT

LIST GFM*MODEL/GPN-FILE 'SET TEMPLATE, FIRE INTERRUPT*B606'                    GSE STATUS

SCH-DT   SCH-QTY   REV-QTY   REC-DT   LOC   DEL-DOC*SN          QTY-SHP   QTY-DUE   TOT-SHP

LIST GFM*MODEL/GPN-FILE 'SET TEMPLATE, FIRE INTERRUPT*B606'                    GSE COST

DEVELOPMENT COST
   TOOLING:
   NON-RECUR:
E/F COST
   QTY:
   COST:
TRAINING FACTORY
   QTY:
   COST:
```


Figure 2-54. Sample Support Equipment Status Report

TRAINING CONARC
QTY:
COST:
TOTAL
QTY:
COST:
EQUIPMENT COST:FY69
QTY:
COST:
EQUIPMENT COST:FY70
QTY:
COST:
EQUIPMENT COST:FY71
QTY:
COST:
EQUIPMENT COST:FY72
QTY:
COST:
COMMODITY COMMAND FUND
STOCK FUND:
PEMA:
OMA:
PROJECT MANAGER FUND. AH-56A
RDT+E
PEMA:

Figure 2-54. Sample Support Equipment Status Report (Continued)

2.9 PRODUCTION AND PROCUREMENT

This paragraph is allocated for future use when the need arises for applications programs for the Production and Procurement functional discipline.