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TABLE OF MANPOWER REQUIREMENTS USERS MANUAL

Informatics, Incorporated

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DEPARTMENT OF THE NAVY

Memorandum

DATE: AX/AO1M-lcb
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FROM: Deputy Chief of Staff (RD&S)

TO: Distribution List

SUBJ: Table of Manpower Requirements (T/MR) Study

1. The T/MR project was an outgrowth of a 1969 analysis concerning conversion of the Table of Organization (T/O) process from the NCR 304/315 equipment to the then expected IBM 360-65I. Early in the analysis it became apparent that there were serious deficiencies in the conceptual approach of the T/O System as it had evolved since 1961. The thrust of the analysis then turned toward a concept definition for a system later to be known as the Table of Manpower Requirements. This concept definition lead to the T/MR Study Requirement which was included in the FY71 Marine Corps Studies Program.

2. The basic objective of the T/MR Study was "to analyze planning and reporting requirements toward development of yet unrealized capabilities essential to effective manpower planning, programming, and controling by the Marine Corps."

3. The study was conducted for the Commandant of the Marine Corps by Informatics Incorporated of Rockville, Maryland. The overall objectives of the study were met in a time phased manner consisting of the following:

a. Phase I System Specification, involved analysis of planning and reporting requirements along with identification of desired capabilities.

b. Phase II System Design, specifically defined the identified capabilities, and the interrelationships between each other and with other systems external to T/MR.

c. Phase III Programming, Testing, and Implementation, provided the actual development of the desired capabilities, that were identified and defined in the prior phases.

4. The T/MR system is founded upon an integrated data base which rationally organizes Marine Corps manpower structural data. The system was designed to provide Optical Character Recognition (OCR) input capability with punch cards as an alternate means. Maintenance of the files is under control of a generalized Data Management System (DMS) specifically tailored to the unique requirements of the T/MR. The DMS also permits rapid information retrieval in functionally oriented statements; in most cases without requiring computer programmer assistance.

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5. The study was primarily directed toward applications to be utilized within Headquarters Marine Corps. It has been, and will continue to be, a basic source of data for the publication, and implementing directives and procedures, concerned with the T/MR system. In view of the above, the study is considered to be complete and distribution is authorized.

6. A copy of this memorandum will be affixed inside the front cover of each copy of the subject study prior to its distribution.

D. H. BROOKS

Distribution:
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Submitted to:

UNITED STATES MARINE CORPS
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FINAL
TABLE OF MANPOWER REQUIREMENTS
USERS MANUAL

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Informatics Inc
Systems and Services Company
6000 Executive Boulevard
Rockville, Maryland 20852
(301) 770-3000 Telex: 89-521

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SECTION 1

INTRODUCTION

1.1 T/MR SYSTEM DOCUMENTATION

There are three related manuals which detail the use, computer program operation and computer program design of the T/MR system. These manuals are defined as follows:

- o T/MR USERS MANUAL - The instructions needed for Marines to exercise the total system capability.
- o T/MR OPERATIONS MANUAL - The detailed operator instructions required for efficient running of the system generated computer programs by a "closed shop" computer center.
- o T/MR TECHNICAL MANUAL - The details related to file structure, program design and system maintenance necessary for modification or repair of the system and T/MR (T/O) related processes.

Documentation of the T/MR system in these three general categories allows selective distribution of the T/MR manuals to those agencies having a particular functional responsibility to the T/MR system.

1.2 PURPOSE OF THE T/MR USERS MANUAL

The T/MR Users Manual is designed to, under one cover, provide sufficient instructions and procedures for complete exercise of the T/MR

system. This includes data base update, maintenance and diagnostics, procedures for ad-hoc information retrievals, specification of recurring reports, and Manpower Model interface procedures.

1.3 ORGANIZATION OF THE T/MR USERS MANUAL

The T/MR Users Manual is organized into the following sections:

- o T/MR General
- o T/MR Data Elements and Tables
- o T/MR Files
- o T/MR File Maintenance Procedures
- o T/MR Recurring Reports
- o T/MR Ad-hoc Retrieval Capability
- o T/MR Interfaces

The T/MR Users Manual has been written primarily as a reference document rather than as an instructional vehicle. Few potential users will be interested in the detailed operation of the entire system. Each section, therefore, has been written as an individual portion of the manual to facilitate its use by personnel interested in only certain aspects of the system.

SECTION 2

GENERAL

2.1 INTRODUCTION

The T/MR system provides the vehicle for depicting the billet structure requirements of the Marine Corps. For the FMF it considers billet requirements as a function of wartime mission. For the non-FMF it relates to gross numbers of personnel authorized for non-FMF forces. The T/MR system is the designated functional responsibility of the Assistant Chief of Staff, G-1, Manpower Control Branch (code AOIE). In this capacity AOIE is the responsible agency for maintenance and update of the T/MR data base, authorization of T/MR information distribution both internal and external to the Marine Corps, and the programming of Headquarters Marine Corps ad-hoc information requests for other HQMC staff agencies.

The system provides the capability to easily program ad-hoc requests for a wide variety of T/MR information using standard T/MR ad-hoc coding forms. In cases where specific program output formats are not required such as a grade and MCS matrix, advantage is taken of the T/MR Data Management System capability to automatically format computer outputs independent of the detailed specification normally required.

Information retrieval can be obtained without the computer programming assistance of Headquarters Marine Corps Data Systems Division personnel. The T/MR Users Manual contains adequate instructions to provide all T/MR information normally used by the majority

of the divisions of Headquarters Marine Corps. This information may be in the form of related systems interfaces, recurring reports, or responses to ad-hoc informational requests.

Input to the T/MR system for file maintenance primarily employs Optical Character Recognition (OCR) techniques and related equipment. However, the system has been designed to allow use of punch card input as a fall back capability.

Marine Corps field units utilize hard copy T/MR information. In addition, many Satellite Data Processing Installations (SDPI) (those possessing a 360/40 OS or larger) will have the capability to generate T/MR information using Headquarters Marine Corps Class I computer programs and monthly updates of the T/MR data base furnished by Headquarters Marine Corps.

2.2 T/MR DATA

Data used in the T/MR system is generated by Marine Corps field units and agencies in Headquarters Marine Corps. Input to the system will vary greatly, ranging from a field request for a modification to the composition of a base T/MR, through input of an entire T/MR for a non-FMF Post or a Station. On occasion, staff agencies within the Headquarters may desire to include planning T/MRs in the T/MR data base. An example would be the development for planning of the T/MR for a new type unit to be included in the Marine Corps structure at some future date. While the data input to the T/MR may vary widely as to source and type of transaction, all updates to the system are approved and effected by the Assistant Chief of Staff, G-1, Manpower Control Branch (AO1E).

2.2.1 Data Element Definition

The data elements used in the T/MR system are defined in the Data Element Dictionary (section 3.2). Each element is described using the following categories:

- o Data Element Name
- o Data Element Number
- o T/MR MNEMONIC
- o No. of Characters
- o Type
- o T/MR File Containment
- o Code Reference
- o Definition

User Manual sections are listed as the Code Reference for data elements that are wholly or partially unique to the T/MR system.

2.2.2 T/MR Data Conventions

In certain instances, commonly understood data elements may be used in the T/MR system according to certain conventions. Section 3.3 contains a Data Element Dictionary Compendium that details particular data element conventions used in the T/MR system, and additionally specifies the characteristics of T/MR unique data elements.

2.3 T/MR SYSTEM CONCEPT

The T/MR System is a general purpose integrated system designed to satisfy a variety of Marine Corps requirements. It is a total system in that it specifies the programs and procedures necessary to system update, maintenance, retrieval and dissemination of Table of Manpower Requirements Information.

2.3.1 T/MR System Responsibilities

The T/MR system has been designed using a data management system to facilitate user flexibility and direct interaction with the system. Under this concept, the maintenance of the system is performed directly by the principal T/MR user through employment of system applications programs. The T/MR Users Manual details the T/MR System maintenance instructions. The T/MR Operations Manual is designed to furnish all the information required to run the T/MR programs by the Headquarters Marine Corps Computer Center or any of the Marine Corps Data Processing Installations having an IBM 360/40 OS or larger computer and Mark IV. The T/MR Technical Manual is designed for the use of the Headquarters Marine Corps Data Systems Division. That manual provides the experienced computer programmer with the detailed information necessary to modify any facet of the T/MR system.

2.3.2 T/MR Data Management System

The T/MR System is defined in the Marine Corps Mark IV data management system. In certain instances, which are invisible to the user, COBOL programming has been used for greater system efficiency.

Examples where COBOL programming is used are the Manpower Management Model interfaces, the interfaces with the existing T/MR (T/O) related processes and certain rigid format outputs.

2.3.3 T/MR System Flow

The flow chart, figure 2-1, is designed to provide a general overview of the entire system, and its interfaces with the T/MR (T/O) related processes and the Manpower Management Models. The user interested in a more detailed discussion of portions of the T/MR process such as forms preparation or Table update will be referred to appropriate sections of this manual as the need may arise. The detail design of the computer programs related to the T/MR system is contained in the T/MR Technical Manual.

Input to the T/MR system may originate with units in the field or staff agencies within Headquarters Marine Corps. The nature of field input will vary considerably. In some cases major Marine Corps units using the T/MR update programs at the local MMS DPI may build, edit, and submit a proposed T/MR to Headquarters Marine Corps. In other cases small or remote Marine Corps units may submit a letter requesting a T/MR modification. In any case, all information relating to Marine Corps T/MRs must, when approved, be entered into the T/MR system by the Headquarters Marine Corps, Manpower Control Branch (AOIE). The following discussion relates to the Macro System Flow chart, figure 2-1.

T/MR UPDATE PROCESS

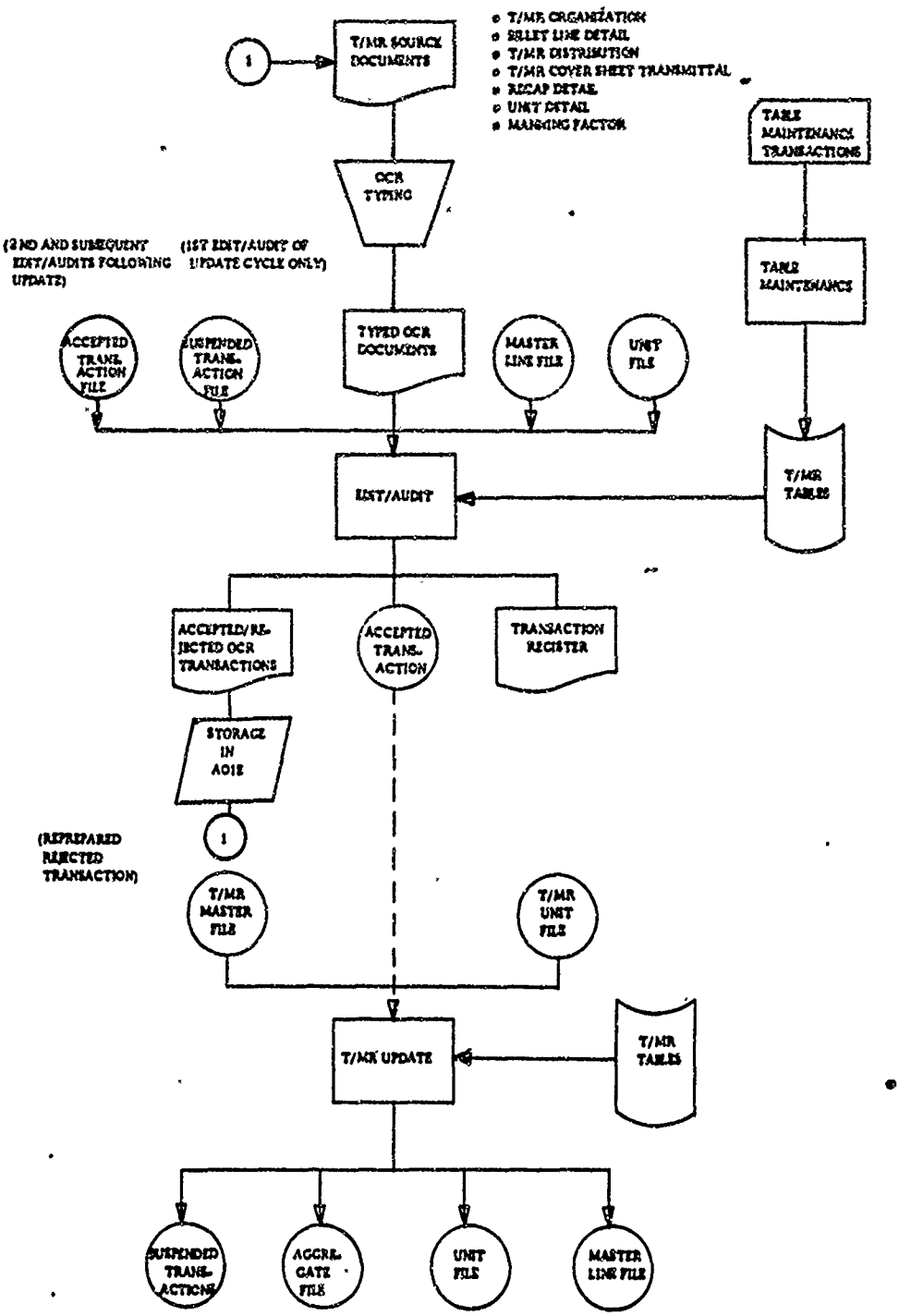
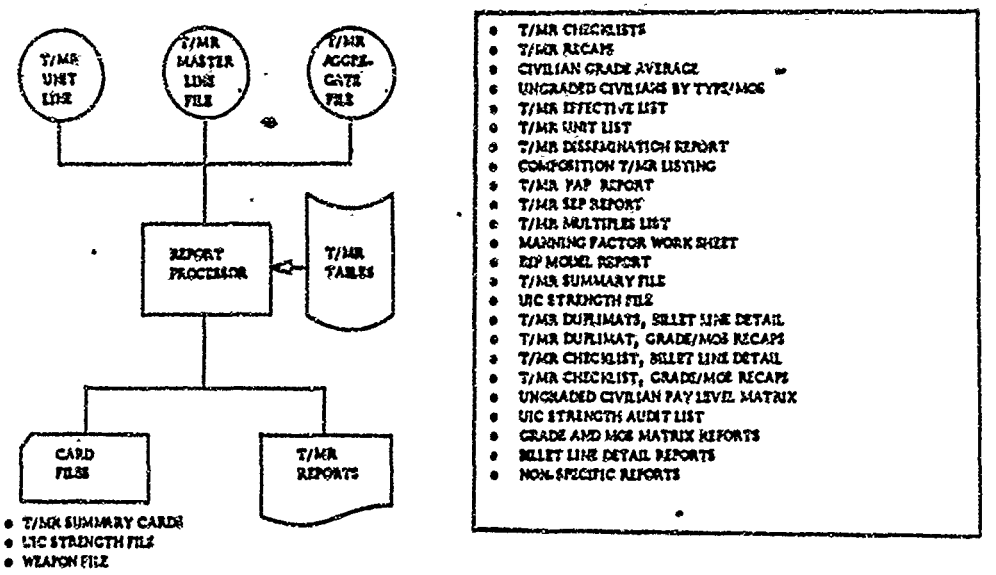


Figure 2-1

REPORTS SUB-SYSTEM



RELATED PROCESSES INTERFACE

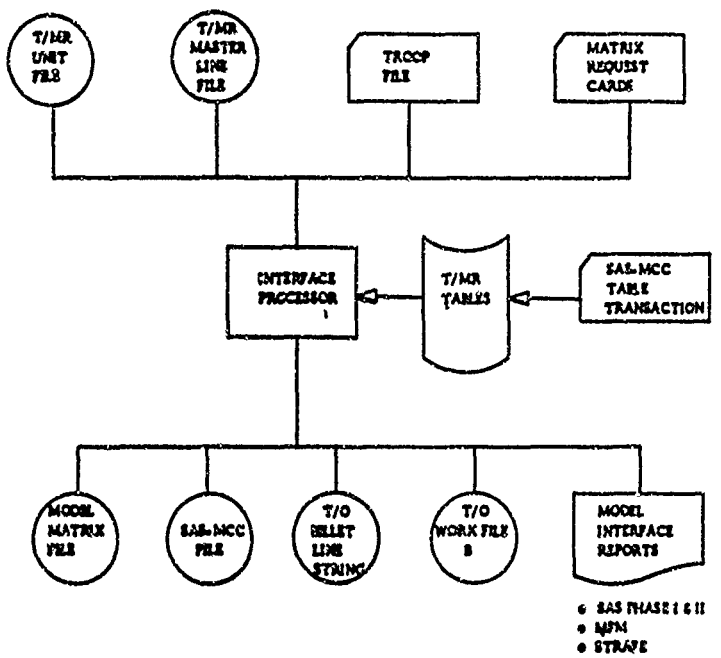


Figure 2-1 (Continued)

Data entry for the T/MR starts with completion of one or more T/MR Transcription Forms (see section 5.2). The completed Transcription forms serve as a source document for the OCR typist (key punch may be used as OCR back-up). Tapes produced as a result of the OCR processing are input to the T/MR Edit/Audit process (see section 5.4). It will be seen that the T/MR Edit/Audit routines receive input from the Accepted Transaction or Suspense Transaction Files, the Master Line File, the Unit File and T/MR tables. For a discussion of the Master Line File and the Unit File see section 4. For a discussion of T/MR Table creation and update see section 3.4. The Suspended file is a listing of T/MR transactions on magnetic tape that for some particular reason were not effected to the system during the previous monthly update. During the first edit/audit of the update cycle these transactions are posted to the new accepted transaction file. The Master Line File and the Unit File contain the most current information from the previous update cycle. There are three outputs from the Edit/Audit process. These are:

- Accepted/Rejected OCR transactions input forms
- Accepted Transactions (on magnetic tape)
- The Transaction register

Documents containing rejected OCR transactions are returned to the T/MR analyst and/or OCR typist as appropriate for correction and re-entry into the system. Error Free OCR documents are placed in reference storage. The Transaction Register contains a listing of all transactions both accepted, rejected, and suspended by the computer

edit/audit phase and is used as a reference document for T/MR analysts and other Headquarters Marine Corps agencies. Following the several periodic edit/audits, (generally monthly), the accepted transactions are input to the T/MR update process. Again the T/MR Master Line File, the T/MR Unit File and the T/MR tables are used as reference files.

Update of these files and creation of the recurring T/MR reports completes the monthly T/MR update. The remaining processes relate to report preparation and interface with the T/MR related processes.

The Suspended Transaction file contains those transactions which the T/MR analysts have deliberately excluded from the previous monthly update. The Suspense file is created on the basis of the contents of a T/MR table referenced by T/MRCA number; hence a particular transaction(s) can be removed from suspense status prior to either Edit/Audit or Update by modification of the SUSPEND table.

After T/MR Update, the T/MR Aggregate, Unit, and Master Line files will have been modified by the Accepted Transactions. They will serve as the T/MR information source until the next update.

The weapon file (presently card format) reflects the total number of "individual" weapons by weapon type by T/MR. This file serves as input to equipment authorization systems maintained by the Assistant Chief of Staff G-4.

There are a number of reports (see section 6.2 for specific information) prepared in conjunction with the T/MR update. These are:

- o T/MR Checklists, Higher Level T/MR Recaps (Formerly Battalion Recap)
- o Civilian Grade Average (when requested)
- o Ungraded Civilians by Type/MOS (when requested)
- o T/MR Effective List
- o T/MR Unit List(s)
- o T/MR Dissemination Report
- o Composition T/MR Listing
- o T/MR PAP Report
- o T/MR SEP Report
- o T/MR Multiple List
- o Manning Factor Worksheet (when requested)
- o RIP Model Report (when requested)

In addition to the reports prepared in conjunction with the T/MR Update, there are a number of recurring reports that can be produced during the update process or as requested at other times. T/MR output programs use the updated T/MR files and tables in conjunction with a T/MR Report Processor. These include:

- o Card Files
  - T/MR Summary File (DFB 100% Billets)
  - UIC Strength File (FORSTAT JM-1 cards)
- o T/MR Reports
  - T/MR Duplimat, Billet Line Detail
  - T/MR Duplimat, Grade/MOS Recaps
  - T/MR Checklist, Billet Line Detail

T/MR Checklist, Grade/MOS Recaps

Ungraded Civilian Pay Level - Type Matrix

UIC Strength Audit List

- Ad-hoc Reports

  Grade and MOS Matrix

  Billet Line Detail

  Non-Specific

There are a series of T/MR computer programs which produce output suitable for input to the SAS, MPM, and STRAFE Manpower Management models. The T/MR model interface computer programs are incorporated into an Interface Processor. Input to the Interface processor is from the T/MR Unit File, Master Line File, a user designated Troop File, a series of Matrix request cards, the SAS-MCC Transactions table, and the regular T/MR tables. Output from the T/MR Interface Processor includes:

- Model Matrix File
- SAS-MCC File
- T/O Billet Line String (Authorized Strength by PEN process)
- T/O Work File B (Authorized Strength File process)
- Model interface reports

  SAS PHASE I and II

  MPM

  STRAFE

These files and reports serve as input to the Manpower Management Models and indicated T/MR (T/O) related report processes.

T/MR DATA ELEMENTS AND TABLES

3.1 INTRODUCTION

This section defines the T/MR data elements, provides additional information on conventions applicable to certain of the data elements, describes the Tables and table maintenance utilized in the T/MR system, and discusses data element validation procedures.

3.2 T/MR DATA ELEMENT DICTIONARY

The T/MR Dictionary (figure 3-1) contains concise definitions and the following items of information related to each data element employed in the T/MR system:

- Data Element Characteristics
  - Data Element Number (DEN) Identifier
  - T/MR Mnemonic used in information retrievals
  - Number of Characters (BYTES) in the Data Element field
  - Type of field, i.e., Alpha Numeric (A/N), Numeric (N), or Packed Decimal (P).
- File(s) in which the data element is contained
  - Master Line File (MLF)
  - Unit File (UNIT)
  - Aggregate File (AGG)
- Code Reference, either a published document, or appropriate section of this manual

DATA ELEMENT NAME	CHARACTERISTICS: DEN	T/MR MNEMONIC	SIZE	TYPE	FILES: MLF	UNIT	AGG	CODE REF	DEFINITION
ACTIVITY ADDRESS CODE		ACC	7	N		X		MCO P5400.6C	A code identifying an organization for the purposes of printing and publication distribution
ADD/DELETE FLAG		A/D1	1	A/N				Sec 3.3	An indicator that reflects a system action to be taken in conjunction with the effective date
ALPHA GRADE CODE		A-GRADE	6	A/N	X			MCO P1080.20C Par. 1090 Also Sec 3.1.2	MMS Grade Abbreviation for military billets and standard designation for civilian billets
BILLET DESCRIPTION		BILLDESC	24	A/N	X			MCO P1200.7A	English Description of a billet line
BILLET SPONSOR		BILLSPON	3	A/N	X			HQO1500.5 HQO5320.2B	The HQMC staff agency having cognizance (if any) over a particular billet line
BILLET STATUS		STATUS/B (MLF) STATUS (AGG)	1	A	X		X	Sec. 3.3	An indicator designating a type of "non-chargeable" status of a billet line
BRANCH		BRANCH/B (MLF) BRANCH (AGG)	1	A	X		X	Sec 3.3	Code representing service component or civilian citizenship.
DESIGNATOR CODE			2	A/N	X			Sec. 3 Fig. 3-3 3-11 3-12	A table designated System Generated Code that ties combinations of Branch, Type, and Billet Status Codes to english descriptions of the various officer, enlisted and civilian categories within the overall categories of Chargeable, Fleet Assistance/Contingency and Supplementary.
EDUCATION CODE		EDUC 1	2	A/N	X			MCO P1080.20C Par. 1011	Code used to represent education requirements of a billet line by major subject. Used in conjunction with a qualifier code
EFFECTIVE DATE		EFFDATE1	4	N	X	X		NONE	The date that the status of a T/MR record changes. It is used in conjunction with an Add/Delete Flag. (YYMM)
FOOTNOTE CODE		FTN IND	1	A	X			Sec. 3.3	A code indicating that a specific standard footnote applies to a billet line.
FOOTNOTE SEQUENCE CODE		FTN SEQ	2	N	X			NONE	A numeric code to control the sequence of multiple lines of text associated with a single footnote.
FOOTNOTE TEXT		FTN TEXT	50	A/N	X			See Footnote Code	A descriptive statement defining additional billet requirements not otherwise expressable by use of a data element, combination of data elements and/or the system generated English associated with a standard footnote code.
FOREIGN LANGUAGE CODE		LANG 1 LANG 2	2	A/N	X			MCO P1080.20C Par. 1080	A code identifying a foreign language requirement of a billet line. Used in conjunction with a Qualifier Code.
GEOGRAPHIC LOCATION (G/L)		G/L	2	A/N		X		MCO P1080.20C App. D & E	A code that identifies a foreign country, major water area or state within the United States.
MAJOR PROGRAM MEMORANDUM CODE		MPM	2	N		X		NONE	Code which identifies the categories in the "Manpower Summary by Location and Mission" format. (Previously known as Draft Presidential Memorandum Code (DPM).)
MANNING FACTOR		MF100.. MF70 or MM100-X	3	N	X			Sec. 5.2	Number authorized for a billet line at the appropriate percentage levels of manning.

DATA ELEMENT NAME	LTR	T/MR MNEMONIC	SIZE	TYPE	MLR	UNIT	[illegible]	SOURCE	DEFINITION
[illegible]		[illegible]	[illegible]	[illegible]	[illegible]			[illegible]	[illegible]
[illegible]		[illegible]	[illegible]	[illegible]		X		[illegible]	[illegible]
MILITARY OCCUPATIONAL SPECIALTY [illegible]		MOS [illegible] MOS-[illegible] [illegible] MOS(ADD)	4	N	X		X	MCO P[illegible]	[illegible]
MOS/GRADE MATRIX			79	A/N	X		X	NONE	An MOS summaries [illegible] by Grade, Type Billet [illegible] and Grade categories
NUMBER OF COPIES		COPIES	3	N		X		NONE	Quantity of T/MRs authorized for distribution to a particular activity. Used in conjunction with an Activity Address Code.
OPERATOR CODE			1	A				Sec. 3.2	A transaction code specifying a file maintenance action.
ORGANIZATION DESCRIPTION		ORG DESC	45	A	X			NONE	The name or title of a Table of Manpower Requirements.
ORGANIZATION TYPE		ORG TYPE	1	A/N	X			Sec. 3.3	A code designating the possible combination of Base/Higher Level T/MR, Aggregate/Billet Line Detail T/MR; and Structure/Planning T/MR
PAY GRADE CODE		N-GRADE	2	A/N	X			Sec. 3.3	A code relating to the pay grade, civilian or military as appropriate.
PERSONNEL ALLOCATION PLAN CODE		PAP	1	A/N	X			MCO P1080.20C Par. 1130	A code identifying billets to a functional category.
PROGRAM ELEMENT NUMBER		PEN	6	A/N		X		DOD Instr. 7045.7	A code identifying sub-categories within major programs of the Five Year Defense Program.
PSEUDO MONITORED COMMAND CODE (PsMCC)		PSMCC	4	A/N		X		NONE	Code used to identify specific units to FMF Battalion/Separate Company levels and for other purposes as required by Data Services Officer AC/S, G1 (code AO1E).
QUALIFIER CODE		MOS 2/Q MOS 3/Q EDUC 1/Q EDUC 2/Q LANG 1/Q LANG 2/Q SCH 1/Q SCH 2/Q	1	A	X			Sec. 3.3	A code indicating the necessity/desirability of one of several billet requirement codes. Used in conjunction with additional MOSs, Education Codes, Foreign Language Codes, and Service Schools Codes.
RANK/WEAPON/MOS EXCEPTION FLAG		R/W/M	1	N	X			Sec. 3.3	A code indicating an appropriate compatibility test is to be bypassed during T/MR edit/auditing.
RECORD CODE		REC CODE	1	A	X			Sec. 3.1.2	A code identifying the various types of physical records in the Master Line File. Not to be confused with Transaction Records Codes used to maintain the T/MR Data Base.

Figure 3-1 (Cont'd)

[illegible]		[illegible]						[illegible]	DEFINITION
[illegible]		[illegible]	[illegible]	[illegible]		[illegible]		[illegible]	A code identifying a [illegible] [illegible] personnel accounting purposes
[illegible]						[illegible]		[illegible]	An [illegible] assigned by [illegible] [illegible] command relationship with the corresponding Responsibility Center and Expense Operating Budget [illegible]
[illegible]					[illegible]			[illegible]	A control field used to identify organizational [illegible] within a Table of Manpower Requirements. This field will be system controlled with unique numbers assigned to every T/MR line number for a specific section. As new sections are encountered, the section control field will be incremented by value of one.
[illegible]		[illegible]		[illegible]	A			[illegible]	An English description of a section subordinate to the major organization of a T/MR
[illegible]		[illegible]	[illegible]	[illegible]	[illegible]			[illegible]	A code indicating the level of security clearance required by the incumbent(s) of a billet line
[illegible]		[illegible]	[illegible]	[illegible]		A		NONE	A field which controls the number of times a variable occurrence of controlled data appears within the structure of a record. Within the Unit file four separate segment counters are required: Seg. 18 - Will Control Unit Info. Seg. Seg. [illegible] - Will Control Line From/To Seg. Seg. [illegible] - Will Control Composition Mult Seg. [illegible] - Will Control Dissemination
SERVICE SCHOOL		SCH 1 SCH 2	[illegible]	A/N	X			MCO [illegible] App. C	A code identifying a service school requirement for the incumbent(s) of a billet line. It is used in conjunction with a Qualifier Code
SPECIAL EDUCATION PROGRAM FLAG		SEP FLAG	1	N	X			NONE	A flag [illegible] indicating that a Special Education Program Code (SEP) applies to the billet line
SUBSECTION DESCRIPTION		[illegible]CDE[illegible]	[illegible]	A/N	[illegible]			NONE	The English title of a subsection within a section within the major organization of a T/MR
TABLE OF EQUIPMENT (T/E) NUMBER		T/E	5	A/N	X			NONE	A number that identifies a Table of Equipment analogous to a Table of Manpower Requirements
T/MR LINE NUMBER		LINE-NO(MLF) LINE-FR LINE-TO (UNIT)	5	A/N	X	X		NONE	A code used to identify a specific line within a Table of Manpower Requirements. Line number will contain four digits and possibly an alpha suffix
T/MR MAINTENANCE DATE		DATE-UPD	4	A/N	X			NONE	A system generated date in each T/MR to denote the last computer update to the T/MR
T/MR MULTIPLE		A-MULT 1 . . (MLF) . A-MULT 7	1	N	X			NONE	A T/MR multiple which is associated with the T/MR number with which it appears. It appears in the record of a base T/MR and in conjunction with a higher level T/MR number indicates the number of

Figure 3-1 (Cont'd)

DATA ELEMENT NAME	CHARACTERISTICS				FILES			CODES (EX)	DEFINITION
	DEN	T/MR MNEMONIC	SIZE	TYPE	MLF	UNIT	AUG		
T/MR MULTIPLE (Cont'd)		COMPMULT (UNIT)				A			[illegible]
T/MR NUMBER		T/MR NO	5	A/N	X	X	X	[illegible]	[illegible] consisting of 4 [illegible] digits and possibly an alpha suffix
T/MRCA NUMBER		T/MRCA	6	N	X			NONE	A number assigned to a T/MR Change Authorization (T/MRCA) document for audit trail purposes
TRANSACTION RECORD CODE		NONE	1	A/N				See 3.1.5	A code identifying the type of 80 character transaction types used to maintain the T/MR Data Base.
[illegible]		TYPE /B (MLF) TYPE (AUG)	1	A	X		X	See 3.1.2	A code identifying a Naval Aviator, Naval Flight Officer, Aviation Ground Officer, Other Officer (including Warrant Officer), Enlisted, or Graded/Upgraded/Excepted billets.
UNIT IDENTIFICATION CODE (UIC)		UIC	6	A/N		X		MCO P5000.12D	A code assigned to all Marine Corps organizations, Regular and Reserve for reporting purposes within the National Military Command System (includes NMCS/WORSTAT and MAPFAS).
UNIT LINE NUMBER		UNIT NO.	3	N		X		NONE	A code used to identify a unique unit record associated with a T/MR or portion of a T/MR. This element is applicable only to Unit Detail Records.
UNIT TITLE		U-TITLE	22	A/N		X		NONE	An English title of a unit unique record; wherein unit unique is defined as a singular combination of: MCC, RUC, PSMCC, PEN, RCN, UIC, MPM, and Geo. Loc
WEAPON CODE		WEAPON	1	A/N	X			See 3.1.4	A code identifying the individual weapon authorized for a specific billet line.

3.3 T/MR DATA ELEMENT COMPENDIUM

The T/MR Data Element Compendium (figure 3-2) contains a listing of those data elements whose codes are wholly or partially unique to the T/MR system. It is organized alphabetically in terms of Data Element Name, Code, and Meaning/Remarks.

T/MR DATA ELEMENT
COMPENDIUM

DATA ELEMENT NAME	CODE	MEANING/REMARKS
ADD/DELETE FLAG	A	Added
	D	Deleted
ALPHA GRADE Marine - See references for Naval Grades	GEN	All General Officers
	COL	Colonel
	LCOL	Lieutenant Colonel
	MAJ	Major
	CAPT	Captain
	LT	All Lieutenants
	CWO	Chief Warrant Officer
	WO	Warrant Officer
	SGTMAJ	Sergeant Major
	MGYSGT	Master Gunnery Sergeant
	1ST SGT	1st Sergeant
	MSGT	Master Sergeant
	GYSGT	Gunnery Sergeant
	SSGT	Staff Sergeant
	SGT	Sergeant
	CPL	Corporal
	LCPL	Lance Corporal
	PVT	Private First Class & Private
GRADED U.S. CIVILIANS	GS99	The "99" in the alpha grades for Graded and Ungraded Civilians represents the numeric grade or pay level respectively. When a single digit represents the grade/pay level as in "GS 7", there is a space between the alphabetics and the numeric.
GRADED IND. CIVILIANS	IS99 or IS	
UNGRADED CIVILIANS (U.S. AND IND.)	WA99 WM99 WB99 WP99 WD99 WR99 WF99 WS99 WG99 WX99 WI99 WY99 WL99	
EXCEPTED CIVILIAN	EXCP	
BILLET STATUS	C	Contingency Billet
	F	Fleet Assistance Billet
	S	Supplemental Billet (In non-FMF T/MR's, indicates a billet that is required but in excess of authorization. In FMF T/MR's, indicates billets effective only upon notification by CMC. In neither case are the billets included in chargeable totals.)
	R	Filled by Reserve not on Active Duty
	X	Other Non-Chargeable Billet
	BLANK	Chargeable Billet
BRANCH	M	U. S. Marine
	N	U. S. Navy
	A	U. S. Army
	F	U. S. Air Force
	P	U. S. Coast Guard
	C	U. S. Civilian
	I	Indigenous Civilian

Figure 3-2

DATA ELEMENT NAME	CODE	MEANING/REMARKS
FOOTNOTES		
ADDITIONAL DUTY	A	This footnote will be used when the subject billet line is non-chargeable.
ADDITIONAL DUTY AS	B	This footnote will be used when the subject billet line is chargeable and performs the requirement of another non-chargeable billet or another function for which no billet line exists.
CROSS TRAINING BILLET	C	This footnote will be used to indicate a billet suitable as an Aviation/Ground cross training billet.
INTERCHANGEABLE BILLET	I	This footnote will be used to identify a pair of billet lines in a T/MR such that when one is filled by an Aviator the other is filled by a ground officer and vice versa.
Opcon of/Adcon of	O	This footnote will be used in those cases when the administrative responsibility of one organization and under the operational command of another. No system generated English. Footnote must be coded entirely in the footnote text field.
PROFICIENCY FLYING BILLET	P	This footnote will be used to indicate proficiency flying billets.
MUST BE FILLED BY MALE MARINE	M	This footnote will be used in those cases when the subject billet MOS is a MOS applicable to both Woman and Male Marines, but that special circumstances require a male Marine assignment.
SUITABLE SUBSTITUTION	S	This footnote will be used when the requirement of the subject billet line can be satisfied by other specific grade(s) or MOS(s).
MUST BE FILLED BY WOMAN MARINE	W	This footnote will be used in those cases when the subject billet mos is a MOS applicable to both Woman and Male Marines, but that special circumstances require a Woman Marine assignment.
Miscellaneous	Z	This footnote will be used to categorize those footnotes which can not be described by the footnote data elements or the other Standard Footnotes. No system generated English. Footnote must be coded entirely in the footnote text field.
ORGANIZATION TYPE	1	Higher Level Structure T/MR
	2	Higher Level Planning T/MR
	3	Billet Detail Base Planning T/MR
	4	Aggregate Base Planning T/MR
	A	Aggregate Base Structure T/MR
	B	Billet Detail Base Structure T/MR

Figure 3-2 (Cont'd)

DATA ELEMENT NAME	CODE		MEANING/REMARKS
PAY GRADE	O 7		General Officer
	O 2		All Lieutenants (LTjg and Ensign)
	O 1		All CWO and WO
	E 2		All Pvt/Pfc
	∯ ∯		Excepted Civilians
	O 3 - O 6		Appropriate to Alpha Officer Grade
	E 3 - E 9		Appropriate to Alpha Enlisted Grade
	∯ 1 - 18		Appropriate to GS rating for graded civilians (Note Leading ∯)
	∯ 1 - 97		Appropriate to Pay level for Wage Board Civilians (Note Leading ∯)
			Note Letter O differs from the numeric zero, "∯"
PERSONNEL ALLOCATION PLAN (PA)	GND	AVN	OPERATING FORCES
	A	B	FMF and Non FMF Combat Commands
	C		Security Forces (Navy)
	E		Security Forces (State Dept)
	F		Security Forces (Ft Meade, Md.)
	G		Security Forces (Spec Activities)
	I	H	Marines Afloat
			TRAINING BASES
	J	K	Permanent Personnel
	R	Q	Reserve Training Program
			SUPPORTING FORCES
	T		Supply Establishment
	V	U	Base Services and Admin (Personnel Procurement)
	W	U	Base Services and Admin
	Z	Y	Joint and Liaison duty with other Government Agencies
			Above comprises only PAP codes acceptable to T/MR System
QUALIFIER	N		Necessary requirement
	D		Desirable requirement
	U		Either of two requirements (of the same type) is necessary
RANK/WEAPON/MOS EXCEPTION FLAG			This data element indicates that certain compatibility edits are by-passed. Unless otherwise specified by use of this code, all compatibility tests are performed on all Marine Billets, and a Rank/Weapon test only for Navy Billets.

Figure 3-2 (Cont'd)

DATA ELEMENT NAME	CODE	MEANING/REMARKS
EXCEPTION FLAG (Cont'd)	BLANK	Compatibility edits should be performed.
	1	Rank/Weapon compatibility edit should not be performed. Data element WEAPON should only be verified for valid weapon codes. These codes are: A, M, P, Q, R, S, U, Dash, Blank.
	2	Rank/MOS compatibility edit should not be performed. Data element MOS should only be verified against the MOS table for a valid MOS code.
	3	Rank/Weapon/MOS compatibility edit should not be performed. When Code 3 is specified, data elements WEAPON and MOS are individually verified as mentioned in Codes 1 and 2 above.
RECORD CODE	A	Organization Header Record
	C	Section Header Record
	D	Subsection Header Record
	E	Billet Line Record
	G	Footnote Text Record
	J	Recap Detail Record
SECURITY CLEARANCE	C	Confidential
	S	Secret
	T	Top Secret
	I	Special Intelligence Access Requirement
TRANSACTION RECORD CODE	A	Basic T/MR Information
	B	T/MR Aggregate Data
	C	Section Record
	D	Sub-section Record
	E	Billet Line Record
	F	Billet Line Qualifier Record
	G	Footnote Text Record
	H	Unit Record
	J	Line Record
	I	Recap Coding
	M	Masking Factor/Multiples
	L	Control Totals
	N	Distribution
TYPE	N	Naval Aviator
	F	Naval Flight Officer
	A	Aviation Ground Officer
	O	Other Officers
	E	Enlisted
	G	Graded Civilian
	U	Ungraded Civilian
	X	Excepted Civilian

Figure 3-2 (Cont'd)

T/MR DATA ELEMENT
COMPENDIUM

DATA ELEMENT NAME	CODE	MEANING/REMARKS
WEAPON CODE	DASH (-)	Weapon category not applicable to billet line (Marines Only).
	BLANK	None designated (other than Marines)
	A	Automatic Rifle
	M	Rifle
	P	Pistol
	Q	Revolver, Snub Nose
	R	Revolver
	S	Sub-machine Gun
	U	Unarmed

Figure 3-2 (Cont'd)

3.4 TABLE DESCRIPTION AND MAINTENANCE

3.4.1 Introduction

This section describes the internal, external, and program tables used in the T/MR system.

Tables are used in the T/MR system to provide the following capabilities:

- o Validation of data element codes
- o Verification of compatibility of data element codes
- o Provision of descriptive English for certain data elements
- o Provision of report titles
- o To provide system performance and output specification

Data element validation entails the comparison of data element codes being entered in the system with allowable codes for those elements. Compatibility tests are conducted as system edits to insure that two or more related data entries are valid. Examples are Rank vs. Weapon code, Alpha and Numeric grade, and Branch and Type. Tables are also used to provide English descriptions, titles for reports and for system performance and output specification. Examples of these latter capabilities are specification of suspended transactions and specification of which T/MRs are desired in mat format for hard copy output on a particular update.

3.4.2 T/MR Table Definitions

This section defines the types of tables used in the T/MR system. Tables may be considered as "internal," "external," or "program" tables. These are defined as:

Internal Tables - Tables read into core for processing. Examples are PEN, MOS and RCN codes.

External Tables - Tables which are accessed outside the T/MR system on a line by line basis with the desired lines of information being entered into the system for processing.

Program Tables - Tables that are included in the T/MR programs for reasons of efficiency. These are generally small tables of a semi-permanent nature. In the T/MR such data elements as PAP code, Billet Status code and Weapon code are handled as Program Tables. In some cases these data elements may also appear in the Internal Tables for certain system applications.

3.4.3 Table Maintenance Responsibilities

The external tables used in the T/MR are maintained by the Headquarters Marine Corps Data Systems Division. Internal tables are maintained by the Manpower Control Branch (AOIE) and Program tables are maintained (if required) by changes to the T/MR programs.

On the infrequent occasion that a Program table entry is changed, the changes are made by the programmers of the Data System Division using the appropriate program detailed design contained in the T/MR Technical Manual. Data elements contained in Program Tables are:

ADD/DELETE FLAG

ALPHA GRADE (UNGRADED CIVILIANS CATEGORIES)

BILLET STATUS

BRANCH

MAJOR PROGRAM MEMORANDUM CODE

ORGANIZATIONAL TYPE CODE

PAP CODE

QUALIFIER: D, N or U

RANK/WEAPON/MOS EXCEPTION FLAG

SECURITY CLEARANCE

SEP FLAG

STANDARD FOOTNOTE CODES

TRANSACTION RECORD CODE/OPERATOR CODE (LEGAL COMBINATIONS)

TYPE

WEAPON CODE

3.4.4 Maintenance of T/MR Internal Tables

There are four types of T/MR Internal Tables to be maintained. While four types of Internal Tables are considered, the maintenance procedures for each of these types is essentially the same. The difference between types of Internal T/MR Tables is a function of the system use, hence the frequency and/or necessity for table update.

The four Internal Table types are defined as follows:

F = Functional tables - tables required for system operation. See Section 5.5 for a discussion of the use of the Functional tables.

M = Maintenance tables - tables required for special system maintenance procedures. See Section 5.6 for a discussion of the use of the Maintenance tables.

R = Reports tables - tables associated with reports production. See Section 6 for identification of those reports related to a specific table.

D = Reference/Edit tables - tables associated with data reference and validation.

3.4.5 Use of the Reference/Edit Tables in the T/MP System

The Reference/Edit tables are listed below:

ADHOCNAM

A/N - RANK

DESIGNCON

DESIGNDEF

EDUC

LANGUAGE

MOS-TBL

PEN-TBL

RCN-TBL

SERV-SCH

STD FTN

These tables are used for reference and edit purposes. They will require maintenance when a data element such as PEN code or RCN code changes, and when a T/MR change is authorized which uses an Education, Foreign Language or Service School code not on the T/MR table file. When this latter situation exists, the analyst, using the Manpower Management Codes Manual will update the table to include the desired element. Due to space limitations, it is required that the English description associated with any T/MR table element (if applicable) contain 30 or less characters.

3.4.6 Manpower Control Branch T/MR Table Maintenance Procedures

T/MR table maintenance will be performed using the procedures and forms of the MARK IV system. Figure 3-3 is a chart of the T/MR Internal Tables. Additional comments appear on Figures 3-4 through 3-26 as appropriate. This chart contains the following information for each T/MR Table:

- o Table Name
- o Table Type*
- o Table Element/s
- o Table Function
- o System Functional Referenc
- o Update Form Figure Reference

* The X suffix (when used) indicates that this table is automatically purged after use.

Using this chart, table maintenance update is reduced to completion of the referenced form for the table to be updated.

In completing the appropriate form (Mark IV TB form), the table element name appearing in the form heading will be placed in columns 1-8. Unless otherwise indicated, the code of the data element (argument) will be placed starting in column 13. The code English description (30 characters maximum) or other applicable code, if any, will be placed starting in column 43. The completed table maintenance coding forms will be key punched and processed according to established Manpower Control Branch procedures.

T/MR INTERNAL TABLES

TABLE NAME	TYPE	TABLE ELEMENT/S	TABLE FUNCTION	SYSTEM FUNCT REF.	UPDATE FORM FIGURE REF.
ADHOCNAM	D	REQUEST NAMES	Description of Request Names assigned to ad hoc retrievals. The description is used as a heading on all report pages generated in the retrieval and specifies up to 7 control break titles.	Sec. 3.4	Fig. 7-4
A/N-RANK	D	RANK CODE	Edit - used to validate input of the same data element	Sec. 3.4	Fig. 3-4
B5-LN-CH	MX	T/MR NO. & LINE NO (Combinations)	Table used to reposition line numbers within a T/MR. contains T/MR number, present line number and new T/MR line number	Sec. 5.6	Fig. 3-5
B5R-D/C	MX	T/MR NO.	Table used to redesignate a T/MR with the number of a T/MR already on file and delete the old T/MRs. Table contains present T/MR numbers and operator codes of D (delete) and C (change).	Sec. 5.6	Fig. 3-6
B5R-DUAL	MX	T/MR NO.	This table is used to create duplicate image of a T/MR with a new T/MR number. It presents T/MR number and new T/MR number.	Sec. 5.6	Fig. 3-7
B5-SEQ	MX	T/MR LINE NO.	Table used to resequence T/MR line numbers, eliminating all Alpha suffixes; contains T/MR number of T/MR(s) to be resequenced.	Sec. 5.6	Fig. 3-8
CGA-T/MR	R	T/MR NO	Table of all T/MRs for which a Civilian Grade Average report is to be produced	Sec 6	Fig. 3-9
CHKLTBL	FX	T/MR NO.	Table of T/MRs for which checklists are desired which would not be produced automatically	Sec. 5.5	Fig. 3-10
DESIGCON	D	BRANCH, TYPE & BILLET STATUS	Table used to convert a combination of T/MR data elements - BRANCH, TYPE and BILLET STATUS to a common designator code for use in report group sequencing when Recapitulation by MOS reports are produced	Sec. 3.4	Fig. 3-11
DESIGDEF	D	DESIGNATOR CODE	Table of Designator Code descriptions	Sec. 3.4	Fig. 3-12
DUPLITBL	FX	T/MR NO.	Table of Base T/MRs for which duplimats are desired which would not be produced automatically	Sec. 5.5	Fig. 3-13
EDUC	D	EDUCATION CODE	Edit - used to validate input of the same data element	Sec. 3.4	Fig. 3-14
HTF *	D	MCC	Edit - used to validate input of the same data element	AP	none
HTF *	D	RUC	Edit - used to validate input of the same data element	AP	none
HTF *	D	GEO. LOC.	Edit - used to validate input of the same data element	AP	none
LANGUAGE	D	LANGUAGE CODE	Edit - used to validate input of the same data element	Sec. 3.4	Fig. 3-15

* Headquarters Marine Corps Tables - not part of the T/MR Tables File
File name DSN = HQMC1.AP12.C5320.PT32HTF - AP maintains

TYPE Legend:

F = Functional Tables - Tables required for system operation
M = Maintenance Tables - Tables required for special maintenance procedures
R = Reports Tables - Tables associated with reports production
D = Reference/Edit Tables - Tables associated with data validation and reference

X = Used as the suffix for a table type - indicates that the table is purged after each Edit/Audit, Update, Report run or File Maintenance run.

Figure 3-3

T/MR INTERNAL TABLES (Cont'd)

TABLE NAME	TYPE	TABLE ELEMENT/S	TABLE FUNCTION	SYSTEM FUNCT. REF.	UPDATE FORM FIGURE REF.
MFWSTBL	RX	T/MR NO.	Table of T/MRs for which Manning Factor Worksheets are to be produced during a specific report processing run	Sec. 6	Fig. 3-16
MOS-TBL	D	MOS OE CODE RANKSPREAD	Edit - used to validate input of the same data element Validation of Type and Rank code Edit and Validation of Pay Grade code	Sec. 3.4	Fig. 3-17
PAP-TBL	R	PAP CODE	Table of PAP Functional Categories which group various PAP codes for summarization on the PAP Report	Sec. 6	Fig. 3-18
PEN-TBL	D	PEN NO.	Edit - used to validate input of the same data element	Sec. 3.4	Fig. 3-19
RCN TBL	D	RCN NO.	Edit - used to validate input of the same data element	Sec. 3.4	Fig. 3-20
RECAPDUP	FX	T/MR NO. (Higher Level)	Table of Higher Level T/MRs for which a Higher Level T/MR Recap report should be produced on duplimat forms	Sec. 5.5	Fig. 3-21
SERV/SCH	D	SERVICE SCHOOL CODE	Edit - used to validate input of the same data element	Sec. 3.4	Fig. 3-22
STD FTN	D	STANDARD FOOTNOTE CODE	Table of Standard footnote descriptions	Sec. 2.4	Fig. 3-23
SUSPEND	F	T/MRCA NO.	Table of T/MRCA numbers which are not to be included in the current month's update process	Sec. 5.5	Fig. 3-24
T/MR-SUM	R	T/MR NO. & T/MR NO. - MCC (Combinations)	Table of T/MRs and T/MR-MCC combinations for which T/MR summary cards are to be produced	Sec. 6	Fig. 3-25
UNGRITBL	RX	T/MR NO.	Table of T/MRs for which the Ungraded Category/ Paylevel matrix report is to be produced	Sec. 6	Fig. 3-26

MARK IV FILE MANAGEMENT SYSTEM®

TABLE DEFINITION

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TABLE NAME: A/N-RANK (1–8) FORM CODE: TB (9–10) PAGE ____ OF ____

TABLE TYPE	DELETE?	PRINT TABLE	ARGUMENT LENGTH	ARGUMENT DATA TYPE	ARGUMENT DECIMAL PLACES	RESULT LENGTH	RESULT DATA TYPE	RESULT DECIMAL PLACES	DECK I.D.
S (11)	(12)	(13)	6 (14–16)	(17)	(18)	2 (19–21)	C (22)	(23)	(73–80)

TABLE NAME (1–8)	FORM CODE (9–10)	CONTINUATION (11)	DELETE? (12)	ARGUMENT VALUE (13–42)	RESULT VALUE (43–72)
A/N-RANK	TE			XXXXXX	XX

ALPHA GRADE DESIGNATION
LEFT JUSTIFIED

PAY GRADE CODE ASSOCIATED WITH EACH ALPHA GRADE DESIGNATION

CAUTION

THE ALPHA GRADE DESIGNATION MUST BE A UNIQUE COMBINATION OF CHARACTERS WITHIN THE TABLE. THE TABLE MUST CONTAIN ALL ALPHA GRADE DESIGNATIONS, MILITARY AND CIVILIAN CONTAINED IN THE T/MR SYSTEM.

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Figure 3-4

MARK IV FILE MANAGEMENT SYSTEM

TABLE DEFINITION

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PAGE ____ OF ____

TABLE NAME: B.S-LN-CH (1–8) FORM CODE: TB (9–10)

TABLE TYPE	DELETE?	PRINT TABLE	ARGUMENT LENGTH	ARGUMENT DATA TYPE	ARGUMENT DECIMAL PLACES	RESULT LENGTH	RESULT DATA TYPE	RESULT DECIMAL PLACES	DECK I.D.
S (11)	(12)	(13)	10 (14–16)	C (17)	(18)	5 (19–21)	C (22)	(23)	(73–80)

TABLE NAME (1–8)	FORM CODE (9–10)	CONTINUATION (11)	DELETE? (12)	ARGUMENT VALUE (13–42)	RESULT VALUE (43–72)
B.S-LN-CH	TE			XXXXXXXXXX	XXXXX
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				

T/MR NUMBER
LEFT JUSTIFIED
13–17

PRESENT LINE NUMBER
RIGHT JUSTIFIED 18–21
SUFFIX 22

NEW LINE NUMBER
RIGHT JUSTIFIED 43–46
SUFFIX 47

CAUTION

THE USER MUST ASSURE APPROPRIATE CORRECTIONS ARE MADE TO THE LINE-FROM/LINE-TO ENTRIES ON THE UNIT FILE AS THIS IS NOT AN AUTOMATIC T/MR FUNCTION.

Figure 3-5

MARK IV FILE MANAGEMENT SYSTEM

TABLE DEFINITION

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PAGE____OF____

TABLE NAME: B5R-D/C (1–8) FORM CODE: TB (9–10)

DECK I.D. (73–80)

TABLE TYPE (11)	DELETE? (12)	PRINT TABLE (13)	ARGUMENT LENGTH (14–16)	ARGUMENT DATA TYPE (17)	ARGUMENT DECIMAL PLACES (18)	RESULT LENGTH (19–21)	RESULT DATA TYPE (22)	RESULT DECIMAL PLACES (23)
S			5	C		6	C	

TABLE NAME (1–8)	FORM CODE (9–10)	CONTINUATION (11)	DELETE? (12)	ARGUMENT VALUE (13–42)	RESULT VALUE (43–72)
B5R-D/C	TE			XXXXX	XXXXX
B5R-D/C	TE			XXXXX	

T/MR NUMBER OF T/MR TO BE DELETED FROM FILE - LEFT JUSTIFIED

PRESENT T/MR NUMBER OF T/MR TO BE REDESIGNATED - LEFT JUSTIFIED.

NEW T/MR NUMBER OF REDESIGNATED T/MR LEFT JUSTIFIED

THIS TABLE ALLOWS THE USER TO DELETE A T/MR AND REDESIGNATE THE IMAGE OF AN OTHER T/MR ON THE FILE WITH THE SAME NUMBER AS THE DELETED T/MR.

Figure 3-6

MARK IV FILE MANAGEMENT SYSTEM®

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TABLE DEFINITION

PAGE ____ OF ____

TABLE NAME (1–8): BER-DUAL

FORM CODE (9–10): TB

TABLE TYPE (11)	DELETE? (12)	PRINT TABLE (13)	ARGUMENT LENGTH (14–16)	ARGUMENT DATA TYPE (17)	ARGUMENT DECIMAL PLACES (18)	RESULT LENGTH (19–21)	RESULT DATA TYPE (22)	RESULT DECIMAL PLACES (23)	DECK I.D. (73–80)
S			5	C		5	C		

TABLE NAME (1–8)	FORM CODE (9–10)	CONTINUATION (11)	DELETE? (12)	ARGUMENT VALUE (13–42)	RESULT VALUE (43–72)
BER-DUAL	TE			XXXXX	XXXXX

T/MR NUMBER OF EXISTING T/MR ON THE FILE - LEFT JUSTIFIED

NEW T/MR NUMBER OF LOOK-A-LIKE T/MR TO BE CREATED- LEFT JUSTIFIED.

THIS TABLE ALLOWS THE USER TO CREATE A DUPLICATE IMAGE OF A T/MR ALREADY ON THE FILE. BOTH IMAGES REMAIN ON THE FILE.

CAUTION

THE USER MUST CONSIDER REQUIRED CHANGES TO THE MULTIPLES, ORGANIZATIONAL TYPE ETC. OF THE LOOK-A-LIKE T/MR CREATED.

Figure 3-7

MARK IV FILE MANAGEMENT SYSTEM

TABLE DEFINITION

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PAGE ___ OF

TABLE NAME: B5-SE0 (1–8) FORM CODE: TB (9 10)

DECK I.D. (73–80)

TABLE TYPE (11)	DELETE? (12)	PRINT TABLE (13)	ARGUMENT LENGTH (14 16)	ARGUMENT DATA TYPE (17)	ARGUMENT DECIMAL PLACES (18)	RESULT LENGTH (19 21)	RESULT DATA TYPE (22)	RESULT DECIMAL PLACES (23)
S			5	C		1	C	

TABLE NAME (1–8)	FORM CODE (9,10)	CONTINUATION (11)	DELETE? (12)	ARGUMENT VALUE (13–42)	RESULT VALUE (43–72)
B5-SE0	TE			XXXXX	
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				

T/MR NUMBER OF T/MR TO BE RESEQUENCED – LEFT JUSTIFIED

NOTE

THE T/MR SYSTEM WILL AUTOMATICALLY ADJUST THE LINE NUMBERS CONTAINED IN THE UNIT FILE AS A PORTION OF THE RESEQUENCING PROCESS.

Figure 3-8

MAK iV FILE MANAGEMENT SYSTEM

TABLE DEFINITION

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C.GA-T/MR TABLE NAME (1–8) FORM CODE: TB (9–10)

PAGE ____ OF ____

TABLE TYPE	DELETE?	PRINT TABLE	ARGUMENT LENGTH	ARGUMENT DATA TYPE	ARGUMENT DECIMAL PLACES	RESULT LENGTH	RESULT DATA TYPE	RESULT DECIMAL PLACES	DECK I D
S (11)	(12)	(13)	5 (14–16)	C (17)	(18)	1 (19–21)	C (22)	(23)	(73–80)

TABLE NAME (1–8)	FORM CODE (9–10)	CONTINUATION (11)	DELETE? (12)	ARGUMENT VALUE (13–42)	RESULT VALUE (43–72)
C.GA-T/MR	TE			XXXXX	

T/MR NUMBER OF T/MR'S TO BE AGGREGATED IN THE CIVILIAN GRADE AVERAGE REPORT PROCESS. T/MR NUMBER LEFT JUSTIFIED

Figure 3-9

MARK IV FILE MANAGEMENT SYSTEM®

TABLE DEFINITION

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PAGE ____ OF ____

TABLE NAME: CHKLTBL (1–8) FORM CODE: TB (9–10)

DECK I.D. (73–80)

	TABLE TYPE (11)	DELETE? (12)	PRINT TABLE (13)	ARGUMENT LENGTH (14–16)	ARGUMENT DATA TYPE (17)	ARGUMENT DECIMAL PLACES (18)	RESULT LENGTH (19–21)	RESULT DATA TYPE (22)	RESULT DECIMAL PLACES (23)
	S			5	C		1	C	

TABLE NAME (1–8)	FORM CODE (9,10)	CONTINUATION (11)	DELETE? (12)	ARGUMENT VALUE (13–42)	RESULT VALUE (43–72)
CHKLTBL	TE			XXXXX	X
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				

T/MR NUMBER FOR WHICH A CHECKLIST FORMAT OUTPUT IS DESIRED. FOR BASE T/MR'S BOTH A BILLET LINE DETAIL AND RECAP OUTPUT WILL BE PRODUCED - LEFT JUSTIFIED.

IF THE T/MR NUMBER REFERS TO A HIGHER LEVEL, A "1" MUST BE PLACED IN COLUMN 43, OTHERWISE THIS COLUMN IS LEFT BLANK.

NOTE

THIS TABLE PROVIDES THE USER WITH THE CAPABILITY TO OBTAIN CHECKLISTS FOR T/MR'S NOT AUTOMATICALLY PROVIDED BY THE EDIT/AUDIT OR UPDATE PROCESS.

Figure 3-10

MARK IV FILE MANAGEMENT SYSTEM®

TABLE DEFINITION

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PAGE ____ OF ____

TABLE NAME: DESIGCON (1–8) FORM CODE: TB (9–10)

DECK I. D. (73–80)

TABLE TYPE (11)	DELETE? (12)	PRINT TABLE (13)	ARGUMENT LENGTH (14–16)	ARGUMENT DATA TYPE (17)	ARGUMENT DECIMAL PLACES (18)	RESULT LENGTH (19–21)	RESULT DATA TYPE (22)	RESULT DECIMAL PLACES (23)
B			3	C		2	C	

TABLE NAME (1–8)	FORM CODE (9,10)	CONTINUATION (11)	DELETE? (12)	ARGUMENT VALUE (13–42)	RESULT VALUE (43–72)
DESIGCON	TE			XXX	XX

COMBINATION OF BRANCH, TYPE AND BILLET STATUS CODES - LEFT JUSTIFIED.

ONE OR TWO CHARACTER DESIGNATOR CODE - RIGHT JUSTIFIED.

EXPLANATION

THIS TABLE ESTABLISHES A DESIGNATOR CODE RELATIONSHIP TO ASSURE PROPER SORTING SEQUENCE IN THE AGGREGATION AND DISPLAY OF TOTALS ON RECAP OUTPUT. SEE FIGURE 3-12 DESIGDEF TABLE.

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Figure 3-11

MARK IV FILE MANAGEMENT SYSTEM®

TABLE DEFINITION

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PAGE ____ OF ____

TABLE NAME: DESIGDEF (1–8) FORM CODE: TB (9–10)

DECK I.D. (73–80)

	TABLE TYPE (11)	DELETE? (12)	PRINT TABLE (13)	ARGUMENT LENGTH (14–16)	ARGUMENT DATA TYPE (17)	ARGUMENT DECIMAL PLACES (18)	RESULT LENGTH (19–21)	RESULT DATA TYPE (22)	RESULT DECIMAL PLACES (23)
	T			2	A		30	C	

TABLE NAME (1–8)	FORM CODE (9–10)	CONTINUATION (11)	DELETE? (12)	ARGUMENT VALUE (13–47)	RESULT VALUE (43–72)
DESIGDEF	TE			XX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				

ONE TO TWO CHARACTER DESIGNATOR CODE - RIGHT JUSTIFIED.

ENGLISH DESCRIPTION ASSOCIATED WITH DESIGNATOR CODE (30 CHARACTERS MAX)

EXPLANATION

A GIVEN ENGLISH DESCRIPTION MAY BE REPEATED FOR TWO OR MORE DESIGNATOR CODES TO PROVIDE FOR THE VARIOUS BILLET STATUS CATEGORIES SHOWN ON RECAPS.

CAUTION

BOTH THIS TABLE AND THE DESIGCON TABLE SHOULD BE MODIFIED ONLY AFTER A DETAILED PROGRAMMER ANALYSIS OF THE IMPACT ON OTHER T/MR SYSTEM FUNCTIONS.

Figure 3-12

MARK IV FILE MANAGEMENT SYSTEM

TABLE DEFINITION

informatics inc.

PAGE ____ OF ____

DUPLTTBL (1–8) TABLE NAME — FORM CODE: TB (9–10)

DECK I.D (73–80)

TABLE TYPE (11)	DELETE? (12)	PRINT TABLE (13)	ARGUMENT LENGTH (14–16)	ARGUMENT DATA TYPE (17)	ARGUMENT DECIMAL PLACES (18)	RESULT LENGTH (19–21)	RESULT DATA TYPE (22)	RESULT DECIMAL PLACES (23)
S			5	C		1	C	

TABLE NAME (1–8)	FORM CODE (9–10)	CONTINUATION (11)	DELETE? (12)	ARGUMENT VALUE (13–42)	RESULT VALUE (43–72)
DUPLTTBL	TE			XXXXX	

T MR NUMBER OF BASE T MR FOR WHICH DUPLIMATS ARE DESIRED DURING AN UPDATE OR EDIT AUDIT - LEFT JUSTIFIED.

NOTE

BASE T MR'S EFFECTED DURING AN UPDATE ARE AUTOMATICALLY PRODUCED IN BILLET LINE AND RECAP DETAIL HENCE NEED NOT BE REQUESTED BY THIS TABLE.

DUPLIMATS OF HIGHER LEVEL T MR'S ARE PRODUCED BY USE OF THE RECAP DUP TABLE, FIGURE 3-21.

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Figure 3-13

MARK IV FILE MANAGEMENT SYSTEM

TABLE DEFINITION

informatics inc.

PAGE ____ OF ____

TABLE NAME: EDUC (cols 1–8) FORM CODE: TB (cols 9–10)

DECK I.D. (cols 73–80)

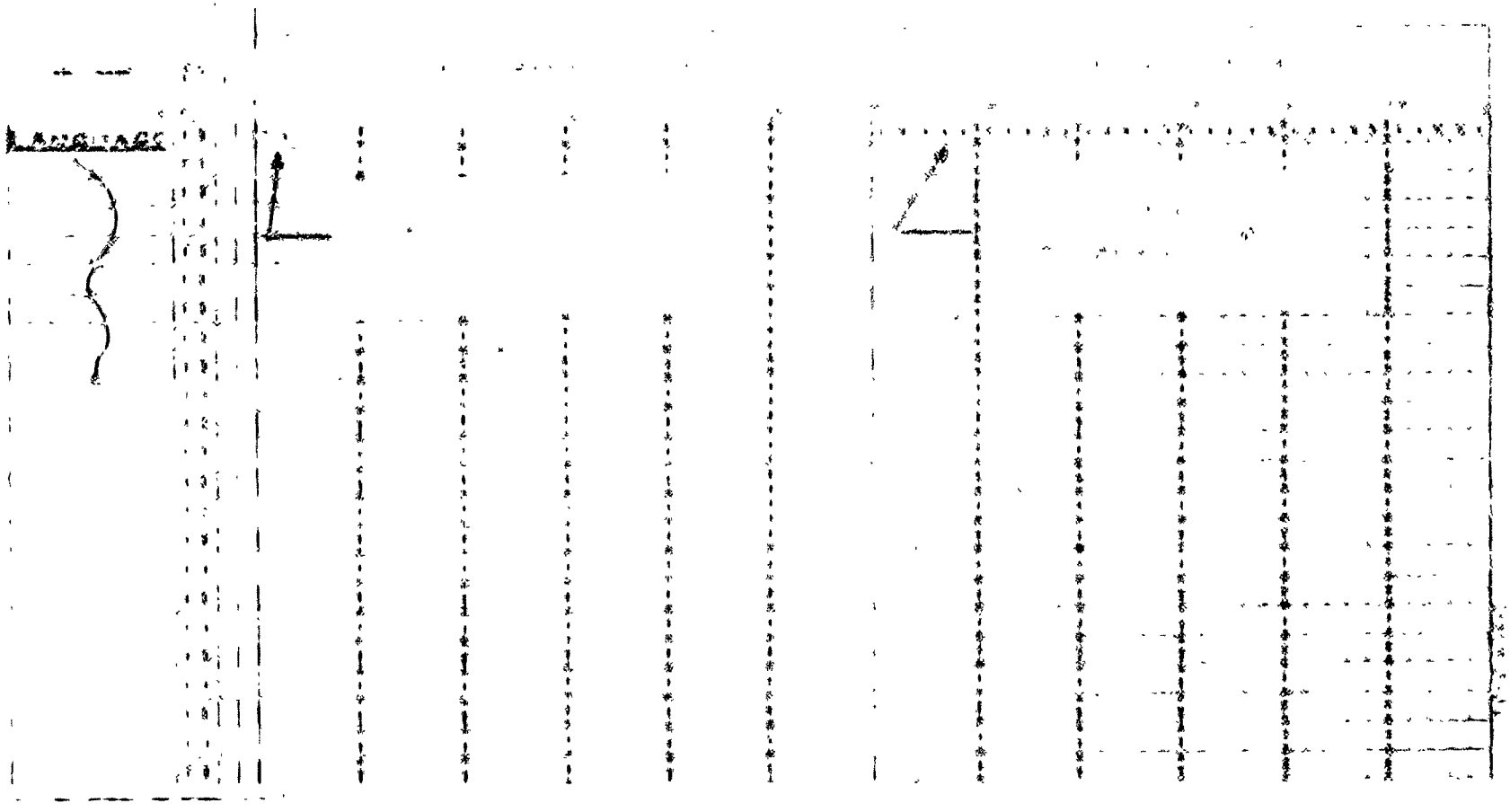
	TABLE TYPE	DELETE?	PRINT TABLE	ARGUMENT LENGTH	ARGUMENT DATA TYPE	ARGUMENT DECIMAL PLACES	RESULT LENGTH	RESULT DATA TYPE	RESULT DECIMAL PLACES
	B		Y	2	C	0	30	A	0
	11	12	13	14–16	17	18	19–21	22	23

TABLE NAME (1–8)	FORM CODE (9–10)	CONTINUATION (11)	DELETE? (12)	ARGUMENT VALUE (13–42)	RESULT VALUE (43–72)
EDUC	TE			XX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				

TWO CHARACTER EDUCATION CODE.

USER SUPPLIED ENGLISH DESCRIPTION TO BE PRINTED ON DUPLIMATS.

Figure 3-14



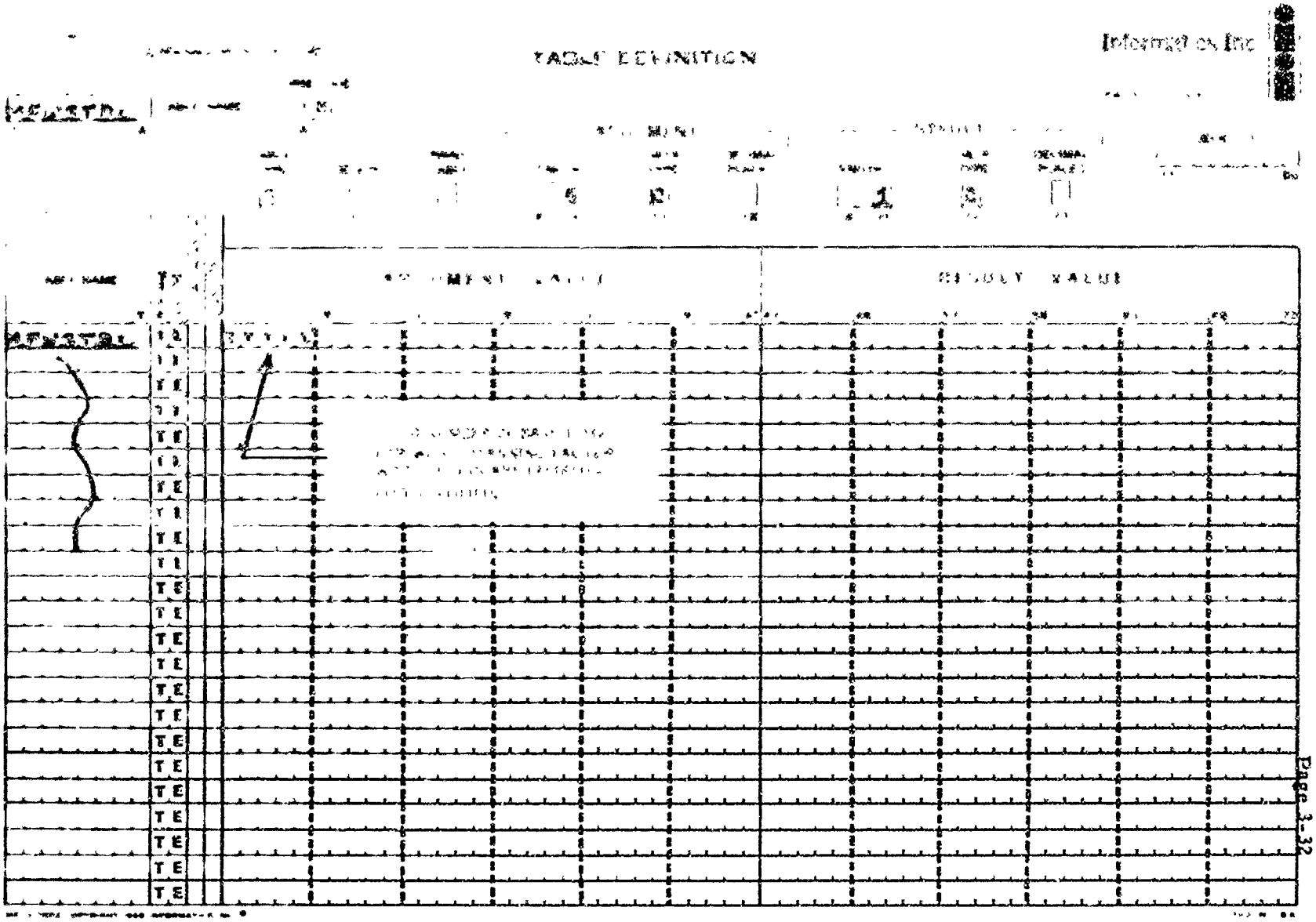


Figure 3-16

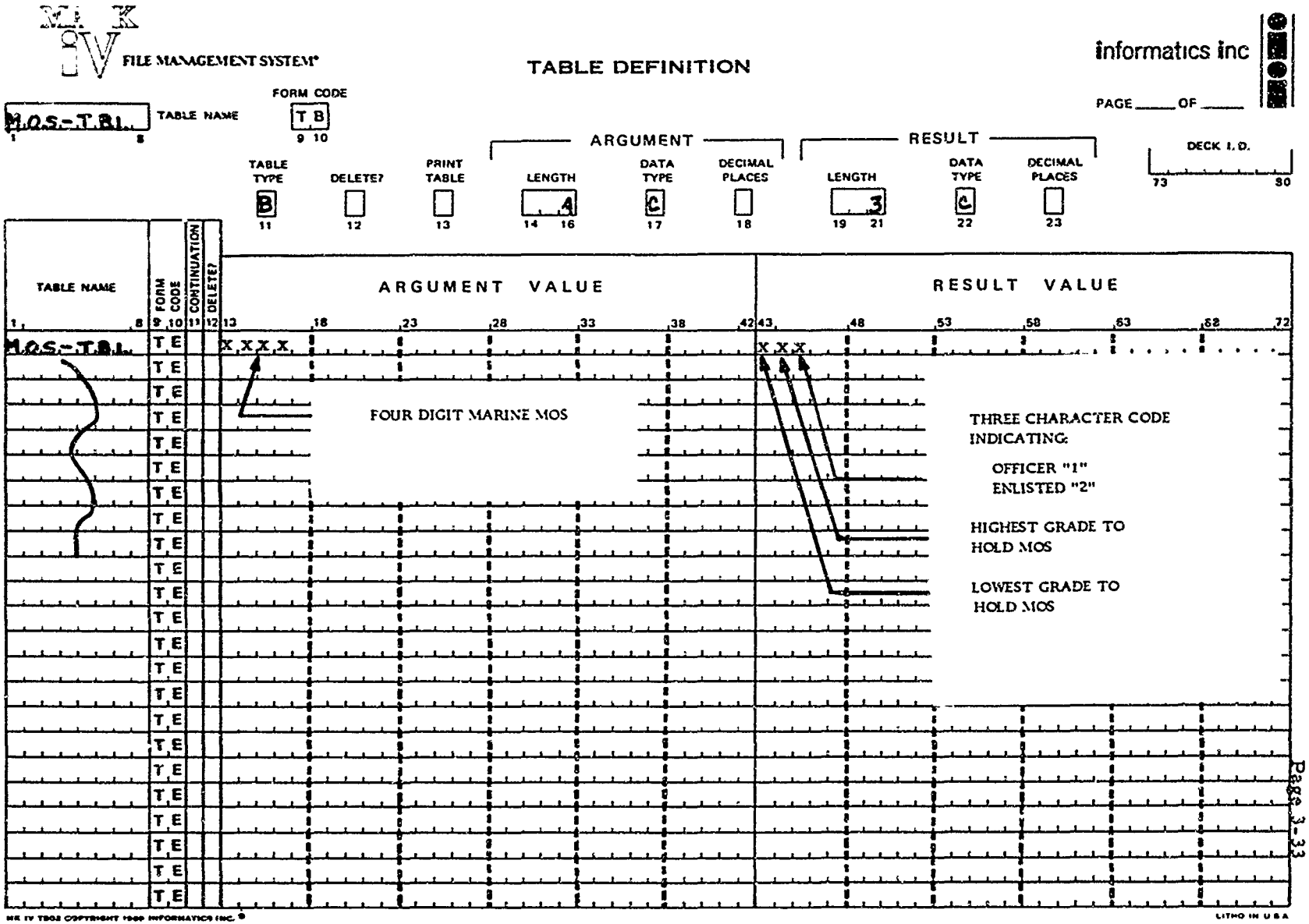

FILE MANAGEMENT SYSTEM
TABLE DEFINITION
informatics inc
PAGE ____ OF ____
M.O.S.-T.B.L.
TABLE NAME
FORM CODE
T B
ARGUMENT
RESULT
TABLE TYPE
DELETE?
PRINT TABLE
LENGTH
DATA TYPE
DECIMAL PLACES
DECK I.D.
B
4
C
3
TABLE NAME
FORM CODE
CONTINUATION
DELETE?
ARGUMENT VALUE
RESULT VALUE
X X X X
X X X
FOUR DIGIT MARINE MOS
THREE CHARACTER CODE INDICATING:
OFFICER "1"
ENLISTED "2"
HIGHEST GRADE TO HOLD MOS
LOWEST GRADE TO HOLD MOS
MK IV TBDS COPYRIGHT 1980 INFORMATICS INC.
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Figure 3-17

MARK IV FILE MANAGEMENT SYSTEM®

TABLE DEFINITION

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TABLE NAME: P.A.P.-T.B.L. (1–8) FORM CODE: T B (9 10) PAGE ____ OF ____

TABLE TYPE	DELETE?	PRINT TABLE	ARGUMENT LENGTH	ARGUMENT DATA TYPE	ARGUMENT DECIMAL PLACES	RESULT LENGTH	RESULT DATA TYPE	RESULT DECIMAL PLACES	DECK I.D.
S (11)	(12)	(13)	1 (14–16)	C (17)	(18)	20 (19–21)	C (22)	(23)	(73–80)

TABLE NAME (1–8)	FORM CODE (9,10)	CONTINUATION (11)	DELETE? (12)	ARGUMENT VALUE (13–42)	RESULT VALUE (43–72)
P.A.P.-T.B.L.	T E			X	XXXXXXXXXXXXXXXXXXXX
	T E			PAP CODE	ENGLISH DESCRIPTION OF PAP CODE CATEGORY TO BE DISPLAYED ON PAP REPORT.
	T E				
	T E				
	T E				
	T E				
	T E				
	T E				
	T E				
	T E				
	T E				
	T E				
	T E				
	T E				
	T E				
	T E				
	T E				
	T E				
	T E				
	T E				
	T E				
	T E				

MK IV TBDS COPYRIGHT 1980 INFORMATICS INC ®

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Figure 3-18

MARK IV FILE MANAGEMENT SYSTEM®

TABLE DEFINITION

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PAGE ____ OF ____

TABLE NAME: PEN-TBL (cols 1–8) | FORM CODE: TB (cols 9–10)

DECK I.D. (cols 73–80)

TABLE TYPE	DELETE?	PRINT TABLE	ARGUMENT LENGTH	ARGUMENT DATA TYPE	ARGUMENT DECIMAL PLACES	RESULT LENGTH	RESULT DATA TYPE	RESULT DECIMAL PLACES
B (11)	(12)	(13)	6 (14–16)	C (17)	(18)	1 (19–21)	C (22)	(23)

TABLE NAME (1–8)	FORM CODE (9–10)	CONTINUATION (11)	DELETE? (12)	ARGUMENT VALUE (13–42)	RESULT VALUE (43–72)
PEN-TBL	TE			XXXXXX	
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				

LISTING OF ALL ALLOWABLE PENS CONTAINED IN T/MR UNIT FILE.

Figure 3-19

MARK IV FILE MANAGEMENT SYSTEM®

TABLE DEFINITION

informatics inc.

PAGE____OF____

TABLE NAME: RCN-TBL (cols 1–8) FORM CODE: TB (cols 9–10)

DECK I.D. (cols 73–80)

TABLE TYPE (11)	DELETE? (12)	PRINT TABLE (13)	ARGUMENT LENGTH (14–16)	ARGUMENT DATA TYPE (17)	ARGUMENT DECIMAL PLACES (18)	RESULT LENGTH (19–21)	RESULT DATA TYPE (22)	RESULT DECIMAL PLACES (23)
B			6	C		1	C	

TABLE NAME (1–8)	FORM CODE (9–10)	CONTINUATION (11)	DELETE? (12)	ARGUMENT VALUE (13–42)	RESULT VALUE (43–72)
RCN-TBL	TE			XXXXXX	
	TE			LISTING OF ALL ALLOWABLE RCN'S CONTAINED IN T/MR UNIT FILE.	
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				

Figure 3-20

MARK IV FILE MANAGEMENT SYSTEM

TABLE DEFINITION

informatics inc.

PAGE ____ OF ____

TABLE NAME: R.E.C.A.P.D.u.P (1–8) FORM CODE: T B (9 10)

DECK I.D. (73–80)

TABLE TYPE (11)	DELETE? (12)	PRINT TABLE (13)	ARGUMENT LENGTH (14–16)	ARGUMENT DATA TYPE (17)	ARGUMENT DECIMAL PLACES (18)	RESULT LENGTH (19–21)	RESULT DATA TYPE (22)	RESULT DECIMAL PLACES (23)
S			5	C		1	C	

TABLE NAME (1–8)	FORM CODE (9,10)	CONTINUATION (11)	DELETE? (12)	ARGUMENT VALUE (13–42)	RESULT VALUE (43–72)
RECAPDuP	TE			XXXXX	
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				

T/MR NUMBER OF HIGHER LEVEL T/MR'S FOR WHICH DUPLIMATS ARE DESIRED DURING AN EDIT/AUDIT OR UPDATE.

NOTE
ALL HIGHER LEVEL T/MR DUPLIMATS MUST BE EXPLICITLY REQUESTED. NONE ARE PRODUCED AUTOMATICALLY BY THE SYSTEM.

Figure 3-21

MA K
iV FILE MANAGEMENT SYSTEM

informatics inc.

TABLE DEFINITION

PAGE____ OF ____

SERV/SCH TABLE NAME (1–8)

FORM CODE: T B (9 10)

DECK I. D. (73–80)

TABLE TYPE	DELETE?	PRINT TABLE	ARGUMENT LENGTH	ARGUMENT DATA TYPE	ARGUMENT DECIMAL PLACES	RESULT LENGTH	RESULT DATA TYPE	RESULT DECIMAL PLACES
B (11)	(12)	(13)	3 (14–16)	C (17)	Ø (18)	30 (19–21)	C (22)	Ø (23)

TABLE NAME (1–8)	FORM CODE (9,10)	CONTINUATION (11)	DELETE? (12)	ARGUMENT VALUE (13–42)	RESULT VALUE (43–72)
SERV/SCH	TE			XXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				

THREE CHARACTER SERVICE SCHOOL CODE

USER SUPPLIED ENGLISH DESCRIPTION TO BE PRINTED ON DUPLIMATS

Figure 3-22

MARK IV FILE MANAGEMENT SYSTEM

TABLE DEFINITION

informatics inc.

PAGE ____ OF ____

TABLE NAME: STD_FTN (cols 1–8) FORM CODE: TB (cols 9–10)

	TABLE TYPE	DELETE?	PRINT TABLE	ARGUMENT LENGTH	ARGUMENT DATA TYPE	ARGUMENT DECIMAL PLACES	RESULT LENGTH	RESULT DATA TYPE	RESULT DECIMAL PLACES	DECK I.D.
	S			1	C		30	C		
cols	11	12	13	14–16	17	18	19–21	22	23	73–80

TABLE NAME (1–8)	FORM CODE (9–10)	CONTINUATION (11)	DELETE? (12)	ARGUMENT VALUE (13–42)	RESULT VALUE (43–72)
STD_FTN	TE			X	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				

FOOTNOTE CODE

ENGLISH TEXT TO BE PRINTED AUTOMATICALLY WHEN FOOTNOTE CODE USED IN "G" TYPE RECORD. MAY BE LEFT BLANK FOR FOOTNOTES THAT ARE HAND CODED IN THEIR ENTIRETY.

Figure 3-23

MIKE IV

FILE MANAGEMENT SYSTEM

TABLE DEFINITION

informatics inc.

SUSPEND. (1–8) TABLE NAME

FORM CODE: TE (9 10)

PAGE ____ OF ____

TABLE TYPE (11)	DELETE? (12)	PRINT TABLE (13)	ARGUMENT LENGTH (14 15)	ARGUMENT DATA TYPE (17)	ARGUMENT DECIMAL PLACES (18)	RESULT LENGTH (19 21)	RESULT DATA TYPE (22)	RESULT DECIMAL PLACES (23)	DECK I.D. (73–80)
S			6	C		1	C		

TABLE NAME (1–8)	FORM CODE (9 10)	CONTINUATION (11)	DELETE? (12)	ARGUMENT VALUE (13–42)	RESULT VALUE (43–72)
SUSPEND.	TE			XXXXXX	
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				

T/MRCA NUMBER OF TRANSACTIONS TO NOT TO BE EFFECTED DURING AN UPDATE. ENTRIES ALSO CAUSE THE TRANSACTION TO BE HELD IN A SUSPENDED STATUS DURING EDIT/AUDITS.

Figure 3-24

MK IV FILE MANAGEMENT SYSTEM®

TABLE DEFINITION

informatics inc

PAGE ___ OF ___

T/MR-SUM (1–8) TABLE NAME

FORM CODE: T B (9 10)

DECK I D (73–80)

TABLE TYPE	DELETE?	PRINT TABLE	ARGUMENT LENGTH	ARGUMENT DATA TYPE	ARGUMENT DECIMAL PLACES	RESULT LENGTH	RESULT DATA TYPE	RESULT DECIMAL PLACES
B (11)	(12)	(13)	8 (14–16)	C (17)	(18)	1 (19–21)	C (22)	(23)

TABLE NAME (1–8)	FORM CODE (9,10)	CONTINUATION (11)	DELETE? (12)	ARGUMENT VALUE (13–42)	RESULT VALUE (43–72)
T/MR-SUM	TE			XXXXXXXX	
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				
	TE				

T/MR NUMBER AND MCC (IF APPLICABLE) USED TO SPECIFY DESIRED REQUIREMENTS AGGREGATIONS FOR PRODUCTION OF DFB-S100' AUTHORIZED T/MR SUMMARY CARDS.

T/MR NUMBER 13–17 LEFT JUSTIFIED

MCC 18–20

Figure 3-25

MARK IV FILE MANAGEMENT SYSTEM

TABLE DEFINITION

Informatics inc.

PAGE ____ OF ____

TABLE NAME: UNGR1TBL (1–8) FORM CODE: TB (9–10)

TABLE TYPE (11)	DELETE? (12)	PRINT TABLE (13)	ARGUMENT LENGTH (14–16)	ARGUMENT DATA TYPE (17)	ARGUMENT DECIMAL PLACES (18)	RESULT LENGTH (19–21)	RESULT DATA TYPE (22)	RESULT DECIMAL PLACES (23)	DECK I.D. (73–80)
S			5	C		1	C		

TABLE NAME (1–8)	FORM CODE (9–10)	CONTINUATION (11)	DELETE? (12)	ARGUMENT VALUE (13–42)	RESULT VALUE (43–72)
UNGR1TBL	TE			XXXXX	

T/MR NUMBER OF T/MR'S FOR WHICH AN UNGRADED CATEGORY/ PAY LEVEL MATRIX REPORT IS DESIRED – LEFT JUSTIFIED.

Figure 3-26

3.5 DATA ELEMENT VALIDATION

During the Edit/Audit process, the T/MR system automatically validates, where possible, individual data element codes and the logical relationships between codes. Individual codes are examined by one or more of the following means:

- o Class Test
- o T/MR Program Tables
- o T/MR Internal Tables File
- o External Tables

Class Test refers to examining a code for "all numeric," "all alphabetic" or some specific arrangement of numeric and alphabetic characters. The T/MR Program Tables are those in which the allowable codes, specified in Section 3.3 are an integral portion of T/MR Computer program coding. The T/MR Tables, including both Internal and External Tables, have been discussed in the previous Section 3.1.3.

Figure 3-27 summarizes the data validation means employed for each data element of the T/MR System. If a compatibility test is also performed between two or more data elements the user is referenced to the subsection that defines the nature of the compatibility test. In the Class Test column, "9" represents any numeric and "A," any alphabetic. Specific alphabetics are represented by the letter itself.

DATA ELEMENT VALIDATION SUMMARY

Data Element Name	Data Validation Method				Compatibility Test Reference
	Class Test	T/MR Program Table	T/MR Tables File	External Table	
ACTIVITY ADDRESS CODE	999999				
ADD/DELETE FLAG		YES			3.5.10
ALPHA GRADE CODE		YES (Ungraded Civilians)	YES		3.5.3 3.5.8
BILLET DESCRIPTION	--------	--NONE--	---------	---------	
BILLET SPONSOR	--------	--NONE--	---------	---------	
BILLET STATUS		YES			3.5.4 3.5.5
BRANCH		YES			3.5.1 3.5.2 3.5.3 3.5.4
EDUCATION CODE			YES		
EFFECTIVE DATE	999999				3.5.10
FOOTNOTE CODE		YES			3.5.5
FOOTNOTE SEQUENCE CODE	99				
FOOTNOTE TEXT	--------	-NONE---	---------	---------	
FOREIGN LANGUAGE CODE			YES		
GEOGRAPHIC LOCATION (G/L)				YES	
MAJOR PROGRAM MEMORANDUM CODE		YES			
MANNING FACTOR	X[illegible] or 999				
MANNING MULTIPLES	XXX or 999				
MONITORED COMMAND CODE				YES	

Figure 3-27

Data Element Name	Data Validation Method				Comparison Test Reference
	Class Test	T/MR Program Table	T/MR Tables File	External Table	
MILITARY OCCUPATIONAL SPECIALTY (MOS) CODE			YES		
MOS GRADE MATRIX	----------	---NONE---	----------	----------	
NUMBER OF COPIES	999				
OPERATOR CODE		YES			
ORGANIZATION DESCRIPTION	----------	---NONE---	----------	----------	
ORGANIZATION TYPE		YES			
PAY GRADE CODE			YES		
PERSONNEL ALLOCATION PLAN CODE		YES			
PROGRAM ELEMENT NUMBER			YES		
PSEUDO MONITORED COMMAND CODE (PsMCC)	----------	---NONE---	----------	----------	
QUALIFIER CODE		YES			
RANK/WEAPON/MOS EXCEPTION FLAG		YES			3.5.6 3.5.7
RECORD CODE	--- GENERATED FROM TRANSACTION RECORD CODE				
REPORTING UNIT CODE				YES	
RESPONSIBILITY CENTER NUMBER			YES		
SECTION CONTROL	--------	SYSTEM GENERATED	---------		
SECTION DESCRIPTION	--------	---NONE---	----------	----------	

Figure 3-27 (continued)

[illegible]	Data Validation Method				Compatibility Test Reference
	Class Test	T/MR Program Table	T/MR Tables File	External Table	
[illegible]		YES			
[illegible]	- - -	SYSTEM GENERATED- - -			
[illegible]			YES		
[illegible]		YES			
[illegible]	------	---NONE---	------	------	
TABLE OF EQUIPMENT (T/E) NUMBER	A9999				
T/MR LINE NUMBER	9999A				
T/MR MAINTENANCE DATE	- - - - -	SYSTEM GENERATED------			
T/MR MULTIPLE	999				3.5.11
T/MR NUMBER	9999A				3.5.11
T/MSCA NUMBER	999999				
TRANSACTION RECORD CODE		YES			3.5.9
TYPE		YES			5.2 5.3 5.6 5.7
UNIT IDENTIFICATION CODE (UIC)	M99999				
UNIT LINE NUMBER	999				
UNIT TITLE	------	---NONE---	------	------	
WEAPON CODE		YES			5.7

Figure 3-27 (continued)

3.5.1 PAP/BRANCH Code Compatibility

A Branch code of "M" and Billet Status "Chargeable" must have a valid PAP code; otherwise, PAP code must be blank, however, this edit is not performed for contingency billets.

3.5.2 TYPE/BRANCH Code Compatibility

Type code "O" or "E" must have a Branch code of "M," "N," "A," "F," or "P." Type codes "N," "F," or "A" must have Branch codes of "M" or "N" and Type codes "G," "U," or "X" must have a Branch code of "C" or "I."

3.5.3 ALPHA GRADE/BRANCH/TYPE Code Compatibility

Marine or Navy enlisted alpha grades must have a Branch code "M" or "N" and Type code "E" respectively. Marine or Navy Officer alpha grades must have a Branch code of "M," or "N," and Type code of "O" for Navy, or "O," "N," "F," or "A" for Marines.

Branch code "C," U. S. Civilians, along with Type codes "G" or "U," must have "GS" or valid wage board Alpha Grade codes respectively. The third and fourth characters of the Alpha Grade code must be two numeric digits, or a space and a single numeric digit.

Branch code "I," Indigenous Civilians, along with Type codes "G" or "U," must have "IS" or valid wage board Alpha Grade codes respectively.

3.5.4 BILLET STATUS/BRANCH Compatibility

Billet Status codes "C" and "F" apply to Branch codes "M" or "N" only.

3.5.5 BILLET STATUS/FOOTNOTE CODE Compatibility

Billet Status code "X," non-chargeable, must be used whenever Footnote code "A," Additional duty, is specified.

3.5.6 PAY GRADE/TYPE/MOS Compatibility

This edit is performed for Marines only and utilizes the Pay Grade/MOS Table. The MOS is first validated, then the table's Officer/Enlisted code is checked against the T/MR type code, e.g., Officers may be Type code "O," "N," "F," or "A" and Enlisted "E." Finally, the Pay Grade is verified against the authorized grade range appearing in the Table. If the Rank/Weapon/MOS Flag is "2" or "3," the compatibility test above is not performed.

3.5.7 WEAPON/TYPE/GRADE Compatibility

If the Rank/Weapon/MOS Flag is not "1" or "3," this edit is performed for Branch Codes "M" or "N." The data element Type is tested for Enlisted/Officers. Code E indicates Enlisted. Codes O, N, F, or A indicates Officers. The Data Element Pay Grade is then split into two groups: E-1 thru E-5, and E-6 thru E-9.

- o Group E-1 thru E-5

  Weapon compatibility codes for these grades are: A, M, S, U, dash (blank acceptable for Navy only)

- o Officers or Group E-6 thru E-9

  Weapon compatibility codes for these two groups are: P, R, U, dash (blank acceptable for Navy only)

  Exception

  A snub nosed revolver, Q, must be used with Branch Code M, and E5-E9 or an Officer.

3.5.8 PAY GRADE/ALPHA GRADE Compatibility

With Branch codes "M" and "N," the Pay Grade code must conform to the appropriate Alpha Grade in conformance with T/MR Pay Grade code conventions set forth in Section 3.3.

3.5.9 TRANSACTION RECORD CODE/OPERATOR Compatibility

The Operator code must be one of the five or less operators that can be used with a transaction record type as set forth in Section 5.2.

3.5.10 EFFECTIVE DATE/ADD/DELETE FLAG Compatibility

An Effective Date on the file must always have a corresponding Add/Delete Flag. This does not preclude, however, one or the other code from being used singly in a "Replace" transaction.

3.5.11 T/MR NUMBER / T/MR MULTIPLE Compatibility

A T/MR Multiple and higher level T/MR Number must appear in the aggregate multiple fields of the Organization Header Record. Otherwise both fields must be blank.

T/MR FILES

4.1 INTRODUCTION

The T/MR Data Base is defined in the Mark IV Data Management System and may be considered an integrated data base. The principal data files in the T/MR system are:

- o T/MR Master Line File
- o T/MR Unit File
- o T/MR Aggregate File

These files are hierarchical interacting files which are distinct but related. They are designed to satisfy the requirements of the T/MR system. The remainder of this section will be devoted to a discussion of each of the T/MR Files.

4.2 T/MR MASTER LINE FILE

The T/MR Master Line File is defined as the file which contains all of the T/MR billet line information, where a billet line denotes the specific structure requirements of the Marine Corps. Additionally, this file contains the T/MR multiple-aggregate information which resides on the organization header record. Figure 4-1 lists the data elements which reside on the T/MR Master Line File.

The T/MR Master Line File is a fixed structure file consisting of five 200 byte record formats. These are:

ORGANIZATION HEADER
SECTION/SUBSECTION HEADER
BILLET LINE
RECAP DETAIL
FOOTNOTE RECORD

ORGANIZATION HEADER	SIZE	TYPE
T/MR Number	5	A/N
Filler	2	
Line Number	5	A/N
Filler	6	
Record Code	1	A/N
Organization Desc.	45	A/N
Organization Type	1	A/N
T/E Number	5	A/N
Aggregate Multiple 1	3	A/N
Aggregate T/MR 1	5	A/N
.	.	
.	.	
.	.	
Aggregate Mult. 7	3	N
Aggregate T/MR 7	5	A/N
Filler	5	A/N
T/MRCA	6	A/N
Effective Date	4	A/N
Add/Delete Flag	1	A/N
Date of Last Change	6	A/N
Filler	20	
Work Area	2	A/N
Filler	30	
TOTAL	200	

SECTION/SUB-SECTION HEADER	SIZE	TYPE
T/MR Number	5	A/N
Filler	2	
Line Number	5	A/N
Filler	3	
Section Control	3	N
Record Code	1	A/N
Description	25	A/N
Manning Multiples		
100%	3P	A/N
97%	3P	
95%	3P	
93%	3P	
90%	3P	
87%	3P	
85%	3P	
83%	3P	
80%	3P	
78%	3P	
75%	3P	
70%	3P	
Filler	50	
T/MRCA	6	A/N
Effective Date	4	A/N
Add/Delete	1	A/N
Filler	26	
Work Area	2	A/N
Filler	50	
TOTAL	200	

BILLET LINE RECORD	SIZE	TYPE
T/MR Number	5	A/N
Filler	2	
Line Number	5	A/N
Filler	3	
Section Control	3	N
Record Code	1	A/N
Description	25	A/N
Manning Factor		
100%	3	
97%	3	P
95%	3	.
93%	3	.
90%	3	.
87%	3	.
85%	3	.
83%	3	.
80%	3	.
78%	3	.
75%	3	.
70%	3P	
Numeric Grade	2	A/N
Alpha Grade	6	A/N
Primary MOS	4	A/N
MOS 2 Qualifier	1	A/N
Secondary MOS	4	A/N
MOS 3 Qualifier	1	A/N
Tertiary MOS	4	A/N
Education 1 Qualifier	1	A/N
Primary Education	2	A/N
Education 2 Qualifier	1	A/N
Secondary Education	2	A/N
Language 1 Qualifier	1	A/N
Primary Language	2	A/N
Language 2 Qualifier	1	A/N

BILLET LINE RECORD (Cont'd)	SIZE	TYPE
Secondary Language	2	A/N
Service School 1		
Qualifier	1	A/N
Primary Service School	3	A/N
Service School 2		
Qualifier	1	A/N
Secondary Service School	3	A/N
SEP Flag	1	A/N
Branch	1	A/N
Type	1	A/N
Billet Status	1	A/N
Security Clearance	1	A/N
PAP Code	1	A/N
Weapon Code	1	A/N
Rank/Weapon/MCS Flag	1	A/N
T/MRCA	6	A/N
Effective Date	4	A/N
Add/Delete	1	A/N
Billet Sponsor	3	A/N
Footnote Code	1	A/N
Filler	22	
Work Area	2	A/N
Filler	25	
Designator Code	2	A/N
Filler	3	
	200	

FOOTNOTE RECORD	SIZE	TYPE
T/MR Number	5	A/N
Filler	2	
Line Number	5	A/N
Footnote Code	1	A/N
Footnote Sequence	2	A/N
Section Control	3	N
Record Code	1	A/N
Footnote Text	50	A/N
Filler	42	
T/MRCA	6	A/N
Effective Date	4	A/N
Add/Delete	1	A/N
Filler	26	
Work Area	2	A/N
Filler	58	
TOTAL	200	

RECAP DETAIL RECORD	SIZE	TYPE
T/MR Number	5	A/N
Branch	1	A/N
Type	1	A/N
Billet Status	1	A/N
MOS	4	A/N
Filler	6	
Record Code	1	A/N
Grade-1	3P	
.	.	
.	.	
Grade-18	3P	
Line Total	4P	
Filler	54	
T/MRCA	6	A/N
Effective Date	4	A/N
Add/Delete	1	A/N
Filler	26	
Work Area	2	A/N
Filler	52	
TOTAL	200	

Figure 4-1. T/MR Master Line File

- Organization Header Record - T/MR Number, Organization Type, Related T/E No., Organizational Description. Specifies the higher level T/MRs into which the T/MR is aggregated.
- Section/Subsection Header - Specifies the title of the section/subsection and the related manning multiple.
- Billet Line Record - Specifies the specific billet requirements and manning factors.
- Footnote Record - Specifies the footnote which applies to a specific billet line. The footnote code in this record represents a standard footnote text (e.g., Additional Duty . . .). This record also contains a field which can contain variable user specified text.
- Recap Detail Record - Specifies a Grade/MOS Recap for a specific combination of Branch, Type, and Billet Status.

The T/MR Master Line File consists of several different types of T/MRs:

- Base T/MR
- Base Recap T/MR
- Higher Level Recap T/MR (Organizational Header only)

The Base T/MR is submitted with detail reflecting billet requirements. This type of T/MR will contain the following types of records:

- o Organization Header
- o Section/Subsection Header
- o Billet Line
- o Footnote Record
- o Recap Detail Record

The Base Recap T/MR is an aggregate-only (Grade and MOS Detail) T/MR at the base level. This type of T/MR may be used to reflect requirements of Split Augment or Planning T/MRs for which billet lines to not exist. A base recap T/MR contains the following record types:

- o Organization Header
- o Recap Detail Record

The Higher Level T/MR is an aggregate-only T/MR which is created from more than one Base T/MR. This type of T/MR contains only an Organization Header Segment since the recap detail is contained in the Aggregate File.

4.2.1 Organizational Header Segment (Record Code A)

This segment contains the T/MR number, T/E number, Organization Type, and title of the Organizational T/MR. In addition, this record will contain T/MR Aggregate Multiples and the Higher Level T/MRs into which this Base T/MR will aggregate. As many as seven multiples may be used to aggregate the base T/MR into higher level organizations. These higher level organizations are also identified by a T/MR Number, and are

defined by a composition of base T/MRs. Again note that an Organizational Header exists on the MLF for all T/MRs, base and higher level. Base T/MR headers will be followed by billet line or Recap detail as appropriate, while higher level T/MRs will be represented by an organization header only.

4.2.2 Section Header/Subsection (Record Codes C/D Respectively)

The Section Header is a record which specifies the name or a subordinate section within an overall T/MR. The Section Header in addition, consists of manning factor multiples which are applied to the manning factor multiples for subordinate subsections or the manning factors for billet lines in determining totals.

The Subsection Header has the same format as the Section Header but is uniquely identified by a different record code. The Subsection Header is utilized to title subsections which are subordinate to a section. The Subsection Header also contains manning factor multiples which are applied to manning factors for billet lines.

The relationship of manning factor multiples implies the capability for taking vertical cuts in a T/MR organization where at a specific manning factor a subordinate structure can be eliminated by entering a reduced or zero multiple on a section or subsection header. All multiples and manning factors are integer values. Section and subsection description continuation records are indicated in the same manner as billet line continuation records described in the following.

4.2.3 Billet Line (Record Code E)

The Billet Line consists of all the detail related to a billet structure such as Grade, MOS, Description, Number Authorized, Footnote Code and other elements. (See Figure 4-1 for billet line data elements). The number authorized is expressed in manning factors at various percentages. 100% is the total authorized for the billet and corresponds with the 100% manning factor multiple in related section and subsection headers.

The Billet Line record may also exist as a continuation record. The continuation record is used to continue a billet description which cannot be wholly contained within a single Billet Line Field. In this case the 100% multiple field contains "XXX" in the second and subsequent continuation records.

4.2.4 Footnote (Record Code G)

The footnote record contains a footnote code which is translated by the T/MR system to a standard text. Additionally, this record can contain user-supplied text either to enhance the meaning of the standard footnote or to present the footnote in descriptive terms with variable lines of text.

4.2.5 Detail Recap (Record Code J)

The Detail Recap Line is a record controlled by Branch, Type, Billet Status, and MOS, a count of all spaces by Grades. Grades for a specific type are in the following ranges: GS-18 through GS-1; 07 through 01; or E9 through E2.

4.3 T/MR UNIT FILE

The T/MR Unit File (Figure 4-2) is a variable length heirarchically structured file which relates a unit record to a T/MR or to specific billet lines within a T/MR. A unit record is defined as a unique combination of the following data elements:

- o MCC
- o RUC
- o PsMCC
- o PEN
- o RCN
- o UIC
- o MPM
- o English Description
- o GEO LOC

The file also maintains a record of the base T/MRs which aggregate into specific Higher Level T/MRs as well as the printed copy distribution requirements for specific T/MRs.

The T/MR Unit File consists of five segments:

- o T/MR Unit Root Segment
- o Unit Information Segment
- o Unit Line Segment
- o Composition T/MR Segment
- o Dissemination Type Segment

T/MR Unit File

Level 1
Segment 1 — T/MR Root Segment

Level 2
Segment 10 — Unit Information Segment

Level 3
Segment 20 — Unit Line Segment

Level 2
Segment 30 — Composition T/MR Segment

Level 2
Segment 40 — Dissemination Type Segment

T/MR Unit Header		Unit Information Segment		Unit Line Segment	
Field Name	Size	Field Name	Size	Field Name	Size
T/MR Number	5	Unit Number	3	Line From	5
Segment 10 Count	3	Unit Title	34	Line To	5
Segment 30 Count	3	MCC	3		
Segment 40 Count	3	RUC	5		
		PsMCC	4		
		PEN	6		
		RCN	6		
		UIC	6		
		MPM	2		
		Geo Loc	2		
		Segment 20 Count	3		

Composition T/MR Segment		Dissemination Type Segment	
Field Name	Size	Field Name	Size
Comp. T/MR No.	5	Activity Address Code	7
Comp. T/MR Mult	2P	No. of Copies	3
Organ. Descr.	45		

Figure 4-2. T/MR Unit File

4.3.1 T/MR Unit Root Segment

The Unit Root Segment is the controlling segment for the logical congregation of all Unit Information Segments which apply to a specific T/MR.

4.3.2 Unit Information Header Segment

The Unit Header contains all of the data elements which denote organizational specific (dependent) information which are:

- o MCC
- o RUC
- o PsMCC
- o GEO LOC
- o RCN
- o UIC
- o MPM
- o English Description
- o PEN

The Unit Information Header is a segment which is used to relate billet line data to specific organizational units within the USMC. In the case where the entire T/MR can apply to a specific unit or units the Unit Information Header defines those units. In a T/MR where only specific lines relate to a given unit then the Unit Information Header exists but a sibling segment (Unit Line Segment) exists to define the specific billet lines related to a unit.

The Unit Information Header segment is identified by a unit number which is a user assigned value from 1 through 999. The unit number uniquely identifies a combination of the unit related data elements that apply to a specific T/MR or portion of a T/MR.

4.3.3 Unit Line Segment

The Unit Line Segment is a sibling segment which is related to the Unit Information Segment. Basically, this segment consists of a From/To Number which defines a range of billet lines to which a specific Information Header is related. This segment may be repeated as many times as is necessary to define those lines or groups of lines which apply to a specific Information Header. The From/To combination of line numbers must include all T/MR Line Segments which apply. This means that the section headers and subsection headers must be included within the range of line numbers of this segment so that the manning multiples can be included in any aggregation process.

4.3.4 Composition T/MR Segment

The Composition T/MR Segment contains the composition T/MR which is defined as that base T/MR which, in conjunction with other base T/MRs, can be aggregated to create a higher level T/MR. This segment also contains the composition T/MR multiple which denotes the number of times a base T/MR is aggregated to arrive at a given higher level T/MR. The values contained in this segment are automatically produced by the system based on the aggregate multiples appearing in the organization header segments of the MLF.

4.3.5 Dissemination Type Segment

The Dissemination Type segment denotes the Activity Address Codes for those organizations which receive hardcopy output of that specific T/MR. This segment also specifies the number of copies of the T/MR to be provided.

4.4 T/MR AGGREGATE FILE

The T/MR Aggregate File consists of records which recapitulate Grade and MOS totals for base T/MRs and higher level strucutre T/MRs. The Aggregate file can be considered as similar to the T/O Master Recap File which exists in the T/O related process. Recaps are maintained for all authorized levels of manning in this file.

Figure 4-3 describes the layout of this 928 byte fixed length file. The Grade/MOS record takes the form of a matrix where Branch, Type, Billet Status, and MOS strength are counted in terms of grades for each Level of Manning Factors (100% to 70%).

4.5 GENERAL FILE MAINTENANCE CHARACTERISTICS

The T/MR Master Line file will be maintained entirely through manually prepared input prccedures. Keeping the file record characteristics in mind, the T/MR Master Line file can contain three types of T/MRs. First a base T/MR, structured in terms of billet lines and Section/Subsection headers, exists to provide detail at the lowest level. Secondly, higher level T/MRs also exist on this file. This type of T/MR has no existing billet line detail; hence the file will contain only an Organizational Header. This will serve primarily to identify the higher level T/MR which may or may not be related to one or more Unit Information records on the Unit file. The third

T/MR NO.	BRANCH	TYPE	STATUS	MOS	GRADES

Field Name	Size
T/MR Number	5
MOS	5
Branch	1
Type	1
Status	1
Filler	1
GS 18 (GS-18)	4P
GS 17 (GS-17)	4P
GS 16 (GS-16)	4P
GS 15 (GS-15)	4P
GS 14 (GS-14)	4P
GS 13 (GS-13)	4P
GS 12 (GS-12)	4P
GS 11 (GS-11)	4P
GS 10 (GS-1Ø)	4P
GS 9 (GS-9, E9)	4P
GS 8 (GS-8, GEN, E8)	4P
GS 7 (GS-7, COL, E7)	4P
GS 6 (GS-6, LCOL, E6)	4P
GS 5 (GS-5, MAJ, E5)	4P
GS 4 (GS-4, CAPT, E4)	4P
GS 3 (GS-3, LT, E3)	4P
GS 2 (GS-2, UNGRADED)	4P
GS 1 (GS-1, WO, E1/2, EXCPTD	4P
TOTAL	4P
GS 18/97% (GS-18)	4P
.	.
.	.
.	.
GS 1/97% (GS-1, WO, E1/2, EXCPTD)	4P
TOTAL/97%	4P
GS 18/95% (GS-18)	4P
.	.
.	.
.	.
TOTAL/95%	4P
GS 18/93%	4P
.	.
.	.
.	.

Field Name	Size
TOTAL/93%	4P
GS 18/90%	4P
.	.
.	.
.	.
TOTAL/90%	4P
GS 18/87%	4P
.	.
.	.
.	.
TOTAL/87%	4P
GS 18/85%	4P
.	.
.	.
.	.
TOTAL/85%	4P
GS 18/83%	4P
.	.
.	.
.	.
TOTAL/83%	4P
GS 18/80%	4P
.	.
.	.
.	.
TOTAL/80%	4P
GS 18/78%	4P
.	.
.	.
.	.
TOTAL 78%	4P
GS 18/75%	4P
.	.
.	.
.	.
TOTAL/75%	4P
GS 18/7Ø%	4P
.	.
.	.
.	.
TOTAL/7Ø%	4P
DES CODE	2
TOTAL	928

Figure 4-3 (continued)

type of T/MR as discussed previously is the Base Recap T/MR: one for which only Recap Grade and MOS records exist.

The Aggregate File on the other hand, will be maintained directly from the T/MR Master Line File maintenance process. This file will be generated once monthly, transactions generated will be based upon the Aggregate Multiples which exist in the Organization Header.

The T/MR Unit File will be maintained with manually prepared input procedures and system generated transactions. The segments which are maintained by the user are: the T/MR Unit Root Segment; the Unit Information Header Segment; the Unit Line Segment and the Dissemination Type Segment.

The T/MR System, during the monthly update process, will generate transactions which will maintain the Composition T/MR Segment. This segment will be maintained initially by creating a segment for every unique base T/MR which is used to aggregate a higher level T/MR. The number of times that base T/MR is aggregated into a higher level T/MR is counted and used as the Composition T/MR multiple. Whenever subsequent updating of this file indicates that a new T/MR is introduced into the aggregation process, another composition T/MR segment will be created reflecting the multiple that T/MR is aggregated.

Figure 4.4 describes various relationships of fields within the T/MR Master Line File and the T/MR Aggregate File.

Record No.	Explanation
1	T/MR 1 Aggregates by Branch, TYPE, and Billet Status, MOS and GRADE to create T/MR 5 on the aggregate T/MR and aggregate multiple of 2. Aggregate record for T/MR 1 automatically created.
8	T/MR 1 Aggregate created from base T/MR.
9	No composition T/MR segment exists since T/MR 1 is a base T/MR.
10	Summary by Grade within TYPE and MOS created by multiplying Record 3 multiple by Record 4 multiple by Record 5 manning factor. Record 11 created in the same manner.
12	T/MR 5 Aggregate record created from T/MR 1
13	Base T/MR and its multiple used to Aggregate
14	Created similar to Record 10 except the Aggregate multiple is used.

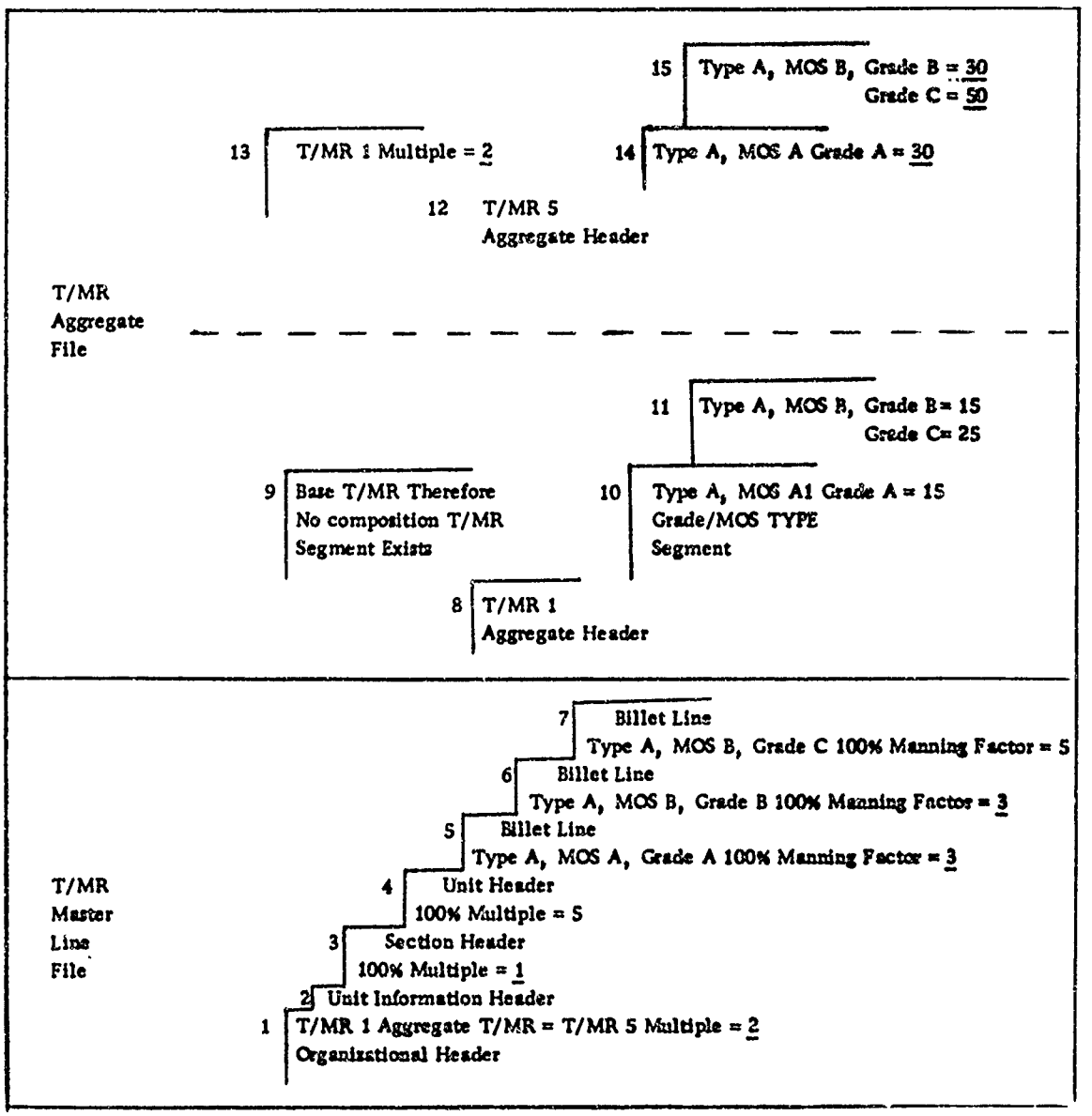


Figure 4-4

T/MR FILE MAINTENANCE PROCEDURES

5.1 INTRODUCTION

This section of the T/MR Users manual contains the information, reference material and procedures necessary to T/MR File Maintenance. T/MR File Maintenance Procedures are considered in the following topical categories:

- o T/MR Forms and Forms Completion Procedures
- o OCR Input Preparation
- o T/MR Weekly Edits and Audits
- o T/MR File Update Procedures

Each of the above topics is discussed separately.

5.2 T/MR DATA INPUT FORMS; DESCRIPTION AND PROCEDURES

5.2.1 Introduction

Input to the T/MR system is by Optical Character Recognition (OCR) or Punch Cards. T/MR coding forms are coded for subsequent transcription to OCR input forms or may be used as source documents for key punching (see Section 5.3 for discussion of OCR and key punch input). In the T/MR system documentation these coding forms are referred to as T/MR Transcription Forms. This section of the T/MR Users manual is devoted to a description of the Transcription forms and the procedures related to their use.

5.2.2 General

There are seven T/MR Data Transcription Forms used in the maintenance and update of the T/MR system. These forms are functionally divided into 13 Transaction Record types.

The relationship of the T/MR Transcription Forms and the associated Transaction Record types is shown in Table 2.

The T/MR Transcription Forms are designed to facilitate entry of common type data with consideration given to the various categories of required maintenance action. Additionally, each form is printed on one of four colors of paper for the purpose of rapid identification. The seven forms have certain information printed on the back related to completion of the individual forms. This information though not all inclusive, is provided for a ready reference on the use of the operator codes allowed with each form, the effect of each operator, and some general comments related to forms completion.

Transcription Forms and Transaction Types	
Transcription Forms	Transaction Record Types
1. T/MR Organization	A Basic T/MR Information
	B T/MR Aggregate data
2. Billet Line Detail	C Section Record
	D Sub-section Record
	E Billet Line Record
	F Billet Line Qualifier Record
	G Footnote text Record
3. Unit Detail	H Unit Record
	I Line Record
4. Recap Coding	J Recap Coding
5. Manning Factor Multiples	K Manning Factor/Multiples
6. Control Totals	L Control Totals
7. Distribution	N Distribution

Table 2

There are five operators used in conjunction with T/MR Transactions. These are:

- o B = Blank (replace data field with blanks)
- o D = Delete (a record or entire T/MR)
- o E = Eliminate (a unit record)
- o I = Insert (a record)
- o R = Replace (a field)

The collating order of these operators is in the same (alphabetical) sequence as shown. By implication then, IF two or more transactions to a single record with different operators are input to the same Edit/Audit, they will affect the file in an alphabetical operator sequence.

When using the B operator, the nature of the system requires the insertion of alpha or numeric characters in the field to be blanked. A T/MR file maintenance convention should be to enter the exact value of the data field being blanked using the B operator. The result will be to blank the desired field. However, if the OCR typist should read the B as an R operator code, the resultant transaction would replace a field value with itself, hence no harm done.

Figure 5-1 contains a summary layout for the data elements and their field locations on the 13 Transaction Record types used in the T/MR system. It will be noted that all transaction record types are defined in 80 columns. This is done to facilitate keypunch transcription of T/MR data if necessary.

In the following sections, each of the seven T/MR Transcription Forms is discussed in some detail. A chart showing detailed coding instructions and related remarks for each form is provided along with copies

T/MR TRANSACTION RECORD ENTRIES BY TYPE

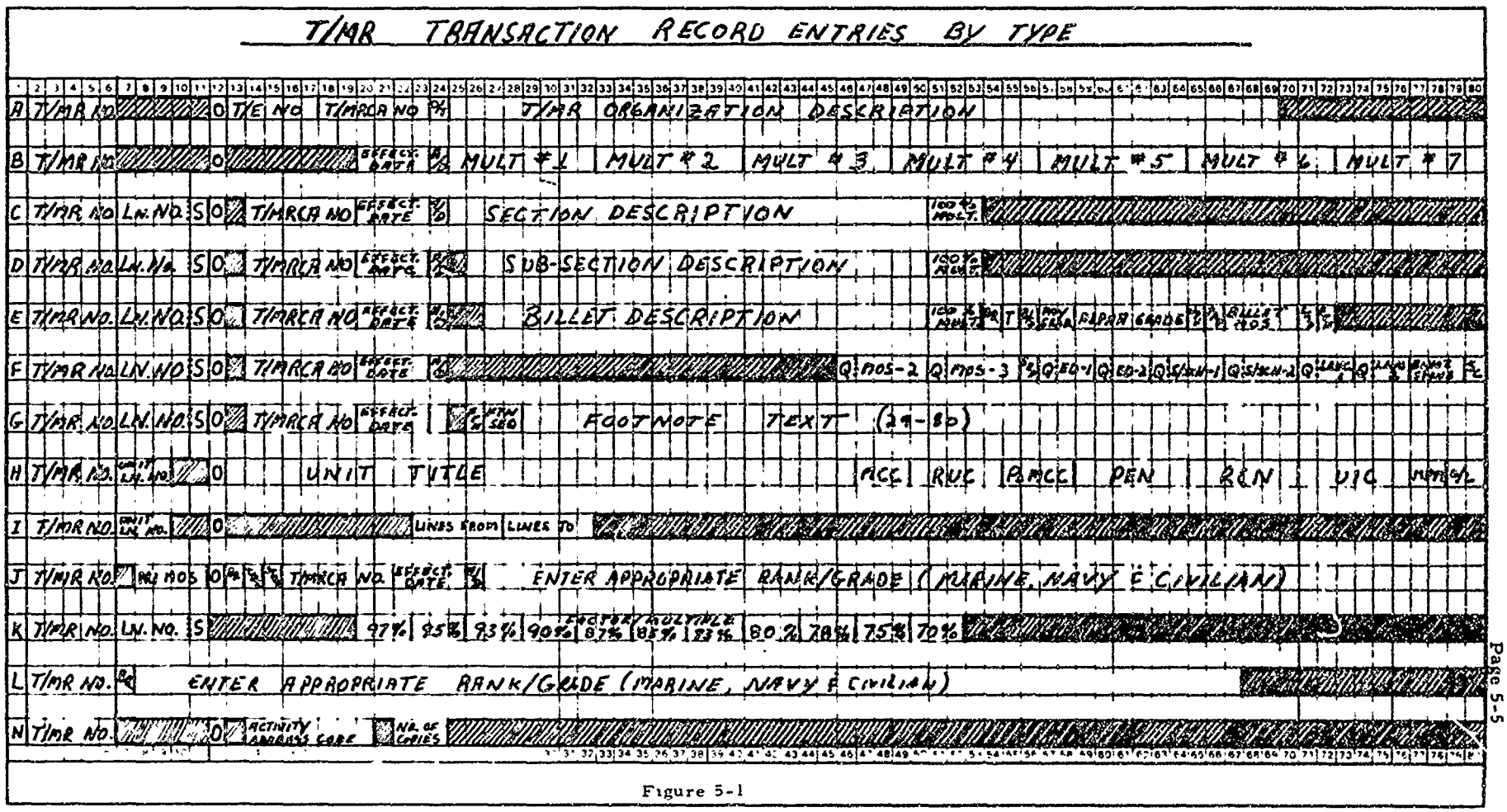


Figure 5-1

of the forms and related backprinted instructions. Data element definitions and codes are provided in Sections 3.2 and 3.3 of this manual.

There are several coding conventions that if used uniformly will enhance the accuracy and ease of data transcription to the OCR input forms. The convention for showing zero and the letter "O," is shown on the back-printing of each form. Other conventions involve fields left blank in coding a transaction record type, and the use of the numeric OCR code.

If in coding a given transaction record, a field will remain unchanged or blank, the coder should place an "*" somewhere within that field. This will facilitate data transcription to the OCR form. A field is defined as the BLANK space between two solid vertical lines for that Transaction record type (shaded areas are not considered a field).

Although the T/MR Line Number suffix is considered a separate field, the coder need not follow this convention for those line numbers not having an alpha suffix. Instructions for OCR transcription of T/MR Line Numbers and Line Numer Suffixes are explicitly set forth in Section 5.3.

The user will note that a numeric OCR record code is associated with each transaction record type. This OCR code identifies the transaction record type to the OCR scanner, while later the alphabetic transaction record code identifies it to the T/MR System. Space has been provided to the left of Column 1 to insert the OCR Code corresponding to the transaction record code on the Billet Line Detail, and Unit Detail forms. By inspection one may see that this manual coding will not be required on the other forms.

Section 5.2 provides complete details on OCR form preparation and conventions.

5.2.3 T/MR Organization Transcription Form

The T/MR Organization Transcription form contains two Transaction Record Types, Type A and B. The Type A Transaction Record provides the organizational description (i.e. Rifle Company Inf. Bn, Marine Barracks Bermuda, etc), the Organization Type, and associated T/E number. The Type B transaction Record prescribes the number of times the T/MR aggregates into higher level T/MRs. Additionally, the Effective Date can cause the system to consider the T/MR as "effective" or "deleted" at some future date.

Since the apex of the T/MR System is the T/MR Number, a Type A Transaction record must be present for both base and higher level T/MRs on the files. A Type B Transaction Record will normally be completed for only base T/MRs which reflect the number of times the T/MR aggregates into one or more (up to seven) higher level T/MRs. This is not a system constraint, however, in that multiples may be used for indicating the aggregations of higher level T/MRs into even higher level T/MRs (i.e., Battalions into Regiments and Divisions). This latter capability is for visibility in the Multiples Reports only, since Aggregate File transactions are keyed to base T/MRs whose Organization Type will be either "A," "B," "3," or "4." All aggregation into the 9000's series T/MR's are automatically aggregated into T/MR 9000, U. S. Marine Corps, hence 9000 need not be shown as an aggregate multiple.

5.2.3 T/MR Organization Transcription Form

The T/MR Organization Transcription form contains two Transaction Record Types, Type A and B. The Type A Transaction Record provides the organizational description (i.e. Rifle Company Inf. Bn, Marine Barracks Bermuda, etc), the Organization Type, and associated T/E number. The Type B transaction Record prescribes the number of times the T/MR aggregates into higher level T/MRs. Additionally, the Effective Date can cause the system to consider the T/MR as "effective" or "deleted" at some future date.

Since the apex of the T/MR System is the T/MR Number, a Type A Transaction record must be present for both base and higher level T/MRs on the files. A Type B Transaction Record will normally be completed for only base T/MRs which reflect the number of times the T/MR aggregates into one or more (up to seven) higher level T/MRs. This is not a system constraint, however, in that multiples may be used for indicating the aggregations of higher level T/MRs into even higher level T/MRs (i.e., Battalions into Regiments and Divisions). This latter capability is for visibility in the Multiples Reports only, since Aggregate File transactions are keyed to base T/MRs whose Organization Type will be either "A," "B," "3," or "4." All aggregation into the 9000's series T/MR's are automatically aggregated into T/MR 9000, U. S. Marine Corps, hence 9000 need not be shown as an aggregate multiple.

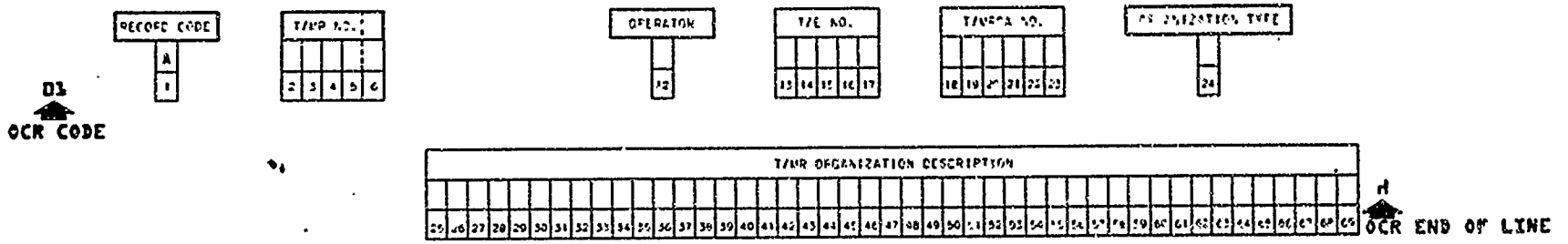
In general, the T/MR Organization Transcription form is self explanatory. The user is cautioned, however, to closely examine the back printed instructions. For instance, a "D" Operator used with a Type A Transaction Record deletes not only the Organizational Description but also the entire T/MR from the Master Line File (MLF).

Since blank fields for the Type B Transaction Record are created or deleted in MLF whenever a Type A Transaction Record is created or deleted, only "B" or "R" operators are required in a Type B transaction.

Figure 5-2 through 5-5 reflect the T/MR Organization Transcription Form, Backprinted instructions, and detailed coding instructions for Transaction Record Types A and B respectively.

TABLE OF MANPOWER REQUIREMENTS (5320)
T/MR ORGANIZATION

SECTION A



SECTION B

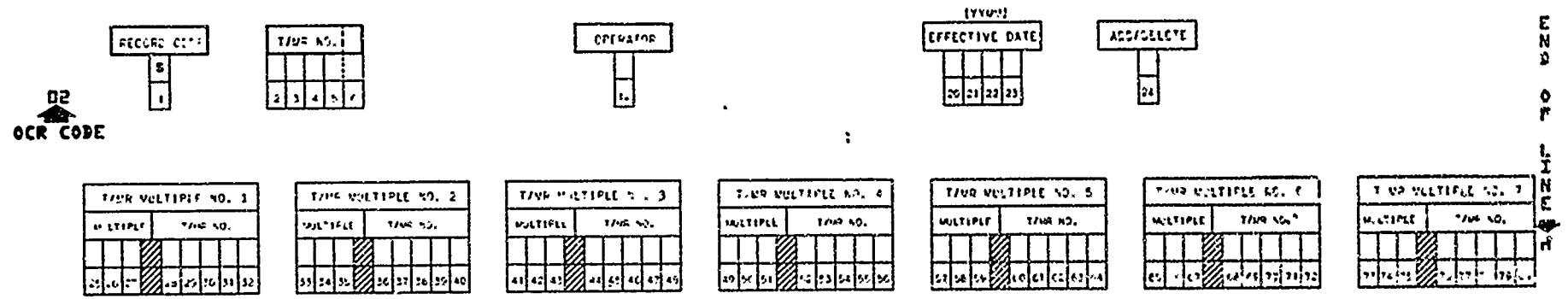
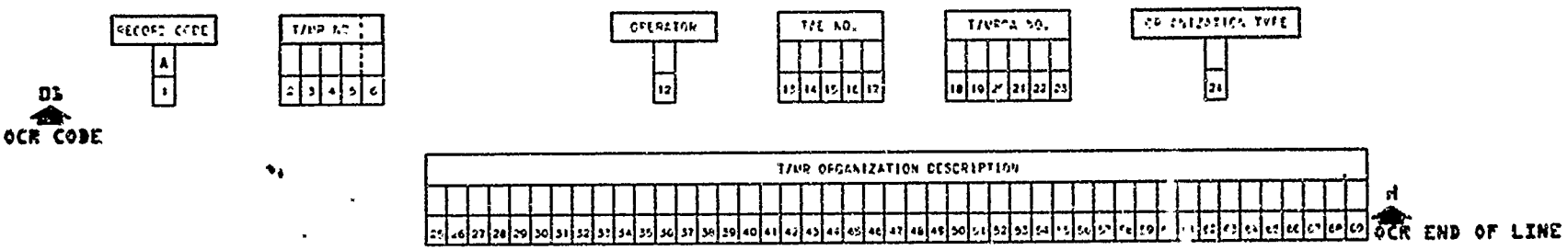


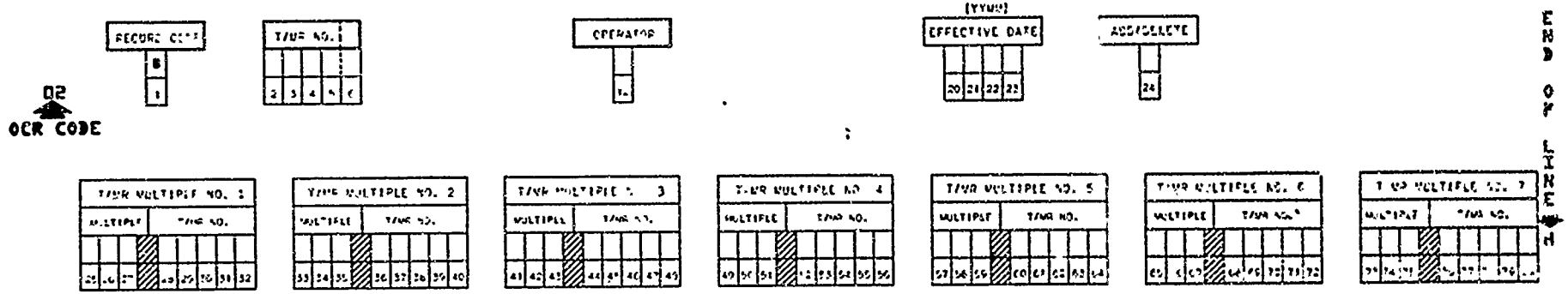
TABLE OF MANPOWER REQUIREMENTS (5320)
T/MR ORGANIZATION

PAGE _____ OF _____ PAGES

SECTION A



SECTION B



T/MR ORGANIZATION RECORDS

RECORD TYPE	KEY FIELDS MUST BE FILLED	OPER. CODE	EFFECT OR USE OF OPERATOR	GENERAL COMMENTS
A OCR CODE 01	RECORD CODE T/MR NO. OPERATOR	I	CREATES A T/MR HEADER RECORD	1. ZERO = 0 LETTER "O" = O 2. ORGANIZATIONAL TYPE CODES A = AGGREGATE BASE STRUCTURE B = BILLET DETAIL BASE STRUCTURE 4 = AGGREGATE BASE PLANNING 3 = BILLET DETAIL BASE PLANNING 2 = HIGHER LEVEL PLANNING 1 = HIGHER LEVEL STRUCTURE
		D	DELETES ENTIRE T/MR FROM MASTER LINE FILE	
		R	REPLACES AN INDIVIDUAL FIELD WITH A NON-BLANK VALUE	
		B	BLANKS AN INDIVIDUAL FIELD PRESENTLY CONTAINING SOME VALUE	TO IDENTIFY THE FIELD TO BE "BLANKED" PLACE A NON-BLANK VALUE ON THE CODING SHEET IN THAT FIELD POSITION.
B OCR CODE 02	RECORD CODE T/MR NO. OPERATOR	R	REPLACES AN INDIVIDUAL FIELD WITH A NON-BLANK VALUE	THIS RECORD TYPE IS USED IN CONJUNCTION WITH A CORRESPONDING "A" TYPE RECORD OR ADDS TO AN "A" TYPE RECORD ALREADY ON THE FILE.
		B	BLANKS AN INDIVIDUAL FIELD PRESENTLY CONTAINING SOME VALUE	TO IDENTIFY THE FIELD TO BE "BLANKED" PLACE A NON-BLANK VALUE ON THE CODING SHEET IN THAT FIELD POSITION.

Figure 5-3

TRANSACTION RECORD TYPE A

CODING INSTRUCTIONS

ENTRY DATA ELEMENT	RECORD	COLUMNS	REMARKS
Record Code	A	1	Value = A
T/MR Number	A	2 - 6	Cols. 2-5 numeric - never blank. Col. 6, alpha or blank.
(Not Used)	A	7-11	
Operator	A	12	Values: B, I, R, D
T/E Number	A	13-17	Cols. 13-16 numeric, right - justified. Col. 17 alpha. Entire field may be blank.
T/MRCA Number	A	18-23	Numeric field, right - justified. May be blank.
Organization Type	A	24	Values: A, B, 1, 2, 3, 4 with "I" operator. May be blank with B, R, or D operator.
T/MR Organization Description	A	25-69	Alpha/Numeric field, left - justified. May be left blank with B, R, or D operator. Must be filled with "I" operator.
(Not Used)		70-80	Blanks

Figure 5-4

TRANSACTION RECORD TYPE B

CODING INSTRUCTIONS

ENTRY DATA ELEMENT	RECORD	COLUMNS	REMARKS
Record Code	B	1	Value = B
T/MR Number	B	2 - 6	Must be the same value of T/MR Number - Section A.
(Not Used)	B	7-11	
Operator	B	12	Values: R or B.
Effective Date	B	20-23	Numeric Field. Format = YYMM. May be left blank or must be all numeric.
Add/Delete Flag	B	24	Values: A, D, or blank.
Aggregate Multiple 1 o Multiple	B	25-27	Numeric field, right-justified. May be blank if the Aggregate Number is not specified, columns 28-32.
o Aggregate T/MR No.	B	28-32	Code 28 = 31 numeric, right-justified Col. 32, alpha or blank.
Aggregate Multiple 2	B	33-40	Rules for these fields are identical to Aggregate Multiple 1.
Aggregate Multiple 3	B	41-48	
Aggregate Multiple 4	B	49-56	
Aggregate Multiple 5	B	57-64	
Aggregate Multiple 6	B	65-72	
Aggregate Multiple 7	B	73-80	

Figure 5-5

5.2.4 T/MR Billet Line Detail Form

The T/MR Billet Line Detail Form provides the vehicle for specification of the detailed structure of a T/MR. As such it will probably be the most frequently used of the seven data transcription forms. The Billet Line Detail Form, on a single page, specifies the formats of the five transaction record types normally required in the day to day maintenance activities of the T/MR Validation Analysis. The general functions of the five transaction record types are delineated in the following:

Transaction Record Type	T/MR Maintenance Function
C	Section Header Record
D	Subsection Header Record
E	Billet Line Record
F	Billet Line Qualifier Record
G	Footnote Text Record

Except as subsequently noted, each field of the five transaction record types commences with a solid vertical line to facilitate data field identification and coding. This characteristic of the form has required that the five transaction record types be grouped into two subsections of "C," "D," "E," and "F," "G" respectively.

The two exceptions to the "solid vertical line starting a field" convention may be seen in the Description fields of the "C," "D" and "E" Transaction record formats. Note that Subsection Description is offset one position from Section Description, and Billet Description

is offset one position from Subsection Description. While descriptive text may start anywhere to the right of the vertical line appropriate to the "C," "D," or "E" Transaction record type, adherence to the format shown on the form will provide uniform appearance of the T/MR on hardcopy or checklist outputs.

In the event that the English description of a "C," "D," or "E" transaction record exceeds the field size available, the T/MR System will allow continuation line(s) to be added. In this case all appropriate data is coded on the FIRST line. The continuation line(s) will have the next consecutive line number and appropriate "Operator" coded. If T/MRCA No., Effective Date, and Add/Delete codes are entered on the primary record, they should also be entered on the continuation line record. The English description is then entered in the appropriate field and the 100% Mult/Auth field filled with three letter "X's." No other data may be coded on continuation line record(s).

In certain organizations there may be two or more identical Sections, and possibly two or more identical subsections within a Section. In this case, an integer multiple is entered in the 100% Multiple field of the appropriate "C" or "D" transaction record. This field must always be explicitly coded when an "I" transaction is effected. In computing Section and T/MR totals, the T/MR System automatically will apply these Multiples to the 100% Authorized values of the following billet lines (Type E Transaction Records) as shown in the following:

T/MR Totals = Sec. 100% Mult. x Subsec. 100% Mult. x Billet 100% Auth.

and

Sec. Total = Subsec. 100% Mult. x Billet 100% Auth.

Note that the T/MR System, on the Hardcopy and Checklist formats, will only provide Section and T/MR totals. In certain very large T/MR's, however, it may be desirable to obtain a total on what is logically a subsection of a major section within the T/MR. This requirement may be handled by creating two successive type "C" Section Header transaction records such as "G-1 DIVISION," and "OFFICE OF THE AC/S, G-1" respectively. Other branches of the "G-1 Division" may also be coded as Type C (Section Header) transaction records, which will then provide totals by branch while retaining the overall visibility of the "G-1 DIVISION."

Types "F" and "G" Transaction Records are discussed separately since they have certain common characteristics. The "T/MR LINE NO." of these Transaction Record types is the same line number as the Type E (Billet Line) Transaction record to which it refers. In addition, when a billet line is deleted, any associated Type "F" and "G" transaction records will automatically be deleted from the file.

The type "F" Billet Line Qualifier Transaction record is generally self explanatory. For those type of codes that have two fields available, where only one will be used, the coding should be placed in the first field of that type (i.e. MOS-2, ED-1, etc). Where two

codes of a given type are to be used, and one is "Necessary" and the other "Desirable," the "Necessary" code should be placed in the first field. The "N" and "D" qualifiers should be coded as appropriate. In the case where one or the other of two codes of a type is "Necessary," the "U" qualifier is placed in both fields along with the appropriate codes.

SEP MOS's will always be placed in the "MOS-2" field along with an "N" or "D" qualifier. SEP billets must also be coded with a "1" in the "SEP" Field. Because of the Special Education Report requirements, more than one SEP MOS will not be used on a single Type F Transaction Record; hence the "U" qualifier would never be appropriate.

The type "G" Footnote Text Transaction Record provides the ability to further define the requirements of a billet not otherwise expressable by use of other codes. Some of the Standard Footnotes have system produced English associated with the Footnote Code, while others require the entire text to be coded. In either case a type "G" transaction record should be coded for each billet line containing a footnote code. The user should refer to Section 3.3 of this manual for these standard footnotes. The user is not limited to the system produced English. Additional text may be appended to any footnote by simply entering text in the Footnote Text field. To preserve the philosophy of "Standard footnotes," use of this capability should be the exception rather than the rule.

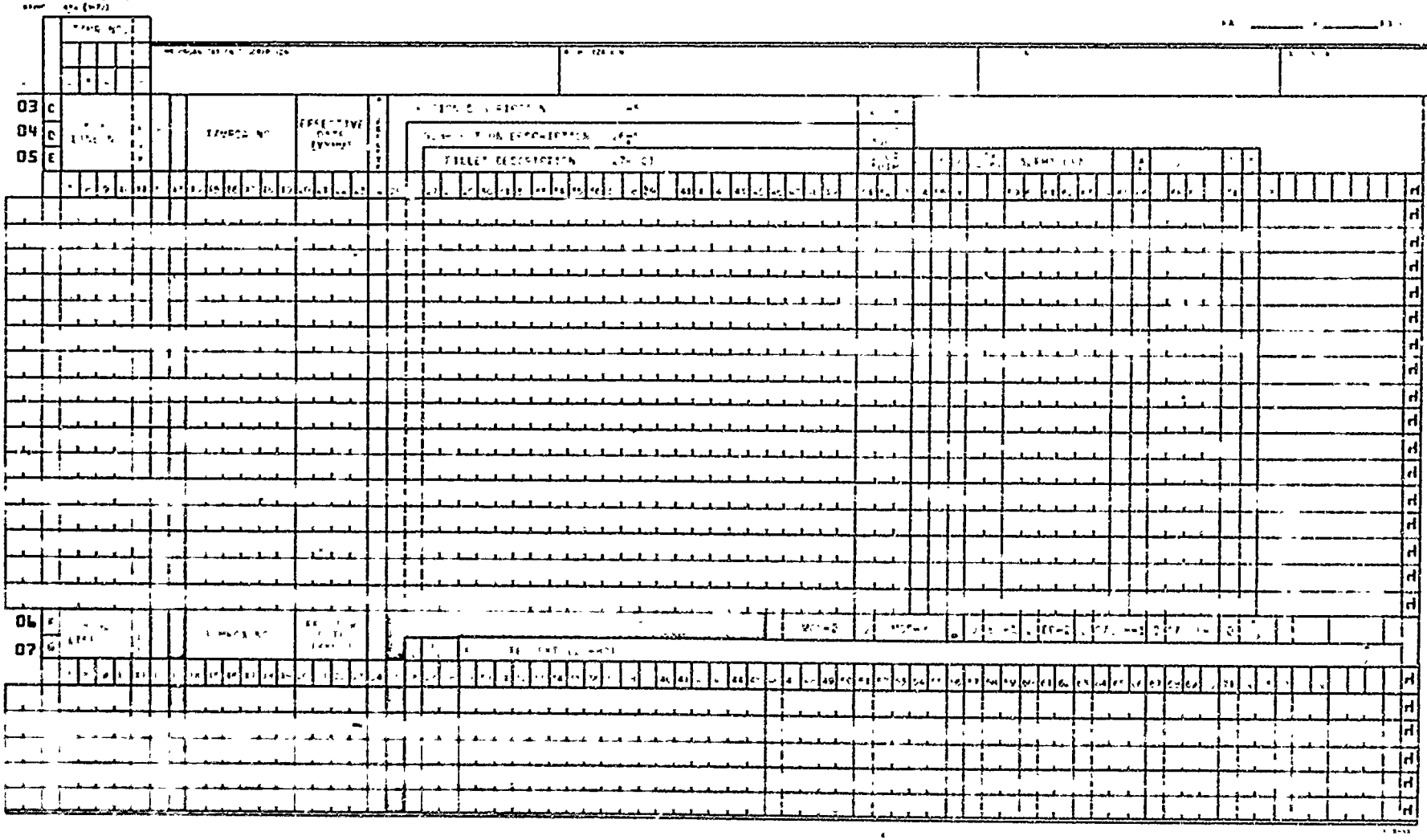
In all cases, the "T/MR Line No." and "FTN" data elements

of the Type "G" Transaction Record are identical with those of the Billet line to which it applies and must be entered on the forms. These elements must be also entered on any subsequent lines of text (if required), along with an entry in the "FTN SEQ" field. Footnote sequence entries merely order the lines of text, within a single footnote, hence will be assigned ordinal numbers ØØ1, ØØ2, etc. Single footnote text lines do not require a "FTN SEQ" entry although the user may use one if desired.

Footnote Text Transaction Records will be displayed at the end of T/MRs on the hardcopy and checklist output formats. The T/MR line number (of the billet line to which it applies) is followed by the footnote code, followed by the footnote text. Those footnotes that have system generated text will have that text printed as set forth above with the hand coded text (if any) indented and placed on the following print line. On printed T/MR output, display of the 50 character text segment is split into two 25 character print lines. This split will therefore occur between columns 53-54 of the coding sheet. The user should consider the appearance of the printed output when coding a line of text to avoid an undesirable division of a word.

Figures 5-6 and 5-7 are representations of the Billet Line Detail Coding Form and Backprinted Instructions respectively. Figures 3-8 through 3-12 contain the general coding instructions for Transaction Records C, D, E, F, and G.

TABLE OF MANPOWER REQUIREMENTS (5320)
BILLET LINE DETAIL



RECORD TYPE	KEY FIELDS MUST BE FILLED	OPER. CODE	EFFECT OR USE OF OPERATOR	GENERAL COMMENTS
C OCR CODE 03	RECORD CODE T/MR NO T/MR LN NO. OPERATOR	I	CREATES A SECTION HEADER, SUB SECTION HEADER, OR BILLET LINE	ZERO Ø LETTER 'O' [illegible]
D OCR CODE 04		D	DELETES A SECTION HEADER OR SUB SECTION HEADER AND AUTOMATICALLY DELETES THE MANNING MULTIPLES ("K" TYPE RECORD) ASSOCIATED WITH HEADERS OR DELETES THE BILLET LINE AND "F" RECORD (BILLET QUALIFIERS), "G" RECORD (FOOTNOTE TEXT) AND "K" RECORD (MANNING FACTOR) ASSOCIATED WITH THE BILLET LINE	NOTE THAT "D" OPERATOR DELETES NOT ONLY THE APPROPRIATE "C", "D" OR "E" RECORD, BUT ALSO ALL ASSOCIATED "F", "G" AND "K" RECORDS
E OCR CODE 05		R	REPLACES AN INDIVIDUAL FIELD WITH A NON-BLANK VALUE	
		B	BLANKS AN INDIVIDUAL FIELD PRESENTLY CONTAINING SOME VALUE	TO [illegible] THE FIELD [illegible] BE BLANKED [illegible] BLANK VALUE ON THE [illegible] [illegible] THAT FIELD [illegible]
F OCR CODE 06	RECORD CODE T/MR No T/MR LN NO. OPERATOR	R	REPLACES AN INDIVIDUAL FIELD WITH A NON-BLANK VALUE	
		B	BLANKS AN INDIVIDUAL FIELD PRESENTLY CONTAINING VALUE	[illegible]
G OCR CODE 07	RECORD CODE T/MR NO. T/MR LN NO. OPERATOR FOOTNOTE [illegible] FOOTNOTE [illegible] CODE	I	[illegible]	
		[illegible]	[illegible]	
			[illegible]	

TRANSACTION RECORD TYPE D

CODING INSTRUCTIONS

ENTRY DATA ELEMENT	RECORD	COLUMNS	REMARKS
Record Code	D	1	Value = D
T/MR Number	D	2 - 6	Cols. 2-5 numeric. Col. 6 may be alpha or blank. This field may be duplicated in all following records.
T/MR Line Number	D	7-10	Cols. 7-10 numeric, right-justified.
T/MR Line Number Suffix	D	11	Col. 11 may be alpha or blank.
Operator	D	12	Value B, I, R, D.
(Not Used)	D	13	Blank
T/MRCA Number	D	14-19	Numeric field, right-justified. Field may be left blank.
Effective Date	D	20-23	Numeric field. Format YYMM. Field may be left blank.
Add/Delete Flag	D	24	Values: A, D, or blank.
(Not Used)	D	25	Blank
Sub-Section Description	D	26-50	Alpha/Numeric field, left-justified.
100% Multiple	D	51-53	Numeric field, right-justified. Must not be blank with an "I" operator. Sub-section Description continuation records must have a value of "XXX."
(Not Used)		54-80	Blanks

Figure 5-9

TRANSACTION RECORD TYPE E

CODING INSTRUCTIONS

ENTRY DATA ELEMENT	RECORD	COLUMNS	REMARKS
Record Code	E	1	Value = E.
T/MR Number	E	2 - 6	Cols. 2-5 numeric. Col. 6 may be alpha or blank. This field may be duplicated in all following records
T/MR Line Number	E	7-10	Cols. 7-10 numeric, right-justified
T/MR Line Number Suffix	E	11	Col 11 may be alpha or blank.
Operator	E	12	Values: B, I, R, D
(Not Used)	E	13	Blank
T/MRCA Number	E	14-19	Numeric field, right-justified. Field may be left blank.
Effective Date	E	20-25	Numeric field. Format YYMM. Field may be left blank.
Add/Delete Flag	E	24	Values. A, D, or blank.
(Not Used)	E	25-26	Blank
Billet Description	E	27-50	Alpha/Numeric field left justified
100% Authorized	E	51-53	Numeric field, Right [illegible] Must be Blank with [illegible] for Billet Description [illegible] and all following [illegible]
BR (Branch)	E	54	[illegible]
T (Type)	E	55	[illegible]
B/S (Billet Status)	E	56	[illegible]
Pay Grade	E	57-58	[illegible]
Alpha Grade	E	59-64	[illegible]
W (Weapon)	E	65	[illegible]
PAP	E	66	[illegible]
PRI-MOS	E	67-70	[illegible]
EXCP. (Rank/Weapon/MOS Flag)	E	71	[illegible]
FTN (Footnote)	E	72	[illegible]
(Not Used)	E	73-80	Blank

* Blank if Billet Description Continuation Record.

Figure 5-10

TRANSACTION RECORD TYPE F

CODING INSTRUCTIONS

ENTRY DATA ELEMENT	RECORD	COLUMNS	REMARKS
Record Code	F	1	Value = F
T/MR Number	F	2 - 6	Cols. 2-5 numeric, Col. 6 may be alpha or blank. This field may be duplicated in all following records.
T/MR Line Number	F	7-10	Must be same line number and suffix as Record Type E to which is applies.
T/MR Line Number Suffix	F	11	
Operator	F	12	Values: R or B
(Not Used)	F	13	Blank
T/MRCA Number	F	14-19	Numeric field, right-justified. Field may be left blank.
Effective Date	F	20-23	Numeric field. Format YYMM. Field may be left blank.
Add/Delete Flag	F	24	Values: A, D, or blank.
(Not Used)	F	25-45	Blank
Qualifier	F	46	* See Note
MOS-2	F	47-50	"
Qualifier	F	51	"
MOS-3	F	52-55	"
SEP FLAG	F	56	Value = 1 or blank is valid.
Qualifier	F	57	* See Note
EDUC-1	F	58-59	"
Qualifier	F	60	"
EDUC-2	F	61-62	"
Qualifier	F	63	"
Service School-1	F	64-66	"
Qualifier	F	67	"
Service School-2	F	68-70	"
Qualifier	F	71	"
Language-1	F	72-73	"
Qualifier	F	74	"
Language-2	F	75-76	"
Billet Sponsor	F	77-79	Alpha/Numeric field. May be blank.
Security Clearance	F	80	Values: C, S, T, I, or blank.

* All codes that may be used with an "N," "D," or "U" Qualifier Code must be completely coded including the qualifier, or left blank.

Figure 5-11

TRANSACTION RECORD TYPE G

CODING INSTRUCTIONS

ENTRY DATA ELEMENTS	RECORD	COLUMNS	REMARKS
Record Code	G	1	Value = G
T/MR Number	G	2 - 6	Cols. 2-5 numeric. Col. 6 may be alpha or blank. This field may be duplicated in all following records.
T/MR Line Number	G	7-10	Must be same line number and suffix as Record Type E to which it applies
T/MR Line Number Suffix	G	11	
Operator	G	12	Values: I, R, D
(Not Used)	G	13	Blank
T/MRCA Number	G	14-19	Numeric field, right-justified. Field may be left blank.
Effective Date	G	20-23	Numeric field. Format YYMM. Field may be left blank.
Add/Delete Flag	G	24	Values: A, D, or blank.
(Not Used)	G	25	Blank
Footnote Code	G	26	Alpha character. Must not be blank.
FTN Sequence	G	27-28	Numeric field, right-justified. May be left blank only if one text record applies to this line number.
Footnote Text	G	29-78	Alpha/Numeric field, left-justified. May be left blank if Standard Footnote is one employing system generated text.
Unused	G	79-80	Blank

Figure 5-12

5.2.5 Unit Detail Coding Form

In the T/MR system, a unit record is defined as a unique combination of MCC, RUC, PsMCC, PEN, RCN, UIC, MPM, English Description and G/L that applies to a specific T/MR. The purpose of the Unit Detail Coding Form is to detail those T/MR billet lines that apply to a specific unit record. There are two Transaction Record types, H and I, contained on the Unit Detail Coding Form. Their functions are:

Transaction Record	T/MR Maintenance Function
H	Unit Record
I	Lines From-to Record

For initial entry into the system, these Transaction Records should be coded subsequent to completion of the Billet Line Detail Coding Form in that Transaction Record Type I relates directly to the billet lines coded on the Billet Line Detail Coding Form.

The Type H Transaction Record enters the Unit English description and the unique combination of MCC, RUC, PsMCC, PEN, RCN, UIC, MPM, and G/L. The Type I Transaction Record enters the from-to billet lines within a T/MR which relate to that specific unit record. For T/MRs comprised of a single unit such as a rifle company, a Type I Transaction Record would not be required. The larger T/MRs, especially Non-FMF will frequently require more than one Type H transaction record and one or more Type I transaction records may apply to each.

The T/MR System allows up to and including 999 Type H Transaction Records to apply to a single T/MR and imposes no limit on the number of Type I Transaction Records that may apply to a single Type H Transaction Record.

The "Unit Line No." of the Type H Transaction Record is a user assigned sequence number. All Type I Transaction Records applying to a given Type H Transaction Record will use the "unit line no." of that Type H transaction record. If a Type I transaction Record applies to an entire section(s) or sub-section(s) of a T/MR, the user should assure that the "Line From/Line to" includes the line number of the section/subsection description(s).

In the event that a T/MR is resequenced on the MLF, (i.e., all line numbers automatically redesignated in ascending order), the T/MR System will automatically reassign the new "Lines From/To" corresponding to the old line numbers.

When the MLF is accessed based on a Type I Transaction Record the T/MR System logic is "greater than or equal to" for the "Line From" value, and "less than or equal to" for the "Line To" value. It is recommended that the user periodically audit the Unit File Type I Transaction Records against the corresponding T/MR on the MLF to detect any "Lines From/To" that may have been deleted without an appropriate change being made to the Unit File. This audit can be easily written as an "Ad hoc" Mark IV processing request.

Figures 5-13 and 5-14 are a representation of the Unit Detail Coding Form and the backprinted instructions respectively. Figures 5-15 and 5-16 contain the coding instructions for Transaction Records H and I.

TABLE OF MANPOWER REQUIREMENTS (5320)
UNIT DETAIL

PAGE ____ OF ____ PAGES

	UNIT LINE NO.		UNIT TITLE	LINES FROM	LINES TO		NCC	RUC	PSMCC	PEN	RCN	UIC	MPV	GPC
08 N														
09 1														

5-38

RECORD TYPE	KEY FIELDS MUST BE FILLED	OPER. CODE	EFFECT OR USE OF OPERATOR	GENERAL COMMENTS
H OCR CODE 08	RECORD CODE T/MR NO. UNIT LN. NO. (SEE COMMENTS) OPERATOR	I	CREATES A UNIT RECORD	ZERO ≠ Ø LETTER "O" ≠ O
		D	DELETES ALL UNIT RECORDS ASSOCIATED WITH THE T/MR NUMBER INCLUDING TYPE "I" RECORDS AND ALL "N" TYPE DISSEMINATION RECORDS	WHEN USING THE "D" OPERATOR TO DELETE ALL UNIT RECORDS ASSOCIATED WITH A T/MR, NO "UNIT LINE NUMBERS" ARE REQUIRED
		R	REPLACES AN INDIVIDUAL FIELD WITH A NON-BLANK VALUE	
		E	ELIMINATES A SINGLE UNIT RECORD AND ITS ASSOCIATED TYPE "I" RECORD	
		B	BLANKS AN INDIVIDUAL FIELD PRESENTLY CONTAINING A VALUE	TO IDENTIFY THE FIELD TO BE "BLANKED," PLACE A NON-BLANK VALUE ON THE CODING SHEET IN THAT POSITION
I OCR CODE 09	RECORD CODE T/MR NO. UNIT LN. NO. OPERATOR LINE FROM LINE TO	I	CREATES A "FROM-TO" RECORD	ALL "I" TYPE RECORDS ASSOCIATED WITH AN "H" TYPE RECORD ARE AUTOMATICALLY DELETED WHEN A "D" OR "E" OPERATOR IS USED IN A RECORD TYPE "H" TRANSACTION.
		E	ELIMINATES A "FROM-TO" RECORD	

Figure 5-14

TRANSACTION RECORD TYPE H

CODING INSTRUCTIONS

ENTRY DATA ELEMENT	RECORD	COLUMNS	REMARKS
Record Code	H	1	Value = H
T/MR Number	H	2 - 6	Cols. 2-5 numeric, right-justified. Col. 6 alph or blank. This field should be duplicated from previous record.
Unit Line Number	H	7 - 9	Numeric field, right-justified.
(Not Used)	H	10-11	Blanks
Operator	H	12	Values: B, R, I, D, E (When using Code E, a Unit Segment is deleted; the Unit Line Number must be coded. When using Code D, all units within the T/MR are deleted. Unit Line Number must be blank.)
Unit Title	H	13-46	Alpha/Numeric field, left-justified. Must not be blank.
MCC (Monitored Command Code)	H	47-49	Alpha/Numeric field or all blanks.
RUC (Reporting Unit Code)	H	50-54	Numeric field or all blanks.
PsMCC (Pseudo Monitored Command Code)	H	55-58	Alpha/Numeric field or all blanks.
PEN (Program Element Number)	H	59-64	Alpha/Numeric field or all blanks.
RCN (Responsibility Center Number)	H	65-70	Alpha/Numeric field or all blanks.
UIC (Unit Identification Code)	H	71-76	Alpha/Numeric field or all blanks.
MPM (Major Program Memorandum)	H	77-78	Numeric field or all blanks.
G/L (Geographic Locator)	H	79-80	Alpha/Numeric field or all blanks.

Figure 5-15

TRANSACTION RECORD TYPE I

CODING INSTRUCTIONS

ENTRY DATA ELEMENT	RECORD	COLUMNS	REMARKS
Record Code	I	1	Value = I
T/MR Number	I	2 - 6	Duplicated from previous record.
Unit Line Number	I	7 - 9	Numeric field, right-justified. Duplicated from H Record.
(Not Used)	I	10-11	Blanks
Operator	I	12	Values: I, E
(Not Used)	I	13-22	Blank
Lines From	I	23-26	Cols. 23-26 numeric, right-justified.
Lines From Suffix	I	27	Col. 27, alpha or blank.
Lines To	I	28-31	Cols. 28-31 numeric, right-justified.
Lines To Suffix	I	32	Col. 32, alpha or blank.
(Not Used)	I	33-80	Blank

Figure 5-16

5.2.6 T/MR Recap Coding Form

There are occasions when it is necessary to consider units in the structure of the Marine Corps for which billet line detail has not been specified. In these instances the T/MR Recap Coding form is used to specify that unit in the T/MR system in Grade and MOS summary format. T/MRs coded in this fashion must have a T/MR Organization Form (Transaction Records Type A and possibly Type B), and may have a Type H Transaction Record from the Unit Detail Coding Form completed also.

It is possible to enter ungraded and excepted civilians in Recap Form although use of this capability is expected to be very rare. The user must simply specify the appropriate Branch, Type and MOS, and place the "number authorized" in the column corresponding to "GS-18."

Figures 5-17 and 5-18 are a representation of the T/MR Recap Coding Form and the backprinted instructions respectively. Figure 3-19 contains the coding instructions for Transaction Record Type J.

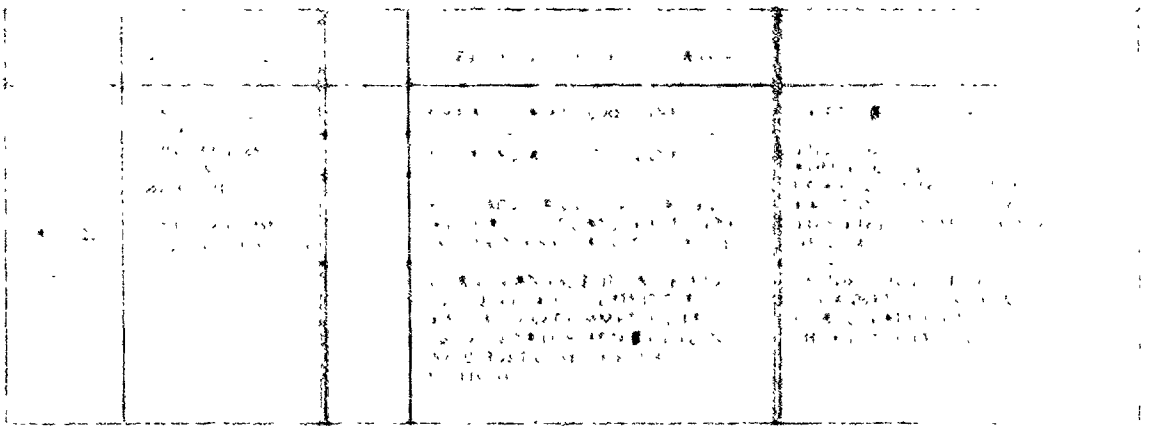
TABLE OF MANPOWER REQUIREMENTS (5320)
RECAP DETAIL

10

OCR CODE

T/MR NO.

PRI MOS	OPERATION	BRANCH	TYPE	STATUS	T/MRCA NO.	EFFECTIVE DATE (YYMM)	ADD/DEL	GS- SGTMAJ MGYSGT GEN	GS-17 1STSGT MSGT COL	GS-16 GYSGT LCOL	GS-15 SSGT MAJ	GS-14 SGT CAPT	GS-13 CPL LT	GS-12 LCPL	GS-11 PVT										
8 9 10 11	12	13	14	15	16 17 18 19 20 21	22 23 24 25	26	27 28 29	30 31 32	33 34 35	36 37 38	39 40 41	42 43 44	45 46 47	48 49 50										



CODING INSTRUCTIONS

ENTRY DATA ELEMENTS	RECORD	COLUMNS	REMARKS
Record Code	J	1	Value - J
T/MR Number	J	2 - 6	Cols. 2-5 always numeric, never blank. Col. 6 alpha or blank
(Not Used)	J	7	Blank
PRI-MOS	J	8-11	Always numeric, no blanks permitted
Operator	J	12	Values D, I, or R
Branch	J	13	One alpha, valid codes are M, N, A, F, P, C, or I.
Type	J	14	One alpha, valid codes are O, W, E, N, F, A, G, U.
Billet Status	J	15	Values F, C, R, X, S, BLANK.
T/MRCA Number	J	16-21	Always numeric, no blanks permitted.
Effective Date	J	22-25	Cols. 18-19 numeric year. Cols. 20-21 numeric month. Field may be blank.
Add/Delete Flag	J	26	Alpha or blank. Valid codes are A or D
GS-18, GEN, SGTMAJ/MGYSGT	J	27-29	Numeric, right-justified or blank
GS-17, COL, 1STSGT/MSGT	J	30-32	Numeric, right-justified or blank.
GS-16, LTCOL, GYSGT	J	33-35	Numeric, right-justified or blank
GS-15, MAJ, SSGT	J	36-38	Numeric, right-justified or blank
GS-14, CAPT, SGT	J	39-41	Numeric, right-justified or blank
GS-13, LT, CPL	J	42-44	Numeric, right-justified or blank
GS-12, WO, LCPL	J	45-47	Numeric, right-justified or blank
GS-11, PVT	J	48-50	Numeric, right-justified or blank
GS-10	J	51-53	Numeric, right-justified or blank.
GS-9	J	54-56	Numeric, right-justified or blank
GS-8	J	57-59	Numeric, right-justified or blank.
GS-7	J	60-62	Numeric, right-justified or blank
GS-6	J	63-65	Numeric, right-justified or blank
GS-5	J	66-68	Numeric, right-justified or blank.
GS-4	J	69-71	Numeric, right-justified or blank.
GS-3	J	72-74	Numeric, right-justified or blank.
GS-2	J	75-77	Numeric, right-justified or blank
GS-1	J	78-80	Numeric, right-justified or blank.

Figure 5-19

5.2.7 T/MR Manning Factor Transmittal Coding Form

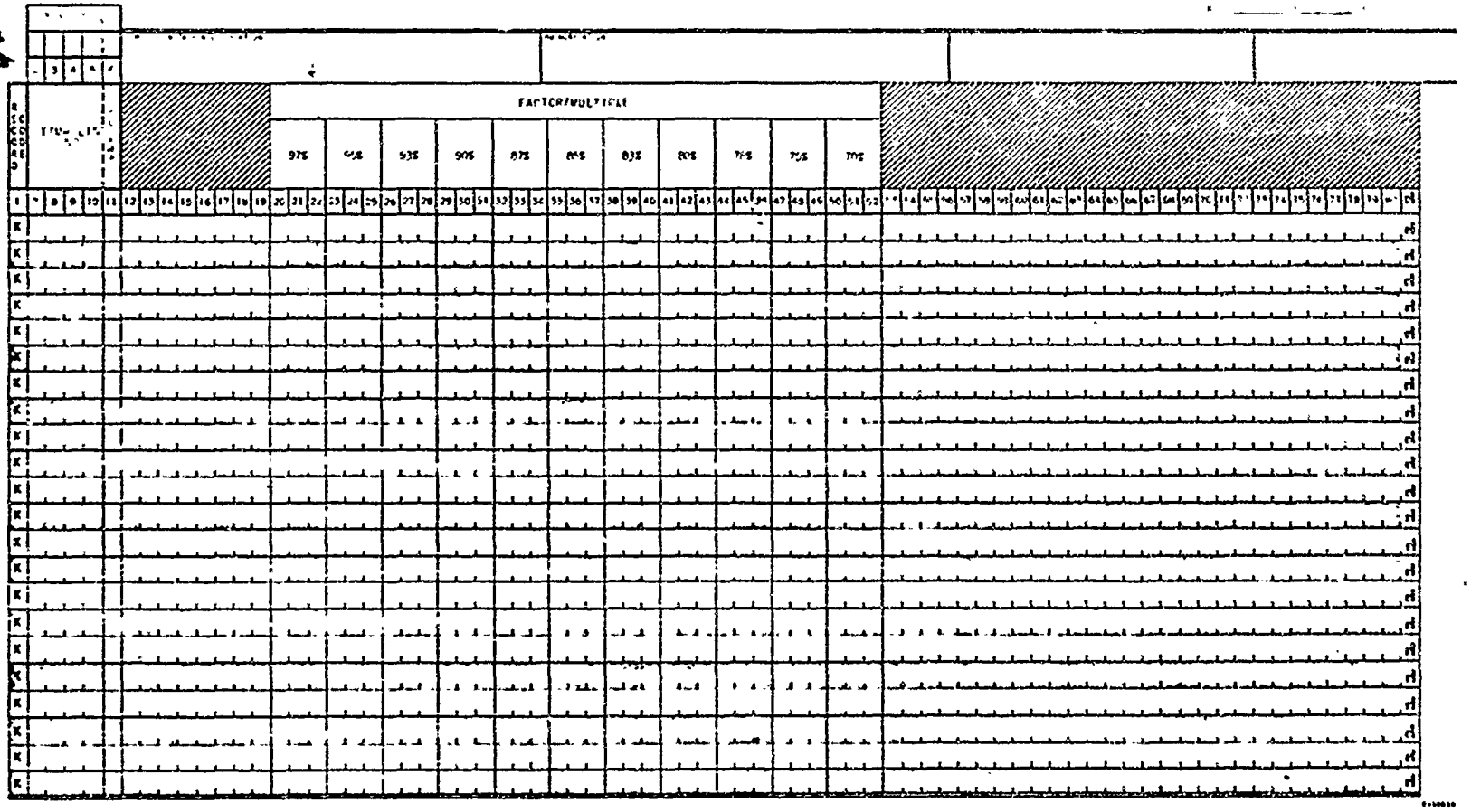
The use of Manning Factors is an important function of the T/MR System. Creation or modification of a T/MR will require the determination or redetermination of appropriate Manning Factors for that T/MR. Input to the T/MR system of Manning Factor information is by use of the T/MR Manning Factor Transmittal Coding Form. Completion of this form is facilitated by T/MR system outputs. The Manning Factor Coordinator will review the edit/audit transaction register. When he deems necessary, and upon request, a Manning Factor worksheet will be prepared for his use. The Manning Factor worksheet will be an image of the existing data on the file for the T/MRs he selects.

The Manning Factor Transmittal Coding form is designed for the Type K Transaction Record. Entries related to this transaction record are T/MR number, T/MR line number and the appropriate numeric for the various Manning factor/multiple (numbers or Section/Sub-section Multiple authorized for a particular percentage).

When a new T/MR is entered into the T/MR System, or an individual Section Header, Sub-section Header, or Billet Line (Transaction Record Types C, D, or E respectively), the "100% Authorized" value is automatically placed in each of the "Manning Factor/Multiple" cells. This feature requires that the Manning Factor/Multiples must only be modified for those billet lines or section/sub-section headers that actually change at a particular Manning Percentage.

Figures 5-20 through 5-22 are a representation of the Manning Factor Transmittal Coding Form, backprinted instructions, and the coding instructions for the Type K Transaction Record respectively.

TABLE OF MANPOWER REQUIREMENTS (5320)
MANNING FACTOR TRANSMITTAL



T/MR MANNING FACTOR RECORD

RECORD TYPE	KEY FIELDS MUST BE FILLED	OPER. CODE	EFFECT OR USE OF OPERATOR	GENERAL COMMENTS
K OCR CODE 11	T/MR NO. T/MR LN. NO.	NONE REQ.	ALL OPERATIONS ARE A "REPLACE" ACTION TO AN INDIVIDUAL FIELD WITH A NUMERIC VALUE ($ IS A NUMERIC)	ZERO = 0 LETTER "O" = O

Figure 5-21

TRANSACTION RECORD TYPE K

CODING INSTRUCTIONS

ENTRY DATA ELEMENT	RECORD	COLUMNS	REMARKS
Record Code	K	1	Value = K
LF/Mfr Number	K	2 - 6	Cols. 2-5 numeric, right-justified. Col. 6 may be alpha or blank.
LF/Mfr Line Number	K	7-10	Cols. 7-10 numeric, right-justified Col. 11 may be alpha or blank.
LF/Mfr Line Number Suffix	K	11	
(Not Used)	K	12-19	Blank
01 Factor/Multiple	K	20-22	Numeric field, right-justified or blank
02 Factor/Multiple	K	23-25	Numeric field, right-justified or blank
03 Factor/Multiple	K	26-28	Numeric field, right-justified or blank
04 Factor/Multiple	K	29-31	Numeric field, right-justified or blank
05 Factor/Multiple	K	32-34	Numeric field, right-justified or blank
06 Factor/Multiple	K	35-37	Numeric field, right-justified or blank
07 Factor/Multiple	K	38-40	Numeric field, right-justified or blank
08 Factor/Multiple	K	41-43	Numeric field, right-justified or blank
09 Factor/Multiple	K	44-46	Numeric field, right-justified or blank
10 Factor/Multiple	K	47-49	Numeric field, right-justified or blank
11 Factor/Multiple	K	50-52	Numeric field, right-justified or blank
(Not Used)	K	53-80	Blank

Figure 5-22

5.2.8 T/MRCA Cover Sheet Transmittal Coding Form

The T/MRCA Cover Sheet Transmittal Coding Form is an auditing tool designed to make certain that the numeric changes (gross numbers by grade and branch of service) shown on the T/MRCA Cover Sheet are actually effected by the sum total of the transaction during an Edit/Audit cycle. L Type Transaction Records are completed by entering the gross numeric changes by Branch code under the appropriate grade heading for each T/MRCA number. The T/MRCA number may be entered at the end of the transaction record line if desired for visual auditing purposes. This number is not transcribed to the OCR form.

Since gross changes may be either positive or negative, T/MR must be able to recognize negative quantities. In this case an alphabetic letter replaces the right most numeric digit for OCR input of negative gross changes (Keypunch representation is effectively the numeric digit with an "11" overpunch). The ready reference information shown on the back of the coding form includes the instructions for coding negative gross values.

As opposed to the other six forms, this form may be used to address modifications for more than one T/MR. Additionally, more than one T/MRCA can be coded for the same T/MR Number and Branch code combination should the situation arise.

Figures 5-23 through 5-25 are a representation of the T/MRCA Cover Sheet Transmittal coding form, backprinted instructions, and the coding instructions for the L Transaction Record respectively.

TABLE OF MANPOWER REQUIREMENTS (5320)
T/MRCA COVER SHEET TRANSMITTAL

OCR 12		T/MR NO			GEN	LCEN	MGEN	BGEN	COL CAPT	LCOL CDR	MAJ LCDR	CAPT LT	LT ENS	WO	SGTMAJ MMCM	MGYSGT	1STSGT MMCS	MSGT	GYSGT MMC	SSGT MM1	SGT MM2	CPL MM3	LCPL MM	PVT MA		T/MRCA NO. (DO NOT TRANSCRIBE)
					GS 18	GS 17	GS 16	GS 15	GS 14	GS 13	GS 12	GS 11	GS 10	GS 9	GS 8	GS 7	GS 6	GS 5	GS 4	GS 3	GS 2	GS 1	UNGRADED	EXCEPTED		
		1 2 3 4 5 6			8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67																							
L																										1
L																										2
L																										3
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L																										72

RECORD TYPE	KEY FIELDS MUST BE FILLED	OPER. CODE	EFFECT OR USE OF OPERATOR	GENERAL COMMENTS
L OCR CODE 32	RECORD CODE T/MR NO. BRANCH CODE	NONE REQ.	GROSS NUMBER CHANGES BY "BRANCH" AND "GRADE" ARE COMPARED WITH THOSE COMPUTED FROM INDIVIDUAL TRANSACTIONS AGAINST A GIVEN T/MR DURING EDIT/ AUDIT.	ZERO = ∅ LETTER "O" = O NEGATIVE QUANTITIES ARE INDICATED BY ALPHA CHARACTERS IN PLACE OF THE RIGHT MOST NUMERIC DIGIT. ∅ = / (SLASH) 5 = N 1 = J 6 = O 2 = K 7 = P 3 = L 8 = Q 4 = M 9 = R

Figure 5-24

TRANSACTION RECORD TYPE L

CODING INSTRUCTIONS

INPUT DATA ELEMENTS	RECORD	COLUMNS	REMARKS
Record Code	L	1	Value = L
T/MR Number	L	2 - 6	Cols. 2-5 numeric, right-justified. Col. 6 may be numeric.
Branch	L	7	One alpha, valid codes are M, N, A, F, P, C, or I.
GEN/GS-18	L	8-10	Numeric value, right-justified. Refer to Section L.
LGEN/GS-17	L	11-13	(Right most position may be alphabetic)
MGEN/GS-16	L	14-16	Numeric; right-justified. Negative quantities will have an 11 zone overpunch in the right most position. If typed and the quantity is negative convert the right most position according to the following:
BGEN/GS-15	L	17-19	
COL CAPT/GS-14	L	20-22	
LTCOL CDR/GS-13	L	23-25	0 = / (slash)
MAJ LCDR/GS-12	L	26-28	1 = J
CAPT LT/GS-11	L	29-31	2 = K
LT ENS/GS-10	L	32-34	3 = L
WO/GS-9	L	35-37	4 = M
SGTMAJ HMCM/GS-8	L	38-40	5 = N
MGYSGT/GS-7	L	41-43	6 = O
ISTSGT HMCS/GS-6	L	44-46	7 = P
MSGT/GS-5	L	47-49	8 = Q
GYSGT GMC/GS-4	L	50-52	9 = R
SSGT HM1/GS-3	L	53-55	The above rules apply to all of the following quantity fields.
SGT HM2/GS-2	L	56-58	
CPL HM1/GS-1	L	59-61	
LCPL HN/S	L	62-64	
PVT HA/NS	L	65-67	
(Not Used)	L	68-80	Blank

5.2.9 T/MR Distribution Coding Form

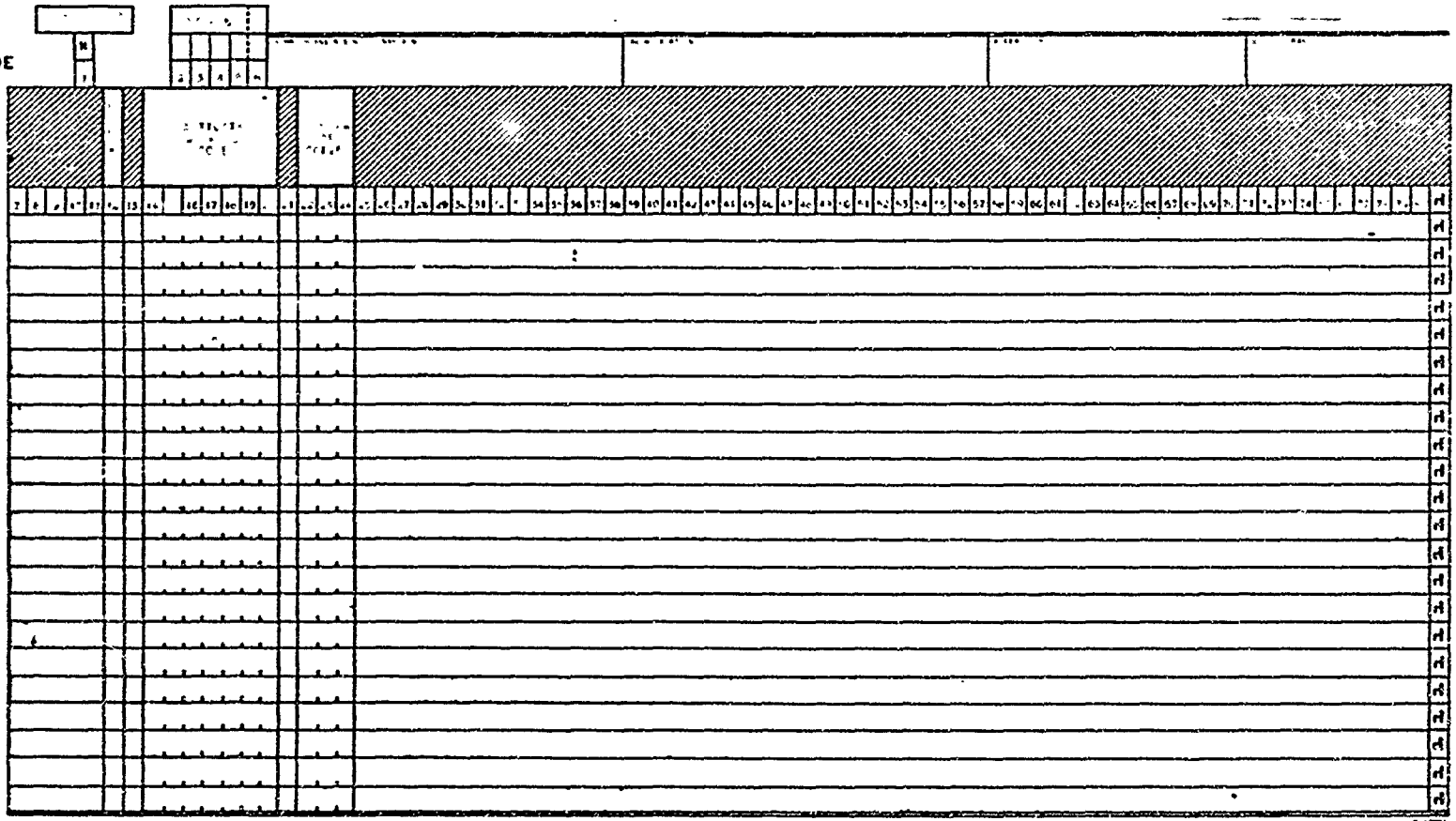
The T/MR has the capability to furnish the Distribution related to T/MR Dissemination. The T/MR Unit file is structured to allow inclusion of the Unit Activity Address Code and the number of copies of each T/MR to be disseminated to each Activity Address.

The T/MR System will produce on magnetic tape the distribution of each T/MR by Activity Address Code. This capability allows automatic interfacing with the Publication and Printing Branch (Code ABP) Labeling program.

T/MR Distribution information is maintained in the T/MR system through the vehicle of the T/MR Distribution Coding Form. The only entries required to maintain the Distribution segment of the unit file are the T/MR number, an appropriate operator, the Activity Address Code and the desired number of copies. Figures 5-26 through 5-28 are a representation of the T/MR Distribution Coding Form, backprinted instructions, and Type N Transaction Record coding instructions respectively.

TABLE OF MANPOWER REQUIREMENTS (5320)
Time Distribution

34
OCR CODE



RECORD TYPE	KEY FIELDS MUST BE FILLED	OPER. CODE	EFFECT OR USE OF OPERATOR	GENERAL COMMENTS
N OCR CODE 14	RECORD CODE T/MR NO. OPERATOR ACTIVITY ADDRESS CODE	I R E	CREATES AN INDIVIDUAL DISTRIBUTION RECORD LINE. REPLACES "NO. OF COPIES" FIELD OF AN INDIVIDUAL RECORD WITH A NEW NUMERIC VALUE. ELIMINATES A SINGLE DISTRIBUTION RECORD LINE.	ALL "N" TYPE RECORDS ASSOCIATED WITH A T/MR NO. ARE AUTOMATICALLY DELETED WHEN A "D" OPERATOR DELETES UNIT RECORDS IN A RECORD TYPE "H" TRANSACTION

Figure 5-27

TRANSACTION RECORD TYPE N

CODING INSTRUCTIONS

ENTRY DATA ELEMENT	RECORD	COLUMNS	REMARKS
Record Code	N	1	Value N
T/MR Number	N	2 - 6	Cols. 2-5 numeric Col 6 alpha or blank
(Not Used)	N	7 - 11	Blank
Operator	N	12	Values I, F, R Must not be blank
(Not Used)	N	13	Blank
Activity Address Code	N	14-20	Numeric field. Must not be blank Left justified.
(Not Used)	N	21	Blank
Number of Copies	N	22-24	Numeric field. Must not be blank Right justified.
(Not Used)	N	25-80	Blank

5.3 OPTICAL CHARACTER RECOGNITION (OCR) PROCEDURES

The following sub-sections delineate the OCR procedures of the T/MR system from a functional viewpoint. This includes a general discussion of the OCR philosophy, data transcription procedures and conventions, and document correction techniques. The relationship of the OCR Procedures to the overall Edit/Audit process is covered in Section 5-4, and the interface with Data System Division requirements is contained in the T/MR Operations (I/O) Manual.

5.3.1 General

The design philosophy of OCR application within the T/MR system has been to exploit the flexibility and simplicity of the Farington 3030 Translator to allow the maximum possible typed text to be written to magnetic tape. The validity of the data, and relationships between data elements can then be thoroughly examined within the T/MR Edit/Audit process. Additionally, the system has been designed from the viewpoint that once a valid OCR transaction has been read and placed on magnetic tape, it should not have to be re-read.

This process utilizes a "White Paper," free form approach, in which transaction records are entered on the standard OCR TYPING GUIDE, NAVMC 10863(7-71). General instructions concerning the preparation of OCR documents are contained in HQO 10460.5 series and the technical aspects of the reader program may be found in the Farington Translator Manual (Publication Number 4900/3).

The T/MR Transaction Record Specifications required by the OCR translator process are set forth in the T/MR Technical Manual.

5.3.2 OCR Transcription Procedure

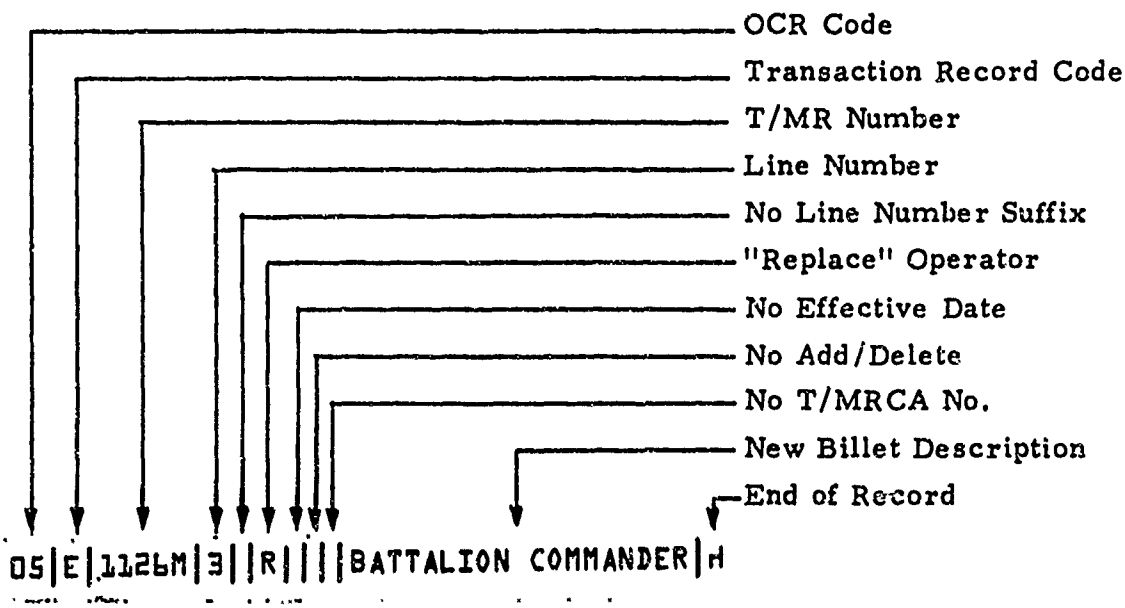
The T/MR OCR Transcription forms discussed in Section 5.2 were designed so that data could be typed directly from the form to the OCR Typing Guide. It should again be noted that the transcription forms reflect card column identification to facilitate punch card preparation should this fall back capability be required. The major difference between using either of these two input mediums is that for OCR input, the OCR code shown to the left of column 1, though not PUNCHED on a card, MUST be the first field TYPED on each OCR Transaction Record entry.

For the purposes of the T/MR transcription form, a FIELD is defined as that area between two solid vertical lines of that Transaction Record Type. Shaded areas on the form are not considered fields. Fields on the OCR input document are indicated by use of the standard OCR Field Separator "|." In those cases where a right justified field has leading spaces or a left justified field has trailing spaces on the transcription form, the OCR typist need only type the significant characters, preceded and followed by field separators. The OCR reader will automatically format these fields to the proper length on magnetic tape. Similarly, if a field is to remain blank, the OCR typist need only type a field separator to represent the field.

Along with certain T/MR transcription conventions set forth in section 5.3.3, preparation of the OCR input is straight forward.

The first characters typed will always be the two digit OCR code followed by a field separator, then the Transaction Record Code followed by a field spearator, then the T/MR Number followed by a field spearator (see comments on T/MR Number and T/MRCA Number duplication capabilities contained in this section). The next characters typed are a function of the specific transaction record type and the data coded for that transaction. In any case, each field, whether blank or containing data, is terminated by a field separator, out to and including the last non-blank coded field for that transaction record. The typist indicates the end of the transaction record by typing a CHAIR "H" following the last field separator. The OCR reader will format the transaction record to the full 80 character spaces on the magnetic tape.

Example of Billet Line Detail Transaction:



Should a given transaction record exceed the space available on a single typing line, the record can be continued to the next line. The only restriction is that a given field cannot be continued to the next typing line but must be wholly contained on one line terminated with a field separator. As with the general case above, the last field of the record is terminated with a field separator followed by a "↵" indicating the end of record.

The OCR reader program also offers the ability to duplicate a field from the immediately preceding transaction record of the same OCR Typing Guide Form. This may be accomplished only if the field is in the same relative position in the two transaction record types respectively. In this case, an ampersand"&" is typed in lieu of the data which otherwise would be required. This capability is useful for those transaction record types in which T/MR Number, T/MRCA Number, and Effective Date satisfy the relative position requirement. The following example illustrates this capability.

01|A|1013M|I|M1013||B|RIFLE CO. INF. BN.|↵
02|B|&|R|4|1038M|12|1099M|36|1990M|↵

↑ Duplicates T/MR Number from previous record.

In the event that an incorrect character has been mistakenly typed, the OCR typist merely backspaces, and overtypes a blob " ■." The OCR reader ignores a blob or series of blobs; hence an entry of |BA■■TTALI■ON CM■DR.| would be read as "|BATTALION CMDR.|." When it is desired that an entire line entry be ignored, the OCR typist returns the carriage to the first character on the line and types five interconnected dashes, e.g. ~~03|C|~~1013M|I|.....ETC.

5.3.3 T/MR Data Transcription Conventions

There are several conventions that if consistently followed will enhance the overall OCR transcription process. The first of these was mentioned in section 5.2, and concerns any fields on the OCR transcription forms in which no data is to be entered. If the T/MR Analyst, when coding a form, places an asterisk"*" somewhere in a blank field for that transaction record type, then the OCR typist must only recognize that a field separator stroke is required. Furthermore, if the OCR typist sees that the following fields all contain asterisks, then an end of record symbol "ↁ" may be typed after the field separator of the last significant data field.

The user is cautioned that the T/MR Line Number Suffix is a field in itself. In accordance with the OCR procedures, therefore, a line number suffix, if any, must be enclosed by field separators. Since cases in which the T/MR line number will require a suffix are relatively infrequent, the OCR typist should adopt the additional convention of stroking a field separator whenever a blank T/MR Line Number Suffix field is encountered.

While the duplication capability, previously described, is available for the second and subsequent transaction record entries on a single OCR Typing Guide page, the occasion may arise when a transaction record entry is rejected by the OCR reader. This situation would cause subsequent transaction record entries, with duplication symbols pertaining to the rejected entry, to be rejected themselves. It is recommended, therefore, that consideration be given

to the length of field to be duplicated. It may be more effective to type a short field than risk rejection of the transaction.

Once prepared, the OCR input forms should be protected from smudging, wrinkling, and mutilation. Any of these conditions may cause page or line rejection by the OCR reader. It is recommended that the OCR input forms be placed in a suitably sized manilla envelope for storage prior to being read. Although actual experience will dictate the best procedures for OCR input preparation, a separate input form for each T/MRCA will facilitate the T/MR Analysts' visual inspection of transcribed data, and provide continuity in T/MRCA audit trail procedures.

5.3.4 OCR Input/Output Procedures

It is appropriate that certain OCR procedures and functional characteristics of the Farington 3030 Reader contained in the T/MR Technical Manual also be highlighted in the T/MR Users Manual. These characteristics pertain to the system's handling of rejected lines and pages, and the console log produced by the reader's on-line electric typewriter.

If, during the "reading process," the OCR reader is unable to recognize a character, the operator has the capability to enter the character via the on-line typewriter. If the OCR reader detects an invalid or unrecognizable entry, the record will be rejected by the machine. When this occurs, a red dot is printed on the OCR form by the machine in the right margin below the applicable line.

When the last line entry on an error free page has been scanned by the reader, a red dot is placed on the lower right hand corner of the page prior to it being placed in the "accepted" bin. All pages containing errors are segregated from the others by placing them in the "rejected" bin and no red dot will appear on the lower right corner.

During the scanning process the on-line typewriter produces a console log which reflects character insertions, error message codes, and a summary count of:

- o Pages rejected (coded PR)
- o Page total (coded PT), includes all pages
- o Records rejected (coded RR)
- o Transcribed (accepted) records (coded TR)

Error messages are identified by page number, line number, and error message code. Page number refers to the sequence that the pages containing errors are placed in the bin; hence, it is important that these pages be kept in the same order as returned until the console log has been reviewed. Figure 5-29 reflects the error message codes and their related meanings. This listing was extracted from the Farington manual and is included for user convenience.

Following analysis of the returned OCR coding forms and console log, the user must determine the appropriate corrective action to be taken. Rejected records must be transcribed to a new OCR input form on a record by record basis.

The user is cautioned that the effectiveness of the OCR process is a direct function of the typist's care in preparing input documents, and the attention given to the cleanliness and adjustment of the OCR typewriter.

FARINGTON 3030 DATA ERROR MESSAGES

ERROR HANDLING

All data records other than those in error are written on tape. Records in error are given an error message on the typewriter console indicating the error condition, page and line number. The page will be marked on the right margin, one line below the line in error. These pages will be sorted to the alternate stacker. Determine error, retype and rescan.

ERROR CONDITIONS

Error 00 - Character unrecognized by reader on this line. Using Character Insertion will eliminate this condition.

Error 05 - 1. Data typed after field continuation symbol
2. Absence of Field Separator symbol before End-of-Record symbol
3. Field Separator not last character on a line when more than 1 line equals a record

Error 10 - Input field is too long, i.e., exceeds specified field count.

Error 15 - Non-numeric character in format specification number. If the first line on the page does not contain format identifier this error occurs.

Error 20 - Alphabetic or non-specified special character in numeric field.

Error 25 - Duplication not allowed - either first line attempted dup, or previous record in error, or fields are not of same specification or corresponding fields do not line up in relative character positions.

Error 30 - Format not defined in table, i.e., format wasn't identified in the OCR specification program.

Figure 5-29

Error 35 - Data typed after End-of-Record symbol on this line.

Error 40 - Multipunch started but not terminated with multipunch symbol.

Error 45 - More input fields than specified.

Error 50 - Imbedded blank in numeric field - also preceding or trailing blank.

Error 55 - Numeric character in Alpha field.

Error 60 - Initial format 2 digit indicator and other characters not equal to 5 total characters.

Error 65 - Illegal multipunch called for.

Error 70 - Last line on page is a continuation line, i.e., no end-of-record symbol. This condition also occurs when all data fields that have been specified have been typed and that line is not terminated by an End-of-Record symbol.

Figure 5-29 (continued)

5.4 EDIT/AUDIT

5.4.1 Introduction

T/MR Edit/Audit is the responsibility of the Assistant Chief of Staff G-1, Manpower Control Branch (AOIE). This section is devoted to the details of the T/MR Edit/Audit.

5.4.2 General

Fulfillment of the Manpower Control Branch responsibility to the T/MR Edit/Audit process will require internal coordination in the T/MR functional areas of:

- o T/MR Validation
- o T/MR Data Services
- o Manning/Deployment Support Factor Coordination

In the discussion which follows, no distinction is made as to the internal division of responsibilities within AOIE for a particular portion of the T/MR Edit/Audit. This is covered by appropriate Headquarters Marine Corps directives and internal AOIE procedures.

Under the former T/O system the Edit/Audit process was performed as a weekly cycle. Experience may show that the T/MR Edit/Audit should also be performed in this manner. In T/MR, however, the Edit/Audit function can be performed at any time.

The flow chart, figure 5-30, shows the T/MR Edit/Audit process and is used as a basis for discussion concerning its accomplishment.

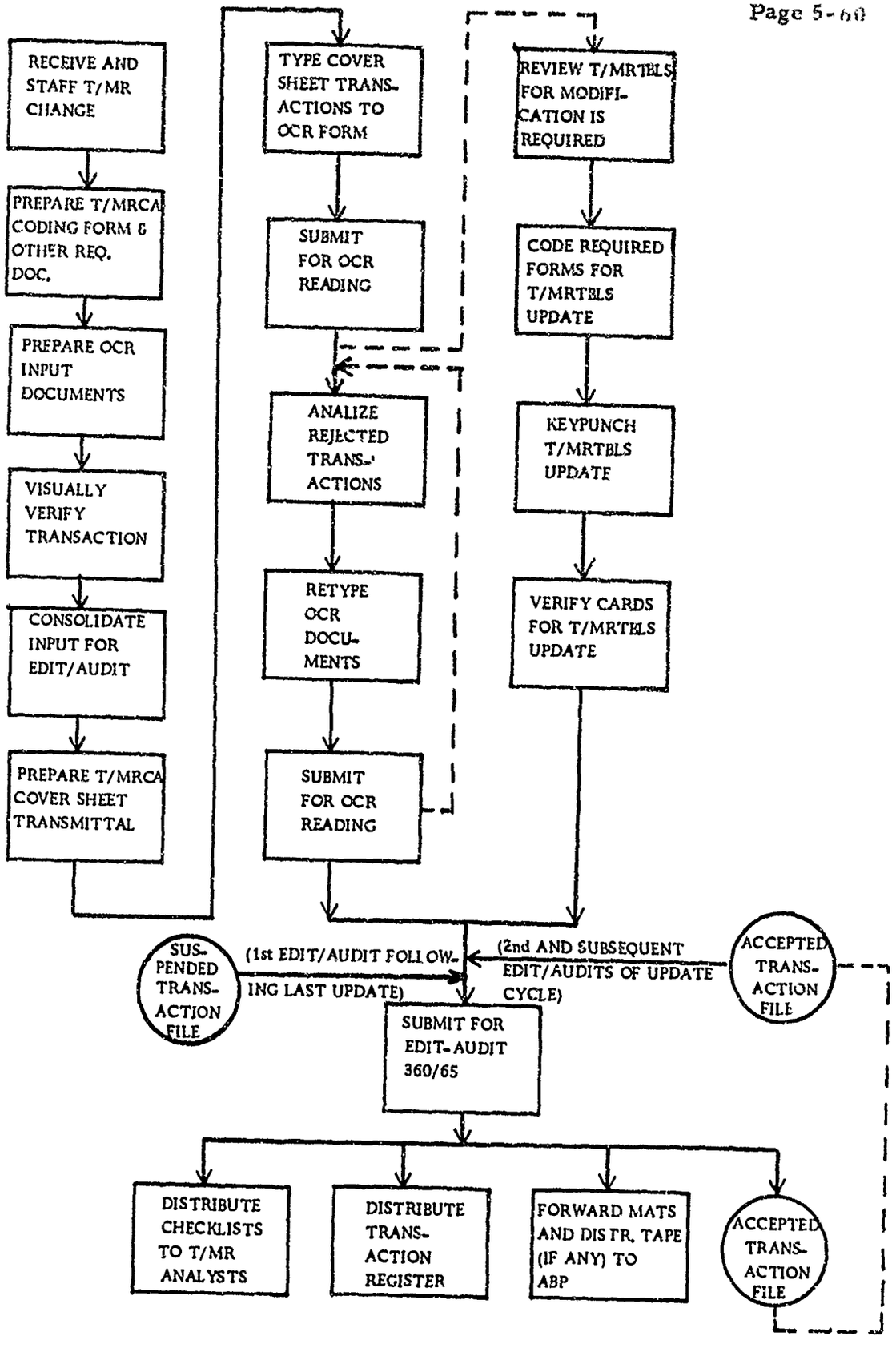

RECEIVE AND STAFF T/MR CHANGE
PREPARE T/MRCA CODING FORM & OTHER REQ. DOC.
PREPARE OCR INPUT DOCUMENTS
VISUALLY VERIFY TRANSACTION
CONSOLIDATE INPUT FOR EDIT/AUDIT
PREPARE T/MRCA COVER SHEET TRANSMITTAL
TYPE COVER SHEET TRANS-ACTIONS TO OCR FORM
SUBMIT FOR OCR READING
ANALIZE REJECTED TRANS-ACTIONS
RETYPE OCR DOCU-MENTS
SUBMIT FOR OCR READING
REVIEW T/MRTBLS FOR MODIFI-CATION IS REQUIRED
CODE REQUIRED FORMS FOR T/MRTBLS UPDATE
KEYPUNCH T/MRTBLS UPDATE
VERIFY CARDS FOR T/MRTBLS UPDATE
SUS-PENDED TRANS-ACTION FILE
(1st EDIT/AUDIT FOLLOW-ING LAST UPDATE)
(2nd AND SUBSEQUENT EDIT/AUDITS OF UPDATE CYCLE)
ACCEPTED TRANS-ACTION FILE
SUBMIT FOR EDIT-AUDIT 360/65
DISTRIBUTE CHECKLISTS TO T/MR ANALYSTS
DISTRIBUTE TRANS-ACTION REGISTER
FORWARD MATS AND DISTR. TAPE (IF ANY) TO ABP
ACCEPTED TRANS-ACTION FILE

Figure 5-30

As a convenience, the T/MR Edit/Audit discussion is divided into the following sub-sections:

- Data Preparation
- OCR Input
- Analysis of OCR Rejected Transactions
- Edit/Audit Preparation
- Edit/Audit Functioning
- Edit/Audit Follow-on Action

Frequent reference will be made to other sections of the [illegible] Manual to avoid redundancy.

5.4.1 Edit/Audit Data Preparation

The T/MR Edit/Audit Process starts with [illegible] change which has completed appropriate staffing [illegible] quarters and has been approved [illegible] the approval process, the approved [illegible] appropriate T/MR OCR trans[illegible] Coding Form preparation see section [illegible] forms are then given to the [illegible] data to OCR typing guide forms [illegible] are detailed in section [illegible] in operation, the Coding Forms [illegible] ments. Due to the nature of the [illegible] error in either forms coding or trans[illegible] the OCR typing guide forms should be completed [illegible]

5.4.4 Edit/Audit OCR Input Consolidation and Processing

For efficiency, changes will be accumulated for periodic Edit/Audits, however, the T/MR system places no constraints on the number of Edit/Audits that may be conducted prior to system update. Prior to each Edit/Audit cycle the gross number changes from the T/MRCA cover sheets are coded on the T/MRCA Cover Sheet Transmittal Form (see section 5.2.8). This is an auditing tool used to make certain that the gross number changes are compatible with the sum total of the changes effected by the individual transactions. The data from this coding form is transcribed to the OCR typing guide and input for OCR reading along with the other forms submitted for Edit/Audit. Procedures to be followed by Data Systems Division in OCR processing are presented in the T/MR Input/Output (I/O) Manual.

5.4.5 OCR Rejected Transaction Analysis

There are certain minimal edits associated with the OCR processing. The Optical Reader is, however, sensitive to forms alignment and character legibility. Any of several situations may cause an OCR transaction record to be rejected. In these cases it is necessary to analize the rejected transaction record and have the appropriate corrected transaction keypunched, for the OCR cyplat for reprocessing.

5.4.6 T/MR Edit/Audit Preparation

There are a number of T/MR tables which while internal to the T/MR Edit/Audit process affect the nature of the Edit/Audit and Update output. These tables are functionally related to system output and a

judgment as to their status or currency is required prior to each Edit/Audit or System Update. Examples would be the Suspended Transaction Table (SUSPEND), the Table of T/MRs and T/MR-MCC combinations for which summary cards are to be produced (T/MR-SUM), or the Table of T/MRs for which a Civilian Grade Average report is to be produced (CGA-T/MR). Identification and instructions for the update of these tables is contained in section 3.4.

5.4.7 T/MR Edit/Audit Process

Much of the T/MR Edit/Audit Process is performed by systems programs; hence is transparent to the user. The OCR Processing has produced a tape or tapes of OCR accepted transactions. These and the suspended transaction file (first Edit/Audit of the month only) will be input to the T/MR Edit/Audit routines. For a detailed discussion of the Edit/Audit techniques see section 3.5 (Data Validation). For a comprehensive discussion of the use of the Suspense Table (SUSPEND) and the Suspended Transaction File see section 5.5 (T/MR Update). In the Edit/Audit Process the OCR Accepted Transactions (and the Suspended Transactions if the first Edit/Audit since the last update) will be validated and if accepted placed on the Accepted Transaction file used in the System Update. The user is cautioned that the unit file transactions are subjected to a data validation edit only. No audit (pseudo update of the unit file) is conducted. The user must therefore assure appropriate operator code usage and unit number identification.

5.4.8 Edit/Audit Follow-On Actions

There are four principal outputs from the T/MR Edit/Audit Process. These are:

- o T/MR Checklists
- o The T/MR Transaction Register
- o T/MR MATS and Distribution Tape (when requested)
- o File of Accepted Transactions

The T/MR checklists are distributed to the appropriate T/MR analysts for a visual reference and a verification that the subsequent T/MR Update will produce the desired change.

The Transaction Register contains Accepted, Rejected and Suspended transactions. For each of these it shows an image of the record being changed, and the change/s to be made to that record in the order they will be effected in the update. This allows the user to effect multiple changes to a given record during a single update cycle and includes the capability to modify changes already on the accepted transaction file. Rejected transactions will be followed by applicable Diagnostic Messages. In some cases accepted transactions may be followed by warning messages. Error diagnostics and warning messages are listed in Appendix A.

When T/MR duplimats are produced during an Edit/Audit, the resulting mats will be delivered to the Printing and Publication Branch (ABP) of the Administrative Division for dissemination along with the distribution tape produced in conjunction with the mats.

The Edit/Audit Accepted Transactions will be output on magnetic tape. This file will be added to during subsequent Edit/Audits and utilized as input to the Update process.

5.5 T/MR UPDATE PROCEDURES

5.5.1 General

The T/MR Update is the functional responsibility of the Assistant Chief of Staff, G-1, Manpower Control Branch (AOIE). This section is devoted to the procedures of the T/MR Update.

The function of the T/MR Update is to enter the Accepted Transactions, accumulated over some period of time (probably monthly) into the appropriate T/MR files, to produce certain T/MR reports and to produce a hard copy distribution file for the Publications Branch (ABP), Administrative Division.

The chart, Figure 5-31 shows a macro flow of the T/MR Update procedures. The procedures will be discussed in the following categories:

- o Update Preparation
- o Job Preparation
- o Follow-on Procedures

Frequent reference is made to other sections of this manual to avoid redundancy.

5.5.2 Update Preparation

Prior to a T/MR Update it is necessary to review the T/MR Tables. This is especially true with the Functional Tables which specify the system operation and output from a particular T/MR Update. The Functional Tables are:

- o DUPLITBL
- o CHKLTBL
- o RECAPDUP
- o SUSPEND

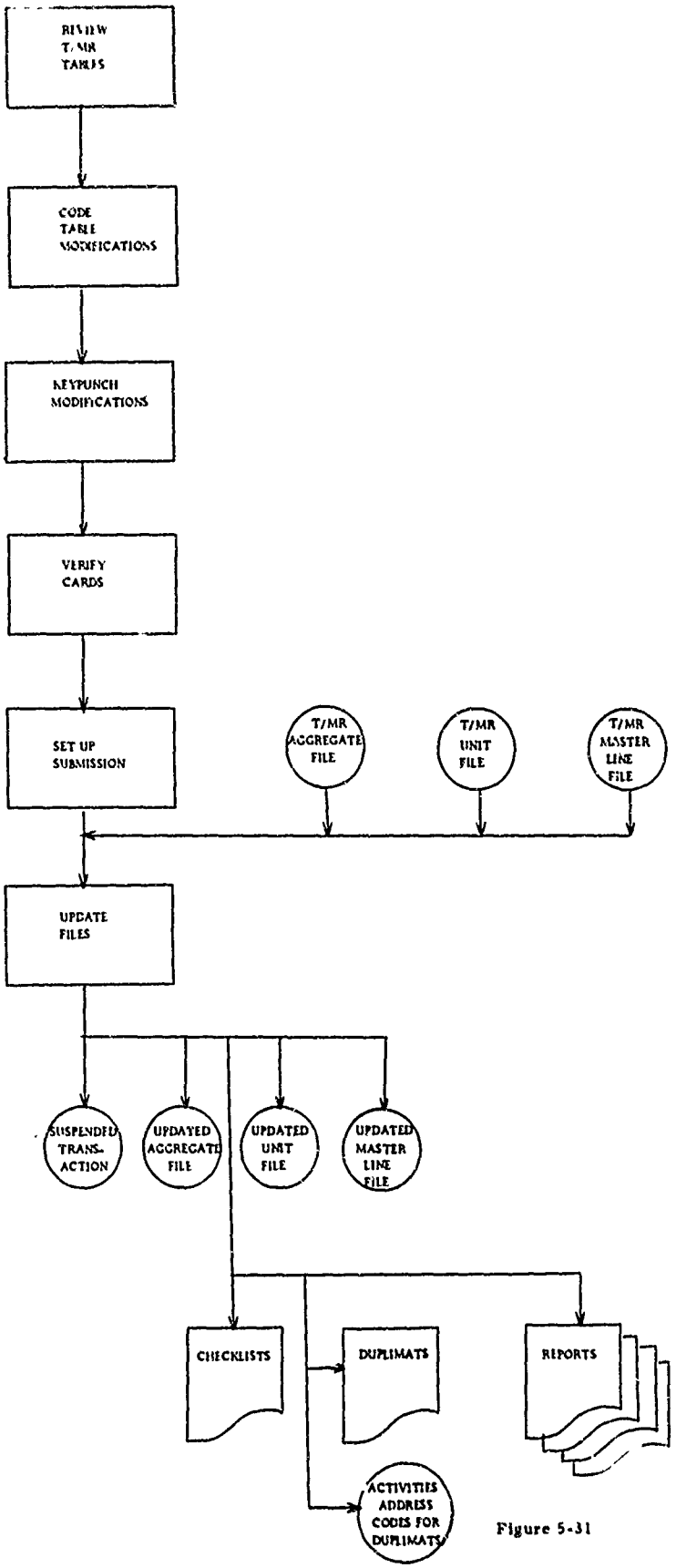

REVIEW T/MR TABLES
CODE TABLE MODIFICATIONS
KEYPUNCH MODIFICATIONS
VERIFY CARDS
SET UP SUBMISSION
T/MR AGGREGATE FILE
T/MR UNIT FILE
T/MR MASTER LINE FILE
UPDATE FILES
SUSPENDED TRANS-ACTION
UPDATED AGGREGATE FILE
UPDATED UNIT FILE
UPDATED MASTER LINE FILE
CHECKLISTS
DUPLIMATS
REPORTS
ACTIVITIES ADDRESS CODES FOR DUPLIMATS

Figure 5-31

The function of each of these tables in the T/MR Update process will be discussed separately. Table update procedures for each of these tables is contained in Section 3.4.

DUPLITBL - a table of Base T/MR numbers for which duplimat format reports and a related distribution file are to be produced during a T/MR Edit/Audit or Update. Base T/MRs affected during an update need not be entered in this table in that duplimats in billet line and recap detail, and distribution file, will automatically be produced for those T/MRs. This table will be automatically purged after each Edit/Audit or Update.

CHKLTBL - a table of T/MRs (Base and/or Higher Level) for which Checklist format reports are to be produced on T/MRs not being changed during a T/MR Edit/Audit or Update. T/MRs affected during an Edit/Audit or Update need not be entered in this table in that checklists in billet line and/or recap detail will be produced automatically for those T/MRs. This table will be automatically purged after each Edit/Audit or Update.

RECAPDUP - a table of Higher Level T/MR numbers for which T/MR Recaps should be produced in duplimat form during a T/MR Edit/Audit or Update. This table will be automatically purged after each Edit/Audit Update. Higher Level T/MR Recap duplimats are not automatically produced during the Update process, but must be explicitly requested by entries in this table.

SUSPEND - a table of T/MRCA numbers for which changes are not to be completed in the current period's Update process. The SUSPEND table is not purged automatically; the T/MRCA number relating to a particular change transaction must be removed

from the SUSPEND file using the procedures detailed in Section 3.4. During Update, the change transactions suspended by the SUSPEND table are used to create a Suspended Transactions file (this file may be considered as carryover accepted transactions). On the first Edit/Audit subsequent to creation of a file of suspended transactions, the suspended transactions pass the Edit/Audit routines at the same time as the OCR accepted transactions and are established on the accepted transactions file (see Section 5.4.6). This action eliminates the suspended transactions file. Checklist format outputs will not be again produced unless the SUSPEND table entry for the T/MRCA has been removed. If the T/MRCA number related to a particular change transaction is still resident in the SUSPEND table, that change will again not be effected and the cycle will be repeated.

T/MR Update preparation can be conceptually reduced to reviewing the Functional table entries, and coding, keypunching, verifying and updating these tables.

5.5.3 Update Job Preparation

File input to the Update process includes the T/MR Aggregate file, Unit file and the Master Line file. These are the files to be updated. The details relating to Update Job preparation are included in Appendix B.

5.5.4 Update Follow-on Procedures

There are seven principal outputs from the T/MR Update process:

- Updated T/MR Aggregate File
- Updated T/MR Unit File
- Updated Master Line File

- o Checklists
- o T/MR duplimats and tape of T/MR distribution related Activity address codes
- o Reports as specified by appropriate tables (see Section 6)

The T/MR Checklists are distributed to AOIE (T/MR validation) and appropriate HQMC staff agencies as a reference document.

When T/MR duplimats are produced the resulting mats and related distribution tape will be delivered to the Printing and Publication Branch (ABP) of the Administrative Division for dissemination.

Reports produced by the T/MR Reports Subsystem will be forwarded to the requesting agency in accordance with established Headquarters Directives.

In addition to the output detailed above, the standard MARK IV messages will specify any unit file transactions or other input that may have failed the system update process.

5.6 SPECIAL MAINTENANCE PROCEDURES

5.6.1 Introduction

This section relates to the performance of Special T/MR File Maintenance functions which are system capabilities available when needed. These capabilities include:

- o Repositioning of T/MR Line Numbers
- o Creation of "Look-Alike" T/MR with old T/MR number
- o Creation of "Look Alike" T/MR with new T/MR number
- o Sequencing of T/MR Line Numbers

These capabilities are exercised through the use of appropriate T/MR M type tables.

5.6.2 Maintenance Tables

The T/MR Maintenance tables and their maintenance functions follow

B5-LN-CH - this table is used to reposition T/MR line numbers within a T/MR. It contains the T/MR number present line number and new T/MR line number. See Section 3.4 and Figure 3-5 for table update procedures.

B5R-D/C - this table is used to redesignate a T/MR with the same number of a T/MR already on the T/MR file; and deletes the old T/MR. Table contains present T/MR numbers and operator codes D (delete) and C (change). See Section 3.4 and Figure 3-6 for table update procedures.

B5R-DUAL - this table is used to create a duplicate image of a new T/MR number. It presents T/MR number and new T/MR number.

B5-SEQ - this table is used to resequence T/MR line numbers, eliminating all Alpha suffixes; it contains the T/MR number of the T/MR to be resequenced.

In Figure 3-3 it should be noted that the Table Type M has an X suffix. This means that these tables will automatically be purged after use.

5.6.3 Special File Maintenance Job Procedures

These file maintenance procedures are conducted exclusive of the update or Edit/Audit process and each of the procedures discussed in Section 5.6.1 has a companion computer program which effects the actions selected by the appropriate table update. Job procedures for these programs are detailed in Appendix B.

RECURRING REPORTS

6.1 INTRODUCTION

There are a number of "hard copy" reports that were published for Headquarters Marine Corps staff agencies prior to conversion of the T/O system to the Table of Manpower Requirements (T/MR) system. In nearly all cases these reports will be available under T/MR. Exceptions are cases where the T/MR system capability obviates the requirement for particular reports. The recurring reports can be considered in two report categories; those necessary to T/MR file maintenance and those provided for interface with T/MR related processes or the specific use of some Headquarters Marine Corps agency. In all cases the Assistant Chief of Staff, G-1, Manpower Control Branch (AO1E) has the responsibility for approving the distribution of T/MR related information.

6.2 SUMMARY OF T/MR RECURRING REPORTS

Figure 6-1 contains a list of the T/MR Recurring Reports produced by the T/MR system. Each report is described by Title of Report or File, Principal User, Frequency of Publication, Medium, T/MR Technical Manual Reference, where applicable a figure reference to an example output format. Where appropriate the table name which controls report production, and comments relating to the particular report are also shown.

6.3 T/MR REPORTS PRODUCTION

TITLE OF REPORT OR FILE	PRIN. USER	FREQ.	MEDIUM	TECH. MAN. REF.	FORMAT REF.	TABLE REF.	COMMENTS
FILE MAINTENANCE REPORTS							
T/MR Checklists (Billet Line Detail and Grade/MOS Recap)	AOIE	WK MO	STOCK PAPER		Fig 6-2 Fig 6-3	CHKLTBL	Requests for checklisting of specific T/MRs will be loaded into a MARK IV table. If the T/MR number exists in the table, print both the Billet Line Detail and the base T/MR Recap by Grade/MOS on standard stock paper.
T/MR Checklists (Higher Level T/MR Grade/MOS Recap) Formerly known as (BATTALION RECAP)	AOIE	MO	STOCK		Fig 6-3	NONE	These checklist recaps will be produced for all higher level T/MRs affected by a change to any of the base T/MRs comprising a portion of that higher level T/MR.
T/MR Dissemination Report	AOIE	AR	STOCK PAPER		NONE	NONE	A listing, by T/MR No. and Organization Description of all Activity Address Codes and the number of copies authorized for distribution.
T/MR Duplimat Billet Line Detail	ABP	AR	DUPLI-MAT		Fig 6-4	DUPLITBL	Print all T/MRs for which a request is made. This is accomplished through user update of a MARK IV table in which the table argument is the five position T/MR number.
T/MR Duplimat Grade/MOS Recaps (Base T/MRs)	ABP	AR	DUPLI-MAT		Fig 6-5	NONE	Print Grade/MOS Recaps for all base T/MRs printed on Duplimats in report above.
T/MR Duplimat Grade/MOS Recaps (Higher Level T/MR)	ABP	AR	DUPLI-MAT		Fig 6-5	RECAPDUP	Print Grade/MOS Recaps for all higher level T/MRs associated with the UPDATED base T/MRs.
T/MR Effective Listing	AOIE	MO	STOCK PAPER		Fig 6-6	NONE	List of all T/MRs, Organization Title and date of last update (MM/DD/YY)
T/MR Multiple List	AOIE	MO	STOCK PAPER		Fig 6-7	NONE	List all Aggregate Multiples for a T/MR summarizing each base and higher level T/MR by Branch/Type categories. Produce a summary line for T/MR 9000 which is "Total Marine Corps Billets."
T/MR Transaction Register	AOIE	WK	STOCK PAPER		Fig 6-8a 6-8b	NONE	List of all accepted and rejected transactions, each preceded by a display of the existing file image of the record in question, and followed by error messages for the rejected transaction records
T/MR Unit List	AOIE	MO	STOCK PAPER		Fig 6-9	NONE	Prints all unit file records and applicable lines From/To records (if any) for each T/MR
Billet Locator	AOIE	AR	STOCK PAPER		NONE	NONE	Based on user specified billet line attributes and sequences, prints image of all selected billet lines. Each billet line followed by footnote text if applicable.

Figure 6-1

TITLE OF REPORT OR FILE	PRIN. USER	FREQ.	MEDIUM	TECH. MAN. REF.	FORMAT REF.	TABLE REF.	COMMENTS
Composition T/MR Listing	AOIE	MO	STOCK PAPER		Fig 6-10	NONE	List the composition multiples and aggregate T/MR numbers associated with each higher level T/MR.
OTHER MANAGEMENT REPORTS Civilian Grade Average	AOIE	AR	STOCK PAPER		Fig 6-11	CGA/TMR	By T/MR number, indicates the number of graded U.S. Civilians by GS level, the percentage by level of the total rated, and the weighted grade average. As produces a summary for the entire Marine Corps.
Manning Factor Work Sheet	T/O Sponsors	AR	STOCK PAPER		Fig 6-12	MFWSTBL	Display of an entire T/MR in abbreviated billet line detail including manning factors to be used as a working tool in periodic review procedures.
Requirements Information Process (RIP) Report	AOIE AOIM	AR	STOCK PAPER		NONE		A summary by T/MR Number of 100% authorized Marine/Navy Officers and Enlisted, and U. S. Civilians.
T/MR PAP Report	AOIE	MO	STOCK PAPER		Fig 6-13	PAP-TBL	Summarizes by T/MR Number, PAP within PEN Officer Enlisted totals for non-FMF air and ground.
T/MR Special Education Program (SEP) Rpt.	DFA	MO	STOCK PAPER		NONE	NONE	Consists of four formats of which two are in billet line detail and two in Grade/MOS recapitulation detail. Frequency for format 4 is "as requested." Format 1 lists SEP billets by T/MR Number/Line Number with a summary total by discipline. Format 2 lists SEP billets by T/MR Number/Line Number within discipline. Format 3 is a Grade/Billet MOS matrix by "Necessary" and "Desirable" within Discipline. Format 4 is a Grade/Billet MOS matrix by Discipline within MCC.
T/MR Summary File	DFB-5	MO	CARDS or MAG. TAPE		NONE	T/MR-SUM	Based on user specified attributes summarizes 100% enlisted requirements by MOS and Grade within MCC.
Ungraded Civilians by Type/MOS	AOIE	AR	STOCK PAPER		NONE	UNGRITBL	By T/MR number, indicates the number of wage board civilians authorized by MOS within wage board category.
Ungraded Civilian Pay Level - Type Matrix	AOIE	AR	STOCK PAPER		NONE	UNGRITBL	By T/MR number, displays a matrix in which the cells are the number authorized, colum headings are wage board categories (13), and rows are pay level (1 through 97).

Figure 6-1 (continued)

TITLE OF REPORT OR FILE	PRIN. USER	FREQ.	MEDIUM	TECH. MAN. REF.	FORMAT REF.	TABLE REF.	COMMENTS
UIC Strength Audit List	AO3H	MO	STOCK PAPER		Fig 6-14	NONE	Lists English Description related to each UIC (FORSTAT) on file
UIC Strength File	AO3H	MO	CARDS		NONE	NONE	Provides strength values required for entry into the FORSTAT System (J-1 cards)
Weapons Data File	AO4G	MO	MAG. TAPE		NONE	NONE	Summarizes weapons by category for each T/MR with Officer and Enlisted counts (Marine and Navy)

Figure 6-1 (continued)

6.3.1 General

In the T/MR there are three general categories of reports:

- Recurring reports which are produced automatically during a T/MR Edit/Audit or Update run;
- Ad-hoc reports (see Section 7), and
- Recurring reports that are produced on a "when desired" basis.

This section is devoted to the production of the last category of reports.

6.3.2 Report Production Tables

In T/MR, production of recurring reports which are produced when requested is controlled through the use of T/MR Reports Tables. The T/MR Report Table names and their functions follow:

- o CGA/TMR - this is a table of all T/MRs for which a Civilian Grade Average report is to be produced. See Section 3.4 and Figure 3-9 for table update procedures.
- o MFWSTBL - this is a table of T/MRs for which Manning Factor Worksheets are to be produced during a specific report processing run. See Section 3.4 and Figure 3-16 for table update procedures.
- o PAP-TBL - this is a table of PAP Functional Categories which groups various PAP codes for summarization on the PAP report. See Section 3.4 and Figure 3-18 for table update procedures.

- o T/MR-SUM - this is a table of T/MRs and T/MR-MCC combinations for which T/MR summary cards are to be produced. See Section 3.4 and Figure 3-25 for table update procedures.

- o UNGRITBL - this is a table of T/MRs for which the Ungraded Category/Pay Level matrix report is to be produced. See Section 3.4 and Figure 3-26 for table update procedures.

In Figure 3-3 it should be noted that three of these five tables have a Type Code with an X suffix. This means that the tables so indicated are automatically purged after use.

6.3.3 Production of Recurring T/MR Reports

There is a special program called the T/MR Reports Processor which is used to produce T/MR recurring reports. Job procedures for running the T/MR Reports Processor are contained in Appendix B.

T/MR CHECKLIST 19 JUL 1972 PAGE 1

T/MR 5003 SPL ASGN MC, NAVY DEPT, DEPARMENTAL

T/E NO

LINE NO.	ENGLISH DESCRIPTION	BILL SPON	ALPHA GRADE	MOS	F T N	B R N	T Y P	S T A	MARINES OFF	MARINES ENL	OTHER SERVICES OFF	OTHER SERVICES ENL	CONT F/A OFF	CONT F/A ENL	CIV	P A P	W P N	EDU	S E P	S C	LNG	SERV SCH	T/MRCA	EFF DATE	ADD DEL
1	IMMEDIATE OFF OF THE SEC								1	EACH													000065		
2	OFFICE OF THE SECNAV																						000065		
3	SPL ASST AND MARCOR AI		CCL	9910		M	O		1							Z	U						839070		
4	PERSONNEL/ADMIN CHIEF		GYSGT	0193		M	E			1						Z	U						638 72		
5	ADMIN CLERK		SSGT	0151		M	E			1						Z	U						638 72		
5A	WHITE HOUSE LIAISON OFFIC								1	EACH													430065		
5B	MARCOR MEMBER		CAPT	9910	Z	N	O	X	1							Z	-						804 72		
5C	MARCOR MEMBER		LT	9910		M	O		1							Z	U						527066		
6	OFFICE OF UNDER SECNAV								1	EACH													000065		
7	SPL ASST AND MARCOR AI		COL	9910		M	O		1							Z	U						839070		
7A	MARCOR MTRS																								
8	ASST FOR OFFICE MNGT		LT	9910		M	O		1							Z	U						000065		
9	ADMIN CLERK		SSGT	0151		M	E			1						Z	U						638 72		
10	ADMIN CLERK		SGT	0151		M	E			1						Z	U						638 72		
10A	OFFICE OF THE ASST SECNAV																						407068		
10B	MANPOWER/RESERVE AFFAIRS								1	EACH													407068		
10C	SPL ASST AND MARCOR AI		LTCOL	9910		M	O		1							Z	U						839070		
10D	ADMIN CLERK		CPL	0151	W	M	E			2						Z	U						638 72		
11	OFFICE OF THE ASST SECNAV									EACH													000065		
12	INSTALLATIONS/LOGISTICS								1	EACH													000065		
13	SPL ASST ANC MARCOR AI CH		LTCOL	3002 N9640 N3002		M	O		1							Z	U		1				723068		
14	ADMIN CLERK		SSGT	0151		M	E			1						Z	U						638 72		
15	ADMIN CLERK		SGT	0151		M	E			1						Z	U						638 72		
16	OFFICE OF THE ASST SECNAV																						000065		
17	RESEARCH AND DEVELOPMENT								1	EACH													000065		
18	SPL ASST/MARCOR AIDE AX		LTCOL	9912 N9620 N9912		M	N		1							Y	U		1				885070		
19	ADMIN CLERK		SSGT	0151		M	E			1						Z	U						638 72		
20	ADMIN CLERK		SGT	0151		M	E			1						Z	U						638 72		
21	OFFICE OF THE ASST SECNAV																						000065		
22	FOR FINANCIAL MANAGEMENT								1	EACH													000065		
23	SPL ASST AND MARCOR AI AS		LTCOL	9910 N9644		M	O		1							Z	U		1				367069		
24	ADMIN CLERK		SSGT	0151	W	M	E			1						Z	U						638 72		
25	ADMIN CLERK		SGT	0151	W	M	E			1						Z	U						638 72		
	SECTION TOTAL MARINE								8	12															

TR-72-1515-5
Page 6-7

Figure 6-2

LINE NO.	ENGLISH DESCRIPTION	BILL SPON	ALPHA GRADE	MOS	T N	R N	Y P	T A	MARINES OFF	MARINES ENL	SERVICES OFF	SERVICES ENL	F/A OFF	F/A ENL	CIV	A P	P N	EDU	E P	S C	LNG	SERV SCH	T/MRCA	EFF DATE	ADD DEL
1	IMMEDIATE OFF OF THE SEC								1	EACH													000065		
2	OFFICE OF THE SECNAV																						000065		
3	SPL ASST AND MARCOR AI		CCL	9910		M	O		1							Z	U					839070		
4	PERSONNEL/ADMIN CHIEF		GYSGT	0193		M	E			1						Z	U					638 72		
5	ADMIN CLERK		SSGT	0151		M	E			1						Z	U					638 72		
5A	WHITE HOUSE LIAISON OFFIC								1	EACH													430065		
5B	MARCOR MEMBER		CAPT	9910	Z	M	O	X	1							Z	--						804 72		
5C	MARCOR MEMBER		LT	9910		M	O		1							Z	U						527066		
6	OFFICE OF UNDER SECNAV								1	EACH													000065		
7	SPL ASST AND MARCOR AI		COL	9910		M	O		1							Z	U						839070		
7A	MARCOR MTRS																								
8	ASST FOR OFFICE MNGT		LT	9910		M	O		1							Z	U						000065		
9	ADMIN CLERK		SSGT	0151		M	E			1						Z	U						638 72		
10	ADMIN CLERK		SGT	0151		M	E			1						Z	U						638 72		
10A	OFFICE OF THE ASST SECNAV																						407068		
10B	MANPOWER/RESERVE AFFAIRS								1	EACH													407068		
10C	SPL ASST AND MARCOR AI		LTCOL	9910		M	O		1							Z	U						839070		
10D	ADMIN CLERK		CPL	0151	W	M	E			2						Z	U						638 72		
11	OFFICE OF THE ASST SECNAV									EACH													000065		
12	INSTALLATIONS/LOGISTICS								1	EACH													000065		
13	SPL ASST ANC MARCOR AI CH		LTCOL	3002 N9640 N3002		M	O		1							Z	U		1				723068		
14	ADMIN CLERK		SSGT	0151		M	E			1						Z	U						638 72		
15	ADMIN CLERK		SGT	0151		M	E			1						Z	U						638 72		
16	OFFICE OF THE ASST SECNAV																						000065		
17	RESEARCH AND DEVELOPMENT								1	EACH													000065		
18	SPL ASST/MARCOR AIDE	AX	LTCOL	9912 N9620 N9912		M	N		1							Y	U		1				885070		
19	ADMIN CLERK		SSGT	0151		M	E			1						Z	U						638 72		
20	ADMIN CLERK		SGT	0151		M	E			1						Z	U						638 72		
21	OFFICE OF THE ASST SECNAV																						000065		
22	FOR FINANCIAL MANAGEMENT								1	EACH													000065		
23	SPL ASST AND MARCOR AI AS		LTCOL	9910 N9644		M	O		1							Z	U		1				347069		
24	ADMIN CLERK		SSGT	0151	W	M	E			1						Z	U						638 72		
25	ADMIN CLERK		SGT	0151	W	M	E			1						Z	U						638 72		
	SECTION TOTAL MARINE								8	12															

Figure 6-2

TABLE OF MANPOWER REQUIREMENTS 19 JUL 1972 PAGE 1

T/MR 5003 SPL ASGN MC, NAVY DEPT, DEPARMENTAL

RECAPITULATION BY MOS T/E

LINE NO.	MOS	GS18	GS17	GS16	GS15	GS14	GS13	GS12	GS11	GS10	GS9	E9 GS8	GEN E8 GS7	COL E7 GS6	LTCOL E6 GS5	MAJ E5 GS4	CAPT E4 GS3	LT E3 GS2 UNGR	WO E2/1 GS1 EXC	LINE TOTAL
NAVAL AVIATORS																				
1	7560														1					1
2	7562														1					1
3	7564														1					1
4	9907													6						6
5	9912														7	1				8
	TOTAL													6	10	1				17
AIR GROUND OFFICERS																				
6	5903														2	1	1			4
7	5950																1			1
	TOTAL														2	1	2			5
MARINE OFFICERS																				
8	0202														1					1
9	1803														1					1
10	2502															2				2
11	3002														1					1
12	3415													1	1					2
13	4402														6	3				9
14	9852														1					1
15	9903												1							1
16	9906													10						10
17	9910													4	6	4		2		16
18	9911														2					2
19	9914													1						1
	TOTAL												1	16	19	9		2		47
	TOTAL												1	22	31	11	2	2		69
MARINE ENLISTED																				
20	0151														5	4	4			13
21	0193													2						2
22	8151															1				1
	TOTAL													2	5	5	4			16

Figure 6-3

USMC T/MR
T/E

LINE	BILLET DESCRIPTION	GRADE	MOS	NOTE	BRANCH	TYPE	STATUS	OFF	ENL	CIV	PAP	WPN

T/MR DESCRIPTION (5320) NAVMC HQ 681 (3-72)

Figure 6-4. T/MR Duplimat Billet Line Detail

USMC T/MR

T/E

RECAPITULATION BY MOS

LINE	MOS	SGTMAJ MGYSGT	GEN 1STSGT MSGT	COL GYSGT	LTCOL SSGT	MAJOR SGT	CAPT CPL GRADED	LT LCPL UNGRADED	WO PVT EXCEPTED	TOTAL

T/MR RECAPITULATION BY MOS (5320) NAVMC HQ 682 (3-72)

Figure 6-5. T/MR Duplimat Grade/MOS Recaps

T/MR NO	ORGANIZATION DESCRIPTION	DATE OF LAST UPDATE
5993	MD, CRUISER W/SPECL CAPABILITY	720613
5994	MARINE COMMUNICATION DETACHMENT LCC	720613
5994A	MARINE COMMUNICATION DETACHMENT LCC	720613
5995	COMBAT CARGO OFF,LPA OR LKA	720613
5996	F AND S ALLOW, PAC	720723
5997A	MARINE DETACHMENT, SUBMARINE TENDER	720613
5997B	MARINE DETACHMENT, SUBMARINE TENDER	720613
5997C	MARINE DETACHMENT, SUBMARINE TENDER	720613
5998	MD, ACFT CARRIER W/SPL CAPABILITY	720723
5998A	MD, ACFT CARRIER W/SPL CAPABILITY	720613
5999	MD, CRUISER	720613
6011	MB, USNB, NEWPORT RHODE ISLAND	720613
6012	MB, NAVAL SHIPYARD, PORTSMOUTH, N. H.	720613
6013	MB, NAS, QUONSET POINT, R. I.	720613
6014	MD, NDC, PORTSMOUTH, N. H.	720613
6015	MB,USNB, BOSTON, MASS	720613
6017	MB, NAS, BRUNSWICK, MAINE	720613
6021	MB, USNA, ANNAPOLIS, MD.	720723
6022	MB, FORT MEADE, MD.	720613
6031	MB NSB NEW LONDON, GROTON, CONN.	720723
6032	MB, NAD, EARLE, N. J.	720613
6033	MB, NB, BROOKLYN, NEW YORK	720613
6041	MB, USNAS, LAKEHURST, N. J.	720613
6042	MB, USNB, PHILADELPHIA, PA.	720613
6051	MD, HQ, CINCLANTFLT, USNB,NORFOLK, VA	720613
6053	MB NB NORFOLK VA	720613
6055	MB, NNSYD, PORTSMOUTH, VA.	720613
6056	MB, NAVWPNSTA, YORKTOWN, VA.	720613
6057	MB, NAS, PATUXENT RIVER	720613
6064	MB, USNAS, JACKSONVILLE, FLA.	720613
6065	MB, NB, CHARLESTON, S. C.	720613
6066	MB, USNB, KEY WEST, FLA.	720613
6067	MB, NWS, CHASN, S C	720723
6069	MB, NAS, CECIL FIELD, FLA.	720613
6082	MB, USNAD, MCALESTER, OKLAHOMA	720723
6092	MB NTC GREAT LAKES ILL	720613
6101	MB, SAN JUAN	720613
6102	MB NB GUANTANAMO BAY,CUBA	720613
6104	MB USNS ROOSEVELT ROADS P R	720613
6111	MB, NWS, SEAL BEACH, CALIF.	720613
6112	MB, NB, L.A. LONG BEACH, CALIF	720613
6114	MB, NWS, SEAL BEACH, FALLBROOK ANNEX	720723
6116	MB, NS, SAN DIEGO, CALIF.	720613
6119	MB, NAS, NORTH ISLAND, CALIFORNIA	720613

T/MR NO	ORGANIZATION DESCRIPTION	DATE OF LAST UPDATE
6120	MARINE BARRACKS,NS,TI,SAN FRANCISCO	720613
6121	SCTY CO,MB,NS,TI,SAN FRAN	720613
6122	MB, NAS, ALAMEDA, CALIF.	720613
6123	MB, NB, VALLEJO, CALIF.	720613
6124	MB, NWS, CONCORD, CALIF.	720613
6125	MB, NAS, MOFFETT FIELD, CALIF.	720723
6126	MB, HUNTERS POINT NSYD SFRAN	720613
6127	MB, NAD, HAWTHORNE, NEVADA	720613
6129	MB, NAS, LEMOORE, CALIF.	720613
6131	MB, NAVAL TORPEDO STATION, KEYPORT WASH	720723
6132	MB, NAS, WHIDBEY IS, WASH	720613
6133	MB, BREMERTON, WASH	720613
6141	MB, NAS, BARBERS POINT	720613
6142	MB, NAD, OAHU HAWAII	720613
6143	MB, NB, PEARL HARBOR	720613
6151	MB, 15TH ND, RODMAN, C. Z.	720613
6171	MB, USNS, ADAK, ALASKA	720613
6201	MB, NTC, MORCCCO, KENITRA, MOR	720613
6202	MD, NAVACT UNITED KINGDOM, LONDON	720613
6203	MB, USNAVSUPT ACT, NAPLES, ITALY	720613
6204	MB ROTA SPAIN	720613
6207	MB, NS, BERMUDA	720613
6208	MB, GUAM, M. I.	720613
6209	MB, USNB, SUBIC BAY, P. I.	720723
6211	MB, USFLTACT, YOKOSUKA, JAPAN	720613
6212	MB, USFLTATC, SASEBO, JAPAN	720613
6220	MB, NAVFORICE, KEFLAVIK, ICELAND	720613
7001	HQ-PERS/ADMIN MCSC ALBANY GA	720723
7002	MATERIEL DIVISION MCSC ALBANY GA	720613
7003	REPAIR DIVISION MCSC ALBANY GA	720613
7004	SCHOOLS DIVISION,MCSC,ALB GA	720613
7011	SUPPORT SERVICES MCSC BARSTOW	720613
7012	MATERIEL DIV, MCSC, BARSTOW	720613
7013	REPAIR DIVISION	720613
7020	MARCOR SUPPLY ACTIVITY, PHILADELPHIA	720613
7101	WOMAN MARINE CO,CAMP H. M. SMITH	720613
7102	SERVICE COMPANY,CAMP H. M. SMITH	720723
7103	RANGE/SCHOOL COMPANY,CAMP H. M. SMITH	720613
7191	WOMAN MARINE CO, CAMP ELMORE, VA.	720613
7192	SUPPORT CO, CAMP ELMORE, VA.	720613
7211	HQ CO. HQS BN MCRD SAN DIEGO USMC T/O 7211	720723
7212	SVC CO H-S BN MCRD SAN DIEGO	720613
7213	MP CO, H-S BN, MCRD, SAN DIEGO	720613
7214	CAS CO,H-S BN, MCRD, SAN DIEGO	720613

Figure 6-6

07/01/72
T/MR

T/MR MULTIPLE REPORT

PAGE 20
CSV

ORGANIZATION DESCRIPTION	TYP MULTIPLES	NO	NE	NO	NE	
5203 I COMPANY B, MARINE SUPPORT BN	B	2	50	0	0	0
5204 CO C, MARINE SUPPORT BN 1/5200 1/9500	B	2	60	0	0	0
[illegible] MARINE SUPPORT BN	B	3	62	0	0	0
5206 CO E, MARINE SUPPORT BN 1/5200 1/9500	B	3	77	0	0	0
[illegible] PERSONNEL	B	2	86	0	0	0
5208 CO G, MARINE SUPPORT BN 1/5200 1/9500	B	2	53	0	0	0
[illegible] RECORDS CLERK	B	2	49	0	0	0
5210 CO I, MARINE SUPPORT BN 1/5200 1/9500	B	2	44	0	0	0
[illegible] MEDICAL ADMIN BRANCH	B	2	15	0	0	0
5212 CO L, MARINE SUPPORT BN 1/5200 1/9500	B	3	80	0	0	0
[illegible]	B	12	19	0	0	0
5503 MC ASGN TO MAAGS, MISSIONS AND 1/9500	B	18	2	0	0	0
LFTC, AMPH TRNG COMD ATLANTIC	B	39	99	0	0	14
5980S SUPP LFTC,AMPH TRNG COMD LANT	3	3	8	0	0	1
[illegible] 1/9500	B	54	[illegible]	[illegible]	[illegible]	[illegible]
5986 F AND S ALLOW LANT AND NAVEUR 1/9500	B	55	107	0	0	0

Figure 6-7

```
07/15/72                                                TABLE OF MANPOWER REQUIREMENTS                                      PAGE 130
                                                           TRANSACTION REGISTER
         1         2         3         4         5         6         7         8                    8         9         10
1234567890123456789012345678901234567890123456789012345678901234567890123456789 0                   123456789012345678901 2345

D8471 0163 R                                    001                                *** VALID ***  8471    0163    R   720713
          000

E8471 0164 I 131272       ADMINISTRATIVE ASSISTANT000NO O2LT       2300             *** ERROR ***  8471    0164    I   720713
          032  WEAPON CODE NOT COMPATIBLE WITH TYPE CODE

E8471 0165 I 131272R      ASST TO MED ADMIN OFFICE000NEXE7HMC    - 0000             *** ERROR ***  8471    0165    I   720713
          121  ADD/DEL FLAG AND EFF DATE MUST BOTH BE COMPLETE

E8471 0166 I 131272ICE    SUPVR NAVY PERSONNEL OFF000NE E6PN1      0000             *** ERROR ***  8471    0166    I   720713
          032  WEAPON CODE NOT COMPATIBLE WITH TYPE CODE

          121  ADD/DEL FLAG AND EFF DATE MUST BOTH BE COMPLETE

E8471 0167 I 131272       RECORDS CLERK         000NE E5PN2        0000             *** ERROR ***  8471    0167    I   720713
          032  WEAPON CODE NOT COMPATIBLE WITH TYPE CODE

E8471 0168 I 131272       RECORDS CLERK         000NEXE4PN3      - 0000             *** VALID ***  8471    0168    I   720713
          000

D8471 0169    471 72    MEDICAL ADMIN BRANCH    001                                 ***CURRENT***  8471    0169

D8471 0169 I 131272     MEDICAL ADMIN BRANCH    000                                 *** VALID ***  8471    0169    I   720713
          000

D8471 0169 R                                    001                                 *** VALID ***  8471    0169    R   720713
          000

E8471 0170 I 131272ICE    SUPVR MEDICAL RECORD OFF000NE E8HMCS     0000             *** ERROR ***  8471    0170    I   720713
          032  WEAPON CODE NOT COMPATIBLE WITH TYPE CODE

          121  ADD/DEL FLAG AND EFF DATE MUST BOTH BE COMPLETE

E8471 0171 I 131272ERK    MEDICAL RECORDS MAINT CL000NE E5HM2      0000             *** ERROR ***  8471    0171    I   720713
          032  WEAPON CODE NOT COMPATIBLE WITH TYPE CODE

          121  ADD/DEL FLAG AND EFF DATE MUST BOTH BE COMPLETE

E8471 0172 I 131272       MED RECORDS MAINT CLERK 000NEXE5HM2    - 0000             *** VALID ***  8471    0172    I   720713
          000

D8471 0173    471 72    HEALTH RECORDS BRANCH   001                                 ***CURRENT***  8471    0173

D8471 0173 I 131272     HEALTH RECORDS BRANCH   000                                 *** VALID ***  8471    0173    I   720713
          000
```

Figure 6-8a

```
          1         2         3         4         5         6         7         8         9         10
1234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345

E8471 0293 I 131272      ELECTRICIAN LINEMAN      002CU 00WG      0000      *** ERROR ***  8471  0293  I  720713
         013  PAY GRADE CODE INVALID

E8471 0294 I 131272      ELEC LINEMAN (HELPER)    001CU 00WG      0000      *** ERROR ***  8471  0294  I  720713
         013  PAY GRADE CODE INVALID

E8471 0295 I 131272      REF/AIR CON MECH F/MAN   001CU 00WS      0000      *** ERROR ***  8471  0295  I  720713
         013  PAY GRADE CODE INVALID

E8471 0296 I 131272      REFRIG & AIR COND MECH   006CU 00WG      0000      *** ERROR ***  8471  0296  I  720713
         013  PAY GRADE CODE INVALID

E8471 0297 I 131272      ELECTRICIAN              004CU 00WG      0000      *** ERROR ***  8471  0297  I  720713
         013  PAY GRADE CODE INVALID

E8471 0298 I 131272ER    REFRIG/AIR COND PLANT OP 001CU 00WG      0000      *** ERROR ***  8471  0298  I  720713
         013  PAY GRADE CODE INVALID

E8471 0300 I 131272      GROUNDS GEN FOREMAN      001CU 00WS      0000      *** ERROR ***  8471  0300  I  720713
         013  PAY GRADE CODE INVALID

E8471 0301 I 131272      PEST C/E OPERS F/MAN     001CU 00WS      0000      *** ERROR ***  8471  0301  I  720713
         013  PAY GRADE CODE INVALID

E8471 0302 I 131272      PEST CONTROL EQUIP OP    002CU 00WG      0000      *** ERROR ***  8471  0302  I  720713
         013  PAY GRADE CODE INVALID

E8471 0303 I 13127201    PEST CONTROL EQUIP OP(LT 001CU 00WG      0000      *** ERROR ***  8471  0303  I  720713
         013  PAY GRADE CODE INVALID

E8471 0304 I 131272      LABORER                  002CU 00WG      0000      *** ERROR ***  8471  0304  I  720713
         013  PAY GRADE CODE INVALID

E8471 0305 I 131272      JANITORS                 008CU 00WG      0000      *** ERROR ***  8471  0305  I  720713
         013  PAY GRADE CODE INVALID

E8471 0306 I 131272      GROUNDS FOREMAN          001CU 00WS      0000      *** ERROR ***  8471  0306  I  720713
         013  PAY GRADE CODE INVALID

E8471 0307 I 131272      GARDENER                 002CU 00WG      0000      *** ERROR ***  8471  0307  I  720713
         013  PAY GRADE CODE INVALID

E8471 0308 I 131272      FIELD TRACTOR OPERATOR   003CU 00WG      0000      *** ERROR ***  8471  0308  I  720713
         013  PAY GRADE CODE INVALID
```


Figure 6-8b

07/21/72 TABLE OF MANPOWER REQUIREMENTS PAGE 1
UNIT LIST

T/MR	UNIT	UNIT-TITLE	MCC	PUC	PSMCC	PEN	RCN	UIC	SPN	G/L	LINE FROM	LINE TO
10134	001	COMPANY G 2-6-2	122	12176	12FC	26211M	308321		11	34	-	-
	C02	COMPANY H 2-2-2	122	12127	12C0	26211M	308321		11	34	-	-
	C03	COMPANY C 1-8-2	122	12215	12H0	26211M	308321		11	34	-	-
	C04	COMPANY I 3-6-2	122	12185	12G0	26211M	308321		11	34	-	-
	C05	COMPANY I 3-9-3	124	13235	13J0	26211M	467025		14	RK	-	-
	006	COMPANY H	122	12227	12I0	26211M	308321		11	34	-	-
	007	COMPANY L 3-6-2	122	12187	12G0	26211M	308321		11	34	-	-
	C08	COMPANY D 1-2-2	122	12116	12B0	26211M	308321		11	34	-	-
	C09	COMPANY C 1-2-2	122	12115	12AC	26211M	308321		11	34	-	-
	C1C	COMPANY F 2-2-2	122	12125	12C0	26211M	308321		11	34	-	-
	011	COMPANY F 2-2-2	122	12124	12C0	26211M	308321		11	34	-	-
	C12	COMPANY H 2-6-2	122	12177	12FC	26211M	308321		11	34	-	-
	013	COMPANY F 2-6-2	122	12175	12F0	26211M	308321		11	34	-	-
	014	COMPANY F 2-6-2	122	12174	12F0	26211M	308321		11	34	-	-
	015	COMPANY K 3-8-2	122	12236	12J0	26211M	308321		11	34	-	-
	016	COMPANY L 30 MAR	121	13137	15G0	26211M	467025		12	05	-	-
	017	COMPANY B 1-8-2	122	12214	12H0	26211M	308321		11	34	-	-
	018	COMPANY K 3-8-2	122	12238	12J0	26211M	308321		11	34	-	-
	C19	COMPANY L 3-8-2	122	12237	12J0	26211M	308321		11	34	-	-
	020	COMPANY I 30 MAR	121	13135	15G0	26211M	467025		12	05	-	-
	021	COMPANY K 3-6-2	122	12186	12G0	26211M	308321		11	34	-	-
	022	COMPANY G 2-2-2	122	12126	12C0	26211M	308321		11	34	-	-
	023	COMPANY C 30 MAR	130	13115	15B0	26211M	467339		12	12	-	-
	024	COMPANY A 30 MAR	130	13113	15B0	26211M	467339		12	12	-	-
	025	COMPANY D 1-9-3	124	13216	13H0	26211M	467025		14	RK	-	-
	026	COMPANY A 1-4-3	124	13163	13E0	26211M	467025		14	RK	-	-
	027	COMPANY D 1-4-3	124	13166	13E0	26211M	467025		14	RK	-	-
	028	COMPANY E 2-4-3	124	13174	13F0	26211M	467025		14	RK	-	-
	029	COMPANY L 3-2-2	122	12137	12D0	26211M	308321		11	34	-	-
	C30	COMPANY A 1 9-3	124	13213	13HC	26211M	467025		14	RK	-	-
	031	COMPANY H 3-2-2	122	12138	12D0	26211M	308321		11	34	-	-
	032	COMPANY B 1-4-3	124	13164	13E0	26211M	467025		14	RK	-	-
	033	COMPANY I 3-8-2	122	12235	12J0	26211M	308321		11	34	-	-
	034	COMPANY A 1-2-2	122	12113	12B0	26211M	308321		11	34	-	-
	035	COMPANY K 30 MAR	121	13136	15G0	26211M	467025		12	05	-	-
	C36	COMPANY E 2-9-3	124	13224	13I0	26211M	467025		14	RK	-	-
	037	COMPANY F	122	12225	12I0	26211M	308321		11	34	-	-
	C38	COMPANY D 1-8-2	122	12216	12H0	26211M	308321		11	34	-	-
	039	COMPANY K 3-2-2	122	12136	12D0	26211M	308321		11	34	-	-
	040	COMPANY M 3-9-3	124	13238	13J0	26211M	467025		14	RK	-	-
	041	COMPANY F 30 MAR	130	13125	15C0	26211M	467339		12	12	-	-
	042	COMPANY L 3-9-3	124	13237	13J0	26211M	467025		14	RK	-	-
	043	COMPANY G 2-4-3	124	13176	13F0	26211M	467025		14	RK	-	-
	044	COMPANY D 1-6-2	122	12166	12E0	26211M	308321		11	34	-	-
	045	COMPANY A 1-6-2	122	12163	12E0	26211M	308321		11	34	-	-

Figure 6-9

COMPOSITE T/MR LIST

	COMP T/MR	COMP MULT	ORGANIZATION DESCRIPTION			
			TOTAL CIVILIAN			
7200A	7221A	1				
7200C	7221C	1				
			TOTAL CIVILIAN	1,047	AVERAGE GS GRADE	7,88
7200S	72115	1				
	7215	1				
	7214	1				
			TOTAL CIVILIAN	94	AVERAGE GS GRADE	8,66
	7221C	1				
	7222	3				
7210	7211	1				
			TOTAL CIVILIAN	51	AVERAGE GS GRADE	7,59
7210S	72115	1				
7211	-	-	-			

Figure 6-10. T/MR Composition Listing

T/O 5050 MARCOR FIELD SERVICE ASGN

TOTAL CIVILIAN 18 AVERAGE GS GRADE 8,50

GS18	GS17	GS16	GS15	GS14	GS13	GS12	GS11	GS10	GS9	GS8	GS7	GS6	GS5	GS4	GS3	GS2	GS1
					3	1	3		4		1	1	1	3	1		
,0%	,0%	,2%	,0%	,0%	16,6%	5,5%	16,6%	,0%	22,2%	,0%	5,5%	5,5%	5,5%	16,6%	5,5%	,0%	,0%

T/O 5099 HQ USMC

TOTAL CIVILIAN 1,047 AVERAGE GS GRADE 7,68

GS18	GS17	GS16	GS15	GS14	GS13	GS12	GS11	GS10	GS9	GS8	GS7	GS6	GS5	GS4	GS3	GS2	GS1
1	1	2	21	46	103	85	73		80	11	140	93	155	129	184	1	
,0%	,0%	,2%	2,0%	4,5%	9,8%	8,1%	6,9%	,0%	7,6%	1,0%	13,3%	8,8%	14,8%	12,3%	9,9%	,0%	,0%

T/O 5130 DISTRICT HQ, MARCOR DISTRICTS

TOTAL CIVILIAN 94 AVERAGE GS GRADE 5,60

GS18	GS17	GS16	GS15	GS14	GS13	GS12	GS11	GS10	GS9	GS8	GS7	GS6	GS5	GS4	GS3	GS2	GS1
									1		2	2	11	34	29	15	
,0%	,0%	,0%	,0%	,0%	,0%	,0%	,0%	,0%	1,0%	,0%	2,1%	2,1%	11,7%	36,1%	30,8%	15,9%	,0%

T/O 5132 OFFICER SELECTION TEAMS

TOTAL CIVILIAN 51 AVERAGE GS GRADE 3,19

GS18	GS17	GS16	GS15	GS14	GS13	GS12	GS11	GS10	GS9	GS8	GS7	GS6	GS5	GS4	GS3	GS2	GS1
														8	43		
,0%	,0%	,0%	,0%	,0%	,0%	,0%	,0%	,0%	,0%	,0%	,0%	,0%	,0%	15,6%	84,3%	,0%	,0%

Figure 6-11

TOAR NO	MM100	MM97	MM95	MM93	MM90	MM87	MM85	MM83	MM80	MM78	MM75	MM70	SECTION DESCCIPTION	ALPHA GRADE	1ST MOS
RIFLE CO, INF BN, INF REGT, MARDIV, FMF															
PAD TOTAL 6042															
1013N 0000													RIFLE CO, INF BN, INF REGT		
0001	1	1	1	1	1	1	1	1	1	1	1	1	COMPANY HEADQUARTERS		
TOTAL 0002	1	248 6N	1	1	1	2	1	1	1	1	1	1	COMPANY COMMANDER	CAPT	0302
0003	1	1	1	1	1	1	1	1	1	1	1	1	EXECUTIVE OFFICER	LT	0302
0004	1	1	1	1	1	1	1	1	1	1	1	1	FIRST SERGEANT	1STSGT	9999
TOTAL 0053	1	248 6N	1	1	1	11	1	1	914	1	1	1	GUNNERY SERGEANT	GYSGT	0349
0006	1	1	1	1	1	1	1	1	1	1	1	1	SUPPLY SERGEANT	SGT	0311
0007	1	1	1	1	1	1	1	1	1	1	1	1	PERSONNEL CHIEF	SGT	0102
TOTAL 0053	1	248 6N	1	1	1	12	1	1	337	1	1	1	UNIT DIARY CLERK 2	LCPL	0000
0009	1	1	1	1	1	1	1	1	1	1	1	1	PERSONNEL CLERK	PVT	0121
0010	1	1	1	1	1	1	1	1	1	1	1	1	MESSENGER	PVT	0311
TOTAL 0345	1	248 6N	1	1	1	1	1	1	1	1	1	1	WEAPONS PLATOON		
0013	1	1	1	1	1	1	1	1	1	1	1	1	PLATOON HEADQUARTERS		
0014	1	1	1	1	1	1	1	1	1	1	1	1	PLATOON COMMANDER	LT	0302
TOTAL 0015	1	1	1	1	1	1	1	1	1	1	1	1	PLATOON SERGEANT	GYSGT	0369
0016	1	1	1	1	1	1	1	1	1	1	1	1	MESSENGER	PVT	0311
0017	1	1	1	1	1	1	1	1	1	1	1	1	MACHINE GUN SECTION		
0018	1	1	1	1	1	1	1	1	1	1	1	1	SECTION LEADER	SSGT	0369
0019	3	3	3	3	3	3	3	3	3	3	3	3	3-MACHINE GUN SQDS/EACH		
0020	1	1	1	1	1	1	1	1	1	1	1	1	SQUAD LEADER	SGT	0331
0021	6	6	6	6	6	6	6	6	6	6	6	6	6-MACH GUN TEAMS/EACH/		

Figure 6-12

		T/O NO	PEN	PAP	OFFICERS	ENLISTED
PAP	TOTAL	6042	24896N	C	7	157
PAP	TOTAL	6042	24896N	V		5
PEN	TOTAL	6042	24896N		7	162
T/O NO	TOTAL	6042			7	162
PAP	TOTAL	6051	24898N	C	3	103
PEN	TOTAL	6051	24898N		3	103
T/O NO	TOTAL	6051			3	103
PAP	TOTAL	6053	24896N	C	11	314
PAP	TOTAL	6053	24896N	J	1	17
PAP	TOTAL	6053	24896N	V		6
PEN	TOTAL	6053	24896N		12	337
T/O NO	TOTAL	6053			12	337
PAP	TOTAL	6055	24896N	C	7	108
PAP	TOTAL	6055	24896N	V		1
PEN	TOTAL	6055	24896N		7	109
PAP	TOTAL	6055	81112N	J	1	8
PAP	TOTAL	6055	81112N	V		3
PEN	TOTAL	6055	81112N		1	11
T/O NO	TOTAL	6055			8	120
PAP	TOTAL	6056	24896N	C	7	201
PEN	TOTAL	6056	24896N		7	201
T/O NO	TOTAL	6056			7	201

Figure 6-13. PAP Report

PAP	OFFICERS	ENLISTED
OPERATING FORCES		
A	1	6
B		23
C	310	8,000
E	18	1,028
F	13	365
S	90	637
H	47	70
I	120	422
	567	10,551
SUPPORTING FORCES		
S	[illegible]	1,017
M	733	4,963
V	1,646	7,969
W	243	2,633
Y	182	59
Z	504	286
	3,633	17,627
TRAINING BASES		
J	1,354	9,306
K	593	1,559

Figure 6-13. PAP Report (Cont'd)

PEN	OFFICERS	ENLISTED
LAND FORCES		
28010M	5	1
52511M	150	914
52513M	97	648
	252	1,563
TACTICAL AIR FORCES		
24141M	4	122
52512M	138	2,402
	142	2,524
RESEARCH AND DEVELOPMENT		
65801N	5	7
	5	7
MIL ASSIST SERVICE FUNDED		
01006M	108	46

Figure 6-13. PAP Report (Cont'd)

	MCO	AGO	NA	NFO	ME	NO	NE	OD	OE			
UCJM1M11110I0	42		3		997	3	65			1038M	M54000F8	1ST BN 1/1
UCJM1M11120I0	42		3		997	3	65			1038M	M54000F8	2ND BN 1/1
UCJM1M11130I0	42		3		997	3	65			1038M	M54000F8	3RD BN 1/1
UCJM1M12110I0	42		3		997	3	65			1038M	M54000F8	1ST BN 2/2
UCJM1M12120I0	42		3		997	3	65			1038M	M54000F8	2D BN 2/2
UCJM1M12130I0	42		3		997	3	65			1038M	M54000F8	3D BN 2/2
UCJM1M12160I0	42		3		997	3	65			1038M	M54000F8	1ST BN 6/2
UCJM1M12170I0	42		3		997	3	65			1038M	M54000F8	2D BN 6/2
UCJM1M12180I0	42		3		997	3	65			1038M	M54000F8	3D BN 6/2
UCJM1M12210I0	42		3		997	3	65			1038M	M54000F8	1ST BN 8/2
UCJM1M12220I0	42		3		997	3	65			1038M	M54000F8	2D BN 8/2
UCJM1M12230I0	42		3		997	3	65			1038M	M54000F8	3D BN 8/2
UCJM1M13160I0	42		3		997	3	65			1038M	M54000F8	1ST BN 4/3
UCJM1M13170I0	42		3		997	3	65			1038M	M54000F8	2D BN 4/3
UCJM1M13180I0	42		3		997	3	65			1038M	M54000F8	3D BN 4/3
UCJM1M13210I0	42		3		997	3	65			1038M	M54000F8	1ST BN 9/3
UCJM1M13220I0	42		3		997	3	65			1038M	M54000F8	2D BN 9/3
UCJM1M13230I0	42		3		997	3	65			1038M	M54000F8	3D BN 9/3
UCJM1M11160I0	18				537					1038R	M54000F8	1ST BN 5/1
UCJM1M11170I0	18				537					1038R	M54000F8	2ND BN 5/1
UCJM1M11180I0	18				537					1038R	M54000F8	3RD BN 5/1
UCJM1M11210I0	18				537					1038R	M54000F8	1ST BN 7/1
UCJM1M11220I0	18				537					1038R	M54000F8	2D BN 7/1
UCJM1M11230I0	18				537					1038R	M54000F8	3D BN 7/1
UCJM1M13110I0	18				537					1038R	M54000F8	1ST BN 3D MARINES
UCJM1M13120I0	18				537					1038R	M54000F8	2D BN 3D MARINES
UCJM1M13130I0	18				537					1038R	M54000F8	3D BN 3RD MARINES
UCJM1M11104I0	16		1		127	2	3			1096M	M54000F8HQ	CO 1ST MAR 1ST MAR DIV
UCJM1M11154I0	16		1		127	2	3			1096M	M54000F8HQ	CO 5TH MAR 1ST MAR DIV
UCJM1M11204I0	16		1		127	2	3			1096M	M54000F8HQ	CO 7TH MAR 1ST MAR DIV
UCJM1M12101I0	16		1		127	2	3			1096M	M54000F8HQ	CO 2ND MAR 2ND MAR DIV
UCJM1M12151I0	16		1		127	2	3			1096M	M54000F8HQ	CO 6TH MAR 2ND MAR DIV
UCJM1M12201I0	16		1		127	2	3			1096M	M54000F8HQ	CO 8TH MAR 2ND MAR DIV
UCJM1M13101I0	16		1		127	2	3			1096M	M54000F8HQ	CO 3RD MAR 3RD MAR DIV
UCJM1M13151I0	16		1		127	2	3			1096M	M54000F8HQ	CO 4TH MAR 3RD MAR DIV
UCJM1M13201I0	16		1		127	2	3			1096M	M54000F8HQ	CO 9TH MAR 3RD MAR DIV
UCJM1M13310I0	44				501	5	12			1128J	M54000F8	1ST BN 12TH MARINES
UCJM1M11310I0	44				501	5	12			1128M	M54000F8	1ST BN 11/1
UCJM1M11320I0	44				501	5	12			1128M	M54000F8	2D BN 11/1
UCJM1M11330I0	44				501	5	12			1128M	M54000F8	3D BN 11/1
UCJM1M12310I0	44				501	5	12			1128M	M54000F8	1ST BN 10/2
UCJM1M12320I0	44				501	5	12			1128M	M54000F8	2D BN 10/2
UCJM1M12330I0	44				501	5	12			1128M	M54000F8	3D BN 10/2
UCJM1M13320I0	44				501	5	12			1128M	M54000F8	2D BN 12/3
UCJM1M13330I0	44				501	5	12			1128M	M54000F8	3D BN 12/3
UCJM1M11340I0	28				490	2	9			1138M	M54000F8	4TH BN 11TH MAR
UCJM1M12340I0	28				490	2	9			1138M	M54000F8	4TH BN 10/2
UCJM1M13340I0	28				547	2	9			1148M	M54000F8	4TH BN 12/3
UCJM1M13301I0	27	1			156	3	3			1196I	M54000F8HQ	BTRY A/F 12TH MAR 3RD MAR DIV

Figure 6-14

SECTION 7

AD-HOC RETRIEVAL CAPABILITY

7.1 INTRODUCTION

In the T/MR system the term Ad-hoc Retrieval refers to a T/MR informational retrieval that is of a non-recurring nature which may or may not have been previously programmed. The T/MR ad-hoc information retrieval capability has been designed to allow the user to easily and quickly specify and retrieve T/MR information in a variety of formats. Programming effort is minimized through the use of the MARK IV data management system standard reporting function, supplemented by pre-programmed output formats. Additionally, the MARK IV library capability is utilized to allow the user to retain ad-hoc programs in the library for on-call future use without the requirement for reprogramming.

This section describes the T/MR ad-hoc capability, and details the instructions necessary for effective operations.

7.2 GENERAL

T/MR ad-hoc retrievals can be considered in terms of input request type, output format, and retrieval specification. Input requests (retrieval requests) have been considered in three possible request categories. In like fashion ad-hoc output requests are categorized into three types of output formats. The input request types and the output formats are independent, in that any type input request may specify any of the three output formats.

7.2.1 Types of Input Requests

T/MR ad-hoc input requests relate to the types of questions for which T/MR users may desire an ad-hoc retrieval. While any data contained in the T/MR data base can be available for response to an ad-hoc query, all of the ad-hoc requests will be variations of the following types: Unit Specific, Organization Type, or Organizational Independent retrievals.

7.2.1.1 Unit Specific Retrievals. Unit Specific retrievals relate to questions concerning the billet structure attributable to a particular "unit", or may only involve some relationship of "unit" records without regard to authorized billet structure. "Unit" in the T/MR sense is defined as some unique combination of MCC, RUC, PsMCC, UIC, RCN, GEO LOC, MPM, PEN, and UNIT TITLE. The unfamiliar user is referred to Section 3.2 for definitions of these data elements.

7.2.1.2 Organizational Type Retrievals. Organizational Type retrievals relate to questions concerning the structure or billet authorization for a certain type of unit. Note: there may be several or only one of an organizational type in the Marine Corps. For example, questions could relate to T/MR 1013M (Rifle Company) or T/MR 5150 HQ Marine Corps. Again these questions may relate to an entire T/MR or to specific billet lines.

7.2.1.3 Organizational Independent Retrievals. Organizational Independent retrievals involve questions concerning billet line attributes without regard, necessarily, to a specific unit or organization type (T/MR). Examples would be questions concerning additional MOS's, foreign language requirements, billet structure by program element number, etc.

7.2.2 Types of T/MR Ad-Hoc Output

Types of output relate to the output formats which may be specified for any ad-hoc request. For the T/MR ad-hoc retrievals, they are defined as the Grade and MOS Matrix format, Billet Line Detail format, and the Non-Specific format. The grade and MOS Matrix and the Billet Line Detail formats are preprogrammed outputs which may be requested without the necessity for detailed specification in each program.

7.2.2.1 Grade and MOS Matrix Output Format. The Ad-hoc Grade and MOS Matrix output format will be as shown in Figure 6-3, section 6. The Grade and MOS output format may be specified for any type ad-hoc request that relates to billet structure requiring summary aggregations rather than billet detail.

7.2.2.2 Billet Line Detail Output Format. The T/MR ad-hoc billet line detail format will express billet lines in a manner analogous to billet lines shown in the checklist format of Figure 6-2, Section 6. The billet line detail output format may be specified for any ad-hoc retrieval; however, consideration must be given to the fact that the T/MR system has the capability to include base T/MRs on the Master Line file which have been expressed in Grade/MOS summary only. Additionally, all Higher Level T/MR's are carried as Grade/MOS summaries. In these instances, no billet line detail exists.

7.2.2.3 Non-Specific Output Format. The Non-Specific Output format is determined by the conventions of the MARK IV data management system with the aim of providing the requested information in a usable format while minimizing programming effort and computer run time. The non-specific output format can be used with any type input request. It should be used for any retrievals for which the Grade and MOS or Billet Line Detail formats are not required, and information rather than rigid format is paramount.

7.2.3 Retrieval Specification and Procedures

Ad-hoc retrieval specification and procedures are detailed in terms of programming forms completion, to include skeleton, program coding, and program operation of the T/MR ad-hoc computer programs.

7.2.3.1 Ad-Hoc Programming Forms and Coding. The Programming Forms used for ad-hoc retrievals are standard MARK IV forms annotated for the T/MR System applications, and have been partially completed for ease of preparation. The coding used on the forms will be conventional MARK IV coding. The philosophy underlying the partial coding of the forms is to relieve the user from having to program the "house keeping" functions related primarily to the preformated Billet Line Detail and Grade/MOS Recap output formats.

7.2.3.2 Job Preparation of T/MR Ad-Hoc Programs. Ad-hoc retrievals will be run in a batch process mode. After key punching, ad-hoc retrieval programs submission will be set up in accordance with the instructions contained in Appendix B. Following the job preparation the card deck will be delivered to the Headquarters Marine Corps Computer Center where they will be processed in accordance with instructions contained in the T/MR Operations (I/O) Manual.

7.3 AD-HOC REPORT SPECIFICATION

Exercise of the T/MR Ad-hoc retrieval capability can be considered as two related actions. First, the determination of the report parameters associated with the desired retrieval and completion of the T/MR Ad-hoc retrieval forms appropriate to the desired retrieval.

Determination of the report parameters will require consideration related to the desired report output format, the T/MR data elements and the T/MR files in which the data elements reside. This will lead to specification of the type ad-hoc retrieval desired.

Once the type of ad-hoc retrieval is determined, the completion of appropriate T/MR ad-hoc retrieval forms will completely specify the ad-hoc report request. Figure 7-1, entitled Ad-hoc Retrieval Guide, relates the Type Ad-hoc Retrieval to the T/MR Ad-hoc Retrieval forms required to specify that type retrieval. Additionally, the Ad-hoc Retrieval Guide specifies the order in which the designated forms are to be completed.

7.3.1 Ad-Hoc Report Specification Procedures

Certain logical steps are required prior to utilization of the ad-hoc retrieval guide. These include:

- Determination of the record selection parameter(s)
- Determination of the related T/MR data elements
- Determination of the output format
- Determination of the T/MR files involved as a function of data element selection, file location, and output format

The logical steps are discussed separately.

Determination of Record Selection Parameters includes consideration of the question being asked; what information is desired? What information must the user furnish to allow the system to respond?

Determination of Related T/MR Data Elements requires an understanding of the data elements in the T/MR system (see Section 3.2, T/MR Data Element Dictionary). It further assures the user that the data is available for the desired response.

What output format is desired? Consideration should be given to volumn of response. Is summary information, detail information or matrix information desired?

Which T/MR files contain the desired data elements? Again, what is the specified output? The answer to these two questions will lead to the selection of appropriate column heading on the T/MR ad-hoc retrieval guide. These are listed below for reference:

- Billet Line Detail- Master Line File and Unit File
- Billet Line Detail - Master Line File
- Recapitulation by MOS - Master Line File and Unit File
- Recap by MOS - Master Line File
- Non Specific - Master Line File and Unit File
- Non Specific - Master Line File
- Non Specific - Aggregate File and Unit File
- Non Specific - Aggregate File

7.3.2 T/MR Ad-hoc Retrieval Forms Defined

The following basic MARK IV forms are involved in ad-hoc reporting:

- Processing and Record Selection Form - which provides the ability to make logical decisions, arithmetic operations and data manipulation resulting in the selection of a record for reporting.
- Output Content Specification - which specifies the T/MR data elements which are to be reported from the selected record.
- Output Format Specification - which specifies the output medium and formatting constraints of the report.
- Title Form - which specifies the Title to be printed at the top of each page indicating the content of the ad-hoc report and specifies the user to whom the report is to be routed.

- Control Field Definition - which specifies work areas required by the processing and record selection process.

Figure 7-1 (Forms Related to Retrieval Type) lists the forms required to exercise the T/MR ad-hoc retrieval capability. Each form shown as Figures 7-2 through 7-18 is preceded by specific coding instructions and narrative discussion to enhance understanding and ease user involvement in the ad hoc process. The forms themselves have been partially pre-hand coded and require only that the user complete appropriate fields or lines.

T/MR ad-hocs are request oriented. In other words, a request is completed when all of the forms required to produce a specific ad-hoc report have been coded by the user. All of the various forms involved are related by means of the field REQUEST NAME (columns 1-8) on all forms. Under T/MR a request is obtained by initially completing an entry to the T/MR Table ADHOCNAM*. For ad hocs, REQUEST NAME which is 8 characters long has a definable format to facilitate uniqueness between T/MR users. The Request Name format is:

- Organization Code - left justified impositions 1-5. An example would be AO1M2.
- Report Type - in position 6 specifies a Billet Line Detail (B); Recapitulation by MOS (R); or Non Specific ad hoc (N).
- Sequence Number - provides the distinction of ad-hocs within a Report Type and User Organization.

The Request Name must be entered on all of the ad hoc coding forms related to the same request. Additionally the Request Name value is also used as the label of a Request Constant to provide uniqueness between work areas in different requests.

---

* Upon completion of entries to Table ADHOCNAM, the AO1E MARK IV Ad-hoc Report Coordinator will receive a listing of all ad-hoc reports which have been requested.

Forms Related to Retrieval Type	TYPE AD HOC RETRIEVAL								
MARK IV FORMS	Billet Line Detail Master Line Vs. Unit	Billet Line Detail Master Line	Recap by MOS Master Line Vs. Unit	Recap by MOS Master Line	Non Specific Master Line Vs. Unit or Unit Alone	Non Specific Master Line	Non Specific Aggregate Vs. Unit	Non Specific Aggregate	Figure
o ADHOCNAM Table Entry	1	1	1	1					7-2
o Ad Hoc Billet Line Detail/Recap by MOS Control Field Definition	2	2	2	2					7-3
o T/MR Master Line vs. T/MR Unit Billet Line Detail Processing and Record Selection	3								7-4
o T/MR Master Line File Ad Hoc Billet Line Detail Processing and Record Selection		x							7-5
o Ad hoc Billet Line Detail Output Format Specification	4	x	3	3					7-6
o Ad hoc Billet Line Detail Output Content Specification	5	x							7-7
o Recap by MOS Ad hoc Processing and Record Selection T/MR Master Line vs. T/MR Unit			4						7-8
o Recap by MOS Ad hoc Processing and Record Selection T/MR Master Line				4					7-9
o Recap by MOS Ad hoc Output Content Specification			5	5					7-10
o Non Specific Ad hoc Processing and Record Selection T/MR Master Line vs. T/MR Unit					1				7-11
o Non Specific Ad hoc Processing and Record Selection From T/MR Master Line						1			7-12
o Non Specific Ad hoc Processing and Record Selection From T/MR Aggregate Vs. T/MR Unit							1		7-13
o Non Specific Ad hoc Processing and Record Selection T/MR Aggregate								1	7-14
o Non Specific Ad hoc Output Format Specification					2	2	2	2	7-15
o Non Specific Ad hoc Output Content Specification					3	3			7-16
o Non Specific Ad hoc Output Content Specification (Grade MOS Recap) T/MR Aggregate							3	3	7-17
o Non Specific Ad hoc Report Title Form					4	4	4	4	7-18

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TABLE DEFINITION

ADHOCNAM TABLE ENTRY

PAGE ____ OF ____

ADHOCNAM TABLE NAME (1–8) FORM CODE: T,B (9–10)

TABLE TYPE (11)	DELETE? (12)	PRINT TABLE (13)	ARGUMENT LENGTH (14–16)	ARGUMENT DATA TYPE (17)	ARGUMENT DECIMAL PLACES (18)	RESULT LENGTH (19–21)	RESULT DATA TYPE (22)	RESULT DECIMAL PLACES (23)	DECK I. D. (73–80)
			8	C		180			

TABLE NAME (1–8)	FORM CODE (9–10)	CONTINUATION (11)	DELETE? (12)	USER ORGAN CODE (13–18)	TYPE (19)	SEQ (20)	ARGUMENT VALUE (23–42)	RESULT VALUE (43–77)
	T E	2						REPORT TITLE SECTION
	T E	5						CONTROL 1 CONTROL 2 CONTROL 3
								CONTROL 4 CONTROL 5 CONTROL 6
ADHOCNAM	T E	6						CONTROL 7
	T E							
	T E							
	T E							
	T E							
	T E							
	T E							
	T E							
	T E							
	T E							
	T E							
	T E							
	T E							
	T E							

Figure 7-2

ADHOCNAM TABLE DEFINITION

CODING INSTRUCTIONS FOR FIGURE 7-2

Field Name	Card Columns	Remarks
AD HOCNAMTE 1	1-11	Constants
AD HOCNAMTE 2		
AD HOCNAMTE 3		
User Organization Code	13-17*	User Organization Left Justified; e.g. AO1M2
Type Report	18*	"B" Billet Line Detail "R" Recapitulation by MOS
Sequence No.	19-20*	Sequential No. from 01-99 which uniquely identifies the request within an organization
Result Value	43-72	Up to 90 characters (50 characters per card) of information identifying the request. This is printed as a page title on the ad hoc report.

* Required on ADHOCNAM TE1 Card only.

AD HOCNAMTE 4	1-11	Constants
AD HOCNAMTE 5		
AD HOCNAMTE 6		
Control Field Names	43-50	Control 1, Control 4, Control 7
	51-58	Control 2, Control 5,
	59-66	Control 3, Control 6 Up to 7 control fields names may be specified as labels which will print on Control Breaks. Name should be left justified in each field. Control 1 Most Major Control 7 Most Minor

COMMENTS

This form provides the means for specifying the report title (up to 90 characters) to be printed on the top of each page of a Billet Line or Recap Detail output. Additionally, the last three cards allow the user to specify the labels to be printed for up to seven control break totals. All six cards must be prepared for each ad hoc report even though some portion of the report title text and/or any or all of the control fields are blank. The User Organization Code Type Report and Sequence Number need only be coded on the ADHOCNAM TE1 card. All cards must be submitted in the sequence shown on the coding form.

ADHOC BILLET LINE DETAIL/RECAP BY MOS CONTROL FIELD DEFINITION

CODING INSTRUCTIONS FOR FIGURE 7-3

Field Name	Card Columns	Remarks
Request Name User Organization	1-5	Enter User Organization Code. Left Justified; e.g. AO1M2
Type Report	6	"B"= Billet Line Detail "R"=Recapitulation by MOS
Sequence No.	7-8	Sequential number 01-99 which uniquely identifies the request within an organization
Field Name	11-18	Enter same information as in Cols. 1-8.

COMMENT

This form establishes a 57 character control field and several other temporary fields used in the T/MR Ad hoc logic. The 57 characters of the first card are distributed as follows:

1-6	Control 1
7-6	Control 2
13-6	Control 3
19-6	Control 4
25-6	Control 5
31-6	Control 6
37-6	Control 7
42-3	Sec Mult
45-3	Subsec Mult
48-3	Space
51-1	No of Control Fields
52-5	Line No Save
57-1	Select SW
42-1	Designator
44-5	MOS
49-2	Grade
50-1	No Controls
52-5	Line No Save

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AD HOC BILLET LINE DETAIL/RECAP
BY MOS
CONTROL FIELD DEFINITION

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PAGE____ OF____

DECK I.D. (73–80)

REQUEST NAME (1–8)	FORM CODE (9,10)	FIELD NAME (11–18)	FIELD LENGTH (19–21)	FIELD TYPE (22)	DECIMAL PLACES (23)	OUTPUT EDIT: FLOATING (24)	OUTPUT EDIT: FILLING (25,26)	OUTPUT EDIT: TRAILING (27,28)	OUTPUT EDIT: LENGTH (29)	INITIAL VALUE (29–44)	LINE 1 COLUMN HEADING TEXT (45–58)	LINE 2 COLUMN HEADING TEXT (59–72)
	T F		57	C								
	T F	PRODUCT	3	D								
	T F	REQ-ID	8	C								
	T F	REPORTS	1	C								
	T F	SPACE2	2	C								
	T F	REPORT6	1	C								
	T F											
	T F											
	T F											
	T F											
	T F											
	T F											
	T F											
	T F											
	T F											
	T F											
	T F											

Figure 7-3

BILLET LINE DETAIL AD HOC PROCESSING AND RECORD SELECTION T/MR MASTER LINE VS. T/MR UNIT

CODING INSTRUCTIONS FOR FIGURE 7-4

Form Code (Pos. 9-10)	Seq No (Pos 11-13)	Field	Card Column	Remarks
ER	-	Request Name	1-8	Enter Request Name - User Org. Code cc 1-5 e.g. AO1M2 - Report Type cc. 6 "B"=Billet Line Detail - Seq. No. cc. 7-8 (sequence of request w/i organization
		Requestor Name	17-44	Self Explanatory
PR	(All cards)	Request Name	1-8	Same as Request Name on ER form above
PR	003	Request Constant	28-35	Same as Request Name on ER form above
PR	015	Request Constant	60-67	Same as Request Name on ER form above
PR	016	Request Constant	60-67	Same as Request Name on ER Form above
PR	021	Request Constant	60-67	Same as Request Name on ER form above
PR	026	Request Constant	17-24	Same as Request Name on ER form above
PR	029	Request Constant	28-35	Same as Request Name on ER form above
PR	040			The user may begin coding a retrieval at this point. To select a record, the user must branch to seq. no. 900.

CODING INSTRUCTIONS FOR FIGURE 7-4 (Cont'd)

Form Code Pos. 9-10)	Seq No (Pos 11-13)	Field	Card Column	Remarks
PR	900	Request Constant	60-67	Same as Request Name on ER form above.
PR	910	Request Constant	60-67	Same as Request Name on ER form above.
PR	920*	Qualifier	27	Enter "0" if element from Unit File; Enter "1" if element from Master Line File.
		Control Field 1	28-35	Enter Data Name of element selected to be the most major control field.
		Request Constant	60-67	Same as Request Name on ER form above.
PR	921-926*			These cards are for lower level controls. Refer to coding instructions for PR 920.
PR	927	No. of Control Fields	28	Enter a value "0" thru "7" for the number of control fields coded on 920 thru 926 on which control breaks are required.
			60-67	Same as Request Name on ER form above.

* Code only if control break exists otherwise omit card

COMMENT

The precoded entries on this form perform the house keeping functions needed to coordinate the Unit File with the Master Line File. The logic assures that a unit record and From-To Lines (if appropriate) are present. It then determines if section and subsection headers are present and saves the multiples. The user determined selection criteria coding commences at the PR040 card. Following the user selection coding, the program branches to PR900 which specifies the major to minor sort fields

MARK IV FILE MANAGEMENT SYSTEM®

BILLET LINE DETAIL AD HOC

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PROCESSING AND RECORD SELECTION

T/MR MASTER LINE VS. T/MR UNIT

REQUEST NAME (1–8) | FORM CODE: ER (9 10) | REPORT DATE (11–16) | DECK I D (73–80)

REQUESTOR NAME (17–44) | TELEPHONE/EXT. | DIVISION/DEPT. | MAXIMUM ITEMS SELECTED (45–48) | SELECTION CONTROL (49) | REPORT FORMAT: SUMMARY REPORT ONLY? (50) | VERTICAL SPACING (51) | FORMS CONTROL (52) | WIDTH OF PAGE (53) | HEIGHT OF PAGE (54) | LINE NUMBERS? (55) | SPECIAL REQUEST PROCESSING (56)

REQUEST NAME (1–8)	FORM CODE (9,10)	SEQUENCE NO (11–13)	LOGIC LEVEL (14)	CONNECTOR (15)	OPERAND A QUALIFIER (16)	OPERAND A FIELD NAME A (17–24)	OPERATION (25,26)	OPERAND B QUALIFIER (27)	OPERAND B FIELD NAME B, CONSTANT OR BRANCH FIELD (28–58)	RESULT QUALIFIER (59)	RESULT FIELD NAME C (60–67)	PARTIAL FIELD STARTING CHAR. (68,69)	PARTIAL FIELD NUMBER OF CHAR. (70,71)	PARTIAL FIELD OPERAND A,B,or C (72)
	PR	001			F	RECORD	EQC		M			1	1	A
	PR	002					NS		END					
	PR	003					RC			T	REQ-ID			
	PR	004					RC		5	T	REPORTS			
	PR	005				SEG1ØCNT	GTD		Ø					
	PR	006					NS		END					
	PR	007				SEG2ØCNT	GTD		Ø					
	PR	008					NS		Ø12					
	PR	009			1	LINE-NO	GE		LINE-FR					
	PR	010		A	1	LINE-NO	LE		LINE-TO					
	PR	011					NS		END					
	PR	012			1	REC CODE	EQC		C					
	PR	013		A	1	MM1ØØ-X	NEC		XXX					
	PR	014					NS		Ø18					
	PR	015					R	D	ØØ1	T		45	3	C
	PR	016					R	1	MM1ØØ	T		42	3	C
	PR	017					GO		END					
	PR	018			1	REC CODE	EQC		D					

Figure 7-4

MARK iV FILE MANAGEMENT SYSTEM®

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BILLET LINE DETAIL AD HOC
PROCESSING AND RECORD SELECTION
T/MR MASTER LINE VS. T/MR UNIT

REQUEST NAME (1–8) | FORM CODE (9,10) | REPORT DATE (11–16) | DECK I.D. (73–80)

REQUESTOR NAME (17) | TELEPHONE/EXT. | DIVISION/DEPT. (44) | MAXIMUM ITEMS SELECTED (45–48) | SELECTION CONTROL (49) | REPORT FORMAT: SUMMARY REPORT ONLY? (50) | VERTICAL SPACING (51) | FORMS CONTROL (52) | WIDTH OF PAGE (53) | HEIGHT OF PAGE (54) | LINE NUMBERS? (55) | SPECIAL REQUEST PROCESSING (56)

REQUEST NAME (1–8)	FORM CODE (9,10)	SEQUENCE NO. (11–13)	LOGIC LEVEL (14)	CONNECTOR (15)	OPERAND A QUALIFIER (16)	OPERAND A FIELD NAME A (17–24)	OPERATION (25,26)	OPERAND B QUALIFIER (27)	OPERAND B FIELD NAME B, CONSTANT OR BRANCH FIELD (28–58)	RESULT QUALIFIER (59)	RESULT FIELD NAME C (60–67)	PARTIAL FIELD STARTING CHAR. (68,69)	PARTIAL FIELD NUMBER OF CHAR. (70,71)	PARTIAL FIELD OPERAND A,B,or C (72)
	PR	019		R		LINN100-X	MEC		XXX					
	PR	020					NS		023					
	PR	021					R		LINN100	T		45	3	
	PR	022					GO		END					
	PR	023			1	REC. CODE	EQC		E					
	PR	024		A	L	NN.100-X	EQC		XXX					
	PR	025					NS		028					
	PR	026			T		EQC		X			57	1	A
	PR	027					GO		OUTPUT					
	PR	028			1	REC. CODE	EQC		G					
	PR	029		A	L	LINE-NO	EQT					52	5	B
	PR	030					NS		032					
	PR	031					GO		OUTPUT					
	PR	033			1	REC. CODE	EQC		E					
	PR	033					NS		END					
	PR	040							START USER CODING					
	PR													
	PR													

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Figure 7-4 Cont'd

MARK IV FILE MANAGEMENT SYSTEM®

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BILLET LINE DETAIL AD HOC
PROCESSING AND RECORD SELECTION
T/MR MASTER LINE VS. T/MR UNIT

REQUEST NAME (1–8) | FORM CODE (9–10) = ER | REPORT DATE (11–16) | DECK I.D (73–80)

REQUESTOR NAME (17–44) | TELEPHONE/EXT. | DIVISION/DEPT | MAXIMUM ITEMS SELECTED (45–48) | SELECTION CONTROL (49) | REPORT FORMAT: SUMMARY REPORT ONLY? (50) | VERTICAL SPACING (51) | FORMS CONTROL (52) | WIDTH OF PAGE (53) | HEIGHT OF PAGE (54) | LINE NUMBERS? (55) | SPECIAL REQUEST PROCESSING (56)

REQUEST NAME (1–8)	FORM CODE (9,10)	SEQUENCE NO. (11–13)	LOGIC LEVEL (14)	CONNECTOR (15)	OPERAND A QUALIFIER (16)	OPERAND A FIELD NAME A (17–24)	OPERATION (25,26)	OPERAND B QUALIFIER (27)	OPERAND B FIELD NAME B, CONSTANT OR BRANCH FIELD (28–58)	RESULT QUALIFIER (59)	RESULT FIELD NAME C (60–67)	PARTIAL FIELD STARTING CHAR. (68,69)	PARTIAL FIELD NUMBER OF CHAR. (70,71)	OPERAND A,B,or C (72)
	PR	050												
	PR	900					R	C	X	T		57	1	C
	PR	910					R	L	LINE-NO	T		52	5	C
	PR	920								T		1	6	C
	PR	921								T		7	6	C
	PR	922								T		13	6	C
	PR	923								T		19	6	C
	PR	924								T		25	6	C
	PR	925								T		31	6	C
	PR	926								T		37	6	C
	PR	927					R	D	1	T		51	1	C
	PR	930					GO		OUTPUT					
	PR													
	PR													
	PR													
	PR													
	PR													
	PR													

Figure 7-4 Cont'd

BILLET LINE DETAIL AD HOC PROCESSING AND RECORD SELECTION T/MR MASTER LINE FILE

CODING INSTRUCTIONS FOR FIGURE 7-5

Form Code (Pos 9-10)	Seq. No. (Pos. 11-13)	Field	Card Columns	Remarks
ER	-	Request Name	1-8	Enter Request Name - User Organization Code (e.g. 1-5, e.g. AO1M2. - Report Type (e.g. B Billet Line Detail - Sequence No. (e.g. 7-8 (sequence of request within organization)
		Requestor Name	17-44	Self-Explanatory
PR	All cards	Request Name	1-8	Same as Request Name on ER form.
PR	003	Request Constant	28-35	Same as Request Name on ER form.
PR	005	Request Constant	60-67	Same as Request Name on ER form.
PR	009	Request Constant	60-67	Same as Request Name on ER form.
PR	014	Request Constant	60-67	Same as Request Name on ER form.
PR	022	Request Constant	28-35	Same as Request Name on ER form.
PR	030			The user may begin coding a retrieval at this point. To select a record, the user must branch to Sequence No. 400.

PR 000
.
.
. Refer to Coding Instructions for Figure 7-4
.
PR 450

COMMENT

The coding on this form is directly analogous to that shown on figure 7-4 Since this is used for retrievals against the Master Line File only, however, many of the "house keeping" instructions involving the Unit File were not required.

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BILLET LINE DETAIL AD HOC
PROCESSING AND RECORD SELECTION
T/MR MASTER LINE FILE

REQUEST NAME (1–8) | FORM CODE: ER (9 10) | REPORT DATE (11–16) | DECK I.D. (73–80)

REQUESTOR NAME (17–44) | TELEPHONE/EXT. | DIVISION/DEPT. | MAXIMUM ITEMS SELECTED (45–48) | SELECTION CONTROL (49) | REPORT FORMAT: SUMMARY REPORT ONLY? (50) | VERTICAL SPACING (51) | FORMS CONTROL (52) | WIDTH OF PAGE (53) | HEIGHT OF PAGE (54) | LINE NUMBERS? (55) | SPECIAL REQUEST PROCESSING (56)

REQUEST NAME (1–8)	FORM CODE (9,10)	SEQUENCE NO. (11–13)	LOGIC LEVEL (14)	CONNECTOR (15)	OPERAND A QUALIFIER (16)	OPERAND A FIELD NAME A (17–24)	OPERATION (25,26)	OPERAND B QUALIFIER (27)	OPERAND B FIELD NAME B, CONSTANT OR BRANCH FIELD (28–58)	RESULT QUALIFIER (59)	RESULT FIELD NAME C (60–67)	PARTIAL FIELD STARTING CHAR. (68,69)	PARTIAL FIELD NUMBER OF CHAR. (70,71)	PARTIAL FIELD OPERAND A,B,or C (73)
	PR	ØØ1			F	E.C.O.R.D.	EQ	C	M.			1	1	A
	PR	ØØ2					NS		END					
	PR	ØØ3					R	C		T	REQ-ID			
	PR	ØØ4					R	C	5	T	REPORTS			
	PR	ØØ5			1	REC. CODE	EQ	C	C					
	PR	ØØ6		A	1	MM1ØØ-X	NE	C	XXX					
	PR	ØØ7					NS		Ø11					
	PR	ØØ8					R	D	ØØ1	T		45	3	C
	PR	ØØ9					R	1	MM1ØØ	T		42	3	C
	PR	Ø1Ø					GO		END					
	PR	Ø11			1	REC. CODE	EQ	C	D					
	PR	Ø12		A	1	MM1ØØ-X	NE	C	XXX					
	PR	Ø13					NS		Ø16					
	PR	Ø14					R	1	MM1ØØ	T		45	3	C
	PR	Ø15					GO		END					
	PR	Ø16			1	REC. CODE	EQ	C	E					
	PR	Ø17		A	1	MM1ØØ-X	EQ	C	XXX					
	PR	Ø18					NS		Ø11					

Figure 7-5

MARK iV FILE MANAGEMENT SYSTEM®

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BILLET LINE DETAIL AD HOC

PROCESSING AND RECORD SELECTION

T/MR MASTER LINE FILE

REQUEST NAME (1–8) | FORM CODE (9 10) E R | REPORT DATE (11–16) | DECK I.D. (73–80)

REQUESTOR NAME (17–44) | TELEPHONE/EXT. | DIVISION/DEPT. | MAXIMUM ITEMS SELECTED (45–48) | SELECTION CONTROL (49) | REPORT FORMAT: SUMMARY REPORT ONLY? (50) | VERTICAL SPACING (51) | FORMS CONTROL (52) | WIDTH OF PAGE (53) | HEIGHT OF PAGE (54) | LINE NUMBERS? (55) | SPECIAL REQUEST PROCESSING (56)

REQUEST NAME (1–8)	FORM CODE (9 10)	SEQUENCE NO. (11–13)	LOGIC LEVEL (14)	CONNECTOR (15)	OPERAND A QUALIFIER (16)	OPERAND A FIELD NAME A (17–24)	OPERATION (25 26)	OPERAND B QUALIFIER (27)	OPERAND B FIELD NAME B, CONSTANT OR BRANCH FIELD (28–58)	RESULT QUALIFIER (59)	RESULT FIELD NAME C (60–67)	PARTIAL FIELD STARTING CHAR. (68 69)	PARTIAL FIELD NUMBER OF CHAR. (70 71)	PARTIAL FIELD OPERAND A,B or C (72)
	P R	010			T		EJECT					57	10	
	P R	020					GO		OUTPUT					
	P R	021				REC. CODE	EQ		C					
	P R	022		0	1	LINE-NO.	EQ	T				52	50	
	P R	023					NS		025					
	P R	024					GO		OUTPUT					
	P R	025			1	REC. CODE	EQ		C					
	P R	026					NS		END					
	P R	030							START USER CODING					
	P R	900					R	C	X	T		57	10	
	P R	910						1	LINE-NO.	T		52	10	
	P R	920					R			T		1	60	
	P R	921					R			T		7	60	
	P R	922					R			T		19	60	
	P R	923					R			T		19	60	
	P R	924					R			T		25	60	
	P R													
	P R													

Figure 7-5 Cont'd

FILE MANAGEMENT SYSTEM

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BILLET LINE DETAIL AD HOC
PROCESSING AND RECORD SELECTION
T/MR MASTER LINE FILE

PAGE 3 OF 3

REQUEST NAME (1–8) | FORM CODE (9 10) = ER | REPORT DATE (11–16) | DECK ID (73–80)

REQUESTOR NAME (17–24) | TELEPHONE/EXT. (25–36) | DIVISION/DEPT. (37–44) | MAXIMUM ITEMS SELECTED (45 48) | SELECTION CONTROL (49) | REPORT FORMAT: SUMMARY REPORT ONLY? (50) | VERTICAL SPACING (51) | FORMS CONTROL (52) | WIDTH OF PAGE (53) | HEIGHT OF PAGE (54) | LINE NUMBERS? (55) | SPECIAL REQUEST PROCESSING (56)

REQUEST NAME (1–8)	FORM CODE (9,10)	SEQUENCE NO (11–13)	LOGIC LEVEL (14)	CONNECTOR (15)	OPERAND A QUALIFIER (16)	OPERAND A FIELD NAME A (17–24)	OPERATION (25 26)	OPERAND B QUALIFIER (27)	OPERAND B FIELD NAME B, CONSTANT OR BRANCH FIELD (28–58)	RESULT QUALIFIER (59)	RESULT FIELD NAME C (60–67)	PARTIAL FIELD STARTING CHAR (68,69)	PARTIAL FIELD NUMBER OF CHAR. (70,71)	PARTIAL FIELD OPERAND A,B,or C (72)
	PR	925					R			T		31	6	C
	PR	926					R			T		37	6	C
	PR	927					RD			T		52	1	C
	PR	930					GO		OUTPUT					
	PR													
	PR													
	PR													
	PR													
	PR													
	PR													
	PR													
	PR													
	PR													
	PR													
	PR													
	PR													
	PR													
	PR													
	PR													

Figure 7-5 Cont'd

BILLET LINE DETAIL ADHOC OUTPUT FORMAT SPECIFICATION

CODING INSTRUCTIONS FOR FIGURE 7-6

Form Code (Pos. 9-10)	Seq. No.	Field	Card Columns	Remarks
E1		Request Name	1-8	Enter Request Name - User Organization Code cc. 1-5 e.g. AO1M2 - Report Type cc. 6 - Seq. No. cc. 7-8 (sequence of request within organization.)

IV FILE MANAGEMENT SYSTEM

BILLET LINE DE[illegible] AD HOC

OUTPUT FORMAT SPECIFICATION

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PAGE_____ OF _____

DECK I D (73–80)

REQUEST NAME (1–8) [E I] (9–10)

		CODES BLANK - OR
11	SUMMARY REPORT ONLY?	Y, N
12	VERTICAL SPACING	1 - 9
13	PRINT 8 LINES PER INCH?	Y, N
14–16	WIDTH OF PAGE	A - E, 1 - 132
17–19	HEIGHT OF PAGE	A - E, 1 - 132
20	NUMBER OF REPEATED IMAGES	1 - 9
21	SPECIAL FORMS?	Y, N
22 23	MAXIMUM NUMBER OF LINES PER PAGE	1 - 99
24–27	MAXIMUM NUMBER OF PAGES	1 - 9999
28	PAGE TITLE AT BOTTOM OF PAGE?	Y, N
29	COLUMN HEADING TYPE	F, X
30	COLUMN HEADING POSITION	T, B

		CODES BLANK - OR
31 32	DATE POSITION	UL; UR, LL, LR, MT, MB, ND
33 34	PAGE NUMBER POSITION	UL, UR; LL, LR; MT, MB; NP
35–38	START PAGE NUMBERS AT	1 - 9999, OR PAGE
39	LINE NUMBERS	Y, N; L; R, B
40	LABELS ON SUMMARY LINES	L, X
41 42	REPORT HANDLING [N R]	NR, RF
43	ENTIPE RECORD SELECTION	N, O
44–51	SUBFILE NAME [A.D. H O C.]	8 CHARACTERS
52–55	SUBFILE BLOCKING FACTOR [2 0]	1 - 9999
56	SUBFILE FORMAT [F]	V, F OR U

Figure 7-6

ADHOC BILLET LINE DETAIL
OUTPUT CONTENT SPECIFICATION

CODING INSTRUCTIONS FOR FIGURE 7-7

Form Code (Pos. 9-10)	Seq. No. (pos. 11-13)	Field	Card Column	Remarks
R1	All cards	Request Name	1-8	Enter Request Name
R1	040	Request Constant	17-24	Enter Request Name
R1	060	Request Constant	17-24	Enter Request Name

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AD HOC BILLET LINE DETAIL

OUTPUT CONTENT SPECIFICATION

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PAGE ____ OF ____

DECK I.D. (73–80)

REQUEST NAME (1–8)	FORM CODE (9,10)	SEQUENCE NO. (11–13)	NO. OF SPACES BEFORE COLUMN (14,15)	QUALIFIER (16)	FIELD NAME (17–24)	END LINE? (25)	NON-PRINT (26)	SORT: SEQUENCE (27)	SORT: DESCENDING? (28)	BREAK: CONTROL (29)	BREAK: SUBTITLE (30)	SUMMARIES: TOTAL (31)	SUMMARIES: CUMULATIVE (32)	SUMMARIES: COUNT (33)	SUMMARIES: MAXIMUM (34)	SUMMARIES: MINIMUM (35)	SUMMARIES: AVERAGE (36)	QUALIFIER (42)	% / RATIO FIELD (43–50)	RATIO (51)	% (52)	OUTPUT EDIT (53–67)	PARTIAL FIELD: STARTING CHAR (68,69)	PARTIAL FIELD: NUMBER OF CHAR (70,71)
	R	1	0	1	0																			
	R	1	0	2	0																			
	R	1	0	3	0																			
	R	1	0	4	0																		1	8
	R	1	0	5	0																			
	R	1	0	6	0																		5	1
	R																							
	R																							
	R																							
	R																							
	R																							
	R																							
	R																							
	R																							
	R																							
	R																							
	R																							
	R																							
	R																							
	R																							

Figure 7-7

RECAP BY MOS AD HOC PROCESSING AND RECORD SELECTION T/MR MASTER LINE FILE VS. T/MR UNIT FILES

CODING INSTRUCTIONS FOR FIGURE 7-8

Form Code (Pos. 9-10)	Seq. No. (Pos. 11-13)	Field	Card Column	Remarks
ER	-	Request Name	1-8	Enter Request Name - User Org. Code cc. 1-5, e.g. AO1M2 - Report Type cc. 6 "R"=Recap by MOS - Seq. No. cc. 7-8 (sequence of the Request w/i organization.)
PR	All cards			
		Requestor Name	17-44	Self-Explanatory
PR	003	Request Constant	28-35	Same as Request Name
PR	015	Request Constant	60-67	Same as Request Name
PR	016	Request Constant	60-67	Same as Request Name
PR	021	Request Constant	60-67	Same as Request Name
PR	019	Request Constant	1-8	Same as Request Name
PR	900	Request Constant	17-24	Same as Request Name
PR	910	Request Constant	17-24	Same as Request Name
PR	930	Request Constant	17-24	Same as Request Name
		Qualifier	27	Enter 0 if element from Unit file; Enter 1 if element from Master Line file.
PR	940	Control Field 1	28-35	Enter data name from Glossary Most Major Control field.
		Request Constant	60-67	Same as Request Name
(PR)	(941-945)*			

CODING INSTRUCTIONS FOR FIGURE 7-8 (Cont'd)

Form Code (Pos. 9-10)	Seq. No. (Pos. 11-13)	Field	Card Column	Remarks
PR	946 *	Qualifier	27	Enter "ϕ" if element from Unit File; Enter "1" if element from Master Line File.
		Control Field 7	28-35	Enter data name from Glossary of the most minor control field.
		Request Constant	60-67	Same as Request Name.
PR	947	Number of Control Fields	28	Enter number (0-7) of control fields coded on sequence nos. 940-946.
		Request Constant	60-67	Same as Request Name

* Code only if control break exists, otherwise omit card.

COMMENT

This form performs a similar function to that shown as figure 7-4. The user selection criteria coding commences at PR030 line and branches to PR900. Note that for Grade/MOS Recaps, MOS is not specified as a control break.

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RECAP BY MOS AD HOC

PROCESSING AND RECORD SELECTION

T/MR MASTER LINE VS. T/MR UNIT FILE

REQUEST NAME (1–8) | FORM CODE: ER (9 10) | REPORT DATE (11–16) | DECK I.D (73–80)

REQUESTOR NAME (17) | TELEPHONE/EXT. | DIVISION/DEPT. (44) | MAXIMUM ITEMS SELECTED (45 48) | SELECTION CONTROL (49) | REPORT FORMAT: SUMMARY REPORT ONLY? (50) | VERTICAL SPACING (51) | FORMS CONTROL (52) | WIDTH OF PAGE (53) | HEIGHT OF PAGE (54) | LINE NUMBERS? (55) | SPECIAL REQUEST PROCESSING (56)

REQUEST NAME (1–8)	FORM CODE (9,10)	SEQUENCE NO. (11–13)	LOGIC LEVEL (14)	CONNECTOR (15)	OPERAND A: QUALIFIER (16)	OPERAND A: FIELD NAME A (17–24)	OPERATION (25,26)	OPERAND B: QUALIFIER (27)	OPERAND B: FIELD NAME B, CONSTANT OR BRANCH FIELD (28–58)	RESULT: QUALIFIER (59)	RESULT: FIELD NAME C (60–67)	PARTIAL FIELD: STARTING CHAR. (68,69)	PARTIAL FIELD: NUMBER OF CHAR. (70,71)	PARTIAL FIELD: OPERAND A,B,or C (72)
	PR	001			F	RECORD	EQ	C	M			2	2	A
	PR	002					NS		END					
	PR	003					R	C		T	REQ-ID			
	PR	004					R	C	6	T	REPORTS			
	PR	005				SEG1CNT	GT	D	0					
	PR	006					NS		END					
	PR	007				SEG2CNT	GT	D	0					
	PR	008					NS		012					
	PR	009			1	LINE-NO	GE		LINE-FR					
	PR	010		A	1	LINE-NO.	LE		LINE-TO					
	PR	011					NS		END					
	PR	012			1	REC CODE	EQ	C	C					
	PR	013		A	1	MM100-X	NE	C	XXX					
	PR	014					NS		018					
	PR	015					R	D	001	T		45	3	C
	PR	016					R	1	MM100	T		42	3	C
	PR	017					GO		END					
	PR	018			1	REC CODE	EQ	C	D					

Figure 7-8

FILE MANAGEMENT SYSTEM®

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RECAP BY MOS AD HOC

PROCESSING AND RECORD SELECTION

T/MR MASTER LINE VS. T/MR UNIT FILE

REQUEST NAME (1–8) | FORM CODE (9 10) E R | REPORT DATE (11–16) | DECK ID (73–80)

REQUESTOR NAME (17) | TELEPHONE/EXT. | DIVISION/DEPT. (44) | MAXIMUM ITEMS SELECTED (45 48) | SELECTION CONTROL (49) | REPORT FORMAT: SUMMARY REPORT ONLY? (50) | VERTICAL SPACING (51) | FORMS CONTROL (52) | WIDTH OF PAGE (53) | HEIGHT OF PAGE (54) | LINE NUMBERS? (55) | SPECIAL REQUEST PROCESSING (56)

REQUEST NAME (1–8)	FORM CODE (9,10)	SEQUENCE NO. (11–13)	LOGIC LEVEL (14)	CONNECTOR (15)	OPERAND A QUALIFIER (16)	OPERAND A FIELD NAME A (17–24)	OPERATION (25,26)	OPERAND B QUALIFIER (27)	OPERAND B FIELD NAME B, CONSTANT OR BRANCH FIELD (28–58)	RESULT QUALIFIER (59)	RESULT FIELD NAME C (60–67)	PARTIAL FIELD STARTING CHAR. (68,69)	PARTIAL FIELD NUMBER OF CHAR. (70,71)	PARTIAL FIELD OPERAND A,B,or C (72)
	PR	019		A	I	MM100-X	NEC		XXX					
	PR	020					NS		023					
	PR	021					R	L	MM100	T		45	3	C
	PR	022					GO		END					
	PR	023			L	REC CODE	EQC		E					
	PR	024		A	L	MM100-X	NEC		XXX					
	PR	025					NS		END					
	PR	030							START USER CODING					
	PR	960			T		*	L	MM100	T	PRODUCT	42	3	A
	PR	710			T		GTC					45	3	A
	PR	920					NS		940					
	PR	930			T		*	T	PRODUCT	T	PRODUCT	45	3	A
	PR	940					R			T		1	6	C
	PR	941					R			T		7	6	C
	PR	942					R			T		13	6	C
	PR	943					R			T		19	6	C
	PR	944					R			T		25	6	C
	PR	945					R			T		31	6	C

Figure 7-8 Cont'd

MARK IV FILE MANAGEMENT SYSTEM

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RECAP BY MOS AD HOC

PROCESSING AND RECORD SELECTION

T/MR MASTER LINE VS. T/MR UNIT FILE

REQUEST NAME (1–8) | FORM CODE (9,10) | REPORT DATE (11–16) | DECK I.D. (73–80)

REQUESTOR NAME (17–44) | TELEPHONE/EXT. | DIVISION/DEPT. | MAXIMUM ITEMS SELECTED (45–48) | SELECTION CONTROL (49) | REPORT FORMAT: SUMMARY REPORT ONLY? (50) | VERTICAL SPACING (51) | FORMS CONTROL (52) | WIDTH OF PAGE (53) | HEIGHT OF PAGE (54) | LINE NUMBERS? (55) | SPECIAL REQUEST PROCESSING (56)

REQUEST NAME (1–8)	FORM CODE (9,10)	SEQUENCE NO. (11–13)	LOGIC LEVEL (14)	CONNECTOR (15)	OPERAND A QUALIFIER (16)	OPERAND A FIELD NAME A (17–24)	OPERATION (25,26)	OPERAND B QUALIFIER (27)	OPERAND B FIELD NAME B, CONSTANT OR BRANCH FIELD (28–58)	RESULT QUALIFIER (59)	RESULT FIELD NAME C (60–67)	PARTIAL FIELD STARTING CHAR. (68,69)	PARTIAL FIELD NUMBER OF CHAR. (70,71)	PARTIAL FIELD OPERAND A,B,or C (72)
	PR	946					R			T		37	6	C
	PR	947					R	D		T		51	1	C
	PR	948					R	T	PRODUCT	L	NM100			
	PR	950					GO		OUTPUT					
	PR													
	PR													
	PR													
	PR													
	PR													
	PR													
	PR													
	PR													
	PR													
	PR													
	PR													
	PR													
	PR													
	PR													
	PR													

Figure 7-8 Cont'd

RECAP BY MOS ADHOC PROCESSING AND RECORD SELECTION T/MR MASTER LINE FILE

CODING INSTRUCTIONS FOR FIGURE 7-9

Form Code (Pos 9-10)	Seq. No. (Pos. 11-13)	Field	Card Columns	Remarks
ER	-	Request Name	1-8	Enter Request Name - User org. code cc. 1-5. e.g. AO1M2. - Report Type cc 6. - Seq. No. cc 7-8 (Sequence of the request w/i organization.)
PR	(All cards)			
		Requestor Name	17-44	Self-explanatory
PR	001	Request Constant	60-67	Enter Request Name
PR	002	Request Constant	28-35	Enter Request Name
PR	007	Request Constant	60-67	Enter Request Name
PR	012	Request Constant	60-67	Enter Request Name
PR	030	User Coding Begins with this card		
PR	900	Request Constant	17-24	Enter Request Name
PR	910	Request Constant	17-24	Enter Request Name
PR	930	Request Constant	17-24	Enter Request Name
PR	940*	Qualifier	27	Enter "ϕ" if element from Unit File; Enter "1" if element from Master Line File.
		Control Field 1	28-35	Enter data name from glossary of most major control field.

CODING INSTRUCTIONS FOR FIGURE 7-9 (Cont'd)

Form Code (Pos 9-10)	Seq. No. (Pos. 11-13)	Field	Card Columns	Remarks
(PR (941 - 945)*		. . .		
PR	946*	Qualifier	27	Enter "Ø" if element from Unit File; Enter "1" if element from Master Line File.
		Control Field 7	28-35	Enter data name from glossary of most minor control field.
		Request	60-67	
		Request Constant	60-67	Enter Request Name
PR	947	Number of Control Fields	28	Enter number (0-7) of control fields coded in sequence nos. 940-946.
		Request Constant	60-67	Enter Request Name

* Code only if control break exists, otherwise omit card.

COMMENT

This form performs a similar function to that shown as figure 7-5. The user selection criteria coding commences at the PR020 line and branches to PR900. Note that for Grade/MOS Recaps, MOS is not specified as a control break.

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RECAP BY MOS AD HOC
PROCESSING AND RECORD SELECTION

T/MR MASTER LINE FILE

REQUEST NAME (1–8) | FORM CODE: ER (9 10) | REPORT DATE (11–16) | DECK ID (73–80)

REQUESTOR NAME (17–44) | TELEPHONE/EXT. | DIVISION/DEPT. | MAXIMUM ITEMS SELECTED (45–48) | SELECTION CONTROL (49) | REPORT FORMAT: SUMMARY REPORT ONLY? (50) | VERTICAL SPACING (51) | FORMS CONTROL (52) | WIDTH OF PAGE (53) | HEIGHT OF PAGE (54) | LINE NUMBERS? (55) | SPECIAL REQUEST PROCESSING (56)

REQUEST NAME (1–8)	FORM CODE (9,10)	SEQUENCE NO. (11–13)	LOGIC LEVEL (14)	CONNECTOR (15)	OPERAND A QUALIFIER (16)	OPERAND A FIELD NAME A (17–24)	OPERATION (25,26)	OPERAND B QUALIFIER (27)	OPERAND B FIELD NAME B, CONSTANT OR BRANCH FIELD (28–58)	RESULT QUALIFIER (59)	RESULT FIELD NAME C (60–67)	PARTIAL FIELD STARTING CHAR. (68,69)	PARTIAL FIELD NUMBER OF CHAR. (70,71)	PARTIAL FIELD OPERAND A,B,or C (72)
	P R	ØØ1		F	RECORD	EQ	C	M			1	8	R
	P R	ØØ2				R	C			T	REQ-ID			
	P R	ØØ3				R	C	6		T	REPORTG			
	P R	ØØ4		1	REC CODE	EQ	C	C						
	P R	ØØ5		A	1MM1ØØ-X	NE	C	XXX						
	P R	ØØ6				NS		ØØ1Ø						
	P R	ØØ7				R	D	ØØ01		T		45	3	C
	P R	ØØ8				R	1	MM1ØØ		T		42	3	C
	P R	ØØ9				GO		END						
	P R	Ø1Ø		1	REC CODE	EQ	C	D						
	P R	Ø11		A	1MM1ØØ-X	NE	C	XXX						
	P R	Ø12				NS		Ø15						
	P R	Ø13				R	1	MM1ØØ		T		45	3	C
	P R	Ø14				GO		END						
	P R	Ø15		1	REC CODE	EQ	C	E						
	P R	Ø16		A	1MM1ØØ-X	NE	C	XXX						
	P R	Ø17				NS		END						
	P R	Ø3Ø							START USER CODING					

Figure 7-9

MARK IV FILE MANAGEMENT SYSTEM®

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RECAP BY MOS AD HOC

PROCESSING AND RECORD SELECTION

T/MR MASTER LINE FILE

REQUEST NAME (1–8) | FORM CODE (9–10) E R | REPORT DATE (11–16) | DECK I.D. (73–80)

REQUESTOR NAME (17–44) | TELEPHONE/EXT. | DIVISION/DEPT. | MAXIMUM ITEMS SELECTED (45–48) | SELECTION CONTROL (49) | REPORT FORMAT: SUMMARY REPORT ONLY? (50) | VERTICAL SPACING (51) | FORMS CONTROL (52) | WIDTH OF PAGE (53) | HEIGHT OF PAGE (54) | LINE NUMBERS? (55) | SPECIAL REQUEST PROCESSING (56)

REQUEST NAME (1–8)	FORM CODE (9,10)	SEQUENCE NO. (11–13)	LOGIC LEVEL (14)	CONNECTOR (15)	OPERAND A QUALIFIER (16)	OPERAND A FIELD NAME A (17–24)	OPERATION (25,26)	OPERAND B QUALIFIER (27)	OPERAND B FIELD NAME B, CONSTANT OR BRANCH FIELD (28–58)	RESULT QUALIFIER (59)	RESULT FIELD NAME C (60–67)	PARTIAL FIELD STARTING CHAR. (68,69)	PARTIAL FIELD NUMBER OF CHAR. (70,71)	PARTIAL FIELD OPERAND A,B,or C (72)
	PR	9.0.0			T		*	I	MK.I.00.	T	PRODUCT	42	3	A
	PR	9.1.0			T		GTC					45	3	R
	PR	9.2.0					MS		9.4.0					
	PR	9.3.0			T		*	T	PRODUCT	T	PRODUCT	45	3	R
	PR	9.4.0					R			T		1	6	C
	PR	9.4.1					R			T		7	6	C
	PR	9.4.2					R			T		13	6	C
	PR	9.4.3					R			T		19	6	C
	PR	9.4.4					R			T		25	6	C
	PR	9.4.5					R			T		31	6	C
	PR	9.4.6					R			T		37	6	C
	PR	9.4.7					R	D		T		51	1	C
	PR	9.5.0					GO		OUTPUT					
	PR													
	PR	9.4.8					R	T	PRODUCT	I	MM.I.00.			
	PR													
	PR													
	PR													

Figure 7-9 Cont'd

RECAP BY MOS ADHOC
OUTPUT CONTENT SPECIFICATION
CODING INSTRUCTIONS FOR FIGURE 7-10

Form Code (Pos. 9-10)	Seq. No. (Pos. 11-13)	Field	Card Column	Remarks
R1	(All cards)	Request Name	1-8	Enter Request Name
R1	040	Request Name	17-24	Enter Request Name

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RECAP BY MOS AD HOC
OUTPUT CONTENT SPECIFICATION
MOS

PAGE ___ OF ___

DECK I.D.

REQUEST NAME (1–8)	FORM CODE (9–10)	SEQUENCE NO. (11–13)	NO. OF SPACES BEFORE COLUMN (14–15)	QUALIFIER (16)	FIELD NAME (17–24)	END LINE? (25)	NON-PRINT (26)	SORT: SEQUENCE (27)	SORT: DESCENDING? (28)	BREAK: CONTROL (29)	BREAK: SUBTITLE (30)	SUMMARIES: TOTAL (31)	SUMMARIES: CUMULATIVE (32)	SUMMARIES: COUNT (33)	SUMMARIES: MAXIMUM (34)	SUMMARIES: MINIMUM (35)	SUMMARIES: AVERAGE (35)	QUALIFIER (42)	% / RATIO FIELD (43–50)	RATIO (51)	(52)	OUTPUT EDIT (53–)		
	R1	Ø1Ø		1	BILL/1																			
	R1	Ø2Ø		T	REPORT6																			
	R1	Ø3Ø		T	REQ-1D																			
	R1	Ø4Ø		T																			1	42
	R1	Ø5Ø		1	DES CODE																			
	R1	Ø6Ø		1	A-GRADE																		6	1
	R1	Ø7Ø		1	MOS1																			
	R1	Ø8Ø		1	N-GRADE																			
	R1	Ø9Ø		T	SPACE2																		51	1
	R																							
	R																							
	R																							
	R																							
	R																							
	R																							
	R																							
	R																							
	R																							
	R																							
	R																							

Figure 7-10

NON SPECIFIC ADHOC REPORT PROCESSING AND RECORD SELECTION T/MR MASTER LINE VS. T/MR UNIT FILE

CODING INSTRUCTIONS FOR FIGURE 7-11

Form Code (9-10)	Seq. No. (Pos. 11-13)	Field	Card Columns	Remarks
ER	-	Request Name	1-8	Enter Request Name - User Organization Code, cc 1-5, e.g. AO1M2 - Type Report, cc 6. "N" = Non Specific Ad hoc - Sequence No. (of Report within the organization)
PR	(All cards)	Request Name	1-8	Enter Request Name
PR	008	User Coding begins at this line.		

COMMENT

The precoded entries on this form performs the "house keeping" coordination functions between the Unit File and Master Line File analogous to that shown on Figure 7-4.

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NON SPECIFIC AD HOC REPORT

PROCESSING AND RECORD SELECTION

PAGE ____ OF ____

T/MR MASTER LINE VS. T/MR UNIT

REQUEST NAME (1–8) | FORM CODE: E R (9–10) | REPORT DATE (11–16) | DECK I.D. (73–80)

REQUESTOR NAME (17) | TELEPHONE/EXT. | DIVISION/DEPT. (44) | MAXIMUM ITEMS SELECTED (45–48) | SELECTION CONTROL (49) | REPORT FORMAT: SUMMARY REPORT ONLY? (50) | VERTICAL SPACING (51) | FORMS CONTROL (52) | WIDTH OF PAGE (53) | HEIGHT OF PAGE (54) | LINE NUMBERS? (55) | SPECIAL REQUEST PROCESSING (56)

REQUEST NAME (1–8)	FORM CODE (9,10)	SEQUENCE NO (11–13)	LOGIC LEVEL (14)	CONNECTOR (15)	OPERAND A QUALIFIER (16)	OPERAND A FIELD NAME A (17–24)	OPERATION (25,26)	OPERAND B QUALIFIER (27)	OPERAND B FIELD NAME B, CONSTANT OR BRANCH FIELD (28–58)	RESULT QUALIFIER (59)	RESULT FIELD NAME C (60–67)	PARTIAL FIELD STARTING CHAR. (68,69)	PARTIAL FIELD NUMBER OF CHAR. (70,71)	PARTIAL FIELD OPERAND A,B,or C (72)
	P R	ØØ1			F	RECORD	EQ	C	A			1	1	A
	P R	ØØ2		A		SEG1ØCNT	GT	D	Ø					
	P R	ØØ3					NS		END					
	P R	ØØ4				SEG2ØCNT	GT	D	Ø					
	P R	ØØ5					NS		ØØ9					
	P R	ØØ6			L	LINE-NO	GE		LINE-FR					
	P R	ØØ7		A	L	LINE-NO	LE		LINE-TO					
	P R	ØØ8					NS		END START USER CODING					
	P R	ØØ9												
	P R													
	P R													
	P R													
	P R													
	P R													
	P R													
	P R													
	P R													
	P R													

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Figure 7-11

NON SPECIFIC ADHOC REPORT PROCESSING AND RECORD SELECTION T/MR MASTER LINE VS. T/MR UNIT CODING INSTRUCTIONS FOR FIGURE 7-12

Form Code	Seq No.	Field	Card Columns	Remarks
ER	-	Request Name	1-8	Enter Request Name - User Org. Code, cc. 1-5. e.g. AO1M2 - Type Report, cc. 6 "N"=Non Specific ad hoc - Sequence no. of report within organization and type report.
PR	(All cards)	Request	1-8	Request Name
PR	003	User Coding begins at this line.		

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NON SPECIFIC AD HOC REPORT

PROCESSING AND RECORD SELECTION

PAGE____OF____

FROM T/MR MASTER LINE FILE

REQUEST NAME (1–8) | FORM CODE (9 10) | REPORT DATE (11–16) | DECK I.D. (73–80)

REQUESTOR NAME (17) | TELEPHONE/EXT. | DIVISION/DEPT. (44) | MAXIMUM ITEMS SELECTED (45–48) | SELECTION CONTROL (49) | REPORT FORMAT: SUMMARY REPORT ONLY? (50) | VERTICAL SPACING (51) | FORMS CONTROL (52) | WIDTH OF PAGE (53) | HEIGHT OF PAGE (54) | LINE NUMBERS? (55) | SPECIAL REQUEST PROCESSING (56)

REQUEST NAME (1–8)	FORM CODE (9,10)	SEQUENCE NO. (11–13)	LOGIC LEVEL (14)	CONNECTOR (15)	OPERAND A QUALIFIER (16)	OPERAND A FIELD NAME A (17–24)	OPERATION (25,26)	OPERAND B QUALIFIER (27)	OPERAND B FIELD NAME B, CONSTANT OR BRANCH FIELD (28–58)	RESULT QUALIFIER (59)	RESULT FIELD NAME C (60–67)	PARTIAL FIELD STARTING CHAR. (68,69)	PARTIAL FIELD NUMBER OF CHAR. (70,71)	PARTIAL FIELD OPERAND A,B,or C (72)
	PR	001				RECORD	EQCM					1	1	B
	PR	002					NS		END					
	PR	003							START USER CODING					
	PR													
	PR													
	PR													
	PR													
	PR													
	PR													
	PR													
	PR													
	PR													
	PR													
	PR													
	PR													
	PR													
	PR													
	PR													
	PR													

Figure 7-12

NON SPECIFIC ADHOC PROCESSING AND RECORD SELECTION T/MR AGGREGATE FILE VS. UNIT FILE

CODING INSTRUCTIONS FOR FIGURE 7-13

Form Code (9-10)	Seq. No. (11-13)	Field	Card Column	Remarks
ER	-	Request Name	1-8	Enter Request Name - User Organization Code, cc 1-5, e.g. AO1M2. - Type Report, cc 6, "N" = Non Specific. - Sequence No. (of report within the organization).
PR	(All cards)	Request Name	1-8	Enter Request Name
PR	006	User Coding begins at this point.		

COMMENT

This Non Specific Ad hoc is provided to perform coordination between the T/MR Aggregate File and the T/MR Unit File. Since some Unit File records are reflective of specific T/MR Line Numbers on the Master Line File, this ad hoc scheme is valid only for T/MRs on the Unit File which has no Line Number Segment.

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NON SPECIFIC AD HOC

PROCESSING AND RECORD SELECTION

T/MR AGGREGATE FILE VS. UNIT FILE

PAGE ____ OF ____

REQUEST NAME (1–8) | FORM CODE: E R (9 10) | REPORT DATE (11–16) | DECK I.D (73–80)

REQUESTOR NAME (17) | TELEPHONE/EXT. | DIVISION/DEPT. (44) | MAXIMUM ITEMS SELECTED (45–48) | SELECTION CONTROL (49) | REPORT FORMAT: SUMMARY REPORT ONLY? (50) | VERTICAL SPACING (51) | FORMS CONTROL (52) | WIDTH OF PAGE (53) | HEIGHT OF PAGE (54) | LINE NUMBERS? (55) | SPECIAL REQUEST PROCESSING (56)

REQUEST NAME (1–8)	FORM CODE (9,10)	SEQUENCE NO (11–13)	LOGIC LEVEL (14)	CONNECTOR (15)	OPERAND A QUALIFIER (16)	OPERAND A FIELD NAME A (17–24)	OPERATION (25,26)	OPERAND B QUALIFIER (27)	OPERAND B FIELD NAME B, CONSTANT OR BRANCH FIELD (28–58)	RESULT QUALIFIER (59)	RESULT FIELD NAME C (60–67)	PARTIAL FIELD STARTING CHAR. (68,69)	PARTIAL FIELD NUMBER OF CHAR. (70,71)	PARTIAL FIELD OPERAND A,B,or C (72)
	PR	001			F	RECORD	EQ		CM			1	14	A
	PR	002					NS		END					
	PR	003				SEG2CNT	GT		00					
	PR	004					NS		006					
	PR	005					GO		END					
	PR	006							START USER CODING					
	PR													
	PR													
	PR													
	PR													
	PR													
	PR													
	PR													
	PR													
	PR													
	PR													
	PR													

Figure 7-13

NON SPECIFIC ADHOC PROCESSING AND RECORD SELECTION T/MR AGGREGATE FILE

CODING INSTRUCTIONS FOR FIGURE 7-14

Form Code (9-10	Seq. No. (11-13)	Field	Card Column	Remarks
ER	-	Request Name	1-8	Enter Request Name - User Organization Code, cc 1-5, e.g. AO1M2. - Type Report, cc 6, "N"= Non Specific - Sequence No. (of report within the organization)
PR	(All cards)	Request Name	1-8	Enter Request Name
PR	003	User coding begins at this point.		

FILE MANAGEMENT SYSTEM

NON SPECIFIC AD HOC

PROCESSING AND RECORD SELECTION

T/MR AGGREGATE FILE

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REQUEST NAME (1–8) | FORM CODE: E R (9 10) | REPORT DATE (11–16) | DECK I.D. (73–80)

REQUESTOR NAME (17–44) | TELEPHONE/EXT. | DIVISION/DEPT. | MAXIMUM ITEMS SELECTED (45–48) | SELECTION CONTROL (49) | REPORT FORMAT: SUMMARY REPORT ONLY? (50) | VERTICAL SPACING (51) | FORMS CONTROL (52) | WIDTH OF PAGE (53) | HEIGHT OF PAGE (54) | LINE NUMBERS? (55) | SPECIAL REQUEST PROCESSING (56)

REQUEST NAME (1–8)	FORM CODE (9 10)	SEQUENCE NO. (11–13)	LOGIC LEVEL (14)	CONNECTOR (15)	OPERAND A QUALIFIER (16)	OPERAND A FIELD NAME A (17–24)	OPERATION (25 26)	OPERAND B QUALIFIER (27)	OPERAND B FIELD NAME B, CONSTANT OR BRANCH FIELD (28–58)	RESULT QUALIFIER (59)	RESULT FIELD NAME C (60–67)	PARTIAL FIELD STARTING CHAR. (68 69)	PARTIAL FIELD NUMBER OF CHAR. (70 71)	PARTIAL FIELD OPERAND A,B,or C (72)
	P R	001			F	RECORD	EQCM					1	1	A
	P R	002					NS		END					
	P R	003							START USER CODING					
	P R													
	P R													
	P R													
	P R													
	P R													
	P R													
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	P R													

Figure 7-14

NON SPECIFIC ADHOC REPORT
OUTPUT FORMAT SPECIFICATION

CODING INSTRUCTIONS FOR FIGURE 7-15

Form Code	Seq. No.	Field	Card Columns	Remarks
E	-	Request Name	1-8	Enter Request Name - User Org. Code, cc. 1-5, e.g. AO1M2. -Type Report, cc-6. "N" = Non Specific Ad hoc - Sequence No. (of request within the organization).

Remainder of specifications may be found in the MARK IV Reference Manual.

MARK IV FILE MANAGEMENT SYSTEM

NON SPECIFIC AD HOC REPORT
OUTPUT FORMAT SPECIFICATION

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PAGE____ OF____

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73 80

REQUEST NAME
1 8

E
9 10

		CODES BLANK - OR
11	SUMMARY REPORT ONLY?	Y, N
12	VERTICAL SPACING	1 - 9
13	PRINT 8 LINES PER INCH?	Y, N
14 16	WIDTH OF PAGE	A - E; 1 - 132
17 19	HEIGHT OF PAGE	A - E; 1 - 132
20	NUMBER OF REPEATED IMAGES	1 - 9
21	SPECIAL FORMS?	Y, N
22 23	MAXIMUM NUMBER OF LINES PER PAGE	1 - 99
24 27	MAXIMUM NUMBER OF PAGES	1 - 9999
28	PAGE TITLE AT BOTTOM OF PAGE?	Y, N
29	COLUMN HEADING TYPE	F, X
30	COLUMN HEADING POSITION	T, B

		CODES BLANK - OR
31 32	DATE POSITION	UL; UR; LL; LR; MT; MB; ND
33 34	PAGE NUMBER POSITION	UL; UR; LL; LR; MT; MB; NP
35 38	START PAGE NUMBERS AT	1 - 9999; OR PAGE
39	LINE NUMBERS	Y; N; L; R; B
40	LABELS ON SUMMARY LINES	L, X
41 42	REPORT HANDLING	NR, RF
43	ENTIRE RECORD SELECTION	N, C
44 51	SUBFILE NAME	8 CHARACTERS
52 55	SUBFILE BLOCKING FACTOR	1 - 9999
56	SUBFILE FORMAT	V, F OR U

Figure 7-15

NON SPECIFIC ADHOC REPORT OUTPUT CONTENT SPECIFICATION

CODING INSTRUCTIONS FOR FIGURE 7-16

Form Code	Seq. No.	Field	Card Columns	Remarks
R1	-	Request Name	1-8	Enter Request Name - User Org. Code, cc. 1-5 e.g. AO1M2 - Type Report, cc-6, "N"=Non Specific Ad hoc - Sequence No. (of request within the organization).

Remainder of specification may be found in the MARK IV Reference Manual.

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NON SPECIFIC AD HOC REPORT

OUTPUT CONTENT SPECIFICATION

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REQUEST NAME 1–8	FORM CODE 9,10	SEQUENCE NO. 11–13	NO. OF SPACES BEFORE COLUMN 14,15	QUALIFIER 16	FIELD NAME 17–24	END LINE? 25	NON-PRINT 26	SORT: SEQUENCE 27	SORT: DESCENDING? 28	BREAK: CONTROL 29	BREAK: SUBTITLE 30	SUMMARIES: TOTAL 31	SUMMARIES: CUMULATIVE 32	SUMMARIES: COUNT 33	SUMMARIES: MAXIMUM 34	SUMMARIES: MINIMUM 35	SUMMARIES: AVERAGE 36	QUALIFIER 42	% / RATIO FIELD 43–50	RATIO 51	% 52	OUTPUT EDIT 53–67	PARTIAL FIELD: STARTING CHAR 66,69	PARTIAL FIELD: NUMBER OF CHAR 70,71
	R																							
	R																							
	R																							
	R																							
	R																							
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	R																							

Figure 7-16

NON SPECIFIC ADHOC REPORT
OUTPUT CONTENTS SPECIFICATION
(GRADE/MOS RECAP)
T/MR AGGREGATE FILE

CODING INSTRUCTIONS FOR FIGURE 7-17

Form Code	Seq. No.	Field	Card Columns	Remarks
R1	(All cards)	Request Name	1-8	Enter Request Name - User Org. Code cc 1-5, e.g. AO1M2. - Report Type cc 6, N = Non Specific - Sequence No. cc 7-8 (sequence of request within organization)
R1	020	T,DESIGDEF		This field requires that a table lookup against Table DESIGDEF be performed in one of the PR statements associated with this request.

COMMENT

The example specified will produce a Grade/MOS Summary by T/MR, Designator Text, MOS.

FILE MANAGEMENT SYSTEM

NON SPECIFIC AD HOC REPORT

OUTPUT CONTENT SPECIFICATION

(GRADE/MOS RECAP)

T/MR AGGREGATE FILE

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REQUEST NAME	FORM CODE	SEQUENCE NO.	NO OF SPACES BEFORE COLUMN	QUALIFIER	FIELD NAME	END LINE?	NON-PRINT	SORT: SEQUENCE	SORT: DESCENDING?	BREAK: CONTROL	BREAK: SUBTITLE	SUMMARIES: TOTAL	SUMMARIES: CUMULATIVE	SUMMARIES: COUNT	SUMMARIES: MAXIMUM	SUMMARIES: MINIMUM	SUMMARIES: AVERAGE	QUALIFIER	% / RATIO FIELD	RATIO	%	OUTPUT EDIT	PARTIAL FIELD: STARTING CHAR.	PARTIAL FIELD: NUMBER OF CHAR
1 8	9 10	11 13	14 15	16	17 24	25	26	27	28	29	30	31	32	33	34	35	36	42	43 50	51	52	53 67	68 69	70 71
	R 1	010			T/MR NO.					1	S													
	R 1	020			TDES.IGDE.F					2	S													
	R 1	030			1MOS					3														
	R 1	040			1GR1B							3										###		
	R 1	050			1GR17							3										###		
	R 1	060			1GR16							3										###		
	R 1	070			1GR15							3										###		
	R 1	080			1GR14							3										###		
	R 1	090			1GR13							3										###		
	R 1	100			1GR12							3										###		
	R 1	110			1GR11							3										###		
	R 1	120			1GR10							3										###		
	R 1	130			1GR9							3										###		
	R 1	140			1GR8							3										###		
	R 1	150			1GR7							3										###		
	R 1	160			1GR6							3										###		
	R 1	170			1GR5							3										###		
	R 1	180			1GR4							3										###		
	R 1	190			1GR3							3										###		
	R 1	200			1GR2							3										###		

Figure 7-17

MARK IV FILE MANAGEMENT SYSTEM®

NON SPECIFIC AD HOC REPORT

OUTPUT CONTENT SPECIFICATION

(GRADE/MOS RECAP)

T/MR AGGREGATE FILE

informatics inc.

DECK I.D. (73–80)

REQUEST NAME (1–8)	FORM CODE (9,10)	SEQUENCE NO. (11–12)	NO. OF SPACES BEFORE COLUMN (14,15)	QUALIFIER (16)	FIELD NAME (17–24)	END LINE? (25)	NON-PRINT (26)	SORT: SEQUENCE (27)	SORT: DESCENDING? (28)	BREAK: CONTROL (29)	BREAK: SUBTITLE (30)	SUMMARIES: TOTAL (31)	SUMMARIES: CUMULATIVE (32)	SUMMARIES: COUNT (33)	SUMMARIES: MAXIMUM (34)	SUMMARIES: MINIMUM (35)	SUMMARIES: AVERAGE (36)	QUALIFIER (42)	% / RATIO FIELD (43–50)	RATIO (51)	% (52)	OUTPUT EDIT (53–67)	PARTIAL FIELD: STARTING CHAR (68,69)	PARTIAL FIELD: NUMBER OF CHAR (70,71)
	R	210		L	GRJ							S										###.##		
	R	220		L	TOTAL							S										###.##		
	R																							
	R																							
	R																							
	R																							
	R																							
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	R																							
	R																							
	R																							

Figure 7-17 Cont'd

NON SPECIFIC ADHOC REPORT
TITLE

CODING INSTRUCTIONS FOR FIGURE 7-18

Form Code	Seq No.	Field	Card Columns	Remarks
T1	(All cards)	Request Name	1-8	Enter Request Name - User Org. Code, cc 1-5, e.g. AO1M2 - Type Report, cc 6. "N"=Non Specific Ad hoc - Seq. No. of request within the organization and Type report. cc 7-8.
T1	001	Request Name	15-22	Prints at the Top of each Report Page. Enter Request Name.
T1	002	Line 1 Title Text	14-72	Terminate end of line with a "&" symbol.
T1	003	Line 2 Title Text	14-72	Terminate end of line with a "&" symbol.
T1	004	Line 3 Title Text	14-72	Terminate end of line with a "&" symbol.

MARK IV FILE MANAGEMENT SYSTEM

NON SPECIFIC AD HOC REPORT

TITLE

informatics inc.

PAGE____ OF ____

FORM CODE ENTRIES

Pn = TITLE, FIRST PAGE ONLY
Tn = TITLE, ALL REPORT PAGES
Fn = FREE FORM OUTPUT SPECIFICATIONS
AA = COMMENTS

DECK I.D. (73–80)

REQUEST NAME (1–8)	FORM CODE (9–10)	SEQ. NO. (11–13)	TEXT (14–72; 8-½" = 40, 11" = 65)
	T1	001	*
	T1	002	
	T1	003	
	T1	004	

Figure 7-18

SECTION 8

INTERFACES

8.1 INTRODUCTION

This section is devoted to the interface of the T/MR system with the Headquarters Marine Corps T/MR Related Processes and the interface with the G-1, A01M, Manpower Management Models.

8.2 T/MR INTERFACE WITH THE HEADQUARTERS MARINE CORPS T/MR RELATED PROCESSES

Interface with the Headquarters Marine Corps T/MR Related Processes is effected through production of two "look alike" files. These are:

- Billet Line String
  PP14YPD
- Work File B
  TA22YRJ

These files are produced automatically as a part of the update processes, transparent to the user, and are integral to the PEN Authorized/Assigned Report Process, and Authorizes Strength file process respectively.

8.3 MODEL INTERFACES

8.3.1 Introduction

The purpose of this section is to describe the USMC user procedures in reference to the T/MR interface with the following models:

- o STRAFE - Simulation for Total Requirements Authorization Forecast and Evaluation
- o MPM - Manpower Planning Model
- o SAS - Strength Adjustment Simulator
- o RIP - Requirements Information Process

8.3.2 General

The T/MR system's requirements to interface with the various models is essentially comprised of matrix reports with magnetic output. This magnetic output is used as direct input to the model programs to generate Marine Corps structure for "planning purposes." The following files must be provided by the USMC model users to develop the specific model matrices and magnetic outputs:

- o Troop File - Figure 8-1
- o MCC File - Figure 8-2
- o Matrix Desired File - Figure 8-3

8.3.3 Troop File

The Troop file is maintained by the STRAFE, MPM, and SAS model users. The file is retained in punched card format so that flexibility in "gaming" a desired Marine Corps Structure is possible.

The Troop file is used as a "finder file" against the T/MR data base. The Troop file specifies which T/MRs are desired for inclusion in the model matrix output. The model users must specify the following parameters:

- o T/MR Number
- o Multiple

TROOP FILE

COLUMNS	DESCRIPTION	REMARKS
1-10		NOT APPLICABLE
11-15	T/MR NO.	
16-23		NOT APPLICABLE
24-25	MULTIPLE	
26-28		NOT APPLICABLE
29	LOCATION	
30-32		NOT APPLICABLE
33-35	OFFICER %	
36-37		NOT APPLICABLE
38-40	ENLISTED %	
41-80		NOT APPLICABLE

Figure 8-1

- o Location Indicator (Conus - Overseas)
- o Officers Manning Level (T/MR M/F)
- o Enlisted Manning Level (T/MR M/F)

With the above elements, the model user might wish to "game" T/MR Number 1013 as follows:

	T/MR	Multiple	Location	Officer M/F	Enlisted M/F
#1	1013	3	C	100	100
#2	1013	2	O	090	097

In Example #1, the model user expects to extract the data at the 100% manning level for both Officers and Enlisted and multiply it three times and assign a Conus indicator for its location.

In Example #2, the Officer data at 90% and the Enlisted data at 97% manning level is multiplied by two and assigned an Overseas location.

The system will allow for a maximum of ten(10) "games" per T/MR for the model user to build his structured data for "planning purposes".

8.3.4 MCC File

The MCC file is maintained exclusively by the SAS model user. This file is maintained in punch card format for user flexibility. The MCC file is used basically in the same manner as the Troop File, where the parameters maintained are:

- o MCC

MCC FILE

COLUMNS	DESCRIPTION	REMARKS
1-10		NOT APPLICABLE
11-13	MCC	
14-23		NOT APPLICABLE
24-25	MULTIPLE	
26-32		NOT APPLICABLE
33-35	OFFICER %	
36-37		NOT APPLICABLE
38-40	ENLISTED %	
41-80		NOT APPLICABLE

Figure 8-2

- o Multiple
- o Officer Manning Level (T/MR M/F)
- o Enlisted Manning Level (T/MR M/F)

The MCC file is used as a "finder file" against the T/MR data base. The major difference between the Troop file and the MCC file is that the MCC file may deal with specific line numbers within T/MRs and the Troop file applies against an entire T/MR.

The SAS model user employs the same "gaming" techniques as the Troop file users. Since there is no Location field (Conus or Overseas), only one unique MCC code is given. Duplicate MCCs are not allowed.

8.3.5 Matrix Desired File

The Matrix Desired file is maintained by the STRAFE, and MPM model users. The purpose of this file is to provide the model user with the capability to generate up to twenty-seven (27) different matrix reports from one pass of the T/MR data base.

Figure 8-4 reflects three general groups from which a combination of one selection from each group produces a desired matrix key. The model user can specify as many valid matrix keys as he wishes for a given run. If, however, the model user desires every matrix possible, the word "ALL" placed in the first matrix key field will be specified.

For practical usage of this file, the matrix desired record can hold up to nineteen (19) matrix keys. Therefore, only two records are necessary to contain the twenty-seven (27) possible combinations.

MATRIX DESIRED FILE

Format: Punched card

Record Layout:

COLUMNS	DESCRIPTION	REMARKS
1	Record Code	Value = M
2-4	Not Used	Blank
*{ 5	Not Used	Blank
*{ 6-8	Matrix Key No. 1	
9	Not Used	Blank
10-12	Matrix Key No. 2	
.	.	
.	.	
.	.	
77	Not Used	Blank
78-80	Matrix Key No. 19	

*Occurs 19 times

Figure 8-3

DESIRED MATRIX COMBINATION

Group No. 1 - Service Mode

1. Marine Officers
2. Naval Aviators/Flight Officers
3. Enlisted

Group No. 2 - Location

4. Conus
5. Overseas
6. Conus/Overseas

Group No. 3 - Component

7. FMF
8. Non-FMF
9. FMF/Non-FMF

SAMPLE USAGE

If the model user wishes to obtain matrix data for: Marine Officers, Overseas, FMF, the matrix key would be 157.

Figure 8-4

These records do not require that each matrix key field be consecutive in that blank key fields will be ignored. For additional flexibility, the model user may place each matrix key on a separate record.

8.3.6 Model User Interface Requirement

8.3.6.1 STRAFE, MPM, SAS Phase II. The STRAFE, MPM, and SAS (Phase II) users must define a Troop file. Once the Troop file is developed, the T/MR system will accept the punched card input, edit the data elements, reject records in error, sort the accepted records in T/MR sequence, and provide a report indicating the actions taken.

The following edits will be applied against the Troop file data and any error detected will automatically reject that record. The record therefore will not be included in the matrix process.

- o T/MR Number - The first four positions must be numeric (0-9), the fifth position must be blank or alphabetic.
- o Multiple - May not be blank, or zero, or alphabetic. Must be a value of (Ø1-99).
- o Location - Must be C - Consus, or O - Overseas.
- o* Officer/Enlisted Manning Level - Must be a M/L recognized by the T/MR system. Valid M/Ls are: 100, 097, 095, 093, 090, 087, 085, 083, 080, 078, 075, 070. If the leading zero is omitted, such as 97, the field must be right-justified.

---

* The model user also has the option of not specifying a manning level for either Officers or Enlisted. In this case, blanks or "000" would be accepted by the system.

Example:

T/MR	Multiple	Location	Officer M/L	Enlisted M/L
1013M	3	C	000 or blank	090

The submission of a Troop file will produce output for all three models simultaneously. This feature will facilitate comparison of the results produced from a common base. This implies, however, that the T/MR system will not allow independent runs (two or more Troop lists) for a particular model, or models, during a single job submission.

8.3.6.2 SAS (Phase I). The SAS model user defines the MCC file. Once the MCC file is developed, the T/MR system will accept the punched card input, edit the data elements, reject records in error, and provide a report indicating the MCC file status.

The following edits will be applied against the MCC file data and any error detected will reject that record. The record, therefore, will not be included in the SAS (Phase I) output processing.

- MCC - This data element is verified against the Headquarters Table File maintained by the Marine Corps. If no match occurs, the record will still be accepted but a warning message is printed.
- Multiple - May not be blank, or zero, or alphabetic. Must be a value of (Ø1-99).
- o* Officer/Enlisted Manning Level - Must be a M/L recognized by the T/MR system. Valid M/Ls are: 100, 097, 095, 093, 090, 087, 085, 083, 080, 078, 075, 070. If the leading zero is omitted, such as 97, the field must be right-justified.

---

* The model user also has the option of not specifying a manning level for either Officers or Enlisted. In this case, blanks or "000" would be accepted by the system.

Example:

MCC	Multiple	Officer M/L	Enlisted M/L
100	2	000 or blank	090

The T/MR data base is updated monthly. Therefore, the SAS model user can "game" the MCC File as desired and process report runs whenever desired.

8.3.6.3 RIP. No special action is required by the TIP model user. The interface requirements are automatically produced on a monthly basis in the form of a magnetic and hard copy output report.

8.3.7 Summary of Output

- Matrix Reports
  - STRAFE
  - MPM
  - SAS
  - RIP
- Magnetic Output
  - STRAFE
  - MPM
  - SAS
  - RIP

Samples of the output for the [illegible] interface are contained in the TIP Technical Manual

APPENDIX A

TABLE OF MANPOWER REQUIREMENTS

DIAGNOSTIC MESSAGES

Code	Diagnostic Message
001	T/MR Number not numeric
002	T/MR Suffix not alpha or space
003	Organization Type invalid
004	T/MR Line Number not numeric
005	T/MR Line Number Suffix not alpha or space
006	Unit Line Number not numeric
007	Manning Multiples not numeric
008	Manning Factors not numeric
009	PAP Code invalid
010	Branch Code invalid
011	Type Code invalid
012	Type Code not compatible with Branch Code
013	Pay Grade Code invalid, not on table
014	Pay Grade Code not compatible with Type Code
015	Pay Grade and Alpha Grade Codes not compatible
016	Pay Grade Code not compatible with Branch Code
017	Billet Status Code invalid
018	Billet Status and Branch Codes not compatible
019	MOS invalid, not on table
020	MOS-1 invalid, not on table
022	Type not compatible with O/E Code within MOS Table
023	MOS-1 and Pay Grade Codes not compatible
024	MOS-2 and Pay Grade Codes not compatible
025	MOS and Branch Codes not compatible
026	MOS-1 and Pay Grade Codes not compatible
027	MOS-2 and Branch Codes not compatible
028	MOS-2 Qualifier invalid
029	MOS-3 Qualifier invalid
030	Weapon Code invalid
031	Weapon Code not compatible with Branch Code
032	Weapon Code not compatible with Type Code
033	Weapon Code not compatible with Pay Grade Code
034	Rank/Weapon/MOS Flag invalid
035	Education-1 Qualifier Code invalid
036	Education-1 Code invalid
037	Education-2 Qualifier Code invalid
038	Special Education Program Flag invalid
039	Security Clearance Code invalid

TABLE OF MANPOWER REQUIREMENTS

DIAGNOSTIC MESSAGES (Cont.)

Code	Diagnostic Message
040	Service School-1 Qualifier Code invalid
041	Service School-1 Code invalid
042	Service School-2 Qualifier Code invalid
043	Service School-2 Code invalid
044	Foreign Language-1 Qualifier Code invalid
045	Foreign Language-1 Code invalid
046	Standard Footnote Code invalid
047	Effective Date not numeric
048	Add/Delete Flag invalid
049	T/MRCA Number not numeric or space
050	T/MR Multiple not numeric
051	Aggregate T/MR Number not numeric
052	Aggregate T/MR Number Suffix not alpha or space
053	Activity Address Code not numeric
054	Number of copies field not numeric
055	T/E Number not numeric
056	T/E Number Prefix not alpha or space
057	WARNING - MCC not on Headquarters Table File
058	WARNING - MCC deactivated
059	WARNING - RUC not on Headquarters Table File
060	PEN Code invalid
061	RCN Field invalid
062	UIC invalid, 1st digit not character = M
063	UIC invalid, positions 2-6 not numeric
064	MPM Code invalid
065	G/L Code invalid, not on HQ Table File
066	Operator Code invalid
067	Record Code invalid
068	WARNING - T/MR Organ, Desc, not left-justified
069	WARNING - Data in positions 25-69 not picked up
070	Blank
071	WARNING - Data in positions 11-12 not picked up
072	The value of Line-To must not be less than Line From
073	Blank
074	WARNING - Data in positions 54-80 not picked up
075	WARNING - Data in positions 12-19 not picked up
076	MOS Table contains an invalid O/E Code for MOS
077	Grade not compatible with Hi/Low Range of MOS Table
078	Blank

TABLE OF MANPOWER REQUIREMENTS

DIAGNOSTIC MESSAGES (Cont.)

Code	Diagnostic Message
079	Footnote Sequence Number not numeric
080	WARNING - Unit Description not left-justified
081	Lines-From Field not numeric
082	Lines-From Suffix not alphabetic or space
083	Lines-To Field not numeric
084	Lines-To Suffix not alphabetic or space
085	WARNING - Data in positions 33-80 not picked up
086	Effective Data and Add-Delete Field invalid
087	One or more recap data fields invalid
088	One or more Factor/Multiple Fields not numeric
089	WARNING - Data in positions 53-80 not picked up
090	One or more Qualitative fields not numeric
091	WARNING - Data in positions 67-80 not picked up
092	WARNING - Data in positions 25-45 not picked up
093	Education-2 Code invalid
094	Foreign Language-2 Qualifier Code invalid
095	Foreign Language-2 Code invalid
100	Record to be updated does not exist
101	Record to be added already exists
102	T/MR deleted - no other action allowed
103	Advisory - delete action completed
104	Blank
105	Blank
106	Blank
107	Blank
108	Blank
109	Blank
110	Ungraded Civilian - Invalid Alpha Grade category
111	Ungraded Civilian - Invalid MOS
112	Marine Billet - PAP Code is blank
113	Single U Qualifier invalid for additional MOS
114	WARNING - Blanking Operation, object field blank
115	Footnote Code = A - Billet Status must be X
116	Invalid change for Record Code C
117	Single U Qualifier invalid for Language Code
118	Single U Qualifier invalid for Education Code
119	Single U Qualifier invalid for Serv/Sch Code
120	Billet Qualifier and Qualifier Code incomplete
121	Add/Delete Flag and Effective Date must both be complete
122	T/MR Multiple and T/MR No must be completed

APPENDIX B
TO THE TABLE OF MANPOWER REQUIREMENTS (T/MR) SYSTEM NON-TECHNICAL USERS MANUAL

This appendix contains the Program Procedures (PROCs) related to running the computer programs associated with the T/MR system. The T/MR Procs interface with the instruction's and procedures set forth in the T/MR Input/Output (I/O) manual.

```
SYSIN                                   NEW MASTER                                        IEBUPDTE LOG PAGE 0001

./ ADD  NAME=C5921B01,LIST=ALL
./ NUMBER NEW1=10,INCR=10
                                        //C5921B01  PROC                                                         00000010
                                        //STEP1     EXEC PGM=IEBGENER                                            00000020
                                        //SYSPRINT DD SYSOUT=A                                                   00000030
                                        //SYSUT2    DD DSN=&CHGS,UNIT=2314,SPACE=(TRK,(10,5),RLSE),              00000040
                                        //          DISP=(NEW,PASS),DCB=(BLKSIZE=3200,LRECL=80,RECFM=FB)         00000050
                                        //SYSIN     DD DUMMY                                                     00000060
                                        //STEP2     EXEC PGM=IERRCOOO,REGION=100K                                00000070
                                        //SYSOUT    DD SYSOUT=A                                                  00000080
                                        //SORTLIB   DD DSN=SYS1.SORTLIB,DISP=SHR                                 00000090
                                        //SORTIN    DD DSN=&CHGS,DISP=(OLD,DELETE),                              00000100
                                        //          UNIT=2314,DCB=(RECFM=FB,LRECL=80,BLKSIZE=3200)               00000110
                                        //SORTOUT   DD DSN=&SORTCHG,UNIT=2314,DISP=(,PASS),                      00000120
                                        //          DCB=(LRECL=80,BLKSIZE=800,RECFM=FB),SPACE=(TRK,(10,5),RLSE)  00000130
                                        //SORTWK01 DD UNIT=SYSDA,SPACE=(TRK,(30),,CONTIG)                        00000140
                                        //SORTWK02 DD UNIT=SYSDA,SPACE=(TRK,(30),,CONTIG)                        00000150
                                        //SORTWK03 DD UNIT=SYSDA,SPACE=(TRK,(30),,CONTIG)                        00000160
                                        //STEP3     EXEC PGM=IEBPTPCH                                            00000170
                                        //SYSPRINT DD SYSOUT=A                                                   00000180
                                        //SYSUT1    DD DSN=&SORTCHG,DISP=(OLD,PASS)                              00000190
                                        //SYSUT2    DD SYSOUT=A                                                  00000200
                                        //STEP4     EXEC PGM=C5921B17                                            00000210
                                        //STEPLIB   DD DSN=HOMC1.AP12.TSTLIB2,DISP=SHR                           00000220
                                        //SYSUDUMP DD SYSOUT=A                                                   00000230
                                        //SYS001    DD DSN=&SORTCHG,DISP=(OLD,DELETE)                            00000240
                                        //SYS002    DD DSN=HOMC1.AP12.C5921.PB110401(0),                         00000250
                                        //          UNIT=2314,SPACE=(TRK,(10,10),RLSE),                          00000260
                                        //          DISP=(OLD,KEEP),DCB=(BLKSIZE=3200,LRECL=80,RECFM=FB)         00000270
                                        //SYS003    DD DSN=HOMC1.AP12.C5921.PB110401(+1),                        00000280
                                        //          UNIT=2314,DISP=(,CATLG,DELETE),                              00000290
                                        //    SPACE=(TRK,(20,10),RLSE),                                          00000300
                                        //          DCB=(BLKSIZE=3200,LRECL=80,RECFM=FB)                         00000310
                                        //SYS004    DD  DSN=&TBLSERR,DISP=(,PASS),UNIT=2314,                     00000320
                                        //          DCB=(LRECL=40,BLKSIZE=400,RECFM=FB),SPACE=(TRK,(5,5),RLSE)   00000330
                                        //STEP5     EXEC PGM=IEBPTPCH                                            00000340
                                        //SYSPRINT DD SYSOUT=A                                                   00000350
                                        //SYSUT1    DD DSN=HOMC1.AP12.C5921.PB110401(+1),DISP=OLD                00000360
                                        //SYSUT2    DD SYSOUT=A                                                  00000370
                                        //STEP6     EXEC PGM=IEBPTPCH                                            00000380
                                        //SYSPRINT DD SYSOUT=A                                                   00000390
                                        //SYSUT1    DD DSN=&TBLSERR,DISP=(OLD,DELETE)                            00000400
                                        //SYSUT2    DD SYSOUT=A                                                  00000410
./ ENDUP
IEB817I MEMBER NAME (C5921B01) NOT FOUND IN NM DIRECTORY.  STOWED WITH TTR.
IEB818I HIGHEST CONDITION CODE WAS 00000000
IEB819I END OF JOB IEBUPDTE.
```

SYSIN NEW MASTER IEBUPDTE LOG PAGE 0001

```
./ ADD  NAME=C5921802,LIST=ALL
./ NUMBER NEW1=10,INCR=10
```

```
//C5921802  PROC                                                        00000010
//STEPONE   EXEC  PGM=IEFBR14                                           00000020
//DD1       DD  DSN=HOMC1.AP12.C5921.TMRNEW1,DISP=(OLD,DELETE)          00000030
//CDTP    EXEC PGM=IEBGENER                                             00000040
//SYSPRINT DD SYSOUT=A                                                  00000050
//SYSUT2    DD DSN=&CHGS,UNIT=2314,                                     00000060
//            SPACE=(TRK,(10,10),RLSE),                                 00000070
//          DISP=(NEW,PASS),DCB=(BLKSIZE=4000,LRECL=80,RECFM=FB)        00000080
//SYSIN     DD DUMMY                                                    00000090
//STEP1     EXEC PGM=IERRCOOO,REGION=86K                                00000100
//SYSOUT    DD  SYSOUT=A                                                00000110
//SORTLIB   DD  DSN=SYS1.SORTLIB,DISP=SHR                               00000120
//SORTIN    DD DSN=&CHGS,UNIT=2314,                                     00000130
//            SPACE=(TRK,(10,10),RLSE),DISP=(OLD,DELETE),               00000140
//          DCB=(BLKSIZE=4000,LRECL=80,RECFM=FB)                        00000150
//SORTOUT   DD  DSN=HOMC1.AP12.C5921.TMRCH1,UNIT=2314,                  00000160
//          DCB=(BLKSIZE=3000,LRECL=100,RECFM=FB),                      00000170
//          DISP=(NEW,PASS),                                            00000180
//          SPACE=(TRK,(10,10),RLSE)                                    00000190
//SORTWK01 DD  UNIT=SYSDA,SPACE=(TRK,(30),,CONTIG)                      00000200
//SORTWK02 DD  UNIT=SYSDA,SPACE=(TRK,(30),,CONTIG)                      00000210
//SORTWK03 DD  UNIT=SYSDA,SPACE=(TRK,(30),,CONTIG)                      00000220
//STEP2  EXEC  PGM=C5320813                                             00000230
//STEPLIB DD DSN=HOMC1.AP12.TSTLIB2,DISP=SHR                            00000240
//SYS001    DD    DSN=HOMC1.AP12.C5921.TMRCH1,DISP=(OLD,DELETE)         00000250
//SYS002    DD     DSN=&CHGS3,UNIT=TAPE9,                               00000260
//            DCB=(LRECL=100,BLKSIZE=3000,RECFM=FB),                    00000270
//          DISP=(,PASS)                                                00000280
//SYS003    DD     DSN=&FOOTNOTE,UNIT=TAPE9,                            00000290
//            DISP=(,DELETE),                                           00000300
//            DCB=(LRECL=100,BLKSIZE=3000,RECFM=FB)                     00000310
//SYSOUT      DD SYSOUT=A                                               00000320
//C5320802  EXEC PGM=IERRCOOO,REGION=86K                                00000330
//SYSOUT    DD  SYSOUT=A                                                00000340
//SORTLIB   DD  DSN=SYS1.SORTLIB,DISP=SHR                               00000350
//SORTIN    DD DSN=&CHGS3,DISP=(OLD,DELETE),                            00000360
//            DCB=(LRECL=100,BLKSIZE=3000,RECFM=FB)                     00000370
//SORTOUT   DD  DSN=HOMC1.AP12.C5921.TMRNEW1,UNIT=TAPE9,                00000380
//          DISP=(NEW,CATLG,DELETE),                                    00000390
//            DCB=(LRECL=100,BLKSIZE=3000,RECFM=FB)                     00000400
//SORTWK01 DD  UNIT=SYSDA,SPACE=(TRK,(30),,CONTIG)                      00000410
//SORTWK02 DD  UNIT=SYSDA,SPACE=(TRK,(30),,CONTIG)                      00000420
//SORTWK03 DD  UNIT=SYSDA,SPACE=(TRK,(30),,CONTIG)                      00000430
//C5320803 EXEC PGM=MARKIV,REGION=100K                                  00000440
//STEPLIB   DD  DSN=SYS1.MARKIV,DISP=SHR                                00000450
//M4LIB     DD  DSN=HOMC1.AP12.C5320.MK4LIB1,DISP=SHR                   00000460
//M4LIST    DD  SYSOUT=A                                                00000470
//M4REPO    DD  DSN=HOMC1.AP12.C5320.T812.REPO,UNIT=TAPE9,              00000480
//            DISP=(NEW,PASS,DELETE)                                    00000490
//M4SORT    DD  DUMMY                                                   00000500
```

```
SYSIN                         NEW MASTER                                 IEBUPDTE LOG PAGE 0002

                              //M4OLD     DD  DUMMY                                               00000510
                              //M4NEW     DD  DSN=HOMC1.AP12.C5921.TB410501(+1),UNIT=TAPE9,       00000520
                              //              DISP=(NEW,CATLG,DELETE)                             00000530
                              //M4TRAN    DD  DSN=HOMC1.AP12.C5921.TMRNEW1,UNIT=TAPE9,            00000540
                              //            DISP=(OLD,KEEP)                                       00000550
                              //M4SUBF1   DD  DSN=HOMC1.AP12.C5921.TB410502(+1),UNIT=TAPE9,       00000560
                              //              DISP=(NEW,CATLG,DELETE)                             00000570
                              //M4SUBF2   DD DSN=HOMC1.AP12.C5921.TB410503(+1),UNIT=TAPE9,        00000580
                              //            DISP=(NEW,DELETE)                                     00000590
       ./ ENDUP
IEB817I MEMBER NAME (C5921B02) NOT FOUND IN NM DIRECTORY.  STOWED WITH TTR.
IEB818I HIGHEST CONDITION CODE WAS 00000009
IEB819I END OF JOB IEBUPDTE.
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SYSIN                                NEW MASTER                                IEBUPDTE LOG PAGE 0001

./ ADD  NAME=C5921B8A,LIST=ALL
./ NUMBER NEW1=10,INCR=10
                                     //C5921B8A  PROC                                                          00000010
                                     //DEFINE    EXEC  PGM=MARKIV,REGION=80K   DICTIONARY MAINTENANCE        00000020
                                     //M4LIB     DD  DSN=HQMC1.AP12.C5320.MK4LIB1,DISP=OLD                   00000030
                                     //M4LIST DD SYSOUT=A                                                      00000040
                                     //C5921B8A EXEC PGM=MARKIV,REGION=86K                                     00000050
                                     //STEPLIB   DD  DSN=SYS1.MARKIV,DISP=SHR                                  00000060
                                     //M4LIB     DD  DSN=HQMC1.AP12.C5320.MK4LIB1,DISP=OLD                   00000070
                                     //M4LIST    DD  SYSOUT=A                                                  00000080
                                     //M4REPO    DD  DSN=HQMC1.AP12.C5320.TB12.REPO,UNIT=2314,               00000090
                                     //              DISP=(NEW,PASS,DELETE),SPACE=(TRK,(5,5),RLSE),            00000100
                                     //              VOLUME=(,RETAIN)                                          00000110
                                     //M4SORT    DD  DUMMY                                                     00000120
                                     //M4OLD  DD  DSN=HQMC1.AP12.C5921.PB116001(0),                          00000130
                                     //           UNIT=TAPE9,DISP=OLD                                          00000140
                                     //M4NEW     DD DSN=HQMC1.AP12.C5921.PB116001(+1),                       00000150
                                     //           DISP=(NEW,CATLG,DELETE),UNIT=TAPE9                           00000160
                                     //M4SUBF6   DD  DSN=HQMC1.AP12.C5921.TB310602(+1),                      00000170
                                     //              DISP=(,CATLG,DELETE),UNIT=TAPE9                           00000180
./ ENDUP
IEB817I MEMBER NAME (C5921B8A) NOT FOUND IN NM DIRECTORY.  STOWED WITH TTR.
IEB818I HIGHEST CONDITION CODE WAS 00000000
IEB819I END OF JOB IEBUPDTE.
```

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SYSIN                                NEW MASTER                                IEBUPDTE LOG PAGE 0001

./ ADD  NAME=C5921888,LIST=ALL
./ NUMBER NEW1=10,INCR=10
                                     //C5921888  PROC                                                        00000010
                                     //DEFINE    EXEC  PGM=MARKIV,REGION=80K   DICTIONARY MAINTENANCE        00000020
                                     //STEPLIB   DD  DSN=SYS1.MARKIV,DISP=SHR                                00000030
                                     //M4LIB     DD  DSN=HOMC1.AP12.C5320.MK4LIB1,DISP=OLD                   00000040
                                     //M4LIST DD SYSOUT=A                                                    00000050
                                     //C5921888 EXEC PGM=MARKIV,REGION=86K                                   00000060
                                     //STEPLIB   DD  DSN=SYS1.MARKIV,DISP=SHR                                00000070
                                     //M4LIB     DD  DSN=HOMC1.AP12.C5320.MK4LIB1,DISP=OLD                   00000080
                                     //M4LIST    DD  SYSOUT=A                                                00000090
                                     //M4REPO    DD  DSN=HOMC1.AP12.C5320.TB12.REPO,UNIT=2314,               00000100
                                     //              DISP=(NEW,PASS,DELETE),SPACE=(TRK,(10,10),RLSE),        00000110
                                     //              VOLUME=(,RETAIN)                                        00000120
                                     //M4SORT    DD  DSN=&SORTCTL,UNIT=2314,SPACE=(TRK,1),                   00000130
                                     //              DISP=(,PASS)                                            00000140
                                     //M4OLD     DD  DSN=HOMC1.AP12.C5921.TB110601(0),DISP=OLD               00000150
                                     //M4NEW     DD  DSN=HOMC1.AP12.C5921.TB110601,DISP=(,PASS),             00000160
                                     //              UNIT=TAPE9                                              00000170
                                     //M4SUBF7   DD  DSN=&SUBF7,DISP=(,PASS),UNIT=TAPE9,                     00000180
                                     //              DCB=(RECFM=FB,LRECL=200,BLKSIZE=3600)                   00000190
                                     //RSORT     EXEC  PGM=IERRCOOO,REGION=86K                               00000200
                                     //SORTLIB   DD  DSN=SYS1.SORTLIB,DISP=SHR                               00000210
                                     //SORTIN    DD  DSN=HOMC1.AP12.C5320.TB12.REPO,DISP=(OLD,DELETE),       00000220
                                     //              DCB=(RECFM=VB,LRECL=2314,BLKSIZE=2046)                  00000230
                                     //SORTOUT   DD  DSN=&REPORT,UNIT=2314,SPACE=(TRK,(10,10),RLSE),         00000240
                                     //              DCB=(RECFM=VB,LRECL=2044,BLKSIZE=2046),                 00000250
                                     //              DISP=(NEW,PASS)                                         00000260
                                     //SYSIN     DD  DSN=&SORTCTL,DISP=(OLD,DELETE)                          00000270
                                     //SORTWKO1  DD  UNIT=SYSDA,SPACE=(TRK,(30),,CONTIG)                     00000280
                                     //SORTWKO2  DD  UNIT=SYSDA,SPACE=(TRK,(30),,CONTIG)                     00000290
                                     //SORTWKO3  DD  UNIT=SYSDA,SPACE=(TRK,(30),,CONTIG)                     00000300
                                     //SYSOUT    DD  SYSOUT=A                                                00000310
                                     //RLIST     EXEC  PGM=MARKIV,REGION=86K                                 00000320
                                     //STEPLIB   DD  DSN=SYS1.MARKIV,DISP=SHR                                00000330
                                     //M4LIB     DD  DSN=HOMC1.AP12.C5320.MK4LIB1,DISP=SHR                   00000340
                                     //M4LIST    DD  SYSOUT=A                                                00000350
                                     //M4REPI    DD  DSN=&REPORT,DISP=(OLD,DELETE),UNIT=2314,                00000360
                                     //              SPACE=(TRK,(10,10),RLSE)                                00000370
                                     //M4INPUT DD DSN=SYS1.SYSIMLIB(MK4LSTRC),DISP=SHR                       00000380
                                     //C5921888C EXEC   PGM=IERRCOOO,REGION=86K                              00000390
                                     //SYSOUT    DD  SYSOUT=A                                                00000400
                                     //SORTLIB   DD  DSN=SYS1.SORTLIB,DISP=SHR                               00000410
                                     //SORTIN    DD  DSN=&SUBF7,DISP=(OLD,DELETE),                           00000420
                                     //              DCB=(LRECL=200,BLKSIZE=3600,RECFM=FB)                   00000430
                                     //SORTWKO1  DD  UNIT=SYSDA,SPACE=(TRK,(30),,CONTIG)                     00000440
                                     //SORTWKO2  DD  UNIT=SYSDA,SPACE=(TRK,(30),,CONTIG)                     00000450
                                     //SORTWKO3  DD  UNIT=SYSDA,SPACE=(TRK,(30),,CONTIG)                     00000460
                                     //SORTOUT   DD  DSN=HOMC1.AP12.C5921.TB310603(+1),                      00000470
                                     //              DISP=(NEW,CATLG),UNIT=TAPE9,                            00000480
                                     //              DCB=(LRECL=200,BLKSIZE=3600,RECFM=FB)                   00000490
                                     //C5921888D EXEC PGM=IERRCOOO,REGION=86K                                00000500
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SYSIN                         NEW MASTER                                   IEBUPDTE LOG PAGE 0002

                              //STEPLIB DD DSN=HOMC1.AP8.TESTLOAD,DISP=SHR                       00000510
                              //SORTLIB  DD DSN=SYS1.SORTLIB,DISP=SHR                            00000520
                              //SORTIN01 DD DSN=HOMC1.AP12.C5921.TB310603(+1),                   00000530
                              //          DISP=(OLD,KEEP),UNIT=TAPE9,                            00000540
                              //          DCB=(LRECL=200,BLKSIZE=3600,RECFM=FB)                  00000550
                              //SORTI'02 DD DSN=HOMC1.AP12.C5921.TB410601,                       00000560
                              //          DISP=(OLD,DELETE),UNIT=TAPE9,                          00000570
                              //          DCB=(LRECL=200,BLKSIZE=3600,RECFM=FB)                  00000580
                              //SORTOUT DD DSN=HOMC1.AP12.C5921.PB116001(+1),                    00000590
                              //          DISP=(NEW,CATLG,DELETE),UNIT=TAPE9,                    00000600
                              //          DCB=(LRECL=200,BLKSIZE=3600,RECFM=FB)                  00000610
                              //SYSOUT   DD SYSOUT=A                                             00000620
                              //SYSUDUMP DD SYSOUT=A                                             00000630
    ./ ENDUP
IEB817I MEMBER NAME (C5921B8B) NOT FOUND IN NM DIRECTORY.  STOWED WITH TTR.
IEB818I HIGHEST CONDITION CODE WAS 00000000
IEB819I END OF JOB IEBUPDTE.
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SYSIN NEW MASTER IEBUPDTE LOG PAGE 0001

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./ ADD  NAME=C5921B6G,LIST=ALL
./ NUMBER NEW1=10,INCR=10
//C5921B6G  PROC                                                        00000010
//DEFINE    EXEC  PGM=MARKIV,REGION=80K   DICTIONARY MAINTENANCE       00000020
//STEPLIB   DD  DSN=SYS1.MARKIV,DISP=SHR                                00000030
//M4LIB     DD  DSN=HQMC1.AP12.C5320.MK4LIB1,DISP=OLD                   00000040
//M4LIST DD SYSOUT=A                                                    00000050
//C5921B6G EXEC PGM=MARKIV,REGION=86K                                   00000060
//STEPLIB   DD  DSN=SYS1.MARKIV,DISP=SHR                                00000070
//M4LIB     DD  DSN=HQMC1.AP12.C5320.MK4LIB1,DISP=OLD                   00000080
//M4LIST    DD  SYSOUT=A                                                00000090
//M4REPO    DD  DSN=HQMC1.AP12.C5921.TB12.REPO,UNIT=2314,               00000100
//              DISP=(NEW,PASS,DELETE),SPACE=(TRK,(10,10)),             00000110
//              VOLUME=(,RETAIN)                                        00000120
//M4SORT    DD  DSN=&SORTCTL,UNIT=2314,SPACE=(TRK,1),                   00000130
//            DISP=(,PASS)                                              00000140
//M4OLD  DD  DSN=HQMC1.AP12.C5921.PB116001(0),DISP=OLD                  00000150
//M4NEW     DD  DSN=HQMC1.AP12.C5921.TB410601,DISP=(,PASS),UNIT=TAPE9   00000160
//M4SUBF1   DD  DSN=&SUBF1,DISP=(,PASS),UNIT=2314,                      00000170
//    SPACE=(TRK,(10,10),RLSE)                                          00000180
//RSORT     EXEC PGM=IERRCOOO,REGION=86K                                00000190
//SORTLIB DD  DSN=SYS1.SORTLIB,DISP=SHR                                 00000200
//SORTIN    DD  DSN=HQMC1.AP12.C5921.TB12.REPO,DISP=(OLD,KEEP),         00000210
//            DCB=(RECFM=VB,LRECL=2044,BLKSIZE=2048)                    00000220
//SORTOUT DD  DSN=&REPORT,UNIT=2314,SPACE=(TRK,(10,10),RLSE),           00000230
//            DISP=(NEW,PASS),                                          00000240
//            DCB=(LRECL=2044,BLKSIZE=2048,RECFM=VB)                    00000250
//SYSIN     DD DSN=&SORTCTL,DISP=(OLD,DELETE)                           00000260
//SORTWK01  DD  UNIT=SYSDA,SPACE=(TRK,(30),,CONTIG)                     00000270
//SORTWK02  DD  UNIT=SYSDA,SPACE=(TRK,(30),,CONTIG)                     00000280
//SORTWK03  DD  UNIT=SYSDA,SPACE=(TRK,(30),,CONTIG)                     00000290
//SYSOUT    DD SYSOUT=A                                                 00000300
//RLIST      EXEC  PGM=MARKIV,REGION=86K                                00000310
//STEPLIB   DD  DSN=SYS1.MARKIV,DISP=SHR                                00000320
//M4LIB     DD  DSN=HQMC1.AP12.C5320.MK4LIB,DISP=SHR                    00000330
//M4LIST  DD  SYSOUT=A                                                  00000340
//M4REP1    DD  DSN=&REPORT,DISP=(OLD,DELETE),UNIT=2314,                00000350
//              SPACE=(TRK,(10,10),RLSE)                                00000360
//M41NPUT DD DSN=SYS1.SYSINL1B(MK4LSTRC),DISP=SHR                       00000370
//RSORT1    EXEC   PGM=IERRCOOO,REGION=86K                              00000380
//SORTLIB   DD  DSN=SYS1.SORTLIB,DISP=SHR                               00000390
//SORTIN    DD DSN=&SUBF1,DISP=(OLD,DELETE)                             00000400
//SORTWK01 DD  UNIT=SYSDA,SPACE=(TRK,(30),,CONTIG)                      00000410
//SORTWK02 DD  UNIT=SYSDA,SPACE=(TRK,(30),,CONTIG)                      00000420
//SORTWK03 DD  UNIT=SYSDA,SPACE=(TRK,(30),,CONTIG)                      00000430
//SORTOUT  DD DSN=HQMC1.AP12.C5921.TB310603(+1),DISP=(NEW,CATLG),       00000440
//              UNIT=TAPE9,                                             00000450
//                DCB=(LRECL=200,BLKSIZE=3600,RECFM=FB)                 00000460
//SYSOUT    DD SYSOUT=A                                                 00000470
//C5921B6H EXEC PGM=IERRCOOO,REGION=86K                                 00000480
//SORTLIB   DD DSN=SYS1.SORTLIB,DISP=SHR                                00000490
//SORTIN01 DD DSN=HQMC1.AP12.C5921.TB310603(+1),                        00000500
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SYSIN NEW MASTER IEBUPDTE LOG PAGE 0002

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//           DISP=(OLD,KEEP),UNIT=TAPE9,                              00000510
//             DCB=(LRECL=200,BLKSIZE=3600,RECFM=FB)                  00000520
//SORTIN02 DD DSN=HQMC1.AP12.C5921.TB410601,                          00000530
//           DISP=(OLD,DELETE),UNIT=TAPE9,                            00000540
//             DCB=(LRECL=200,BLKSIZE=3600,RECFM=FB)                  00000550
//SORTOUT DD DSN=HQMC1.AP12.C5921.FB116001(+1),                       00000560
//           DISP=(NEW,CATLG,DELETE),UNIT=TAPE9,                      00000570
//             DCB=(LRECL=200,BLKSIZE=3600,RECFM=FB)                  00000580
//SYSOUT   DD SYSOUT=A                                                00000590
//SYSUDUMP DD SYSOUT=A                                                00000600
./ ENDUP
IEB817I MEMBER NAME (C592188G) NOT FOUND IN NM DIRECTORY.  STOWED WITH TTR.
IEB818I HIGHEST CONDITION CODE WAS 00000000
IER819I END OF JOB IEBUPDTE.
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SYSIN                                NEW MASTER                                IEBUPDTE LOG PAGE 0001

./ REPL NAME=C5921011,LIST=ALL
./ NUMBER NEW1=10,INCR=10
                                     //C5921011  PROC                                                        00000010
                                     //*      ***** BILLET LINE TXS FROM FIELD *****                         00000020
                                     //C5921B2A EXEC PGM=C5320399,REGION=100K                                00000030
                                     //STEPLIB DD DSN=HQMC1.AP12.TSTLIB2,DISP=SHR                            00000040
                                     //SYS001 DD DSN=HQMC1.AP12.C5921.TB410901(0),DISP=OLD,                  00000050
                                     //    DCB=(RECFM=FB,LRECL=102,BLKSIZE=2100)                             00000060
                                     //SYS002 DD DSN=HQMC1.AP12.C5921.TB119901(+1),DISP=(,PASS),             00000070
                                     //      VOLUME=(,RETAIN),                                               00000080
                                     //    UNIT=TAPE9                                                        00000090
                                     //SYSOUT  DD  SYSOUT=A                                                  00000100
                                     //*      ***** SECTION MULTIPLES FROM FIELD *****                       00000110
                                     //C5921B2B EXEC PGM=IEBGENER                                            00000120
                                     //SYSPRINT DD SYSOUT=A                                                  00000130
                                     //SYSIN    DD DUMMY                                                     00000140
                                     //SYSUT2 DD DSN=HQMC1.AP12.C5921.TB119901(+1),DISP=(MOD,PASS),          00000150
                                     //    UNIT=TAPE9,                                                       00000160
                                     //      VOLUME=(,RETAIN),                                               00000170
                                     //    DCB=(RECFM=FB,LRECL=80,BLKSIZE=2400)                              00000180
                                     //SYSUT1 DD DSN=HQMC1.AP12.C5921.TB410902(0),DISP=OLD,                  00000190
                                     //    DCB=(RECFM=FB,LRECL=80,BLKSIZE=2400)                              00000200
                                     //*      *****  T/NR TRANSACTIONS *****                                 00000210
                                     //C5921B2C EXEC PGM=IEBGENER                                            00000220
                                     //SYSPRINT DD SYSOUT=A                                                  00000230
                                     //SYSIN    DD DUMMY                                                     00000240
                                     //SYSUT2 DD DSN=HQMC1.AP12.C5921.TB119901(+1),DISP=(MOD,PASS),          00000250
                                     //    UNIT=TAPE9,                                                       00000260
                                     //      VOLUME=(,RETAIN),                                               00000270
                                     //    DCB=(RECFM=FB,LRECL=80,BLKSIZE=2400)                              00000280
                                     //*      ***** SCRATCH DATE FILE *****                                  00000290
                                     //C5921B2D EXEC  PGM=IEHPROGM                                           00000300
                                     //SYSPRINT  DD SYSOUT=A                                                 00000310
                                     //DD2       DD UNIT=2314,VOLUME=SER=HQMC02,DISP=SHR                     00000320
                                     //*      ***** CREATE DATE FILE *****                                   00000330
                                     //C5921B2E EXEC PGM=IEBGENER                                            00000340
                                     //SYSPRINT DD SYSOUT=A                                                  00000350
                                     //SYSIN    DD DUMMY                                                     00000360
                                     //SYSUT2   DD DSN=HQMC1.AP12.C5320.TB222101,                            00000370
                                     //         UNIT=2314,DISP=(,CATLG),SPACE=(TRK,(1,1)),                   00000380
                                     //         DCB=(RECFM=FB,LRECL=80,BLKSIZE=80)                           00000390
                                     //*      ***** EDIT ALL T/NR TRANSACTIONS *****                         00000400
                                     //C5921B2F EXEC PGM=C5320B22,REGION=100K                                00000410
                                     //STEPLIB  DD DSN=HQMC1.AP12.TSTLIB2,DISP=SHR                           00000420
                                     //SYS001   DD DSN=HQMC1.AP12.C5320.TB222101,DISP=OLD                    00000430
                                     //SYS002 DD DSN=HQMC1.AP12.C5921.TB119901(+1),DISP=(OLD,CATLG)          00000440
                                     //SYS003 DD DSN=HQMC1.AP12.C5921.TB112202(+1),DISP=(,CATLG),            00000450
                                     //    UNIT=TAPE9,                                                       00000460
                                     //         DCB=(RECFM=FB,LRECL=108,BLKSIZE=2160)                        00000470
                                     //SYS004  DD  DUMMY                                                     00000480
                                     //SYS005 DD DSN=HQMC1.AP12.C5921.PB110401(0),DISP=SHR                   00000490
                                     //SYS006   DD DSN=HQMC1.AP12.C5230.PT32HTF,DISP=SHR                     00000500
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SYSIN NEW MASTER IEBUPDTE LOG PAGE 0002

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//SYS007 DD DSN=HQMC1.AP12.C5921.TB112201(+1),DISP=(,CATLG,DELETE),      00000310
//         DCB=(RECFM=FB,LRECL=108,BLKSIZE=2160),UNIT=2400               00000320
//SYS008 DD DSN=HQMC1.AP12.C5921.TB112203(+1),DISP=(,PASS),UNIT=TAPE9,   00000330
//      VOLUME=(,RETAIN),                                                00000340
//         DCB=(RECFM=FB,LRECL=108,BLKSIZE=2160)                         00000350
//SYSUDUMP DD SYSOUT=A                                                   00000360
//SYSPRINT DD SYSOUT=A                                                   00000370
//SYSOUT   DD SYSOUT=A                                                   00000380
//*      ***** SORT MLF TRANSACTIONS *****                               00000390
//C5921827  EXEC  PGM=IERRCOOO,REGION=88K                                00000400
//SORTIN DD DSN=HQMC1.AP12.C5921.TB112202(+1),DISP=OLD,                  00000410
//     UNIT=TAPE9,                                                       00000420
//     DCB=(LRECL=108,BLKSIZE=2160,RECFM=FB)                             00000430
//     DD DSN=HQMC1.AP12.C5921.TB214001(0),DISP=OLD,                     00000440
//     DCB=(LRECL=108,BLKSIZE=2160,RECFM=FB)                             00000450
//SORTOUT DD DSN=HQMC1.AP12.C5921.TB112701(+1),DISP=(,CATLG),            00000460
//   UNIT=TAPE9,                                                         00000470
//      VOLUME=(,RETAIN),                                                00000480
//      DCB=(RECFM=FB,LRECL=108,BLKSIZE=2160)                            00000490
//SYSOUT   DD  SYSOUT=A                                                  00000500
//SORTWK01  DD  UNIT=2314,SPACE=(CYL,20,,CONTIG)                         00000510
//SORTWK02  DD  UNIT=2314,SPACE=(CYL,20,,CONTIG)                         00000520
//SORTWK03  DD  UNIT=2314,SPACE=(CYL,20,,CONTIG)                         00000530
//SORTWK04  DD  UNIT=2314,SPACE=(CYL,20,,CONTIG)                         00000540
//SORTWK05  DD  UNIT=2314,SPACE=(CYL,20,,CONTIG)                         00000550
//SORTWK06  DD  UNIT=2314,SPACE=(CYL,20,,CONTIG)                         00000560
//SORTLIB  DD  DSN=SYS1.SORTLIB,DISP=SHR                                 00000570
//*      ***** AUDIT T/HR MLF TRANSACTIONS *****                         00000580
//C5921840 EXEC PGM=IEBUPDTE,REGION=100K                                 00000590
//SYSPLIB  DD  DSN=HQMC1.AP12.TATLIB2,DISP=SHR                           00000600
//SYS001 DD DSN=HQMC1.AP12.C5921.PB116001(0),DISP=OLD,                   00000610
//     UNIT=TAPE9,                                                       00000620
//  DCB=BUFNO=1                                                          00000630
//SYS002 DD DSN=HQMC1.AP12.C5921.TB112701(+1),                           00000640
//    DISP=OLD,DCB=BUFNO=1                                               00000650
//SYS003 DD DSN=HQMC1.AP12.C5921.TB214001(+1),UNIT=TAPE9,                00000660
//  DISP=(,CATLG,DELETE),                                                00000670
//    DCB=BUFNO=1                                                        00000680
//SYS004 DD DSN=HQMC1.AP12.C5921.TB112203(+1),UNIT=TAPE9,                00000690
//    DISP=(MOD,PASS),DCB=BUFNO=1                                        00000700
//SYS005 DD DSN=HQMC1.AP12.C5921.TB114002(+1),UNIT=TAPE9,                00000710
//     DISP=(,CATLG,DELETE),                                             00000720
//    DCB=BUFNO=1                                                        00000730
//SYSCQ6 DD DSN=&CHKLWORK,UNIT=2314,DISP=(,PASS),SPACE=(TRK,20),         00000740
//     DCB=BUFNO=1                                                       00000750
//SYS007 DD DSN=HQMC1.AP12.C5921.TB114004(+1),UNIT=TAPE9,                00000760
//    DISP=(,CATLG,DELETE),                                              00000770
//    DCB=BUFNO=1                                                        00000780
//SYS008 DD DSN=HQMC1.AP12.C5921.PB110401(0),DISP=SHR,                   00000790
//    DCB=BUFNO=1                                                        00000800
//SYS009  DD  DSN=HQMC1.AP12.C5920.TB222101,DISP=SHR,DCB=BUFNO=1         00001010
//SYS013 DD DSN=&CONTROL,DISP=(,PASS),UNIT=2314,SPACE=(TRK,20),          00001020
```

```
//   DCB=BUFNO=1
//SYSUDUMP DD SYSOUT=A
//SYSOUT  DD  SYSOUT=A
//*      ***** SORT TRANSACTION REGISTER REPORT RECORDS *****
//C5921B41 EXEC PGM=IERRCO00,REGION=100K
//SORTLIB  DD  DSN=SYS1.SORTLIB,DISP=SHR
//SORTIN DD DSN=HQMC1.AP12.C5921.TB112103(+1),DISP=(OLD,CATLG),
//    DCB=(RECFM=FB,LRECL=100,BLKSIZE=3100)
//SORTOUT DD DSN=&EDITRECS,DISP=(,PASS),UNIT=TAPE9,
//          DCB=(RECFM=FB,LRECL=100,BLKSIZE=3100)
//SORTWK01  DD  UNIT=2314,SPACE=(CYL,20,,CONTIG)
//SORTWK02  DD  UNIT=2314,SPACE=(CYL,20,,CONTIG)
//SORTWK03  DD  UNIT=2314,SPACE=(CYL,20,,CONTIG)
//SORTWK04  DD  UNIT=2314,SPACE=(CYL,20,,CONTIG)
//SORTWK05  DD  UNIT=2314,SPACE=(CYL,20,,CONTIG)
//SORTWK06  DD  UNIT=2314,SPACE=(CYL,20,,CONTIG)
//SYSOUT  DD  SYSOUT=A
//*     ***** CREATE T/WA TRANSACTION REGISTER *****
//C5921B42 EXEC PGM=MARKIV,REGION=130K
//STEPLIB  DD  DSN=SYS1.MARKIV,DISP=SHR
//M4LIB  DD  DSN=HQMC1.AP12.C5320.MK4LIB,DISP=SHR
//M4OLD DD DSN=&EDITRECS,DISP=(OLD,DELETE)
//M4REPO  DD  DSN=&REPORT,DISP=(NEW,PASS),UNIT=TAPE9
//M4SORT DD DSN=&SORTCTL,UNIT=2314,DISP=(,PASS),SPACE=(TRK,1)
//M4LIST  DD  SYSOUT=A
//*      ***** SORT TRANSACTION REGISTER REPORT FILE *****
//C5921B43  EXEC PGM=IERRCO00,PARM='CORE=MAX-6000',REGION=100K
//SYSUDUMP DD SYSOUT=A
//SYSIN      DD DSN=&SORTCTL,DISP=(OLD,DELETE)
//SORTIN     DD DSN=&REPORT,DISP=(OLD,DELETE),UNIT=TAPE9,
//              DCB=(LRECL=2044,BLKSIZE=2300,RECFM=VB)
//SORTOUT    DD DSN=&M4REPI,DISP=(NEW,PASS),UNIT=2314,
//              DCB=(LRECL=2044,BLKSIZE=2048,RECFM=VB),
//         SPACE=(CYL,(20,20),RLSE)
//SYSOUT     DD SYSOUT=A
//SORTWK01  DD  UNIT=2314,SPACE=(CYL,80,,CONTIG)
//SORTWK02  DD  UNIT=2314,SPACE=(CYL,80,,CONTIG),
//    SEP=SORTWK01
//SORTWK03  DD  UNIT=2314,SPACE=(CYL,80,,CONTIG),
//    SEP=(SORTWK01,SORTWK02)
//SORTLIB    DD DSN=SYS1.SORTLIB,DISP=SHR
//*     ***** PRINT TRANSACTION REGISTER *****
//C5921B44  EXEC PGM=MARKIV,REGION=86K
//STEPLIB  DD  DSN=SYS1.MARKIV,DISP=SHR
//M4LIB      DD DSN=HQMC1.AP12.C5320.MK4LIB,DISP=SHR
//M4LIST     DD SYSOUT=A
//M4REPI     DD DSN=&M4REPI,DISP=(OLD,DELETE),UNIT=2314
//M4INPUT DD DSN=SYS1.SYSINLIB(MK4LSTRC),DISP=SHR
//*      ***** SORT AGGREGATE FILE TRANSACTIONS *****
//C5921B45  EXEC  PGM=IERRCO00,REGION=86K
//SORTIN    DD  DSN=HQMC1.AP12.C5921.TB114004(+1),
//          UNIT=TAPE9,DISP=OLD,
```

SYSIN

NEW MASTER IEBUPDTE LOG PAGE 0004

```
//          DCB=(RECFM=FB,LRECL=80,BLKSIZE=4000)                          00001550
//SORTOUT  DD  DSN=&TB116002,DISP=(NEW,PASS),UNIT=TAPE9,                   00001560
//          DCB=(RECFM=FB,LRECL=80,BLKSIZE=1600)                          00001570
//SYSOUT   DD  SYSOUT=A                                                   00001580
//SORTWK01  DD  UNIT=2314,SPACE=(CYL,50,,CONTIG)                          00001590
//SORTWK02  DD  UNIT=2314,SPACE=(CYL,50,,CONTIG)                          00001600
//SORTWK03  DD  UNIT=2314,SPACE=(CYL,50,,CONTIG)                          00001610
//SORTWK04  DD  UNIT=2314,SPACE=(CYL,50,,CONTIG)                          00001620
//SORTWK05  DD  UNIT=2314,SPACE=(CYL,50,,CONTIG)                          00001630
//SORTWK06  DD  UNIT=2314,SPACE=(CYL,50,,CONTIG)                          00001640
//SORTLIB  DD  DSN=SYS1.SORTLIB,DISP=SHR                                  00001650
//*      ***** CREATE WEEKLY T/HR AGGREGATE FILE *****                    00001660
//C5921869 EXEC PGM=MARKIV,REGION=100K                                    00001670
//STEPLIB  DD  DSN=SYS1.MARKIV,DISP=SHR                                   00001680
//M4LIB    DD   DSN=HQMC1.AP12.C5320.MK4LIB,DISP=SHR                      00001690
//M4OLD    DD DUMMY                                                       00001700
//M4NEW    DD DSN=HQMC1.AP12.C5921.TB216502(+1),                          00001710
//            UNIT=TAPE9,DISP=(,CATLG,DELETE),                            00001720
//            DCB=(RECFM=FB,LRECL=929,BLKSIZE=8468)                       00001730
//M4TRAN   DD DSN=&TB116002,DISP=(OLD,DELETE),UNIT=TAPE9                  00001740
//M4LIST   DD   SYSOUT=A                                                  00001750
//*      ***** SORT BILLET LINE DETAIL REPORT RECORDS *****               00001760
//C5921873  EXEC  PGM=IERRCOOO,REGION=86K                                 00001770
//SORTIN   DD DSN=HQMC1.AP12.C5921.TB116002(+1),                          00001780
//            UNIT=TAPE9,                                                 00001790
//            DISP=OLD,                                                   00001800
//            DCB=(RECFM=FB,LRECL=210,BLKSIZE=3570)                       00001810
//SORTOUT  DD DSN=&TEMP,                                                  00001820
//            DISP=(,PASS),                                               00001830
//            UNIT=TAPE9,                                                 00001840
//            DCB=(RECFM=FB,LRECL=210,BLKSIZE=4200)                       00001850
//SYSOUT   DD  SYSOUT=A                                                   00001860
//SORTWK01  DD  UNIT=2314,SPACE=(CYL,50,,CONTIG)                          00001870
//SORTWK02  DD  UNIT=2314,SPACE=(CYL,50,,CONTIG)                          00001880
//SORTWK03  DD  UNIT=2314,SPACE=(CYL,50,,CONTIG)                          00001890
//SORTWK04  DD  UNIT=2314,SPACE=(CYL,50,,CONTIG)                          00001900
//SORTWK05  DD  UNIT=2314,SPACE=(CYL,50,,CONTIG)                          00001910
//SORTWK06  DD  UNIT=2314,SPACE=(CYL,50,,CONTIG)                          00001920
//SORTLIB  DD  DSN=SYS1.SORTLIB,DISP=SHR                                  00001930
//*      ***** GENERAL REPORTER *****                                     00001940
//C5921876 EXEC PGM=C5320B76,REGION=100K                                  00001950
//STEPLIB  DD DSN=HQMC1.AP12.TSTLIB2,DISP=SHR                             00001960
//SYSPRINT  DD SYSOUT=A                                                   00001970
//SY3001   DD DSN=&TEMP,DISP=(OLD,DELETE),UNIT=TAPE9                     00001980
//SYS002   DD DSN=HQMC1.AP12.C5921.TB216502(+1),DISP=OLD,UNIT=TAPE9      00001990
//SYS003   DD DSN=HQMC1.AP12.C5921.TB316401(0),DISP=OLD,UNIT=2314        00002000
//SYS004   DD DSN=HQMC1.AP12.C5921.TB110401(0),DISP=OLD                  00002010
//SYS005   DD DSN=HQMC1.AP12.C5320.TB222101,DISP=SHR,UNIT=2314           00002020
//SYS006   DD DSN=HQMC1.AP12.C5921.TB115002(0),DISP=OLD                  00002030
//SYS007   DD DSN=HQMC1.AP12.C5921.TB317401(+1),                         00002040
//            DCB=(RECFM=F,LRECL=132),VOL=(,,,10),                        00002050
//            DISP=(,CATLG),UNIT=TAPE9                                    00002060
```

```
//SYS008   DD DSN=HQMC1.AP12.C5921.TB317602(+1),                    00002070
//         DCB=(RECFM=F,LRECL=132),VOL=(,,,10),                     00002080
//         DISP=(,CATLG),UNIT=TAPE9                                 00002090
//SYS009   DD DSN=HQMC1.AP12.C5921.TB317603(+1),                    00002100
//         DCB=(RECFM=F,LRECL=132),VOL=(,,,10),                     00002110
//         DISP=(,CATLG),UNIT=TAPE9                                 00002120
//SYS010 DD DUMMY                                                   00002130
//SYSUDUMP DD SYSOUT=A                                              00002140
//*     ***** PRINT BILLET LINE DETAIL, RECAP CHECKLISYS *****      00002150
//C5921877 EXEC PGM=IEBGENER,REGION=86K                             00002160
//SYSPRINT  DD  SYSOUT=A                                            00002170
//SYSUT1 DD DSN=HQMC1.AP12.C5921.TB317603(+1),DISP=OLD,             00002180
//         UNIT=TAPE9,                                              00002190
//   DCB=(RECFM=F,LRECL=132)                                        00002200
//SYSUT2 DD SYSOUT=A,DCB=(RECFM=FA,LRECL=132)                       00002210
//SYSIN DD DUMMY                                                    00002220
//*     ***** PRINT HARD COPY BILLET LINE DETAIL *****              00002230
//C5921878 EXEC PGM=IEBGENER,REGION=86K                             00002240
//SYSPRINT  DD  SYSOUT=A                                            00002250
//SYSUT1 DD DSN=HQMC1.AP12.C5921.TB317602(+1),DISP=OLD,             00002260
//         UNIT=TAPE9,                                              00002270
//   DCB=(RECFM=F,LRECL=132)                                        00002280
//SYSUT2 DD SYSOUT=(J,,714),DCB=(RECFM=FA,LRECL=132)                00002290
//SYSIN    DD DUMMY                                                 00002300
//*     ***** PRINT HARD COPY RECAPS *****                          00002310
//C5921879 EXEC PGM=IEBGENER,REGION=86K                             00002320
//SYSPRINT  DD  SYSOUT=A                                            00002330
//SYSUT1 DD DSN=HQMC1.AP12.C5921.TB317601(+1),DISP=OLD,             00002340
//         UNIT=TAPE9,                                              00002350
//   DCB=(RECFM=F,LRECL=132)                                        00002360
//SYSUT2 DD SYSOUT=(J,,710),DCB=(RECFM=FA,LRECL=132)                00002370
//SYSIN    DD DUMMY                                                 00002380
./ ENDUP
IEB816I MEMBER NAME (C5921811) FOUND IN NM DIRECTORY. TTR IS NOW ALTERED.
IEB816I HIGHEST CONDITION CODE WAS 00000000
IEB819I END OF JOB IEBUPDTE.
```

SYSIN NEW MASTER IEBUPDTE LOG PAGE 0001

```
./ ADD  NAME=C5921B12,LIST=ALL
./ NUMBER NEW1=10,INCR=10
//C5921B12  PROC                                                        00000010
//*      ***** SORT UNIT FILE TRANSACTIONS *****                        00000020
//C5921B46  EXEC  PGM=IERRCOOO,REGION=86K                               00000030
//SORTIN DD DSN=HQMC1.AP12.C5921.TB112201(0),DISP=OLD,                  00000040
//     DCB=(LRECL=108,BLKSIZE=2160,RECFM=FB)                            00000050
//SORTOUT DD DSN=HQMC1.AP12.C5921.TB112501(+1),DISP=(,CATLG),           00000060
//    UNIT=TAPE9,                                                       00000070
//     DCB=(RECFM=FB,LRECL=108,BLKSIZE=2160)                            00000080
//SYSOUT  DD  SYSOUT=A                                                  00000090
//SORTWK01  DD  UNIT=2314,SPACE=(CYL,20,,CONTIG)                        00000100
//SORTWK02  DD  UNIT=2314,SPACE=(CYL,20,,CONTIG)                        00000110
//SORTWK03  DD  UNIT=2314,SPACE=(CYL,20,,CONTIG)                        00000120
//SORTWK04  DD  UNIT=2314,SPACE=(CYL,20,,CONTIG)                        00000130
//SORTWK05  DD  UNIT=2314,SPACE=(CYL,20,,CONTIG)                        00000140
//SORTWK06  DD  UNIT=2314,SPACE=(CYL,20,,CONTIG)                        00000150
//SORTLIB  DD  DSN=SYS1.SORTLIB,DISP=SHR                                00000160
//*      *****  UNIT FILE UPDATE  *****                                 00000170
//C5920B8D  EXEC PGM=MARKIV,REGION=100K                                 00000180
//SYSPRINT  DD  DSN=SYS1.MARKIV,DISP=SHR                                00000190
//M4LIB     DD  DSN=HQMC1.AP12.C5320.MK4LIB1,DISP=SHR                   00000200
//M4LIST    DD  SYSOUT=A                                                00000210
//M4OLD DD DSN=HQMC1.AP12.C5921.PB115001(0),DISP=OLD                    00000220
//M4NEW DD DSN=HQMC1.AP12.C5921.PB115001(+1),DISP=(,CATLG,DELETE),      00000230
//    UNIT=2400                                                         00000240
//M4REPT    DD  DSN=&REPORT,DISP=(NEW,PASS),UNIT=2314,                  00000250
//     SPACE=(TRK,(10,10),RLSE)                                         00000260
//M4SORT    DD DSN=&SORTCTL,DISP=(NEW,PASS,DELETE),                     00000270
//              UNIT=2314,SPACE=(TRK,1)                                 00000280
//M4SUBF1 DD DSN=HQMC1.AP12.C5921.TB115002(+1),UNIT=TAPE9,              00000290
//     DISP=(,CATLG,DELETE)                                             00000300
//M4SUBF2  DD  DSN=HQMC1.AP12.C5320.PBCORL(+1),UNIT=TAPE9,              00000310
//    DISP=(,CATLG,DELETE)                                              00000320
//M4TRAN DD DSN=HQMC1.AP12.C5921.TB112501(+1),DISP=OLD                  00000330
//*      ***** SORT PEN-T/MR FILE *****                                 00000340
//RSORT     EXEC PGM=IERRCOOO,REGION=86K                                00000350
//SORTLIB   DD  DSN=SYS1.SORTLIB,DISP=SHR                               00000360
//SORTIN DD DSN=HQMC1.AP12.C5921.TB115002(+1),DISP=OLD,                 00000370
//    DCB=(RECFM=FB,LRECL=80,BLKSIZE=6800)                              00000380
//SORTOUT DD DSN=HQMC1.AP12.C5921.TB115002(+2),DISP=(,CATLG,DELETE),    00000390
//    UNIT=TAPE9,                                                       00000400
//    DCB=(RECFM=FB,LRECL=80,BLKSIZE=6800)                              00000410
//SORTWK01 DD  UNIT=SYSDA,SPACE=(CYL,20,,CONTIG)                        00000420
//SORTWK02 DD  UNIT=SYSDA,SPACE=(CYL,20,,CONTIG)                        00000430
//SORTWK03 DD  UNIT=SYSDA,SPACE=(CYL,20,,CONTIG)                        00000440
//SORTWK04 DD  UNIT=SYSDA,SPACE=(CYL,20,,CONTIG)                        00000450
//SORTWK05 DD  UNIT=SYSDA,SPACE=(CYL,20,,CONTIG)                        00000460
//SORTWK06 DD  UNIT=SYSDA,SPACE=(CYL,20,,CONTIG)                        00000470
//SYSOUT  DD  SYSOUT=A                                                  00000480
//*      *****  UNIT FILE REPORTS  *****                                00000490
//C5921B51 EXEC PGM=MARKIV,REGION=100K                                  00000500
```

```
//STEPLIB  DD  DSN=SYS1.MARKIV,DISP=SHR                                 00000510
//M4LIB     DD DSN=HQMC1.AP12.C5320.MK4LIB1,DISP=SHR                   00000520
//M4LIST    DD SYSOUT=A                                                00000530
//M4OLD DD DSN=HQMC1.AP12.C5921.PB115001(+1),DISP=OLD                  00000540
//M4REPO    DD DSN=&REPORT,DISP=(NEW,PASS),UNIT=2314,                  00000550
//    SPACE=(CYL,(20,20),RLSE)                                         00000560
//M4SORT    DD DSN=&SORTCTL,DISP=(NEW,PASS,DELETE),                    00000570
//             UNIT=2314,SPACE=(TRK,1)                                 00000580
//*     ***** SORT UNIT FILE REPORTS *****                             00000590
//RSORT     EXEC PGM=IERRCOOO,REGION=86K                               00000600
//SYSIN     DD DSN=&SORTCTL,DISP=(OLD,DELETE)                          00000610
//SORTIN    DD DSN=&REPORT,DISP=(OLD,DELETE),UNIT=2314,                00000620
//             DCB=(LRECL=2044,BLKSIZE=2048,RECFM=VB)                  00000630
//SORTOUT   DD DSN=&M4REPI,DISP=(NEW,PASS),UNIT=2314,                  00000640
//             DCB=(LRECL=2044,BLKSIZE=2048,RECFM=VB),                 00000650
//    SPACE=(CYL,(20,20),RLSE)                                         00000660
//SYSOUT    DD SYSOUT=A                                                00000670
//SORTWK01  DD UNIT=2314,SPACE=(CYL,20,,CONTIG)                        00000680
//SORTWK02  DD UNIT=2314,SPACE=(CYL,20,,CONTIG)                        00000690
//SORTWK03  DD UNIT=2314,SPACE=(CYL,20,,CONTIG)                        00000700
//SORTWK04  DD UNIT=2314,SPACE=(CYL,20,,CONTIG)                        00000710
//SORTLIB   DD DSN=SYS1.SORTLIB,DISP=SHR                               00000720
//*     *****  PRINT UNIT FILE REPORTS *****                           00000730
//RLIST     EXEC PGM=MARKIV,REGION=86K                                 00000740
//STEPLIB  DD  DSN=SYS1.MARKIV,DISP=SHR                                00000750
//M4LIB     DD DSN=HQMC1.AP12.C5320.MK4LIB,DISP=SHR                    00000760
//M4LIST    DD SYSOUT=A                                                00000770
//M4REPI    DD DSN=&M4REPI,DISP=(OLD,DELETE),UNIT=2314                 00000780
//M4INPUT DD DSN=SYS1.SYSINLIB(MK4LSTRC),DISP=SHR                      00000790
./ ENDUP
IEB017I MEMBER NAME (C5921B12) NOT FOUND IN NM DIRECTORY.  STOWED WITH TTR.
IEB818I HIGHEST CONDITION CODE WAS 00000000
IEB819I END OF JOB IEBUPDTE.
```

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SYSIN                                      NEW MASTER                                     IEBUPDTE LOG PAGE 0001

./ REPL NAME=C5921B21,LIST=ALL
./ NUMBER NEW1=10,INCR=10
                          //C5921B21  PROC                                                           00000010
                          //C5320B6C EXEC PGM=C5320B60,REGION=100K      ALTERNATES W/C5921B61        00000020
                          //STEPLIB  DD  DSN=HQMC1.AP12.TSTLIB2,DISP=SHR                             00000030
                          //SYS001 DD DSN=HQMC1.AP12.C5921.PB116001(0),DISP=OLD,                     00000040
                          //     UNIT=TAPE9,                                                         00000050
                          //    DCB=(LRECL=200,BLKSIZE=3600,RECFM=FB)                                00000060
                          //SYS002 DD DSN=HQMC1.AP12.C5921.TB214001(0),DISP=OLD                      00000070
                          //SYS005 DD DSN=HQMC1.AP12.C5921.TB116003(+1),UNIT=TAPE9,DISP=(,CATLG),    00000080
                          //    DCB=BUFNO=1                                                          00000090
                          //SYS006 DD DSN=HQMC1.AP12.C5921.TB116007(+1),DISP=(,CATLG,DELETE),        00000100
                          //      UNIT=TAPE9,DCB=BUFNO=1                                             00000110
                          //SYS007 DD DSN=HQMC1.AP12.C5921.TB116002(+1),UNIT=TAPE9,DISP=(,CATLG),    00000120
                          //    DCB=BUFNO=1                                                          00000130
                          //SYS008 DD DSN=HQMC1.AP12.C5921.PB110401(0),DISP=SHR,                     00000140
                          //    DCB=BUFNO=1                                                          00000150
                          //SYS009  DD  DSN=HQMC1.AP12.C5320.TB222101,DISP=SHR                       00000160
                          //SYS010 DD DSN=HQMC1.AP12.C5921.PB116001(+1),UNIT=TAPE9,                  00000170
                          //          DISP=(,CATLG,DELETE),                                          00000180
                          //    DCB=BUFNO=1      NEW MASTER LINE FILE                                00000190
                          //SYS011 DD DSN=HQMC1.AP12.C5921.TB116004(+1),UNIT=2314,DISP=(,CATLG),     00000200
                          //     SPACE=(TRK,(20,20),RLSE),DCB=BUFNO=1                                00000210
                          //SYS012 DD DSN=HQMC1.AP12.C5921.TB116005(+1),UNIT=2314,DISP=(,CATLG),     00000220
                          //     SPACE=(TRK,(20,20),RLSE),DCB=BUFNO=1                                00000230
                          //SYS013  DD  DSN=HQMC1.AP12.C5921.TB116009(+1),DISP=(,CATLG,DELETE),      00000240
                          //    DCB=BUFNO=1,LABEL=(,SL),                                             00000250
                          //    UNIT=2314,SPACE=(TRK,(10,10),RLSE)                                   00000260
                          //SYS014 DD DSN=HQMC1.AP12.C5921.TB116008(+1),UNIT=2314,                   00000270
                          //      DCB=BUFNO=1,                                                       00000280
                          //     DISP=(,CATLG,DELETE),SPACE=(TRK,(30,30),RLSE)                       00000290
                          //SYSUDUMP DD SYSOUT=A                                                     00000300
                          //SYSOUT   DD  SYSOUT=A                                                    00000310
                          //STEP2     EXEC PGM=IERRC000,REGION=100K                                  00000320
                          //SYSOUT    DD SYSOUT=A                                                    00000330
                          //SORTLIB   DD DSN=SYS1.SORTLIB,DISP=SHR                                   00000340
                          //SORTIN DD DSN=HQMC1.AP12.C5921.TB116009(+1),DISP=OLD,                    00000350
                          //    UNIT=2314,DCB=(BLKSIZE=80,LRECL=80,RECFM=F)                          00000360
                          //SORTOUT   DD DSN=&SORTCHG,UNIT=2314,DISP=(,PASS),                        00000370
                          //          DCB=(LRECL=80,BLKSIZE=800,RECFM=FB),SPACE=(TRK,(10,5),RLSE)    00000380
                          //SORTWK01 DD UNIT=SYSDA,SPACE=(TRK,(30),,CONTIG)                          00000390
                          //SORTWK02 DD UNIT=SYSDA,SPACE=(TRK,(30),,CONTIG)                          00000400
                          //SORTWK03 DD UNIT=SYSDA,SPACE=(TRK,(30),,CONTIG)                          00000410
                          //STEP3     EXEC PGM=IEBPTPCH                                              00000420
                          //SYSPRINT DD SYSOUT=A                                                     00000430
                          //SYSUT1    DD DSN=&SORTCHG,DISP=(OLD,PASS)                                00000440
                          //SYSUT2    DD SYSOUT=A                                                    00000450
                          //STEP4     EXEC PGM=C5921B17                                              00000460
                          //STEPLIB   DD DSN=HQMC1.AP12.TSTLIB2,DISP=SHR                             00000470
                          //SYSUDUMP  DD SYSOUT=A                                                    00000480
                          //SYS001    DD DSN=&SORTCHG,DISP=(OLD,DELETE)                              00000490
                          //SYS002    DD DSN=HQMC1.AP12.C5921.PB110401(0),                           00000500
```

SYSIN NEW MASTER IEBUPDTE LOG PAGE 0002

```
//          UNIT=2314,SPACE=(TRK,(10,10),RLSE),                          00000510
//          DISP=(OLD,KEEP),DCB=(BLKSIZE=3200,LRECL=80,RECFM=FB)         00000520
//SYS003    DD DSN=HQMC1.AP12.C5921.PB110401(+1),                        00000530
//          UNIT=2314,DISP=(,CATLG,DELETE),                              00000540
//    SPACE=(TRK,(20,10),RLSE),                                          00000550
//          DCB=(BLKSIZE=3200,LRECL=80,RECFM=FB)                         00000560
//SYS004    DD  DSN=&TBLSERR,DISP=(,PASS),UNIT=2314,                     00000570
//          DCB=(LRECL=40,BLKSIZE=400,RECFM=FB),SPACE=(TRK,(5,5),RLSE)   00000580
//STEP5     EXEC PGM=IEBPTPCH                                            00000590
//SYSPRINT  DD SYSOUT=A                                                  00000600
//SYSUT1    DD DSN=HQMC1.AP12.C5921.PB110401(+1),DISP=OLD                00000610
//SYSUT2    DD SYSOUT=A                                                  00000620
//STEP6     EXEC PGM=IEBPTPCH                                            00000630
//SYSPRINT  DD SYSOUT=A                                                  00000640
//SYSUT1    DD DSN=&TBLSERR,DISP=(OLD,DELETE)                            00000650
//SYSUT2    DD SYSOUT=A                                                  00000660
//C5921845  EXEC  PGM=IERRCOOO,REGION=86K                                00000670
//SORTIN    DD  DSN=HQMC1.AP12.C5921.TB116002(+1),                       00000680
//          UNIT=TAPE9,DISP=OLD,                                         00000690
//           DCB=(RECFM=FB,LRECL=80,BLKSIZE=4000)                        00000700
//SORTOUT   DD  DSN=&TB116002,DISP=(NEW,PASS),UNIT=TAPE9,                00000710
//           DCB=(RECFM=FB,LRECL=80,BLKSIZE=1600)                        00000720
//SYSOUT    DD  SYSOUT=A                                                 00000730
//SORTWK01  DD  UNIT=2314,SPACE=(CYL,50,,CONTIG)                         00000740
//SORTWK02  DD  UNIT=2314,SPACE=(CYL,50,,CONTIG)                         00000750
//SORTWK03  DD  UNIT=2314,SPACE=(CYL,50,,CONTIG)                         00000760
//SORTWK04  DD  UNIT=2314,SPACE=(CYL,50,,CONTIG)                         00000770
//SORTWK05  DD  UNIT=2314,SPACE=(CYL,50,,CONTIG)                         00000780
//SORTWK06  DD  UNIT=2314,SPACE=(CYL,50,,CONTIG)                         00000790
//SORTLIB   DD  DSN=SYS1.SORTLIB,DISP=SHR                                00000800
//C5921865  EXEC PGM=HARKIV,REGION=100K                                  00000810
//STEPLIB   DD  DSN=SYS1.HARKIV,DISP=SHR                                 00000820
//M4LIB     DD  DSN=HQMC1.AP12.C5320.MK4LIB1,DISP=SHR                    00000830
//M4OLD     DD DUMMY                                                     00000840
//M4NEW     DD DSN=HQMC1.AP12.C5921.PB216301(+1),                        00000850
//          UNIT=TAPE9,DISP=(,CATLG,DELETE),                             00000860
//           DCB=(RECFM=FB,LRECL=928,BLKSIZE=6496)                       00000870
//M4TRAN    DD DSN=&TB116002,DISP=(OLD,DELETE),UNIT=TAPE9                00000880
//M4LIST    DD  SYSOUT=A                                                 00000890
//C5921861  EXEC PGM=IERRCOOO,REGION=86K                                 00000900
//SORTLIB   DD DSN=SYS1.SORTLIB,DISP=SHR                                 00000910
//SORTIN    DD DSN=HQMC1.AP12.C5921.TB116008(+1),DISP=OLD,               00000920
//          DCB=(RECFM=FB,LRECL=18,BLKSIZE=3600)                         00000930
//SORTOUT   DD DSN=HQMC1.AP12.C5921.TB116101(+1),                        00000940
//          UNIT=2314,                                                   00000950
//          SPACE=(TRK,(100,50),RLSE),                                   00000960
//          DISP=(NEW,CATLG,DELETE),                                     00000970
//          DCB=(RECFM=FB,LRECL=18,BLKSIZE=3600)                         00000980
//SYSOUT    DD SYSOUT=A                                                  00000990
//SORTWK01  DD UNIT=2314,SPACE=(CYL,10,,CONTIG)                          00001000
//SORTWK02  DD UNIT=2314,SPACE=(CYL,10,,CONTIG)                          00001010
//SORTWK03  DD UNIT=2314,SPACE=(CYL,10,,CONTIG)                          00001020
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SYSIN NEW MASTER IEBUPDTE LOG PAGE 0003

```
//C5921852 EXEC PGM=MARKIV,REGION=100K                                  00001030
//STEPLIB  DD  DSN=SYS1.MARKIV,DISP=SHR                                 00001040
//M4LIB    DD  DSN=HQMC1.AP12.C5320.MK4LIB1,DISP=SHR                    00001050
//M4OLD    DD DSN=HQMC1.AP12.C5921.PB115001(0),DISP=OLD,UNIT=TAPE9      00001060
//M4CORD1  DD DSN=HQMC1.AP12.C5921.TB116101(+1),DISP=(OLD,DELETE,KEEP)  00001070
//M4SUBF1  DD DSN=&TB115005,DISP=(NEW,PASS),UNIT=2314,                  00001080
//           SPACE=(TRK,(100,50),RLSE),                                 00001090
//           DCB=(RECFM=FB,LRECL=20,BLKSIZE=1600)                       00001100
//M4LIST   DD SYSOUT=A                                                  00001110
//RSORT    EXEC PGM=IERRCOOO,REGION=86K                                 00001120
//SORTLIB  DD DSN=SYS1.SORTLIB,DISP=SHR                                 00001130
//SORTIN   DD DSN=&TB115005,DISP=(OLD,DELETE),UNIT=2314                 00001140
//SORTOUT  DD DSN=HQMC1.AP12.C5921.TB115201(+1),DISP=(,CATLG,DELETE),   00001150
//           UNIT=TAPE9,                                                00001160
//           DCB=(RECFM=FB,LRECL=20,BLKSIZE=1600)                       00001170
//SYSOUT   DD SYSOUT=A                                                  00001180
//SORTWK01  DD UNIT=2314,SPACE=(CYL,10,,CONTIG)                         00001190
//SORTWK02  DD UNIT=2314,SPACE=(CYL,10,,CONTIG)                         00001200
//SORTWK03  DD UNIT=2314,SPACE=(CYL,10,,CONTIG)                         00001210
//C5921863 EXEC PGM=IERRCOOO,REGION=86K                                 00001220
//SORTIN   DD DSN=HQMC1.AP12.C5921.TB116004(+1),DISP=OLD,UNIT=2314,     00001230
//           DCB=(RECFM=FB,LRECL=18,BLKSIZE=3600)                       00001240
//SORTOUT  DD DSN=&TB116004,DISP=(NEW,PASS),                            00001250
//           UNIT=2314,                                                 00001260
//           SPACE=(TRK,(100,50),RLSE),                                 00001270
//           DCB=(RECFM=FB,LRECL=18,BLKSIZE=3600)                       00001280
//SYSOUT   DD SYSOUT=A                                                  00001290
//SORTWK01 DD UNIT=2314,SPACE=(CYL,20,,CONTIG)                          00001300
//SORTWK02 DD UNIT=2314,SPACE=(CYL,20,,CONTIG)                          00001310
//SORTWK03 DD UNIT=2314,SPACE=(CYL,20,,CONTIG)                          00001320
//SORTLIB  DD DSN=SYS1.SORTLIB,DISP=SHR                                 00001330
//C5921864 EXEC PGM=MARKIV,REGION=100K                                  00001340
//STEPLIB  DD  DSN=SYS1.MARKIV,DISP=SHR                                 00001350
//M4LIB    DD  DSN=HQMC1.AP12.C5320.MK4LIB1,DISP=SHR                    00001360
//M4OLD    DD   DUMMY                                                   00001370
//M4NEW    DD DSN=HQMC1.AP12.C5921.TB316401(+1),                        00001380
//           UNIT=2314,SPACE=(TRK,(100,10),RLSE),DISP=(,CATLG,DELETE),  00001390
//           DCB=(RECFM=FB,LRECL=49,BLKSIZE=490)                        00001400
//M4TRAN   DD DSN=&TB116004,DISP=(OLD,DELETE),UNIT=2314                 00001410
//M4LIST   DD   SYSOUT=A                                                00001420
//C5921871  EXEC PGM=MARKIV,REGION=100K                                 00001430
//STEPLIB  DD  DSN=SYS1.MARKIV,DISP=SHR                                 00001440
//M4LIB    DD  DSN=HQMC1.AP12.C5320.MK4LIB1,DISP=SHR                    00001450
//M4OLD DD DSN=HQMC1.AP12.C5921.PB115001(0),DISP=OLD                    00001460
//M4CORD1 DD DSN=HQMC1.AP12.C5921.PB116001(+1),DISP=OLD                 00001470
//M4SUBF2 DD DSN=HQMC1.AP12.C5921.TB217101(+1),DISP=(,CATLG,DELETE),    00001480
//    UNIT=TAPE9                                                        00001490
//M4REPO   DD  DSN=&REPORT,DISP=(NEW,PASS),UNIT=2314,                   00001500
//           SPACE=(CYL,(50,50),RLSE)                                   00001510
//M4SORT   DD  DSN=&SORTCTL,DISP=(NEW,PASS,DELETE),                     00001520
//    UNIT=2314,SPACE=(TRK,1)                                           00001530
//M4LIST   DD  SYSOUT=A                                                 00001540
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//RSORT     EXEC PGM=IERRCOOO,REGION=86K                                  00001550
//SYSIN     DD DSN=&SORTCTL,DISP=(OLD,DELETE)                             00001560
//SORTIN    DD DSN=&REPORT,DISP=(OLD,DELETE),UNIT=2314,                   00001570
//              DCB=(LRECL=2044,BLKSIZE=2048,RECFM=VB)                    00001580
//SORTOUT   DD DSN=&M4REPI,DISP=(NEW,PASS),UNIT=2314,                     00001590
//              DCB=(LRECL=2044,BLKSIZE=2048,RECFM=VB),                   00001600
//       SPACE=(TRK,(50,50),RLSE)                                         00001610
//SYSOUT    DD SYSOUT=A                                                   00001620
//SORTWK01  DD  UNIT=2314,SPACE=(TRK,80,,CONTIG)                          00001630
//SORTWK02  DD  UNIT=2314,SPACE=(TRK,80,,CONTIG)                          00001640
//SORTWK03  DD  UNIT=2314,SPACE=(TRK,80,,CONTIG)                          00001650
//SORTWK04  DD  UNIT=2314,SPACE=(TRK,80,,CONTIG)                          00001660
//SORTWK05  DD  UNIT=2314,SPACE=(TRK,80,,CONTIG)                          00001670
//SORTWK06  DD  UNIT=2314,SPACE=(TRK,80,,CONTIG)                          00001680
//SORTLIB   DD DSN=SYS1.SORTLIB,DISP=SHR                                  00001690
//RLIST     EXEC PGM=MARKIV,REGION=86K                                    00001700
//STEPLIB   DD  DSN=SYS1.MARKIV,DISP=SHR                                  00001710
//M4LIB     DD  DSN=HQMC1.AP12.C5320.MK4LIB1,DISP=SHR                     00001720
//M4LIST    DD SYSOUT=A                                                   00001730
//M4REPI    DD DSN=&M4REPI,DISP=(OLD,DELETE),UNIT=2314                    00001740
//M4INPUT DD DSN=SYS1.SYSINLIB(MK4LSTRC),DISP=SHR                         00001750
//C5921853 EXEC PGM=MARKIV,REGION=100K                                    00001760
//STEPLIB   DD  DSN=SYS1.MARKIV,DISP=SHR                                  00001770
//M4LIB     DD  DSN=HQMC1.AP12.C5320.MK4LIB1,DISP=SHR                     00001780
//M4OLD     DD DSN=HQMC1.AP12.C5921.PB116001(+1),DISP=OLD,UNIT=TAPE9      00001790
//M4SUBF1   DD DSN=HQMC1.AP12.C5921.TB216804(+1),                         00001800
//              UNIT=2314,SPACE=(TRK,(10,10),RLSE),DISP=(,CATLG,DELETE),  00001810
//              DCB=(RECFM=F,LRECL=80)                                    00001820
//M4SUBF2   DD DSN=&CGATITLE,DISP=(,PASS),UNIT=2314,                      00001830
//       SPACE=(TRK,(10,10),RLSE),DCB=(RECFM=F,LRECL=80)                  00001840
//M4LIST    DD    SYSOUT=A                                                00001850
//DEFINE    EXEC PGM=MARKIV,REGION=100K                                   00001860
//STEPLIB   DD  DSN=SYS1.MARKIV,DISP=SHR                                  00001870
//M4LIB     DD    DSN=HQMC1.AP12.C5320.MK4LIB1,DISP=SHR                   00001880
//M4LIST    DD    SYSOUT=A                                                00001890
//M4INPUT   DD DSN=&CGATITLE,UNIT=2314,DISP=(OLD,DELETE)                  00001900
//C5921875   EXEC   PGM=IERRCOOO,REGION=86K                               00001910
//SORTIN    DD DSN=HQMC1.AP12.C5921.TB116003(+1),                         00001920
//          UNIT=TAPE9,                                                   00001930
//          DISP=OLD,                                                     00001940
//          DCB=(RECFM=FB,LRECL=210,BLKSIZE=3570)                         00001950
//          DD DSN=HQMC1.AP12.C5921.TB217101(+1),                         00001960
//          DISP=OLD,                                                     00001970
//          UNIT=TAPE9,                                                   00001980
//          DCB=(RECFM=FB,LRECL=210,BLKSIZE=3570)                         00001990
//SORTOUT   DD DSN=&TEMP,                                                 00002000
//          DISP=(,PASS),                                                 00002010
//          UNIT=TAPE9,                                                   00002020
//          DCB=(RECFM=FB,LRECL=210,BLKSIZE=4200)                         00002030
//SYSOUT    DD  SYSOUT=A                                                  00002040
//SORTWK01  DD  UNIT=2314,SPACE=(CYL,50,,CONTIG)                          00002050
//SORTWK02  DD  UNIT=2314,SPACE=(CYL,50,,CONTIG)                          00002060
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//SORTWK03  DD  UNIT=2314,SPACE=(CYL,50,,CONTIG)                          00002070
//SORTWK04  DD  UNIT=2314,SPACE=(CYL,50,,CONTIG)                          00002080
//SORTWK05  DD  UNIT=2314,SPACE=(CYL,50,,CONTIG)                          00002090
//SORTWK06  DD  UNIT=2314,SPACE=(CYL,50,,CONTIG)                          00002100
//SORTLIB   DD  DSN=SYS1.SORTLIB,DISP=SHR                                 00002110
//C5921B76 EXEC PGM=C5320876,REGION=100K                                  00002120
//STEPLIB   DD DSN=HQMC1.AP12.TSTLIB2,DISP=SHR                            00002130
//SYSPRINT   DD SYSOUT=A                                                  00002140
//SYS001    DD DSN=&TEMP,DISP=(OLD,DELETE),UNIT=TAPE9                     00002150
//SYS002    DD DSN=HQMC1.AP12.C5921.PB216501(+1),DISP=CLD,UNIT=TAPE9      00002160
//SYS003    DD DSN=HQMC1.AP12.C5921.TB316401(+1),DISP=OLD,UNIT=2314       00002170
//SYS004    DD DSN=HQMC1.AP12.C5921.PB110401(+1),DISP=OLD                 00002180
//SYS005    DD DSN=HQMC1.AP12.C5320.TB222101,DISP=SHR,UNIT=2314           00002190
//SYS006    DD DSN=HQMC1.AP12.C5921.TB115002(0),DISP=OLD                  00002200
//SYS007    DD DSN=HQMC1.AP12.C5921.TB317601(+1),                         00002210
//           DCB=(RECFM=F,LRECL=132),VOL=(,,,10),                         00002220
//           DISP=(,CATLG),UNIT=TAPE9                                     00002230
//SYS008    DD DSN=HQMC1.AP12.C5921.TB317602(+1),                         00002240
//           DCB=(RECFM=F,LRECL=132),VOL=(,,,10),                         00002250
//           DISP=(,CATLG),UNIT=TAPE9                                     00002260
//SYS009    DD DSN=HQMC1.AP12.C5921.TB317603(+1),                         00002270
//           DCB=(RECFM=F,LRECL=132),VOL=(,,,10),                         00002280
//           DISP=(,CATLG),UNIT=TAPE9                                     00002290
//SYS010    DD DSN=HQMC1.AP12.C5921.TB216804(+1),DISP=OLD                 00002300
//SYSUDUMP DD SYSOUT=A                                                    00002310
//C5921B77 EXEC PGM=IEBGENER,REGION=86K                                   00002320
//SYSPRINT  DD  SYSOUT=A                                                  00002330
//SYSUT1 DD DSN=HQMC1.AP12.C5921.TB317603(+1),DISP=OLD,                   00002340
//           UNIT=TAPE9,                                                  00002350
//    DCB=(RECFM=F,LRECL=132)                                             00002360
//SYSUT2 DD SYSOUT=A,DCB=(RECFM=FA,LRECL=132)                             00002370
//SYSIN DD DUMMY                                                          00002380
//C5921B78 EXEC PGM=IEBGENER,REGION=86K                                   00002390
//SYSPRINT  DD  SYSOUT=A                                                  00002400
//SYSUT1 DD DSN=HQMC1.AP12.C5921.TB317602(+1),DISP=OLD,                   00002410
//           UNIT=TAPE9,                                                  00002420
//    DCB=(RECFM=F,LRECL=132)                                             00002430
//SYSUT2 DD SYSOUT=(J,,714),DCB=(RECFM=FA,LRECL=132)                      00002440
//SYSIN     DD DUMMY                                                      00002450
//C5921B79 EXEC PGM=IEBGENER,REGION=86K                                   00002460
//SYSPRINT  DD  SYSOUT=A                                                  00002470
//SYSUT1 DD DSN=HQMC1.AP12.C5921.TB317601(+1),DISP=OLD,                   00002480
//           UNIT=TAPE9,                                                  00002490
//    DCB=(RECFM=F,LRECL=132)                                             00002500
//SYSUT2 DD SYSOUT=(J,,710),DCB=(RECFM=FA,LRECL=132)                      00002510
//SYSIN     DD DUMMY                                                      00002520
./ ENDUP
IEB816I MEMBER NAME (C5921B21) FOUND IN NM DIRECTORY. TTR IS NOW ALTERED.
IEB818I HIGHEST CONDITION CODE WAS 00CC0000
IEB819I END OF JOB IEBUPDTE.
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./ REPL NAME=C5921822,LIST=ALL
./ NUMBER NEW1=10,INCR=10
//C5921822  PROC                                                        00000010
//C5921868  EXEC PGM=MARKIV,REGION=100K                                 00000020
//STEPLIB   DD  DSN=SYS1.MARKIV,DISP=SHR                                00000030
//M4LIB     DD  DSN=HQMC1.AP12.C5320.MK4LIB1,DISP=SHR                   00000040
//M4OLD DD DSN=HQMC1.AP12.C5921.PB115001(0),DISP=OLD                    00000050
//M4CORD1 DD DSN=HQMC1.AP12.C5921.PB116001(0),DISP=OLD                  00000060
//M4SUBF4 DD DSN=HQMC1.AP12.C5921.TB216803(+1),DISP=(,CATLG,DELETE),    00000070
//   UNIT=TAPE9                                                         00000080
//M4LIST   DD  SYSOUT=A                                                 00000090
//C5921BJD  EXEC PGM=MARKIV,REGION=100K                                 00000100
//STEPLIB   DD  DSN=SYS1.MARKIV,DISP=SHR                                00000110
//M4LIB DD DSN=HQMC1.AP12.C5320.MK4LIB1,DISP=SHR                        00000120
//M4OLD   DD DSN=HQMC1.AP12.C5921.PB116001(0),DISP=OLD                  00000130
//M4SUBF1 DD DSN=HQMC1.AP12.C5921.TB216805(+1),DISP=(,CATLG),           00000140
//     UNIT=TAPE9                                                       00000150
//M4LIST DD SYSOUT=A                                                    00000160
//C5921867  EXEC PGM=MARKIV,REGION=100K                                 00000170
//STEPLIB   DD  DSN=SYS1.MARKIV,DISP=SHR                                00000180
//M4LIB     DD  DSN=HQMC1.AP12.C5320.MK4LIB1,DISP=SHR                   00000190
//M4OLD DD DSN=HQMC1.AP12.C5921.PB115001(0),DISP=OLD                    00000200
//M4CORD1 DD DSN=HQMC1.AP12.C5921.PB116001(0),DISP=OLD                  00000210
//M4SUBF3  DD  SYSOUT=B                                                 00000220
//M4REPO   DD  DSN=&REPORT,DISP=(NEW,PASS),UNIT=2314,                   00000230
//         SPACE=(CYL,(50,50),RLSE)                                     00000240
//M4SORT   DD  DSN=&SORTCTL,DISP=(NEW,PASS,DELETE),                     00000250
//     UNIT=2314,SPACE=(TRK,1)                                          00000260
//M4LIST   DD  SYSOUT=A                                                 00000270
//RSORT      EXEC PGM=IERRCOOO,REGION=86K                               00000280
//SYSIN      DD DSN=&SORTCTL,DISP=(OLD,DELETE)                          00000290
//SORTIN     DD DSN=&REPORT,DISP=(OLD,DELETE),UNIT=2314,                00000300
//              DCB=(LRECL=2044,BLKSIZE=2048,RECFM=VB)                  00000310
//SORTOUT DD DSN=&M4SEP1,DISP=(,PASS),UNIT=TAPE9,                       00000320
//    DCB=(RECFM=VB,LRECL=2044,BLKSIZE=2048)                            00000330
//SYSOUT     DD SYSOUT=A                                                00000340
//SORTWK01 DD UNIT=2314,SPACE=(CYL,80,,CONTIG)                          00000350
//SORTWK02 DD UNIT=2314,SPACE=(CYL,80,,CONTIG)                          00000360
//SORTWK03 DD UNIT=2314,SPACE=(CYL,80,,CONTIG)                          00000370
//SORTWK04 DD UNIT=2314,SPACE=(CYL,80,,CONTIG)                          00000380
//SORTWK05 DD UNIT=2314,SPACE=(CYL,80,,CONTIG)                          00000390
//SORTWK06 DD UNIT=2314,SPACE=(CYL,80,,CONTIG)                          00000400
//SORTLIB    DD DSN=SYS1.SORTLIB,DISP=SHR                               00000410
//RLIST1     EXEC PGM=MARKIV,REGION=86K                                 00000420
//STEPLIB   DD  DSN=SYS1.MARKIV,DISP=SHR                                00000430
//M4LIB     DD  DSN=HQMC1.AP12.C5320.MK4LIB1,DISP=SHR                   00000440
//M4LIST     DD SYSOUT=A                                                00000450
//M4REPI     DD DSN=&M4SEP1,DISP=(OLD,DELETE),UNIT=TAPE9                00000460
//M4INPUT DD DSN=SYS1.SYSINLIB(MK4LSTRC),DISP=SHR                       00000470
//C5921869  EXEC PGM=MARKIV,REGION=100K                                 00000480
//STEPLIB   DD  DSN=SYS1.MARKIV,DISP=SHR                                00000490
//M4LIB     DD  DSN=HQMC1.AP12.C5320.MK4LIB1,DISP=SHR                   00000500
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//M4OLD    DD DSN=HQMC1.AP12.C5921.PB116001(0),DISP=OLD                    00000510
//M4SUBF1 DD DSN=HQMC1.AP12.C5921.TB216901(+1),DISP=(,CATLG,DELETE),       00000520
//         UNIT=TAPE9                                                      00000530
//M4REPO   DD  DSN=&REPORT,DISP=(NEW,PASS),UNIT=2314,                      00000540
//         SPACE=(TRK,(30,30),RLSE).                                       00000550
//M4SORT   DD  DSN=&SORTCTL,DISP=(NEW,PASS,DELETE),                        00000560
//     UNIT=2314,SPACE=(TRK,1)                                             00000570
//M4LIST   DD  SYSOUT=A                                                    00000580
//M4INPUT DD DSN=HQMC1.AP12.C5320.TMULTRPT,DISP=OLD                        00000590
//C5921866 EXEC PGM=MARKIV,REGION=100K                                     00000600
//STEPLIB  DD  DSN=SYS1.MARKIV,DISP=SHR                                    00000610
//M4LIB    DD  DSN=HQMC1.AP12.C5320.MK4LIB1,DISP=SHR                       00000620
//M4LIST   DD   SYSOUT=A                                                   00000630
//M4OLD    DD DSN=HQMC1.AP12.C5921.PB115001(0),DISP=OLD                    00000640
//M4CORD1  DD DSN=HQMC1.AP12.C5921.PB215501(0),DISP=OLD                    00000650
//M4SUBF1  DD DSN=&UIC-LIST,                                               00000660
//            UNIT=2314,SPACE=(TRK,(100,10),RLSE),DISP=(,PASS),            00000670
//            DCB=(RECFM=FB,LRECL=114,BLKSIZE=2280)                        00000680
//RSORT1    EXEC  PGM=IERRCOOO,REGION=86K                                  00000690
//SORTIN   DD  DSN=&UIC-LIST,DISP=(OLD,DELETE),UNIT=2314                   00000700
//SORTOUT  DD  DSN=&UIC-SORT,DISP=(NEW,PASS),UNIT=2314,                    00000710
//     DCB=(RECFM=FB,LRECL=114,BLKSIZE=2280),                              00000720
//      SPACE=(TRK,(100,50),RLSE)                                          00000730
//SYSOUT   DD  SYSOUT=A                                                    00000740
//SORTWK01  DD  UNIT=2314,SPACE=(TRK,100,,CONTIG)                          00000750
//SORTWK02  DD  UNIT=2314,SPACE=(TRK,100,,CONTIG)                          00000760
//SORTWK03  DD  UNIT=2314,SPACE=(TRK,100,,CONTIG)                          00000770
//SORTWK04  DD  UNIT=2314,SPACE=(TRK,100,,CONTIG)                          00000780
//SORTWK05  DD  UNIT=2314,SPACE=(TRK,100,,CONTIG)                          00000790
//SORTWK06  DD  UNIT=2314,SPACE=(TRK,100,,CONTIG)                          00000800
//SORTLIB  DD  DSN=SYS1.SORTLIB,DISP=SHR                                   00000810
//C5320SSR   EXEC  PGM=MARKIV,REGION=86K                                   00000820
//STEPLIB  DD  DSN=SYS1.MARKIV,DISP=SHR                                    00000830
//M4LIB    DD  DSN=HQMC1.AP12.C5320.MK4LIB1,DISP=SHR                       00000840
//M4REPO   DD  DSN=&REPORT,DISP=(,PASS),UNIT=2314,                         00000850
//     SPACE=(TRK,(100,50),RLSE)                                           00000860
//M4LIST   DD   SYSOUT=A                                                   00000870
//M4OLD    DD DSN=&UIC-SORT,DISP=(OLD,DELETE),UNIT=2314                    00000880
//M4SUBF1  DD  SYSOUT=B                                                    00000890
//M4REPI   DD  DSN=&REPORT,DISP=(,PASS),UNIT=2314,                         00000900
//       SPACE=(TRK,(100,50),RLSE)                                         00000910
//M4SORT    DD DSN=&M4SORT,UNIT=2314,DISP=(NEW,PASS),                      00000920
//          SPACE=(TRK,(1,1),RLSE)                                         00000930
//RSORT      EXEC  PGM=IERRCOOO,REGION=86K                                 00000940
//SORTIN   DD  DSN=&REPORT,DISP=(OLD,DELETE),UNIT=2314,                    00000950
//     DCB=(RECFM=VB,LRECL=2044,BLKSIZE=2048)                              00000960
//SORTOUT  DD  DSN=&REPO,DISP=(NEW,PASS),UNIT=2314,                        00000970
//     DCB=(RECFM=VB,LRECL=2044,BLKSIZE=2048),                             00000980
//      SPACE=(TRK,(100,50),RLSE)                                          00000990
//SYSOUT   DD  SYSOUT=A                                                    00001000
//SORTWK01  DD  UNIT=2314,SPACE=(TRK,100,,CONTIG)                          00001010
//SORTWK02  DD  UNIT=2314,SPACE=(TRK,100,,CONTIG)                          00001020
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//SORTWK03  DD  UNIT=2314,SPACE=(TRK,100,,CONTIG)                    00001030
//SORTLIB   DD  DSN=SYS1.SORTLIB,DISP=SHR                            00001040
//SYSIN     DD DSN=&M4SORT,DISP=(OLD,DELETE),UNIT=2314               00001050
//RLIST2    EXEC PGM=MARKIV,REGION=100K                              00001060
//STEPLIB   DD   DSN=SYS1.MARKIV,DISP=SHR                            00001070
//M4LIB     DD   DSN=HQMC1.AP12.C5320.MK4LIB1,DISP=SHR               00001080
//M4LIST    DD    SYSOUT=A                                           00001090
//M4REPI    DD DSN=&REPO,DISP=(OLD,DELETE),UNIT=2314                 00001100
//M4INPUT DD DSN=SYS1.SYSINLIB(MK4LSTRC),DISP=SHR                    00001110
//C5921870  EXEC PGM=MARKIV,REGION=100K                              00001120
//STEPLIB   DD   DSN=SYS1.MARKIV,DISP=SHR                            00001130
//M4LIB     DD   DSN=HQMC1.AP12.C5320.MK4LIB1,DISP=SHR               00001140
//M4OLD DD DSN=HQMC1.AP12.C5921.PB115001(0),DISP=OLD                 00001150
//M4CORD1 DD DSN=HQMC1.AP12.C5921.PB116001(0),DISP=OLD               00001160
//M4SUBF1 DD DSN=HQMC1.AP12.C5921.TB217201(+1),DISP=(,CATLG,DELETE),  00001170
//    UNIT=TAPE9                                                     00001180
//M4REPO   DD   DSN=&REPORT,DISP=(NEW,PASS),UNIT=TAPE9               00001190
//M4SORT   DD   DSN=&SORTCTL,DISP=(NEW,PASS,DELETE),                 00001200
//     UNIT=2314,SPACE=(TRK,1)                                       00001210
//M4LIST   DD   SYSOUT=A                                             00001220
//SORT      EXEC PGM=IEBUPDTE,REGION=88K,                            00001230
//SYSIN      DD DSN=&SORTCTL,DISP=(OLD,DELETE)                       00001240
//SORTIN     DD DSN=&REPORT,DISP=(OLD,DELETE),UNIT=2400,             00001250
//              DCB=(LRECL=2048,BLKSIZE=2048,RECFM=VB)               00001260
//SORTOUT    DD DSN=&M4REPI,DISP=(NEW,PASS),                         00001270
//              DCB=(LRECL=2048,BLKSIZE=2048,RECFM=VB),              00001280
//     UNIT=2400                                                     00001290
//SYSOUT     DD SYSOUT=A                                             00001300
//SORTWK01 DD UNIT=2314,SPACE=(CYL,20,,CONTIG)                       00001310
//SORTWK02 DD UNIT=2314,SPACE=(CYL,20,,CONTIG)                       00001320
//SORTWK03 DD UNIT=2314,SPACE=(CYL,20,,CONTIG)                       00001330
//SORTWK04 DD UNIT=2314,SPACE=(CYL,20,,CONTIG)                       00001340
//SORTWK05 DD UNIT=2314,SPACE=(CYL,20,,CONTIG)                       00001350
//SORTWK06 DD UNIT=2314,SPACE=(CYL,20,,CONTIG)                       00001360
//SORTLIB    DD DSN=SYS1.SORTLIB,DISP=SHR                            00001370
//RLIST3     EXEC PGM=MARKIV,REGION=88K                              00001380
//STEPLIB   DD   DSN=SYS1.MARKIV,DISP=SHR                            00001390
//M4LIB     DD   DSN=HQMC1.AP12.C5320.MK4LIB1,DISP=SHR               00001400
//M4LIST     DD SYSOUT=A                                             00001410
//M4REPI     DD DSN=&M4REPI,DISP=(OLD,DELETE),UNIT=2400              00001420
//M4INPUT DD DSN=SYS1.SYSINLIB(MK4LSTRC),DISP=SHR                    00001430
//C5921872  EXEC PGM=MARKIV,REGION=100K                              00001440
//STEPLIB   DD   DSN=SYS1.MARKIV,DISP=SHR                            00001450
//M4LIB     DD   DSN=HQMC1.AP12.C5320.MK4LIB1,DISP=SHR               00001460
//M4OLD DD DSN=HQMC1.AP12.C5921.PB115001(0),DISP=OLD                 00001470
//M4CORD1 DD DSN=HQMC1.AP12.C5921.PB116001(0),DISP=OLD               00001480
//M4SUBF1 DD DSN=HQMC1.AP12.C5921.TB217201(+1),DISP=(,CATLG,DELETE),  00001490
//    UNIT=TAPE9                                                     00001500
//M4REPO   DD   DSN=&REPORT,DISP=(NEW,PASS),UNIT=TAPE9               00001510
//M4SORT   DD   DSN=&SORTCTL,DISP=(NEW,PASS,DELETE),                 00001520
//     UNIT=2314,SPACE=(TRK,1)                                       00001530
//M4LIST   DD   SYSOUT=A                                             00001540
```

```
//RSORT     EXEC PGM=IERRCOOO,REGION=86K                                  00001550
//SYSIN     DD DSN=&SORTCTL,DISP=(OLD,DELETE)                             00001560
//SORTIN    DD DSN=&REPORT,DISP=(OLD,DELETE),UNIT=2400,                   00001570
//             DCB=(LRECL=2044,BLKSIZE=2048,RECFM=VB)                     00001580
//SORTOUT   DD DSN=&M4REPI,DISP=(NEW,PASS),                               00001590
//             DCB=(LRECL=2044,BLKSIZE=2048,RECFM=VB),                    00001600
//    UNIT=2400                                                           00001610
//SYSOUT    DD SYSOUT=A                                                   00001620
//SORTWK01  DD UNIT=2314,SPACE=(CYL,20,,CONTIG)                           00001630
//SORTWK02  DD UNIT=2314,SPACE=(CYL,20,,CONTIG)                           00001640
//SORTWK03  DD UNIT=2314,SPACE=(CYL,20,,CONTIG)                           00001650
//SORTWK04  DD UNIT=2314,SPACE=(CYL,20,,CONTIG)                           00001660
//SORTWK05  DD UNIT=2314,SPACE=(CYL,20,,CONTIG)                           00001670
//SORTWK06  DD UNIT=2314,SPACE=(CYL,20,,CONTIG)                           00001682
//SORTLIB   DD DSN=SYS1.SORTLIB,DISP=SHR                                  00001690
//RLIST4    EXEC PGM=MARKIV,REGION=86K                                    00001700
//STEPLIB   DD  DSN=SYS1.MARKIV,DISP=SHR                                  00001710
//M4LIB     DD  DSN=HQMC1.AP12.C5320.MK4LIB1,DISP=SHR                     00001720
//M4LIST    DD SYSOUT=A                                                   00001730
//M4REPI    DD DSN=&M4REPI,DISP=(OLD,DELETE),UNIT=2400                    00001740
//M4REPRT DD DSN=SYS1.SYSIBLIB(MK4LSTRC),DISP=SHR                         00001750
//C5921873  EXEC  PGM=IERRCOOO,REGION=86K                                 00001760
//SORTOUT   DD  DSN=&MRTRANS1,DISP=(NEW,PASS),UNIT=2314,                  00001770
//    DCB=(RECFM=FB,LRECL=153,BLKSIZE=3060),SPACE=(TRK,(30,30),RLSE)      00001780
//SYSOUT  DD  SYSOUT=A                                                    00001790
//SORTWK01  DD  UNIT=2314,SPACE=(CYL,40,,CONTIG)                          00001800
//SORTWK02  DD  UNIT=2314,SPACE=(CYL,40,,CONTIG)                          00001810
//SORTWK03  DD  UNIT=2314,SPACE=(CYL,40,,CONTIG)                          00001820
//SORTWK04  DD  UNIT=2314,SPACE=(CYL,40,,CONTIG)                          00001830
//SORTLIB   DD  DSN=SYS1.SORTLIB,DISP=SHR                                 00001840
//SORTIN DD DSN=HQMC1.AP12.C5921.TB216901(+1),DISP=OLD,                   00001850
//     DCB=(LRECL=153,BLKSIZE=3060,RECFM=FB)                              00001860
//       DD DSN=HQMC1.AP12.C5921.TB217001(+1),DISP=OLD,                   00001870
//     DCB=(LRECL=153,BLKSIZE=3060,RECFM=FB)                              00001880
//        DD DSN=HQMC1.AP12.C5921.TB217201(+1),DISP=OLD,                   00001890
//    DCB=(LRECL=153,BLKSIZE=3060,RECFM=FB)                              00001900
//C5921874 EXEC PGM=MARKIV,REGION=100K                                    00001910
//STEPLIB   DD  DSN=SYS1.MARKIV,DISP=SHR                                  00001920
//M4LIB     DD  DSN=HQMC1.AP12.C5320.MK4LIB1,DISP=SHR                     00001930
//M4SORT DD DSN=&SORTCTL,DISP=(,PASS),SPACE=(TRK,1),UNIT=2314             00001940
//M4TRAN   DD  DSN=&MRTRANS1,DISP=(OLD,DELETE)                            00001950
//M4NEW   DD  DSN=&M4NEW,DISP=(NEW,DELETE),UNIT=2314,                     00001960
//    SPACE=(TRK,(30,30),RLSE)                                            00001970
//M4REPO   DD  DSN=&REPORT,DISP=(,PASS),UNIT=2314,                        00001980
//    SPACE=(TRK,(30,30),RLSE)                                            00001990
//M4SUBF1 DD DSN=&SUMCOS,UNIT=2314,DISP=(,PASS),                          00002000
//    SPACE=(TRK,(30,30),RLSE)                                            00002010
//M4SUBF2  DD DSN=HQMC1.AP12.C5921.TB217401(+1),                          00002020
//             DISP=(,CATLG,DELETE),                                      00002030
//             UNIT=TAPE7,                                                00002040
//             DCB=(RECFM=FB,LRECL=80,BLKSIZE=4000)                       00002050
//M4LIST   DD  SYSOUT=A                                                   00002060
```

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//RSORT     EXEC PGM=IERRCOOO,REGION=86K                                  00002070
//SYSIN     DD DSN=&SORTCTL,DISP=(OLD,DELETE)                             00002080
//SORTIN    DD DSN=&REPORT,DISP=(OLD,DELETE),UNIT=2314,                   00002090
//              DCB=(LRECL=2044,BLKSIZE=2048,RECFM=VB)                    00002100
//SORTOUT   DD DSN=&M4REPI,DISP=(NEW,PASS),UNIT=2314,                     00002110
//              DCB=(LRECL=2044,BLKSIZE=2048,RECFM=VB),                   00002120
//   SPACE=(TRK,(30,30),RLSE)                                             00002130
//SYSOUT    DD SYSOUT=A                                                   00002140
//SORTWK01  DD UNIT=2314,SPACE=(TRK,40,,CONTIG)                           00002150
//SORTWK02  DD UNIT=2314,SPACE=(TRK,40,,CONTIG)                           00002160
//SORTWK03  DD UNIT=2314,SPACE=(TRK,40,,CONTIG)                           00002170
//SORTWK04  DD UNIT=2314,SPACE=(TRK,40,,CONTIG)                           00002180
//SORTWK05  DD UNIT=2314,SPACE=(TRK,40,,CONTIG)                           00002190
//SORTWK06  DD UNIT=2314,SPACE=(TRK,40,,CONTIG)                           00002200
//SORTLIB   DD DSN=SYS1.SORTLIB,DISP=SHR                                  00002210
//RLIST5    EXEC PGM=MARKIV,REGION=86K                                    00002220
//STEPLIB   DD  DSN=SYS1.MARKIV,DISP=SHR                                  00002230
//M4LIST    DD  SYSOUT=A                                                  00002240
//M4REPI    DD  DSN=&M4REPI,DISP=(OLD,DELETE),UNIT=2314                   00002250
//R4INPUT DD DSN=SYS1.SYSINLIB(MK4LSTRC),DISP=SHR                         00002260
//C5921881  EXEC  PGM=IERRCOOO,REGION=100K                                00002270
//SORTIN    DD DSN=HQMC1.AP12.C5921.TB216803(+1),DISP=OLD,UNIT=TAPE9,     00002280
//     DCB=(RECFM=FB,LRECL=80,BLKSIZE=880)                                00002290
//          DD DSN=HQMC1.AP12.C5921.TB216805(+1),DISP=OLD,                00002300
//          UNIT=TAPE9,                                                   00002310
//     DCB=(RECFM=FB,LRECL=80,BLKSIZE=880)                                00002320
//SORTOUT   DD  DSN=&TMR-SORT,DISP=(NEW,PASS),UNIT=TAPE9,                 00002330
//     DCB=(RECFM=FB,LRECL=80,BLKSIZE=880)                                00002340
//SYSOUT  DD  SYSOUT=A                                                    00002350
//SORTWK01  DD  UNIT=2314,SPACE=(CYL,50,,CONTIG)                          00002360
//SORTWK02  DD  UNIT=2314,SPACE=(CYL,50,,CONTIG)                          00002370
//SORTWK03  DD  UNIT=2314,SPACE=(CYL,50,,CONTIG)                          00002380
//SORTWK04  DD  UNIT=2314,SPACE=(CYL,50,,CONTIG)                          00002390
//SORTWK05  DD  UNIT=2314,SPACE=(CYL,50,,CONTIG)                          00002400
//SORTWK06  DD  UNIT=2314,SPACE=(CYL,50,,CONTIG)                          00002410
//SORTLIB   DD  DSN=SYS1.SORTLIB,DISP=SHR                                 00002420
//C5921882 EXEC PGM=MARKIV,REGION=100K                                    00002430
//STEPLIB   DD  DSN=SYS1.MARKIV,DISP=SHR                                  00002440
//M4LIB     DD  DSN=HQMC1.AP12.C5320.MK4LIB1,DISP=SHR                     00002450
//M4OLD     DD DSN=&TMR-SORT,UNIT=TAPE9,DISP=(OLD,DELETE),                00002460
//M4SUBF1   DD DSN=HQMC1.AP12.C5921.TB318201(+1),                         00002470
//          DISP=(NEW,CATLG,DELETE),                                      00002480
//          UNIT=TAPE9,                                                   00002490
//              DCB=(RECFM=FB,LRECL=176,BLKSIZE=3480)                     00002500
//M4SUBF2   DD DSN=&WORK-TO,DISP=(NEW,PASS),                              00002510
//              DCB=(RECFM=FB,LRECL=80,BLKSIZE=1600),                     00002520
//          UNIT=TAPE9                                                    00002530
//M4LIST    DD    SYSOUT=A                                                00002540
//C5921883  EXEC  PGM=IERRCOOO,REGION=86K                                 00002550
//SORTIN    DD  DSN=&WORK-TO,DISP=(OLD,DELETE),UNIT=TAPE9,                00002560
//     DCB=(RECFM=FB,LRECL=80,BLKSIZE=1600)                               00002570
//SORTOUT   DD  DSN=&TO-SORT,DISP=(NEW,PASS),UNIT=TAPE9,                  00002580
```

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//     DCB=(RECFM=FB,LRECL=80,BLKSIZE=1600)                                    00002590
//SYSOUT   DD  SYSOUT=A                                                       00002600
//SORTWK01  DD  UNIT=2314,SPACE=(CYL,50,,CONTIG)                              00002610
//SORTWK02  DD  UNIT=2314,SPACE=(CYL,50,,CONTIG)                              00002620
//SORTWK03  DD  UNIT=2314,SPACE=(CYL,50,,CONTIG)                              00002630
//SORTWK04  DD  UNIT=2314,SPACE=(CYL,50,,CONTIG)                              00002640
//SORTWK05  DD  UNIT=2314,SPACE=(CYL,50,,CONTIG)                              00002650
//SORTWK06  DD  UNIT=2314,SPACE=(CYL,50,,CONTIG)                              00002660
//SORTLIB  DD  DSN=SYS1.SORTLIB,DISP=SHR                                      00002670
//C5921884 EXEC PGM=MARKIV,REGION=100K                                        00002680
//STEPLIB   DD  DSN=SYS1.MARKIV,DISP=SHR                                      00002690
//M4LIB     DD  DSN=HQMC1.AP12.C5320.MK4LIB1,DISP=SHR                         00002700
//M4OLD     DD DSN=&TO-SORT,UNIT=TAPE9,DISP=(OLD,DELETE)                      00002710
//M4SUBF1   DD DSN=HQMC1.AP12.C5921.T83184G1(+1),                             00002720
//          DISP=(NEW,CATLG,DELETE),                                          00002730
//          UNIT=TAPE9,                                                       00002740
//              DCB=(RECFM=FB,LRECL=142,BLKSIZE=4118)                         00002750
//M4LIST    DD    SYSOUT=A                                                    00002760
//C5921810 EXEC PGM=MARKIV,REGION=86K                                         00002770
//STEPLIB   DD  DSN=SYS1.MARKIV,DISP=SHR                                      00002780
//M4LIB DD DSN=HQMC1.AP12.C5320.MK4LIB1,DISP=SHR                              00002790
//M4LIST DD SYSOUT=A                                                          00002800
//M4OLD    DD DSN=HQMC1.AP12.C5921.PB116001(0),DISP=OLD                       00002810
//M4SUBF1 DD DSN=HQMC1.AP12.C5921.PB916001(+1),UNIT=TAPE9,                    00002820
//    DCB=DEN=2,DISP=(,CATLG,DELETE)                                          00002830
//M4SUBF2 DD DSN=HQMC1.AP12.C5921.PB916001(+2),UNIT=TAPE9,                    00002840
//    DCB=DEN=2,DISP=(,CATLG,DELETE)                                          00002850
//M4SUBF3 DD DSN=HQMC1.AP12.C5921.PB916001(+3),UNIT=TAPE9,                    00002860
//    DCB=DEN=2,DISP=(,CATLG,DELETE)                                          00002870
//M4SUBF4 DD DSN=HQMC1.AP12.C5921.PB916001(+4),UNIT=TAPE9,                    00002880
//    DCB=DEN=2,DISP=(,CATLG,DELETE)                                          00002890
//M4SUBF5 DD DSN=HQMC1.AP12.C5921.PB916001(+5),UNIT=TAPE9,                    00002900
//    DCB=DEN=2,DISP=(,CATLG,DELETE)                                          00002910
//C5921BCV EXEC PGM=MARKIV,REGION=100K                                        00002920
//STEPLIB   DD  DSN=SYS1.MARKIV,DISP=SHR                                      00002930
//M4LIB     DD  DSN=HQMC1.AP12.C5320.MK4LIB1,DISP=SHR                         00002940
//M4REPO   DD  DSN=&REPORT,DISP=(,PASS),UNIT=2314,                            00002950
//       SPACE=(TRK,(100,50),RLSE)                                            00002960
//M4OLD     DD DSN=HQMC1.AP12.C5921.PB216501(+1),DISP=OLD,UNIT=2314           00002970
//M4LIST    DD    SYSOUT=A                                                    00002980
./ ENDUP
IEB816I MEMBER NAME (C5921B22) FOUND IN NM DIRECTORY. TTR IS NOW ALTERED.
IEB818I HIGHEST CONDITION CODE WAS 00000000
IEB819I END OF JOB IEBUPDTE.
```

SYSIN

NEW MASTER

IEBUPDTE LOG PAGE 0001

```
./ REPL NAME=C5921831,LIST=ALL
./ NUMBER NEW1=10,INCR=10
```

```
//C5921831  PROC                                                        00000010
//C5921815  EXEC  PGM=IERRCOOO,REGION=86K                               00000020
//SORTOUT   DD  DSN=&SORTTX,DISP=(NEW,PASS),UNIT=2314,                  00000030
//     DCB=(RECFM=F,LRECL=80,BLKSIZE=80),                               00000040
//    SPACE=(TRK,(10,10),RLSE)                                          00000050
//SYSOUT   DD  SYSOUT=A                                                 00000060
//SORTWK01   DD  UNIT=2314,SPACE=(TRK,20,,CONTIG)                       00000070
//SORTWK02   DD  UNIT=2314,SPACE=(TRK,20,,CONTIG)                       00000080
//SORTWK03   DD  UNIT=2314,SPACE=(TRK,20,,CONTIG)                       00000090
//SORTWK04   DD  UNIT=2314,SPACE=(TRK,20,,CONTIG)                       00000100
//SORTLIB   DD  DSN=SYS1.SORTLIB,DISP=SHR                               00000110
//C5921816 EXEC PGM=MARKIV,REGION=100K                                  00000120
//M4LIB   DD  DSN=HQMC1.AP12.C5320.MK4LIB1,DISP=SHR                     00000130
//M4OLD DD DSN=HQMC1.AP12.C5320.PBRUC(0),DISP=OLD                       00000140
//M4NEW DD DSN=HQMC1.AP12.C5320.PBRUC(+1),DISP=(,CATLG,DELETE),         00000150
//     UNIT=TAPE9                                                       00000160
//M4TRAN   DD  DSN=&SORTTX,UNIT=2314,DISP=(OLD,DELETE)                  00000170
//M4REPO   DD  DSN=&REPORT,UNIT=2314,DISP=(,PASS),                      00000180
//    SPACE=(TRK,(20,20),RLSE)                                          00000190
//M4SUBF2   DD  DUMMY                                                   00000200
//M4SORT   DD  DSN=&SORTCTL,UNIT=2314,DISP=(,PASS),SPACE=(TRK,1)        00000210
//M4LIST DD SYSOUT=A                                                    00000220
//RSORT     EXEC PGM=IERRCOOO,REGION=100K                               00000230
//SYSIN      DD DSN=&SORTCTL,DISP=(OLD,DELETE)                          00000240
//SORTIN     DD DSN=&REPORT,DISP=(OLD,DELETE),UNIT=2314,                00000250
//              DCB=(LRECL=2044,BLKSIZE=2048,RECFM=VB)                  00000260
//SORTOUT    DD DSN=&M4REPI,DISP=(NEW,PASS),UNIT=2314,                  00000270
//              DCB=(LRECL=2044,BLKSIZE=2048,RECFM=VB),                 00000280
//     SPACE=(TRK,(10,10),RLSE)                                         00000290
//SYSOUT     DD SYSOUT=A                                                00000300
//SORTWK01 DD UNIT=(2314,SEP=(SORTIN,SORTOUT)),                         00000310
//      SPACE=(CYL,80,,CONTIG)                                          00000320
//SORTWK02 DD UNIT=(2314,SEP=(SORTIN,SORTOUT,SORTWK01)),                00000330
//      SPACE=(CYL,80,,CONTIG)                                          00000340
//SORTWK03 DD UNIT=(2314,SEP=(SORTIN,SORTOUT,SORTWK01,SORTWK02)),       00000350
//      SPACE=(CYL,80,,CONTIG)                                          00000360
//SORTLIB    DD DSN=SYS1.SORTLIB,DISP=SHR                               00000370
//RLIST1     EXEC PGM=MARKIV,REGION=86K                                 00000380
//M4LIB      DD DSN=HQMC1.AP12.C5320.MK4LIB,DISP=SHR                    00000390
//M4LIST     DD SYSOUT=A                                                00000400
//M4REPI     DD DSN=&M4REPI,DISP=(OLD,DELETE),UNIT=2314                 00000410
//M4INPUT DD DSN=SYS1.SYSINLIB(MK4LSTRC),DISP=SHR                       00000420
//C5921813  EXEC  PGM=IERRCOOO,REGION=86K                               00000430
//SORTOUT   DD  DSN=&SORTTX,DISP=(NEW,PASS),UNIT=2314,                  00000440
//     DCB=(RECFM=F,LRECL=80,BLKSIZE=80),                               00000450
//    SPACE=(TRK,(10,10),RLSE)                                          00000460
//SYSOUT   DD  SYSOUT=A                                                 00000470
//SORTWK01   DD  UNIT=2314,SPACE=(TRK,20,,CONTIG)                       00000480
//SORTWK02   DD  UNIT=2314,SPACE=(TRK,20,,CONTIG)                       00000490
//SORTWK03   DD  UNIT=2314,SPACE=(TRK,20,,CONTIG)                       00000500
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SYSIN NEW MASTER IEBUPDTE LOG PAGE 0002

```
//SORTWK04  DD  UNIT=2314,SPACE=(TRK,20,,CONTIG)                          00000510
//SORTLIB   DD  DSN=SYS1.SORTLIB,DISP=SHR                                 00000520
//C5921814 EXEC PGM=HARKIV,REGION=100K                                    00000530
//M4LIB   DD  DSN=HOMC1.AP12.C5320.MK4LIB1,DISP=SHR                       00000540
//M4OLD DD DSN=HOMC1.AP12.C5320.PBMPM(0),DISP=OLD                         00000550
//M4NEW DD DSN=HOMC1.AP12.C5320.PBMPM(+1),DISP=(,CATLG,DELETE),           00000560
//     UNIT=TAPE9                                                         00000570
//M4TRAN   DD  DSN=&SORTTX,UNIT=2314,DISP=(OLD,DELETE)                   00000580
//M4REPO   DD  DSN=&REPORT,UNIT=2314,DISP=(,PASS),                       00000590
//    SPACE=(TRK,(20,20),RLSE)                                            00000600
//M4SUBF2   DD  DUMMY                                                     00000610
//M4SORT   DD  DSN=&SORTCTL,UNIT=2314,DISP=(,PASS),SPACE=(TRK,1)          00000620
//M4LIST DD SYSOUT=A                                                      00000630
//RSORT    EXEC PGM=IERRCOOO,REGION=100K                                  00000640
//SYSIN      DD DSN=&SORTCTL,DISP=(OLD,DELETE)                            00000650
//SORTIN     DD DSN=&REPORT,DISP=(OLD,DELETE),UNIT=2314,                  00000660
//              DCB=(LRECL=2044,BLKSIZE=2048,RECFM=VB)                    00000670
//SORTOUT    DD DSN=&M4REPI,DISP=(NEW,PASS),UNIT=2314,                    00000680
//              DCB=(LRECL=2044,BLKSIZE=2048,RECFM=VB),                   00000690
//     SPACE=(TRK,(10,10),RLSE)                                           00000700
//SYSOUT     DD SYSOUT=A                                                  00000710
//SORTWK01 DD UNIT=(2314,SEP=(SORTIN,SORTOUT)),                           00000720
//      SPACE=(CYL,80,,CONTIG)                                            00000730
//SORTWK02 DD UNIT=(2314,SEP=(SORTIN,SORTOUT,SORTWK01)),                  00000740
//      SPACE=(CYL,80,,CONTIG)                                            00000750
//SORTWK03 DD UNIT=(2314,SEP=(SORTIN,SORTOUT,SORTWK01,SORTWK02)),         00000760
//      SPACE=(CYL,80,,CONTIG)                                            00000770
//SORTLIB    DD DSN=SYS1.SORTLIB,DISP=SHR                                 00000780
//RLIST2     EXEC PGM=HARKIV,REGION=86K                                   00000790
//M4LIB      DD DSN=HOMC1.AP12.C5320.MK4LIB,DISP=SHR                      00000800
//  SLIST    DD SYSOUT=A                                                  00000810
//M4REPI     DD DSN=&M4REPI,DISP=(OLD,DELETE),UNIT=2314                   00000820
//M4INPUT DD DSN=SYS1.SYSINLIB(MK4LSTRC),DISP=SHR                         00000830
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./ ENDUP
IEB816I MEMBER NAME (C5921831) FOUND IN NM DIRECTORY. TTR IS NOW ALTERED.
IEB818I HIGHEST CONDITION CODE WAS 00000000
IEB819I END OF JOB IEBUPDTE.
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SYSIN                              NEW MASTER                                           IEBUPDTE LOG PAGE 0001

./ ADD  NAME=C5921B71,LIST=ALL
./ NUMBER NEW1=10,INCR=10
                         //C5921B71  PROC                                                            00000010
                         //C5320B17  EXEC PGM=MARKIV,REGION=100K                                     00000020
                         //STEPLIB  DD  DSN=SYS1,MARKIV,DISP=SHR                                     00000030
                         //K4LIB     DD  DSN=HQMC1,AP12,C5320,MK4LIB1,DISP=SHR                       00000040
                         //M4OLD  DD  DSN=HQMC1.AP12.C5921.PB115001(0),DISP=OLD                      00000050
                         //M4CORD1  DD  DSN=HQMC1.AP12.C5921.PB914001(0),DISP=OLD                    00000060
                         //M4SUBF1  DD  DSN=HQMC1.AP12.C5921.TB2168C1(+1),                           00000070
                         //         DISP=(NEW,CATLG,DELETE),UNIT=TAPE9,                              00000080
                         //         DCB=(RECFM=FB,LRECL=210,BLKSIZE=3570)                            00000090
                         //M4LIST   DD SYSOUT=A                                                      00000100
                         //C5921B74  EXEC  PGM=IERRC000,REGION=86K                                   00000110
                         //SORTIN   DD DSN=HQMC1.AP12.C5921.TB216801(+1),                            00000120
                         //         UNIT=TAPE9,                                                      00000130
                         //         DISP=OLD,                                                        00000140
                         //         DCB=(RECFM=FB,LRECL=210,BLKSIZE=3570)                            00000150
                         //SORTOUT  DD DSN=&TEMP,                                                    00000160
                         //             DISP=(NEW,PASS),                                             00000170
                         //         UNIT=TAPE9,                                                      00000180
                         //         DCB=(RECFM=FB,LRECL=210,BLKSIZE=4200)                            00000190
                         //SYSOUT  DD  SYSOUT=A                                                      00000200
                         //SORTWK01  DD  UNIT=2314,SPACE=(CYL,50,,CONTIG)                            00000210
                         //SORTWK02  DD  UNIT=2314,SPACE=(CYL,50,,CONTIG)                            00000220
                         //SORTWK03  DD  UNIT=2314,SPACE=(CYL,50,,CONTIG)                            00000230
                         //SORTWK04  DD  UNIT=2314,SPACE=(CYL,50,,CONTIG)                            00000240
                         //SORTWK05  DD  UNIT=2314,SPACE=(CYL,50,,CONTIG)                            00000250
                         //SORTWK06  DD  UNIT=2314,SPACE=(CYL,50,,CONTIG)                            00000260
                         //SORTLIB  DD  DSN=SYS1,SORTLIB,DISP=SHR                                    00000270
                         //C5921B76 EXEC PGM=C5320B76,REGION=100K                                    00000280
                         //STEPLIB  DD DSN=HQMC1.AP12.TSTLIB2,DISP=SHR                               00000290
                         //SYSPRINT  DD SYSOUT=A                                                     00000300
                         //SYSUDUMP DD SYSOUT=A                                                      00000310
                         //SYS001   DD DSN=&TEMP,DISP=(OLD,DELETE),UNIT=TAPE9                        00000320
                         //SYS002   DD DUMMY                                                         00000330
                         //SYS003   DD DUMMY                                                         00000340
                         //SYS004   DD DSN=HQMC1.AP12.C5921.PB110401(0),DISP=OLD                     00000350
                         //SYS005   DD DSN=HQMC1.AP12.C5320.TB222101,DISP=SHR,UNIT=2314              00000360
                         //SYS006   DD DUMMY                                                         00000370
                         //SYS007   DD SYSOUT=A                                                      00000380
                         //SYS008   DD SYSOUT=A                                                      00000390
                         //SYS009   DD SYSOUT=A                                                      00000400
                         //SYS010   DD DUMMY                                                         00000410
 ./ ENDUP
IEB817I MEMBER NAME (C5921B71) NOT FOUND IN NM DIRECTORY.  STOWED WITH TTR
IEB818I HIGHEST CONDITION CODE WAS 00000000
IEB819I END OF JOB IEBUPDTE.
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