National Archives and Records Administration

8601 Adelphi Road
College Park, Maryland 20740-6001

REFERENCE COPY OF TECHNICAL DOCUMENTATION FOR ACCESSIONED ELECTRONIC RECORDS
(Copied: December 10, 2001)

Southeast Asia Friendly Forces Files (SEAFA)

Record Group 330 Records of the Office of the Secretary of Defense

The National Archives and Records Administration (NARA) has been accepting electronic records into its holdings since the early 1970s. Technical documentation has accompanied each transfer of electronic records. The documentation is necessary to understand the meaning of the digitized bits of information within the electronic records.

Over the decades, NARA has had different procedures for compiling technical documentation into an organized unit for researchers, and different expectations regarding the content and extent of any NARA-produced portions of the documentation. Consequently, the structure, organization and contents of the documentation reflect the procedures in place when the technical documentation was compiled and arranged and may include out of date addresses, telephone numbers, or other items of unrevised information related to the agency that created or transferred the documentation and electronic records to NARA, to the NARA unit that processed these materials, or to the physical media of the electronic records files.

In creating the reference copy of the documentation package, NARA staff have selected from the technical and/or supplementary documentation available for this series or file(s). We have annotated or highlighted the table of contents that follows to indicate which portions of the full documentation for this series or file are included in this reference copy of documentation. Any materials not included here are available upon request. Any user notes prepared after the table of contents was prepared appear before the table of contents. This documentation will differ in structure, organization and contents from technical documentation for other series or files of accessioned electronic records. The readability and visual quality are also variable.

NATIONAL ARCHIVES

Supplemental User Note 2

Southeast Asia Friendly Forces File (SEAFA)
NN3-330-76-042

Records of the Office of the Secretary of Defense (Record Group 330)

The agency transferred Southeast Asia Friendly Forces File (SEAFA) in the NIPS format (National Military Command System (NMCS) Information Processing System 360 Formatted File System), which is a software-dependent format. In the late 1970s, NARA staff created a software-independent version of the file by outputting the data in the EBCDIC character set with fixed-length records. This was referred to a "de-NIPS'd" version.

In 2022, NARA staff evaluated the "de-NIPS'd" version of SEAFA and converted the file to the ASCII character set and added pipe "|" field-delimiters and added .txt file extension. The converted file should be more compatible with contemporary software.

Converted File Name	Converted Size (bytes)	Number of records w/ header row	XMIS # of original file
RG330.SEAFA.Y6672.txt	3122025	19037	005195

Some information in the technical documentation, such as the De-NIPS-ing of Vietnam War data files, may still refer to the de-NIPS'd version. This information can be disregarded.

Reference Branch
Electronic Records Division (RRE)
August 23, 2022

National Archives and Records Administration

8601 Adelphi Road
College Park, Maryland 20740-6001

Supplementary User Note 1

Southeast Asia Friendly Forces File (SEAFA)
NN3-330-76-042

Records of the Office of the Secretary of Defense (Record Group 330)

The Southeast Asia Friendly Forces File (SEAFA) is part of the Operation Analysis System (OPSANAL). The SEAFA technical documentation includes copies of agency-prepared materials extracted from various OPSANAL manuals. These extracted materials may include the "Purpose," "Contents," "Data Element Definitions," "File Format Table," "Input Source," "System Update Procedures," "Retrieval Preparation and Procedures," "Coding and Decoding Tables," "Output Options," and/or other pages. It is unclear from which version(s) of the OPSANAL manual(s) these extracts were taken.

The Division has custody of the following complete OPSANAL manual: National Military Command System Support Center, Computer System Manual Number CSM UM63A-68, *The Operation Analysis System (OPSANAL) User's Manual (Revision A)*, 30 September 1969. Researchers may wish to also consult the 30 September 1969 manual, which is available as supplementary documentation.

Lynn Goodsell, Archives Specialist
Electronic and Special Media Records Services Division (NWME)
July 23, 2007

National Archives and Records Administration

8601 Adelphi Road
College Park, Maryland 20740-6001

May 24, 2005

Reference User Note

RE: Declassification of the Southeast Asia Friendly Forces File (SEAFA)

On August 13, 1975, the Department of Defense (DoD) offered to transfer the SEAFA data file to the National Archives. In the letter conveying the offer, the DOD described this file as a national security classified file at the level of secret. The letter also stated that the DOD intended to review the data to determine whether they could be declassified prior to transferring custody to the National Archives. On January 29, 1976, the DOD, Directorate for Freedom of Information and Security Review (OASD-PA) cleared SEAFA for public access.

On March 19, 1976, the National Archives completed an appraisal review of SEAFA. The appraisal report described SEAFA as "unclassified and open to the public" per the January 29, 1976 decision of DOD. On June 3, 1976, the National Archives accepted the transfer of SEAFA into its custody.

SEAFA is declassified per NARA authority NND-023093.

LEE A. GLADWIN
Archivist
Electronic and Special Media Records Services Division

De-NIPS-ing of Vietnam War data files

The National Military Command System (NMCS) Information Processing System 360 Formatted File System, commonly referred to as NIPS or NIPS 360 FFS, was developed in the 1960s under contract with the International Business Machines Corporation (IBM). It was an advanced data management system which was operational on IBM System/360 and System/370 computers. It provided powerful, efficient, and flexible data management support to a wide variety of users with the ability to structure files, generate and maintain files, revise and update files and data, select and retrieve data, and generate formal reports in simple or complex arrays on a variety of output devices. A more detailed description of the concepts, organization, and features of the NIPS software can be found in *NMCS Information Processing System 360 Formatted File System (NIPS 360 FFS) General Description*, Command and Control Technical Center Computer System Manual CSM GD 15-78, 1 September 1978, and additional volumes in this series published by the Defense Communications Agency, which are available from the National Archives and Records Administration (NARA) as supplementary documentation to the data files.

During 1975 and 1976 the Machine-Readable Archives Division (NNR) of the National Archives and Records Service (NARS) accessioned copies of a wide variety of Vietnam War operational data files from the Office of the Secretary of Defense (OSD) and the Office of the Joint Chiefs of Staff (JCS). All of these files were received in the NIPS format. Because the NIPS software was not widely available and IBM's support for it was declining, NNR decided that it should maintain these files in a software-independent format. In fact this decision became a part of the policy of NNR toward software-dependent data and led to revisions in the regulations on the transfer of machine-readable data files to NARA (see 36 *CFR* 1228.188).

In NIPS each file is organized into variable-length records, blocked and spanned. Although the bulk of the file is data, the beginning of the file consists of supporting information used during file maintenance, data retrieval, and output processing, such as the security classification record, data file control records, element format (field definition) records, and file maintenance logic statement records. The sixth character of each logical record (following the four-character logical record length indicator and a system character) in the data file is used as a code indicating the type of information in that record (B = classification record, C = data file control record, F = element format record, L = file maintenance logic statement record, and R = data records). For more information refer to *NMCS Information Processing System 360 Formatted File System (NIPS 360 FFS), Users Manual, Volume 1, Introduction to File Concepts* (CSM UM 15-78, Volume 1, 1 September 1978), and additional volumes.

As a result, all of these Vietnam War-related NIPS data files were de-NIPS-ed by the staff of the Machine-Readable Archives Division using the NIPS software. This procedure involved using the paper documentation accompanying each file provided by DoD and the File Format Table (FFT) at the beginning of each machine-readable data file to write an output record layout for the data using the NIPS Output Processor (OP).

Reference Copy #3

This de-NIPS-ing process resulted in a new format for the files. All of the NIPS file content information at the beginning of the file was stripped leaving only the actual data records. Likewise the system-generated fields located at the beginning of each record, i.e., the Record Size Field, Deletion Code Field, Record Type Field ("R"), Set ID Field, Subset Control Field, Length of Binary Data Block, Logical Record Padding, Size of Variable Field in Fixed Set, and Sequence Number Used by RPG, were also deleted from the records. Only the data fields included in the paper documentation accompanying the file were output. In addition, these records were reformatted into a fixed-length format.

The first fixed-length record of each NIPS record contains the control set, the fixed set, and the first occurrence of each periodic set. If there are two occurrences of any periodic set, then an additional record is written repeating the control set and containing the second occurrence of any periodic set with the control set and other periodic set fields left blank. This procedure is continued until as many fixed-length records are written for each NIPS record as the maximum number of occurrences of any periodic set. The fields in all non-repeating sets are left blank.

The records are linked by a control set which contains one or more fields in the data file which as a set are unique for each record. It is contained near the beginning of each record among the system-generated fields and is the identifier by which all types of records and all sets of records in the file are sorted and linked.

Another result of the de-NIPS-ing process is the conversion of numeric fields in NIPS to zoned decimal data format in the de-NIPS version. Zoned decimal is a format in which the sign (+ or -) is recorded only in the rightmost position. The general format of a zoned decimal number is one digit per byte. Each byte other than the last (rightmost) contains a hexadecimal "F" in the four leftmost bits (zone nibble) and each byte contains a single digit in the rightmost four bits (number nibble). The last (rightmost) byte contains a hexadecimal "C" or "F" in the leftmost four bits for positive numbers and a hexadecimal "D" or "E" for negative numbers. Leading blanks and coded decimal points are allowed.

Any field which may have been converted to zoned decimal format is not identified as such in the documentation. However, it can be identified easily. Any field which is defined as a numeric field but contains an alphabetic character, a blank, or other non-numeric character in the rightmost digit is most likely in zoned decimal format. The chart below show the correct zoned decimal representation, the character representation when not defined as a zoned decimal field, and the hexadecimal representation.

	Positive										Negative									
Zoned Decimal	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9
Character		A	B	C	D	E	F	G	H	I		J	K	S	L	T	M	U	N	V	O	W	P	X	Q	Y	R	Z
Hexadecimal:																				
Zone nibble	C	C	C	C	C	C	C	C	C	C	DE	DE	DE	DE	DE	DE	DE	DE	DE	DE
Number nibble	0	1	2	3	4	5	6	7	8	9	00	11	22	33	44	55	66	77	88	99

Ross Cameron
June 1997

REPRODUCED AT THE NATIONAL ARCHIVES

SOUTHEAST ASIA FRIENDLY FORCES FILE (SEAFA)

This file was developed to provide data pertaining to friendly maneuver battalions deployed in South Vietnam. It contains unit identifcation, location, and subordination of the battalions. The time period covered is from October 1966 through July 1972. The data occupy two (2) reels of tape. The data sources were RVNAF and FWMAF Combat and Combat Support Units MACV and reports entitled Order of Battle.

The SEAFA file provides data useful in analyzing the end of month distributions, unit movements and tactical subordination of U.S., Free World Military Armed Forces (FWMAF) and Army Republic of Vietnam (ARVN), and Vietnamese Marine Corps (VNMC) maneuver battalions. There are no unit strength data in this file.

CLEARED
FOR OPEN PUBLICATION

JAN 29 1976 19

DIRECTORATE FOR FREEDOM OF INFORMATION
AND SECURITY REVIEW (OASD-PA)
DEPARTMENT OF DEFENSE

Reference Copy #5

General Services Administration
National Archives and Records Service Washington, DC 20408

#376-42

SOUTHEAST ASIA FRIENDLY FORCES FILE (SEAFA)

DOCUMENTATION

Records Group 330

Records of the Office of the Secretary of Defense

April 27, 1979

Reference Copy #6

March 1980
File number: ~~[illegible]~~
3-330-76-42

ABSTRACT

or United States Department of Defense
Office of the Secretary of Defense
Southeast Asia Friendly Forces File (SEAFA) 1966-1972
(Machine-readable data file) / Created by the Military
Assistance Command, Vietnam (MACV) and forwarded to
The Office of the Secretary of Defense. Washington:
Office of the Secretary of Defense (producer).
Washington: National Archives and Records Service (distributor)

TYPE OF FILE: Microdata. The units of observation are friendly maneuver battalions. There is one record for each battalion for each month it was operational in Vietnam.

UNIVERSE DESCRIPTION: The file locates and identifies every friendly maneuver battalion in the country of South Vietnam. This includes infantry battalions, tank battalions and armored cavalry squadrons of United States, South Vietnamese and "free world" forces. Reconnaissance battalions internally assigned to United States infantry, air mobile and mechanized divisions were not considered manuever batallions and were excluded.

SUBJECT-MATTER DESCRIPTION: Location is by South Vietnamese province, by South Vietnamese Corps Tactical Zone, by Viet Cong Military Region, and by Universal Transverse Mercator (UTM) grid coordinates. Identification of the unit is by country (United States, South Vietnam and five others) by service (Marine, Army) and by type battalion (five kinds). Data in the file starts in October 1966 and covers a month to month period for each battalion up to July 1972.

GEOGRAPHIC COVERAGE: Coverage is confined to the territorial limits of South Vietnam.

TECHNICAL DESCRIPTION:

FILE STRUCTURE: Fixed length, 144 positions. non-hierarchial.

FILE SIZE: One data file of 19,036 logical records.

FILE SORT SEQUENCE: by unit name and thereafter by location of the battalion headquarters and thereafter by the type and mission of the battalion.

REFERENCE MATERIALS:

Documentation pertaining to the Southeast Asia Friendly Forces File (SEAFA).

Available from the Macine-readable Archives Division (address below).

This is a guide to the machine-readable file. It contains an introduction to the documentation, a record layout, data element definitions and codes and a sample printout of the file.

Reference Copy #7

RELATED PRINTED REPORTS:

"Maneuver Battalion Summary"
"Countryside Battalion Plot by Month"

RELATED MACHINE-READABLE DATA FILES:

Southeast Asia Province File (SEAPR) available as order number 376-43.

DESCRIPTORS:

VIETNAM WAR, US MILITARY, SOUTH VIETNAMESE MILITARY, FREE WORLD MILITARY FORCES, MANEUVER BATTALION.

FILE AVAILABILITY: This file is available from:

Machine-Readable Archives Division (NNR)
The National Archives
Washington, DC 20408.

Reference Copy #8

Table of Contents

001

Reference Copy #9

General Services Administration
National Archives and Records Service Washington, DC 20408

INTRODUCTION

The Southeast Asia Friendly Forces File (SEAFA) identifies and locates every friendly manuever battalion in South Vietnam. "Friendly" encompass United States forces, South Vietnamese forces and "Free World" (Thai, Australian, South Korean, etc.) forces. "Manuever battalions" include infantry battalions, tank battalions, and armored cavalry squadrons. Reconnaisance battalions internally assigned to United States infantry, air mobile, and mechanized divisions were not considered manuever battalions and are excluded.

The file was created by the Assistant Secretary of Defense for Program Analysis and Evaluation (ASDPAE) from data obtained from the Military Assistance Command, Vietnam (MACV) Order of Battle Book. Though identification, command structure, and disposition of units are included, other traditional order of battle information such as personnel and equipment strengths and personality data are excluded. ASDPAE used the data to identify and track friendly troop movements. Reports using this data were the "Manuever Battalion Summary" which listed all manuever battalions in each South Vietnamese province by country and service, and the "Countrywide Battalion Plot by Month" which plotted each battalion on a 1:1,000,000 scale map of South Vietnam. The data also provided input to the Southeast Asia Province File (SEAPR) which is available as order number 376-43. However, SEAPR incorporates SEAFA data only at the province level. Hence,

Copy #9

Reference Copy #10

SEAPR cannot serve as a substitute for SEAFA.

SEAFA data starts in October, 1966 and spans to July, 1972. There is a logical sequence for each battalion for each month it was operational in Vietnam. Each logical sequence is 144 characters long. Some data is in clear text. Most data is available by code tables. One data field (UNITO at field locations 1 through 6) is a unique six-character digital field which is not retrievable. In three fields (MISSION at locations 56 through 57, DIAID at locations 98 through 119 and CORDS at locations 115 through 127) the data has been omitted by ASDPAE. However, UNAME at locations 11 through 40 can be substituted for DIAD and the Universal Transverse Mercator grid coordinates at locations 44 through 51 can be substituted for the latitude and longitude coordinates in CORDS.

The documentation for this file was prepared by Donald F. Harrison PhD., Supervisory Archivist, Machine-Readable Archives Division, The National Archives.

Reference Copy #11

INPUT, OUTPUT, MASTER DEFINITION (Excluding Reports)

1. PAGE: 1 OF 1 pages

2. NAME: Southeast Asia Friendly Forces (SEAFA)

3. TYPE OF RECORD: ☐ INPUT ☐ OUTPUT ☒ MASTER

4. RECORD SIZE: 144

5. DATE PREPARED: April 27, 1979

6. SYSTEM:

7. PREPARED BY: Donald F. Harrison, Machine-Readable Archives Division (NNR)

8. DEFINITION

LINE NO.	DATA ELEMENT	FIELD LOCATION	CLASS A/N	SIGN (If numeric)	SIZE	TYPE OF DATA STANDARD	REFERENCE: IDENT. AND PAGE	REFERENCE: LINE NO.	NOTE
a.	b.	c.	d.	e.	f.	g.	h.	i.	j.
1	UNITO	1-6	A/N		6				
2	YEAR	7-8			2				
3	MONTH	9-10			2				
4	UNAME	11-40			30				
5	PROV	41-43			3				
6	UTMQD	44-45			2				
7	UTMEST	46-48			3				
8	UTMNO	49-51			3				
9	VCMR	52-53			2				
10	CTZ	54			1				
11	SERV	55			1				
12	MISSION	56-57			2				
13	CNTRY	58-59			2				
14	UTYPE	60-62			3				
15	CTLHQ	63-82			20				
16	STATN	83-97			15				
17	DIAID	98-114			17				
18	CORDS	115-127			13				
19	UNTYPE	128-132			5				
20	RESERVED	133-144			12				

PART V

Southeast Asia Forces

SEAFA

Reference Copy #13

Data Element Definitions and Codes

This chapter describes the purpose and contents of the SEAFA file. Definition of the individual data elements and the file format table of the file are provided, as well as the source of the input data.

Purpose

The Southeast Asia Forces (SEAFA) file provides data pertaining to friendly maneuver battalions deployed in Southe Vietnam; the cavalry battalions subordinate to the US Army divisions are not considered as maneuver battalions and, therefore, were excluded from the file. This information is useful in analyzing the end of month distributions, unit movements, and tactical subordination of US, Free World Military Armed Forces (FWMAF), and Army, Republic of Vietnam [redacted] (ARVN) and Vietnamese Marine Corps (VNMC) maneuver battalions. There are no unit strength data in the file.

Contents

There is a single record for each unit for each month. Categories of data contained in each set in the SEAFA file are:

1. Control Set - contains a unique six character alphanumeric unit identification code and a four character date field.

2. Fixed Set - contains several fields giving the unit name, location, unit type and subordination.

Data in the file starts in October 1966 and covers a month to month period up to the present; the most current data are usually one to two months old when the file is updated. Almost all dates are for an end of month date with the following exceptions:

Reference Copy #14

Date In File	Actual Date of Information
Oct 68 (6810)	16 Nov 68
Nov 68 (6811)	16 Nov 68
Dec 68 (6812)	18 Dec 68
Jan 69 (6901)	15 Jan 69
Feb 69 (6902)	20 Feb 69

Data Element Definitions

Control Set

1. Unit Number

ID	FIELD/ GROUP	LENGTH	CODE	DATA VALUES
UNTNO	FIELD	6		ALPHA

This field identifies the unit. The unit number for South Vietnamese units is an arbitarily assigned number unique for every unit; the numbers for the US and FWMAF units were ovtained from the STALA file.

2. Year

ID	FIELD/ GROUP	LENGTH	CODE	DATA VALUES
YEAR	FIELD	2		ALPHA

This field identifies the year, e.g., '68'.

3. Month

ID	FIELD/ GROUP	LENGTH	CODE	DATA VALUES
MONTH	FIELD	2		ALPHA

This field identifies the month, e.g., '10' represents October.

4. Date

Reference Copy #15

ID	FIELD/ GROUP	LENGTH	CODE	DATA VALUES
DATE	GROUP	4		ALPHA

This group identifies the month and year, e.g., '6710' represents October 67.

5. Record Identification

ID	FIELD/ GROUP	LENGTH	CODE	DATA VALUES
RECID	GROUP	10		ALPHA

This group consists of the unit number, year, and month.

Fixed Set

1. Unit Name

ID	FIELD/ GROUP	LENGTH	CODE	DATA VALUES
UNAME	FIELD	30		ALPHA

This field identifies the unit name.

2. Province

ID	FIELD/ GROUP	LENGTH	CODE	DATA VALUES
PROV	FIELD	3		ALPHA (Refer to Table 1) (PAGES 7+8)

This field identifies the province in which the unit is located. The table for converting province code to province name is used in output.

Reference Copy #16

PROVINCE/CNTRY CODE VIET CONG MILITARY REGION

PROVINCE/ CNTRY NAME	CORPS-PROVINCE CODE	VIET CONG MILITARY REGION
QUANG TRI	101	11
THUA THIEN	102	11
QUANG NAM	103	05
QUANG TIN	104	05
QUANG NGAI	105	05
NVN/CTZ1	150	
LAO/ CTZ 1	160	
CAM/ CTZ 1	170	
KONTUM	206	05
BINH DINH	207	05
PLEI KU	208	05
PHY BON	209	05
PHU YEN	210	05
DARLAC	211	05
KHANH HOA	212	06
NINH THUAN	213	06
TUYEN DUC	214	10
QUANG DUC	215	06
LAM DONG	216	06
VINH THUAN	217	
NVN/ CTZ2	250	
LAO/ CTZ 2	260	
CAM/CTZ2	270	
BINH TUY	318	06
LONG KHANH	319	01
PHUOC LONG	321	10
BINH LONG	322	10
BINH DUONG	323	01
TAY NINH	324	01
HAU NGHIA	325	02
BIEN HOA	326	01
PHUOC TUY	327	01
LONG AN	328	02
GIA DINH	329	01
NVN/ CTZ 3	350	
LAO/ CTZ 3	360	
CAM/ CTZ3	370	

Reference Copy #17

PROVINCE/ CNTRY_NAME	CORPS-PROVINCE CODE	VIET CONG MILITARY REGION
GO CONG	340	02
KIEN TUONG	431	02
KIEN PHONG	432	02
DINH TUONG	433	02
KIEN HOA	434	02
VINH BINH	435	03
VINH LONG	436	03
AN GIANG	437	02
KIEN GIANG	438	03
CHONG THIEN	439	03
PHONG DINH	440	03
BA XUYEN	441	03
AN XUYEN	442	03
BAC LIEU	443	03
CHAU DOC	444	02
SA DEC	446	03
NVN/ CTZ4	450	
LAO/ CTZ4	460	
CAM/ CTZ4	470	

Reference Copy #18

3. UTM QUAD

ID	FIELD/ GROUP	LENGTH	CODE	DATA VALUES
UTMQD	FIELD	2		ALPHA

This field contains two characters -- quadrant identification of the UTM coordinate.

Reference Copy #19

4. UTM East

ID	FIELD/ GROUP	LENGTH	CODE	DATA VALUES
UTMES	FIELD	3		ALPHA

This field contains the easting values of the UTM coordinate.

5. UTM North

ID	FIELD/ GROUP	LENGTH	CODE	DATA VALUES
UTMNO	FIELD	3		ALPHA

This field contains the northing values of the UTM coordinate.

6. Universal Transverse Mercator Coordinate

ID	FIELD/ GROUP	LENGTH	CODE	DATA VALUES
UTM	GROUP	8		ALPHA

This group gives the general location of the battalion headquarters; it consists of the UTMQD, UTMES, and UTMNO fields.

7. VC Military Region

ID	FIELD/ GROUP	LENGTH	CODE	DATA VALUES
VCMR	FIELD	2	01	MR1
			02	MR2
			03	MR3
			04	MR4
			05	MR5
			06	MR6
			10	MR10
			11	TRI THIEN MR

This field identifies the Viet Cong Military Region (VCMR) in which the unit is located. Data for this field is derived from the province in which the unit is reported to be located. Conversion from province to VCMR is as shown in Table 1 Chapter 7 (PAGES 7+8)

8. Corps Area

Reference Copy #20

ID	FIELD/ GROUP	LENGTH	CODE	DATA VALUES
CTZ	FIELD	1	1	I CORPS
			2	II CORPS
			3	III CORPS
			4	IV CORPS

This field identifies the Corps Tactical Zone in which the unit is assigned. Data for this field are derived from the province in which the unit is reported to be located. Conversion from province code to corps area is as shown in Table 1.

9. Service

ID	FIELD/ GROUP	LENGTH	CODE	DATA VALUES
SERV	FIELD	1	M	MARINE
			W	ARMY

This field identifies the unit's service.

10. Mission Code

ID	FIELD/ GROUP	LENGTH	CODE	DATA VALUES
MISSN	FIELD	1		ALPHA

This field is blank. It is reserved for the mission of the individual battalions.

11. Country

ID	FIELD/ GROUP	LENGTH	CODE	DATA VALUES
CNTRY	FIELD	2	AU	AUSTRALIA
			KS	REPUBLIC OF KOREA
			NZ	NEW ZEALAND
			PH	PHILIPPINES
			TH	THAILAND
			US	UNITED STATES
			VS	REPUBLIC OF VIETNAM

This field identifies the unit's nationality.

12. Unit Type Code

Reference Copy #21

ID	FIELD/ GROUP	LENGTH	CODE	DATA VALUES
UTYPE	FIELD	3	C01	INFANTRY
			C02	AIRBORNE INF
			C03	AIRMOVILE INF
			C04	MECHANIZED INF
			C05	ARMORED CAVALRY
			C06	TANK
			C09	UNDERTERMINED

Simplified unit type code.

13. Control Hq Unit Name

ID	FIELD/ GROUP	LENGTH	CODE	DATA VALUES
CTLHQ	FIELD	20		ALPHA

This field identifies the unit's tactical control headquarters.

14. Station

ID	FIELD/ GROUP	LENGTH	CODE	DATA VALUES
STATN	FIELD	15		ALPHA

This field identifies the station/base name.

15. DIA Unit Number

ID	FIELD/ GROUP	LENGTH	CODE	DATA VALUES
DIAID	FIELD	17		ALPHA

This field is reserved for the DIA identification number for the unit.

16. Coordinates

ID	FIELD/ GROUP	LENGTH	CODE	DATA VALUES
CORDS	FIELD	13		ALPHA

This field is reserved for latitude and longitude coordinates.

Reference Copy #22

17. Unit Type

ID	FIELD/ GROUP	LENGTH	CODE	DATA VALUES
UNTYP	FIELD	5	18AAA	INFANTRY
			18BAA	AIRBORNE INF
			18FAA	AIRMOVILE INF
			18MAA	MECHANIZED INF
			18RMA	LIGHT INF
			18TAA	MARINE INF
			19AAA	TANK
			19FAA	ARMORED CAV
			19FTA	ARMORED CAV TANK
			19VAA	CAVALRY

Unit type code from the STALA file.

18. For Future Use

Reference Copy #23

ID	FIELD/ GROUP	LENGTH	CODE	DATA VALUES
RSRVD	FIELD	12		ALPHA

This field is reserved for future use.

File Format Table

```
                    FSJOB CREATE, SEAFA
UNTNO       FIELD   006,C,          ,*&,ALPHA,*     ,"UNIT NO.
YEAR        FIELD   002,C,          ,*$,ALPHA,*     ,"YEAR
MONTH       FIELD   002,C,          ,*$ALPHA,*      ,"MONTH
DATE        GROUP   YEAR,MONTH,     ,*$ALPHA,*      ,"DATE
RECID       GROUP   UNTNO,DATE,     ,*$,ALPHA,*     ,"RECORD ID
UNAME       FIELD   030,X           ,*$,ALPHA,*     ,"UNIT NAME
PRO         FIELD   003,X,          ,*$,ALPHA,*     ,"PROV CODE
UTMQD       FIELD   002,X,          ,*$,ALPHA,*     ,"UTM QUAD
UTMES       FIELD   003,X,          ,*$,ALPHA,*     ,UTM EAST
UTMNO       FIELD   003,X,          ,*$,ALPHA,*     ,"UTM NORTH
UTM         GROUP   UTMQD,UTMES,    ,*$,ALPHA,*     ,"UTM COORD
                     UTMNO
VCMR        FIELD   002,X,          ,*$,ALPHA,*     ,"VC MIL REGION
CTZ         FIELD   001,X,          ,*$,ALPHA,*     ,"CORPS AREA
SERV        FIELD   001,X,          ,*$,ALPHA,*     ,"SERVICE CODE
MISSN       FIELD   002,X,          ,*$,ALPHA,*     ,"MISSION CODE
CNTRY       FIELD   002,X,          ,*$,ALPHA,*     ,"COUNTRY
UTYPE       FIELD   003,X,          ,*$,ALPHA,*     ,"UNIT TYPE
CTLHQ       FIELD   020,X,          ,*$,ALPHA,*     ,"CONTROL HQ
                                                      UNIT NAME
STATN       FIELD   015,X,          ,*$,ALPHA,*     ,"STATION
DIAID       FIELD   017,X,          ,*$,ALPHA,*     ,"DIA UNIT NO.
CORDS       FIELD   013,X,          ,*$,ALPHA,*     ,"COORDINATES
UNTYP       FIELD   005,X,          ,*$,ALPHA,*     ,"UNIT TYPE
RESRVD      FIELD   012,X,          ,*$,ALPHA,*     ,"FOR FUTURE USE
            ENDFS
```

Input Sources

Information for the 'A' cards is obtained on a monthly basis from a report entitled, "Order of Battle: US, RVNAF and FWMAF Combat and Combat Support Units," published by the Briefing and Reports Branch, MACJ3-082, MACV. The 'B' cards are punched from the most current month in the file and both the 'A' and 'B' transaction cards are submitted at the same time for file update.

Reference Copy #24

Chapter 4
SYSTEM UPDATE PROCEDURES

This chapter provides information regarding input data used in updating the file. Clerical requirements and job submission procedures are explained. A general input flow chart and run deck organization are provided. Sample Job Request Card and Scheduling Control/Job Receipt Card are included in Chapter 8.

Data Description

The data reported by MACV in the Order of Battle book provides most of the input to the SEAFA file. The book contains a list of units in Southeast Asia. For each unit, identified by unit name, the following information is given; province name, station, UTM coordinate, and control headquarters unit. These data are keypunched into the 'A; transaction cards as follows:

CARD TYPE 'A"

DATA FIELD	LEFT/RIGHT JUSTIFIED OR PACKED	ALPHA/ NUMERIC	CARD COLUMNS
UNIT NUMBER	P	A	1-6
DATE (YEAR, MONTH)	P	A	7-10
UNIT NAME	LJ	A	11-30
PROVINCE CODE	P	A	31-33
STATION NAME	LJ	A	34-48
UTM	P	A	49-56
CONTROL HQ	LJ	A	57-76
DELETION CODE	P	A	79
CARD CODE	P	A	80

The data contained in the 'B' cards for each batallion are unit number, date of information, and country, service, unit type and card codes. The computer punches transaction cards from the previous monthly data for each unit as follows:

Reference Copy #25

CARD TYPE 'B'

DATA FIELD	LEFT/RIGHT JUSTIFIED OR PACKED	ALPHA/ NUMERIC	CARD COLUMNS
UNIT NUMBER	P	A	1-6
DATE (YEAR, MONTH)	P	A	7-10
COUNTRY CODE	P	A	31-32
SERVICE CODE	P	A	34
UNIT TYPE CODES	P	A	35-42
CARD CODE	P	A	80

Clerical Procedures

The 'A' cards are keypunched directly from the monthly MACV Order of Battle books utilizing the appropriate entries; an OP program is used to punch 'B' type cards from the most current records in the SEAFA data base. 'B' cards for units which do not appear in the book are destroyed. In this case the unit in question has apparently been withdrawn from the country or has been deactivated and, therefore, is no longer carried in the OB.

New units that appear in the book for the first time must be accounted for by keypunching 'B' cards for them; in the succeding months, the 'B' cards would be punched by the computer.

Submission Procedures

The processing of data transactions and the updating of the SEAFA file required the following components and documents:

Control cards
FMS logic statements
'A' and 'B' data cards
Current SEAFA data base
Job Request Card (Form 77A)
Scheduling Control/Job Receipt Card (Form 77A)

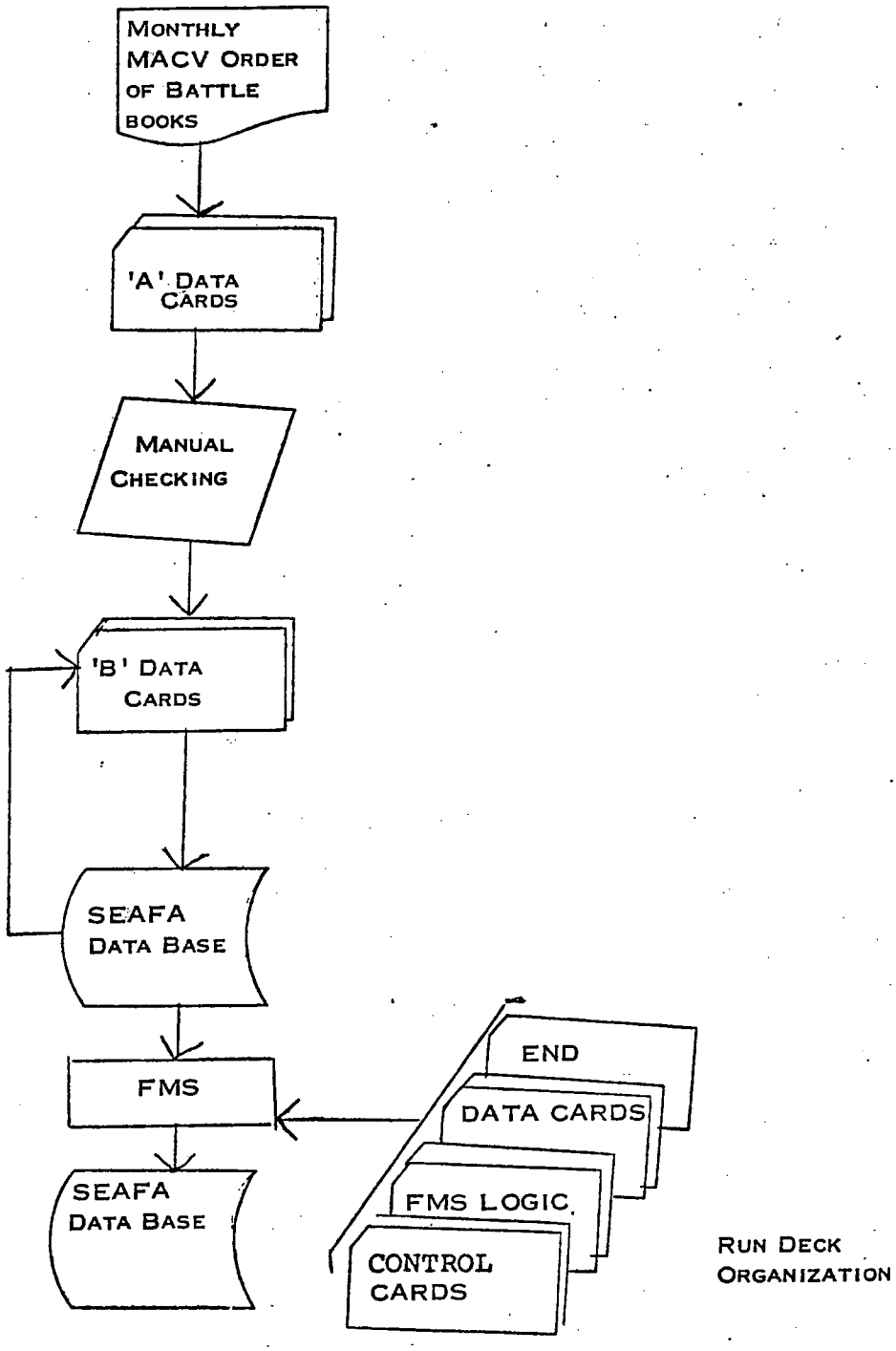
Control cards and FMS logic statements are held by the programmer. See Chapter 8 for information on access to these instructions.

Reference Copy #26

Examples of the Job Request Card and Scheduling Control/Job Receipt Card for submission of jobs are found in Chapter 8.

General input flow and run deck organization for SEAFA are shown on the following page.

Reference Copy #27



Part V, Figure 1. SEAFA General Input Flow

Reference Copy #28

Chapter 5
RETRIEVAL PREPARATION AND PROCEDURES

This chapter defines the various retrieval statements and procedures required for obtaining the standard outputs available from SEAFA. A general output flow chart and run deck organization are provided. A sample Job Request Card, Scheduling Control/Job Receipt Card, Computer Service Request, and Plotter Request are included in Chapter 8.

Retrieval Preparation

Queries listed below provide the user with standard SEAFA retrievals.

SE01R - Data Base Printout

This RIT prints every record in the data base. The IF statement may be added to retrieve any desired portion of the data base, and a SORT statement may be added to sort the retrieved records.

An example of a possible query could be:

```
IF DATE EQ 6703, 6903, 6806.

SORT PROV, UTM.
```

SE02R - Maneuver Battalions Summary

```
TITLE SE02R/02 SE02ROP.
IF YEAR EQ 66 AN UTYPE EQ C$
AND CTZ NE - -
AND CNTRY EQ VS,US,KS,TH,AU,NZ,PH
AND SERV EQ W,M.
SORT -A-,CTZ,PROV #OB01S#,CNTRY,SERV,UNTNO.
IF YEAR EQ 66 and UTYPE EQ C$
AND CTZ EQ - -
```


Reference Copy #29

```
AND CNTRY EQ VS,US,KS,TH,AU,NZ,PH
AND SERV EQ W,M.
SORT -B-,CTZ,PROV #OB02S$,CNTRY,SERV,UNTNO.
IF YEAR EQ 67 AND UTYPE EQ C$
AND CTZ NE - -
AND CNTRY EQ VS,US,KS,TH,AU,NZ,PH
AND SERV EQ W,M.
SORT -C-,CTZ,PROV #)B01S#,CNTRY,SERV,UNTNO.
IF YEAR EQ 67 AND UTYPE EQ C$
AND CTZ E - -
AND CNTRY EQ VS,US,KS,TH,AU,NZ,PH
AND SERV EQ W,M.
SORT -D-,CTZ,PROV #OB01S#,CNTRY,SERV,UNTNO.
IF YEAR EQ 68 NAD UTYPE EQ C$
AND CTZ NE - -
AND CNTRY EQ VS,US,KS,TH,AU,NZ,PH
AND SERV EQ W,M.
SORT -E-,CTZ,PROV #OB01S#,CNTRY,SERV,UNTNO.
IF YEAR EQ 68 AND UTYPE EQ C$
AND CTZ EQ - -
AND CNTRY EQ VS,US,KS,TH,AU,NZ,PH
AND SERV EQ W,M.
SORT -F-,CTZ,PROV #OV01S#,CNTRY,SERV,UNTNO.
IF YEAR EQ 69 AND UTYPE EQ C$
AND CTZ NE - -
AND CNTRY EQ VS,US,KS,TH,AU,NZ,PH
AND SERV EQ W,M.
SORT -G-,CTZ,PROV #OB01S#,CNTRY,SERV,UNTNO.
IF YEAR EQ 69 and UTYPE EQ C$
AND CTZ EQ - -
AND CNTRY EQ VS,US,KS,TH,AU,NZ,PH
AND SERV EQ W,M.
SORT -H-,CTZ,PROV #OB01S#,CNTRY,SERV,UNTNO.
IF YEAR EQ 70 AND UTYPE EQ C$
AND CTZ NE - -
AND CNTRY EQ VS,US,KS,TH,AV,NZ,PH
AND SERV EQ W,N.
SORT -I-,CTZ,PROV #OV01S#,CNTRY,SERV,UNTNO.
IF YEAR EQ 70 and UTYPE EQ C$
AND CTZ EQ - -
AND CNTRY EQ VS,US,KS,TH,AU,NZ,PH
AND SERV EQ W,M.
SORT -J-,CTZ,PROV #OB01S#,CNTRY,SERV,UNTNO.
IF YEAR EQ 71 and UTYPE EQ C$
AND CTZ EQ - -
AND CNTRY EQ VS,US,KS,TH,AU,NZ,PH
AND SERV EQ W,M.
SORT -K-,CTZ,PROV #OB01S#,CNTRY,SERV,UNTNO.
IF YEAR EQ 71 and UTYPE EQ C$
AND CTZ NE - -
```


Reference Copy #30

SE02R-Maneuver Battalions Summary (Continued)

```
AND CNTRY EQ VS,US,KS,TH,AV,NZ,PH
AND SERV EQ W,M.
SORT -L-,CTZ,PROV #OB01S#,CNTRY,SERV,UNTNO.
/*
```

This query retrieves the record for every maneuver battalion in the file, identified as to its country and service. Records are sorted by corps area, province, country and service.

No changes should be made in these cards, so that the retrieval tape will provide proper input to the standard output SE02R.

SE03R - "B" Card Punch

This RIT is processed directly against the data base and punches appropriate B-type transactions to be used in conjunction with A-type transactions for file update.

SE05R/01 - Countrywide Battalion Plot

```
TITLE  SE05R/01.
IF DATE EQ XXXX.
SORT UTM.
```

The output of this RIT is a tape containing the UTM and a one character code to assign the color to the symbols of each battalion for the month specified in the "DATE" field, e.g., 6906. The OP tape is run against the DPS Geographic Plot Module which, in turn, creates a tape that is mounted on the CalComp Plotter. Before the OP tape is created, the UTMs of the battalions for the required month should be scanned to determine if two or more units have identical UTMs. This can be accomplished by printing out the battalion records sorted by DATE, UTM, If two or more units have identical coordinates, the UTMs should be changed so that all coordinates in the records for the same month are unique. If they are not changed, two or more units will be portrayed by only one symbol.

Another approach would be to run the Geographic Plot Module directly against the file for the required tape output for the CalComp Plotter. This cuts out the BASE/CP step and generally saves machine time.

Retrieval Procedures

Retrieval of data from the SEAFA file requires the following components and documents:

Reference Copy #31

Control cards
Query and Sort Statements (RASP)
Report Instruction Table
SEAFA current data base
Job Request Card (Form 77A)
Scheduling Control/Job Receipt Card (Form 77A)
Computer Service Reques (For SE05R)
Tape and Disk Request (For SE05R)
Plotter Request (For SE05R)

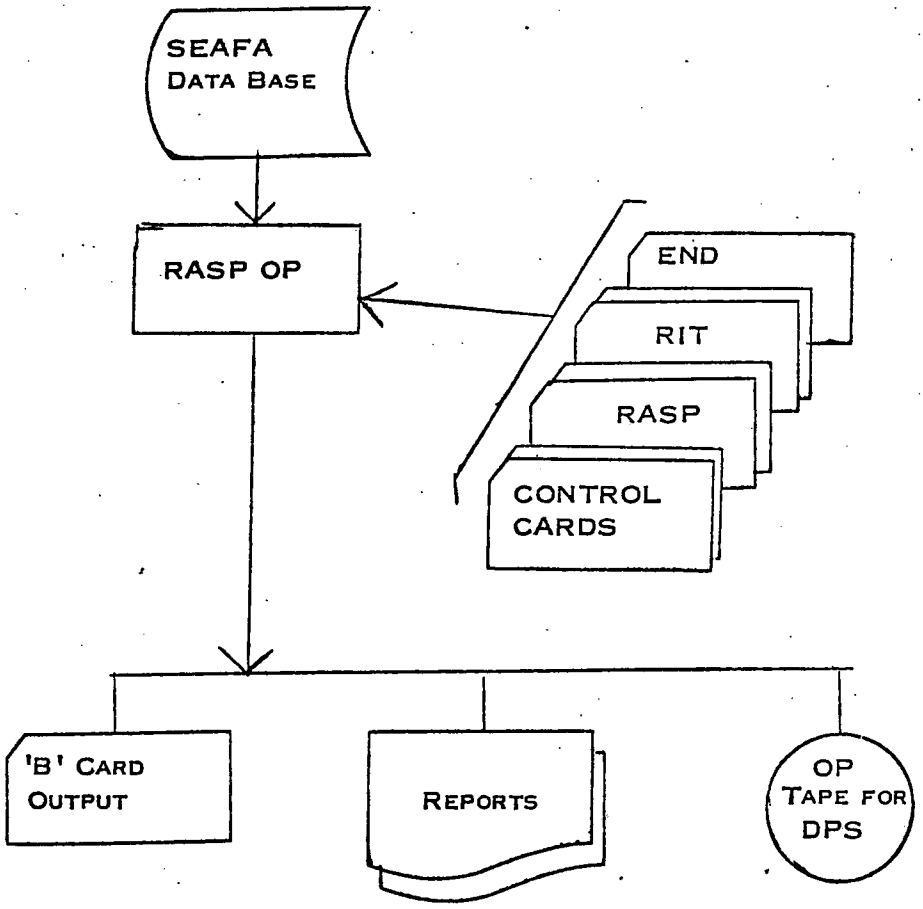
Control cards and RIT statements are held by the programmer. See Chapte 8, Job Preparation Procedures, for information on access to these instruction.

Query statements and instruction on available options are included in the preceding section, Retrieval Preparation.

Examples of Job Request Cards, Scheduling Control/Job Receipt Card, Computer Service Request, and Plotter Requests for submission of jobs are found in Chapter 8.

General output flow and run deck organization for SEAFA are found on the following page.

Reference Copy #32



Part V, Figure 2. SEAFA General Output Flow

Reference Copy #33

Chapter 6
OUTPUT OPTIONS

This chapter explains the standard outputs available for SEAFA and provides an example of the output formats. Distribution of the output is also identified.

Types of Output

There are three standard RITs presently available for standard SEAFA otuputs and another RIT (SE03R) used to furnish card output for file update.

SE01R - Record Printout

The output furnishes a complete printout of each record.

SE02R - Maneuver Battalions Summary

The output furnishes a list, by province, of all maneuver battalions in South Vietnam, sorted by country and service. Totals for number of battalions per month by service and country, and by province and corps area are shown.

SE03R - 'B' Card (Data Transaction) Punch

The punched card output furnishes 'B' cards for file update.

SE05R - Countrywide Battalion Plot by Month

The output from the CalComp Plotter furnishes a plot of the battalions on a 1:1,000,000 scale overlay to be used on the standard 1:1,000,000 map of South Vietnam. The symbol for US/FW units is blue while the symbol for SVN units is green. Service and country code as well as date in the retrieval statement can be varied in order to obtain the required output.

Reference Copy #34

Distribution

One copy of each report is sent to the REPRC, OASD(SA) as requested.

Sample Output Layouts

The next two pages contain sample printouts for SEAFA.

Reference Copy #35

M1113069053/1 MAR 103BT070656051M USC011ST MAR DANANG REC 15, LENGTH 1440
18TAA M1113069063/1 MAR 103BT070656051M
USC011ST MAR DANANG
1 MAR 103BT070656051M USC011ST MAR 18TAA M1113069073/
DANANG
18TAA M1113069083/1 MAR 103BT070656051M USC011ST MA
R DANANG 18TAA M1113069093/1 MAR
103BT070656051M USC011ST MAR DANANG
18TAA M1113069103/1 MAR 103BT070656051M USC011ST MAR
DANANG 18TAA M1113069113/1 MAR
103BT070656051M USC011ST MAR DANANG 18TAA
M1113069123/1 MAR 103AT915582051M USC011ST MAR HILL 37
18TAA M1113070013/1 MAR 103AT915
582051M USC011ST MAR HILL 37 18TAA M111
3070023/1 MAR 103AT915582051M USC011ST MAR HILL 37
18TAA

M1113070033/1 MAR 103AT940783051M USC011ST MAR DA NANG REC 16, LENGTH 1440
18TAA M1113070043/1 MAR 103AT940783051M
USC011ST MAR DA NANG
1 MAR 103AT940783051M USC011ST MAR 18TAA M1113070053/
DA NANG
18TAA M1113070063/1 MAR 103AT940783051M USC011ST MA
R DA NANG 18TAA M1113070073/1 MAR
103AT940783051M USC011ST MAR DA NANG
18TAA M1113070083/1 MAR 103AT940783051M USC011ST MAR
DA NANG 18TAA M1113070093/1 MAR
103AT940783051M USC011ST MAR DA NANG 18TAA
M1113070103/1 MAR 103AT940783051M USC011ST MAR DA NANG
18TAA M1113070113/1 MAR 103AT940
783051M USC011ST MAR CAMP 14 18TAA M111
3070123/1 MAR 103AT940783051M USC011ST MAR CAMP 14
18TAA

M1113071013/1 MAR 103AT940783051M USC011ST MAR CAMP 14 REC 17, LENGTH 1440
18TAA M1113071023/1 MAR 103AT940782051M
USC011ST MAR CAMP 14
1 MAR 103AT940782051M USC011ST MAR 18TAA M1113071033/
CAMP 14
18TAA M1116066101/5 MAR 104BT397145051M USC017TH MA
R REGI CHU LAI 18TAA M1116066111/5 MAR
104BT397145051M USC017TH MAR REGT CHU LAI
18TAA M1116066121/5 MAR 104BT397145051M USC017TH MAR REGT
CHU LAI 18TAA M1116067011/5 MAR
104BT397145051M USC017TH MAR REGT CHU LAI 18TAA
M1116067021/5 MAR 104BT397145051M USC017TH MAR REGT CHU LAI
18TAA M1116067031/5 MAR 104BT397
145051M USC017TH MAR REGT CHU LAI 18TAA M111
6067041/5 MAR 104BT397145051M USC015TH MAR CHU LAI
18TAA

M1116067051/5 MAR 104AT912268051M USC015TH MAR QUE SON REC 18, LENGTH 1440
18TAA M1116067061/5 MAR 103BT041347051M
USC015TH MAR QUE SON
5 MAR 103BT041347051M USC015TH MAR 18TAA M1116067071/
QUE SON
18TAA M1116067081/5 MAR 103BT041347051M USC016TH MA
R QUE SON 18TAA M1116067091/5 MAR
103BT025342051M USC015TH MAR DANANG
18TAA M1116067101/5 MAR 103BT104583051M USC015TH MAR

Reference Copy #36

DANANG 18TAA M1116067111/5 MAR
103BT104583051M USC015TH MAR DANANG 18TAA
M1116067121/5 MAR 102ZC076985111M USC015TH MAR PHU LOC
18TAA M1116068011/5 MAR 102ZC076
985111M USC015TH MAR PHU LOC 18TAA M111
6068021/5 MAR 102YD774199111M USC015TH MAR PHU BAI
18TAA

M1116068031/5 MAR 102YC944921111M USC015TH MAR PHU BAI REC 19, LENGTH 1440
18TAA M1116068041/5 MAR 102YC944921111M
USC015TH MAR PHU LOC 18TAA M1116068051/
5 MAR 102YC944921111M USC015TH MAR PHU LOC
18TAA M1116068061/5 MAR 102YC944921111M USC015TH MA
R PHU LOC 18TAA M1116068071/5 MAR
103AT871473051M USC015TH MAR DANANG
18TAA M1116068081/5 MAR 103AT867473051M USC015TH MAR
AN HOA 18TAA M1116068091/5 MAR
103AT867473051M USC015TH MAR AN HOA 18TAA
M1116068101/5 MAR 103AT867473051M USC015TH MAR AN HOA
18TAA M1116068111/5 MAR 103AT867
473051M USC015TH MAR AN HOA 18TAA M111
6068121/5 MAR 103AT867473051M USC015TH MAR AN HOA
18TAA

M1116069011/5 MAR 103AT867473051M USC015TH MAR AN HOA REC 20, LENGTH 1440
18TAA M1116069021/5 MAR 103AT867473051M
USC015TH MAR AN HOA 18TAA M1116069031/
5 MAR 103AT867473051M USC015TH MAR AN HOA
18TAA M1116069041/5 MAR 103AT867473051M USC015TH MA
R AN HOA 18TAA M1116069051/5 MAR
103AT867473051M USC015TH MAR AN HOA
18TAA M1116069061/5 MAR 103AT867473051M USC015TH MAR
AN HOA 18TAA M1116069071/5 MAR
103AT867473051M USC015TH MAR AN HOA 18TAA
M1116069081/5 MAR 103AT867473051M USC015TH MAR AN HOA
18TAA M1116069091/5 MAR 103AT867
473051M USC015TH MAR AN HOA 18TAA M111
6069101/5 MAR 103AT867473051M USC015TH MAR AN HOA
18TAA

M1116069111/5 MAR 103AT867473051M USC015TH MAR AN HOA REC 21, LENGTH 1440
18TAA M1116069121/5 MAR 103AT878575051M
USC015TH MAR HILL 65 18TAA M1116070011/
5 MAR 103AT878575051M USC015TH MAR HILL 65
18TAA M1116070021/5 MAR 103AT878575051M USC015TH MA
R HILL 65 18TAA M1116070031/5 MAR
103AT997723051M USC011ST MAR DIV DA NANG
18TAA M1116070041/5 MAR 103AT997723051M USC011ST MAR DIV
DA NANG 18TAA M1116070051/5 MAR
103AT989709051M USC011ST MAR DIV DA NANG 18TAA
M1116070061/5 MAR 103AT989709051M USC011ST MAR DIV DA NANG
18TAA M1116070071/5 MAR 103AT989
709051M USC011ST MAR DIV DA NANG 18TAA M111
6070081/5 MAR 103AT989709051M USC011ST MAR DIV DA NANG
18TAA

Reference Copy #37L