



Mobile Communications PC Programming

**MTD™ EDACS
Mobile Radio**

**For
IBM PC/XT
Or True PC Compatible**

Programming Guide

PERSONAL COMPUTER PROGRAMMING

SOFTWARE LICENSE AGREEMENT

THE SOFTWARE PROGRAM PROVIDED WITH THIS DOCUMENT IS FURNISHED UNDER A LICENSE AND MAY BE USED ONLY IN ACCORDANCE WITH THE FOLLOWING LICENSE TERMS.

Ericsson GE Mobile Communications, Inc., hereafter referred to as COMPANY, grants to you, hereafter referred to as USER, a non-exclusive, paid up license to use the accompanying Software, the media on which it is recorded, and Programming Guide, all hereafter referred to as PRODUCT, for use under the following terms and conditions:

1. The techniques, algorithms, and processes contained in the PRODUCT constitute trade secrets of COMPANY. USER agrees not to provide or otherwise make available any PRODUCT to any third party and to take all measures reasonable and necessary to protect the confidentiality of the PRODUCT and COMPANY's rights herein. The foregoing shall not apply to any PRODUCT which user can show was in its possession prior to the disclosure made by COMPANY, or which subsequently came into its possession through channels independent of COMPANY or was independently developed by employees of USER who had not had access to PRODUCTS, or which appears in a printed publication other than as a breach of any obligation owed to COMPANY, or with the prior written permission of COMPANY.
2. USER shall not reproduce or copy the PRODUCT, make or permit any change or modification, in whole or in part, in its original or any other language, or permit anyone else to do so for any purpose whatsoever, except as necessary for the USER to use it on the single programmer for which it is licensed hereunder.
3. USER shall not transfer the PRODUCT or any part thereof. This license does not include the right to sublicense and may not be assigned.
4. The PRODUCT is copyrighted under United States and International laws by COMPANY. USER agrees not to remove any COMPANY copyright, trademark or other notices or PRODUCT identification.
5. If USER does not comply with all of the terms and conditions of this license agreement, COMPANY may terminate this license and require USER to return the PRODUCT. USER's liability shall include, but not be restricted to, all costs incurred by COMPANY in recovering the PRODUCT and all damages arising from USER's default.
6. USER shall be solely responsible for determining the appropriate use to be made of the PRODUCT in USER's own operations. PRODUCTS ARE DISTRIBUTED "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED.

TQ-3346

7. **USER** is responsible to insure that use of the **PRODUCT** to install or repair Ericsson GE Mobile Radio Communication equipment meets all standards and regulations required by federal, state and local governments and that the operator of that mobile radio communications equipment is legally licensed for the use of the frequencies programmed into the radio equipment.
8. In no event, whether on warranty, contract or negligence, shall **COMPANY** be liable for special, incidental, indirect or consequential damages including, but not limited to, loss of profits or revenue, loss of use of any equipment, cost of capital, or any other loss that may result directly or indirectly from use of **PRODUCTS** or from failure of **PRODUCTS** to operate as intended.

CREDITS

IBM, AT, XT and PC-DOS are registered trademarks of International Business Machines Corporation.

MS-DOS is a registered trademark of Microsoft Corporation.

MTD, Channel Guard and Digital Channel Guard are trademarks of Ericsson GE Mobile Communications, Inc.

TABLE OF CONTENTS

| | |
|------------------------------------------------|------|
| INTRODUCTION | viii |
| CHAPTER 1 BEFORE YOU BEGIN | 1-1 |
| About This Manual | 1-1 |
| Important Terms | 1-2 |
| How To Use Work Sheets | 1-3 |
| How Screens Work | 1-6 |
| Screen/Window Layout | 1-8 |
| Using The Keyboard | 1-13 |
| Function Keys | 1-14 |
| Character Keys | 1-16 |
| Editing Keys | 1-17 |
| Movement Keys | 1-18 |
| Special Usage Keys | 1-19 |
| Radio PC Programming Flow Chart | 1-20 |
| CHAPTER 2 INSTALLATION | 2-1 |
| Unpacking | 2-1 |
| PC Programming Software Requirements | 2-1 |
| Diskette Handling | 2-2 |
| Making Backups | 2-2 |
| System Hook-up | 2-3 |
| Loading The Software | 2-5 |
| Software Installation | 2-5 |
| Program Entry | 2-6 |
| CHAPTER 3 GETTING STARTED | 3-1 |
| CHAPTER 4 RUNNING THE PROGRAM | 4-1 |
| Initialization | 4-1 |
| Setting Up The Program | 4-4 |
| Agency Partition Data | 4-5 |
| Frequency Range | 4-10 |

INTRODUCTION

Ericsson GE Mobile Communications, Inc. welcomes you to the world of mobile communications. We believe there is no equal to our products and have made a commitment to our customers to ensure that product satisfaction and reliable service is our number one priority.

Quality built and dependable, the MTD EDACS radio is designed with your specific radio needs in mind. We believe you will find an unparalleled level of user friendliness and programmable ease.

This manual is organized to support you in programming the MTD EDACS radio and will cover:

- the steps necessary to install the program,
- the procedures to actually program the personality,
- answers to some of your questions.

If you are a technician experienced in programming radios or a first time radio programmer, this manual has been written to give you a clear and concise understanding of the MTD EDACS radio.

CHAPTER 1

BEFORE YOU BEGIN

ABOUT THIS MANUAL

Specifically, this manual is designed to present you with all the necessary information required to connect the MTD EDACS radio to the computer and run the programming software.

Chapter 1 - provides you with some basic information you will need to know prior to running the software. It explains how to use the work sheets, keyboard layout, commonly used terms, and screen/window functionality.

Chapter 2 - contains a list of the contents of this package and instructions for installing the MTD EDACS radio software.

Chapter 3 - is a short tutorial that will lead you through the basic operation of the MTD EDACS Radio PC Programmer. If you are not familiar with programming procedures it is recommended that you take the time to complete the tutorial.

Chapter 4 - will instruct you in the creation of a MTD EDACS radio personality. The purpose of each screen/window is discussed in detail as well as what is required so that your radio will operate the way you want it to.

Chapter 5 - gives you file management information such as changing directories, changing file extensions, and deleting files.

Chapter 6 - is devoted to problem solving. It identifies the error messages that you will encounter and provides solutions and alternatives.

Appendices - The Appendices follow Chapter 6 and contain the following reference materials:

- A. Terms - Definitions of frequently used words.
- B. Function Keys - A listing of what function keys you will run across and a definition of what function they will perform.

- C. **Acceptable Values** - The range of values the PC Programmer will accept for a specific field.
- D. **Primary & Equivalent Digital Codes** - A table indicating usable Digital Channel Guard codes.
- E. **Channel Guard Tone Frequencies** - A table indicating standard EIA Channel Guard tone frequencies.
- F. **Channel Entry** - Provides a listing of TX FCC Channel numbers in conjunction with Transmit Frequency frequencies.
- G. **Work Sheets** - Prepared forms to assist you in organizing your thoughts prior to entering the data in the program.

Screen diagrams are used throughout this manual to help clarify section discussions. Each item being discussed is denoted by a number for easy identification.

Please pay particular attention to NOTES as they contain pertinent information that you should be aware of.

IMPORTANT TERMS

Default Value - The MTD EDACS radio software provides predetermined (default) values in a majority of the data entry fields within the program. Exceptions to this rule are fields requiring variable names, dates, and serial numbers. The default values assume that the radio will be used without optional features. Before changing these default values, we recommend that you be familiar with the operational implications of adding a particular feature or option to the radio being programmed.

Error Messages - Each time data is entered in the program a validity check is made to ensure that reasonable values were entered. In the event that the data does not fall within the acceptable range of values, an error message will be displayed in the center of the screen indicating non acceptance.

Field - Refers to the area of the screen/window which allows data entry. This area is readily identifiable by a reverse video bar when moving the cursor across the screen.

Help - Throughout the MTD EDACS radio software, Help denotes or refers to on-line assistance. This can be accessed by pressing the **F9 Help** or **Shift-F9 Help** key from any field.

Personality - Used generically to refer to information that is stored in the radio that makes one radio perform differently from all other radios. That information can be created, deleted or modified and stored on a disk for later reference.

Prompt Line - Assistance text located on the last line of the window. This line provides directions for entering data and changes when moving from field to field.

HOW TO USE WORK SHEETS

Work sheets can be found in Appendix G. They are pre-printed forms to assist you in organizing personality information prior to going to the computer. You are encouraged to make copies of these work sheets and fill them in before programming begins. Doing so can prevent costly and time consuming mistakes and can be used for future reference. Empty blocks in the work sheets are provided for you to fill in the desired values. Blocks with information already typed in represent toggle fields in the program where the appropriate response should be circled.

Maximum Number of Agencies - Work Sheet A in the Work Sheet folder. This work sheet will assist you in determining the number of fleets for each agency identified. There are 32 possible agencies. The information in these fields will affect all radios having agency partition data within a particular personality.

Trunked Frequency Sets - Work Sheet B in the Work Sheet folder. This work sheet will assist you in defining trunked frequency sets for the data base. The trunked frequency set describes the repeater channels for the system.

TQ-3346

Trunked Set Options - Work Sheet C in the Work Sheet folder. This work sheet will assist you in defining options associated with a trunked frequency set.

Conventional Frequency Sets - Work Sheet D in the Work Sheet folder. This work sheet will assist you in defining the conventional frequency sets for the data base.

Conventional Set Options - Work Sheet E in the Work Sheet folder. This work sheet will assist you in defining options associated with a conventional frequency set.

Group Sets - Work Sheet F in the Work Sheet folder. This work sheet will assist you in defining the group set definitions for the data base. A group set identifies each conversation group for a system and the options available to each group.

Group Set Options - Work Sheet G in the Work Sheet folder. This work sheet will assist you in defining options associated with the group set.

Special Call Sets - Work Sheet H in the Work Sheet folder. This work sheet will assist you in defining the special call set definitions for the data base. A special call set identifies the display name, call type, and number.

Keypad Limit Options - Work Sheet I in the Work Sheet folder. This work sheet will assist you in defining options associated with the special call set.

Radio Personalities - Work Sheet J in the Work Sheet folder. This work sheet will assist you in defining the radio personality.

Mobile Radio Options - Work Sheet K in the Work Sheet folder. This work sheet will assist you in defining the options associated with MTD EDACS mobile radios.

Menu Options - Work Sheet L in the Work Sheet folder. This work sheet will assist you in defining menu options available for MTD EDACS mobile radios.

Initial Settings - Work Sheet M in the Work Sheet folder. This work sheet presents initial radio state options available for MTD EDACS mobile radios.

Radio Parameters - Work Sheet N in the Work Sheet folder. This work sheet presents radio parameter options available for MTD EDACS mobile radios.

User Control Options - Work Sheet O in the Work Sheet folder. This work sheet will assist you in selecting radio alert tones and audio options associated MTD EDACS mobile radios.

Scan Options - Work Sheet P in the Work Sheet folder. This work sheet presents scan options available for MTD EDACS mobile radios.

Desk Top Options - Work Sheet Q in the Work Sheet folder. This work sheet presents desk top options available MTD EDACS mobile radios.

Status Options - Work Sheet R in the Work Sheet folder. This work sheet allows you to define status keypad data associated with the MTD EDACS mobile radio.

Message Options - Work Sheet S in the Work Sheet folder. This work sheet allows you to define message keypad data associated with the MTD EDACS mobile radio.

Wide Area Scan - Work Sheet T in the Work Sheet folder. This work sheet will assist you in defining the systems to be used in wide area scan.

HOW SCREENS WORK

Each screen is divided into three areas: (1) screen title, (2) screen windows, and (3) active function keys. The title tells you where you are in the program hierarchy. Screen windows provide for input of data to the screen. Active function keys provide access to commands (or actions) available within that screen. The function key commands are labeled along the bottom of the screen. Only the function keys with labels are enabled in a given screen or window.

A window is a section of a screen that displays previously stored information, enables programming alternatives, or accepts data currently being entered. There may be more than one window within a particular screen. Each window is outlined within the screen presentation.

There are two types of windows: active and passive. The active window is available for data entry or revision and can be identified by its highlighted borders. The passive window is displayed but is unavailable for program execution. In the case that windows have overlapping borders, the active window is presented in the foreground.

Like the screen, windows are divided into three distinct sections. They are: (1) window title, (2) work area, and (3) prompt line. The window title describes the function currently being performed. The work area is the space provided for your input to the window. The prompt line is printed information in the lower portion of the window defining in further detail action to be taken in the work area.

This program uses a series of presentation screens to guide you easily through the programming of a radio. There are five major categories of data entry screens:

- Current Personalities Screen
- Radio Personality Screen
- Currently Defined Frequency Sets Screen
- Currently Defined Group Sets Screen
- Currently Defined Special Call Sets Screen

Current Personalities Screen - The Current Personalities Screen lists the file names of all stored radio personalities presently maintained in this special directory. From this screen you can create a new personality (file) or make changes to existing personalities. You then have the option of initiating one of the actions indicated by the function keys at the bottom of the screen.

Radio Personality Screen - Data defining the radio personality is entered into the Radio Personality Screen which can be accessed from the Current Personalities Screen by pressing **F2 Change** or **F4 New**. Within this screen you can define the operational characteristics of the unit. This includes Name, Frequency Set, Site, Unit, Group Set, and Special Call Set.

Currently Defined Frequency Sets Screen - This screen shows the currently defined frequency sets residing in the data base. Immediately below the title is the directory in which the currently defined frequency sets reside. This directory is referred to as the Pool directory. From this screen you can create, edit or delete a frequency set.

Currently Defined Group Sets Screen - This screen shows the currently defined group sets residing in the data base. Immediately below the title is the directory in which the currently defined group sets reside. This directory is referred to as the Pool directory. From this screen you can create, edit or delete a groupset.

Currently Defined Special Call Sets Screen - This screen shows the currently defined special call sets residing in the data base. Immediately below the title is the directory in which the currently defined special call sets reside. This directory is referred to as the Pool directory. From this screen you can create, edit or delete a special call set.

SCREEN/WINDOW LAYOUT

| | | | | | | | | | |
|---------------------------------------------|--|--|---------------------------------|--|--|--|---------|--|--|
| Ericsson GE Mobile Communications Inc.—(1)— | | | | | | | | | |
| (2) Personalities | | | (3) MTD EDACS RADIO PROGRAMMING | | | | (4) A-1 | | |

(5) Current Personalities

(6)

(7)
Use the cursor keys to select the personality

(8)

| | | | | | | | | | |
|-------------|--------------|---------------|-----------|---------------|------------|----|----|------------|-------------|
| F1 Setup | F2 Change | F3 Utility | F4 New | F5 Program | F6 Read | F7 | F8 | F9 Help | F10 Exit |
|-------------|--------------|---------------|-----------|---------------|------------|----|----|------------|-------------|

Figure 1-1 - Screen/Window Layout

- | | |
|---------------------|---------------------------------------|
| (1) Division | - indicates Ericsson GE manufacturing |
| (2) Function | - indicates current function |
| (3) Product Title | - identifies product |
| (4) Level Indicator | - screen/window location in software |
| (5) Title | - screen/window title |
| (6) Work Area | - screen/window field area |
| (7) Prompt Line | - current field instruction line |
| (8) Function Keys | - supplies programming options |

All screens and windows will have some basic fields that are consistent throughout this document. The overall layout will be the same as shown in Figure 1-1.

- | | |
|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| Division | (1) The Ericsson GE Mobile Communications, Inc. Division field indicates the MTD EDACS radio manufacturer. |
| | This is a "Display Only" field which is always displayed at the top of the screen. |
| Function | (2) The Function field is used to indicate which programming function is active. |
| | This is a "Display Only" field which indicates the particular programming function of a screen/window. |
| Product Title | (3) The Product Title field is used to specify the product name and will identify which radio the programmer is intended to be used with. |
| | This is a "Display Only" field which is always displayed in the screen title. |
| Level Indicator | (4) The Level Indicator field is used to indicate the screen/window location in the program. |
| | This is a "Display Only" field used to indicate the particular window level in the program. |
| Window Title | (5) The Window Title field is used to indicate the title of a particular screen/window. |
| | This is a "Display Only" field consistently displayed at the top of each window. This field will vary to indicate which window is being displayed. |

(3) Current Personalities

(6)

Work
Area

- (6) The **Work Area** is the area of a screen or window where input fields are defined. Each window is unique in its available fields and each of these fields are identified in the window descriptions.

Entry to these fields will be determined by the purpose and content of each window. In most windows you can move between fields by using the arrowed cursor keys, **Home** and **End** keys, **TAB** and **<enter>** keys. Within a field you can use the arrowed cursor keys, space bar, **Delete** and alphanumeric keyboard keys. Sometimes, the field will be toggle only where the **TAB** key is the only active key in the field and the **<enter>** key will move you between fields. Usually, normal cursor progression is left to right, top to bottom.

NOTE

Throughout this document, the terms screen and window are used interchangeably.

Prompt
Line

- (7) The **Prompt Line** field is used to instruct you in field definition for specific fields.

This is a "Display Only" field, displayed at the bottom of a window. As you move from field to field, the prompt line will direct you for input in the particular field.

- Function Keys (8) The **Function Keys** are used to provide access to other options pertaining to the screen/window currently being displayed.

Pressing the desired function key will cause the program to perform the indicated function for that particular key. Following each window definition is a brief description of the operational function keys.

Occasionally, a screen or window will have subordinate windows that perform functions relating to them. These windows will be smaller in size and are referred to as "pop-up windows". Figure 1-2 illustrates a "pop-up" window overlaying a main screen. The highlighted border identifies the "pop-up" window as being active and all data entry/acceptance occurs within this window. Pressing **F10 Back** will always return you to the original window.

Please notice that the "pop-up" window is smaller in size than the regular window. The overall layout is still the same with the title at the top center of the screen and the prompt line at the bottom of the screen (when appropriate). The active function keys will continue to be listed below the window. When the "pop-up" window requests an action that will change the data base on disk, a continue prompt will appear requesting selection of a function key option.

| | | |
|----------------------------------------|-----------------------------|------|
| Ericsson GE Mobile Communications Inc. | | |
| (1) Port | MTD EDACS RADIO PROGRAMMING | L1-D |

| | |
|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| (2) | <div style="text-align: center;"> <p>Current Personalities - XXX</p> <p>X:\XXXXXXXX</p> </div> <div style="border: 1px solid black; padding: 5px; margin: 10px auto; width: 80%;"> <p>(3) (4)Communications Port Setup</p> <p style="text-align: center;">COMM Port X (5)</p> <p style="text-align: center;">Are you sure? Yes - Press F1 (6)</p> <p style="text-align: center;">No - Press F2</p> <p>(7)</p> <p>Enter the COMM Port ID</p> </div> <p style="margin-top: 10px;">Use the cursor keys to select the personality</p> |
|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

(8)

| | | | | | | | | | |
|-----------|----------|----|----|----|----|----|----|------------|-------------|
| F1 Yes | F2 No | F3 | F4 | F5 | F6 | F7 | F8 | F9 Help | F10 Back |
|-----------|----------|----|----|----|----|----|----|------------|-------------|

Figure 1-2 - "Pop-Up" Window

- | | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>(1) Function</p> <p>(2) Main Screen</p> <p>(3) "Pop-up" Window</p> <p>(4) Title</p> <p>(5) Work Area</p> <p>(6) Continue Prompt</p> <p>(7) Prompt Line</p> <p>(8) Function Keys</p> | <p>- indicates current function</p> <p>- indicates the main screen</p> <p>- indicates pop-up window</p> <p>- window title</p> <p>- area for specific field(s)</p> <p>- continue or abort option</p> <p>- current field instruction line</p> <p>- supplies programming options</p> |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Main Screen/(2) The Main Screen/Window is shown as a backdrop to the preceding "pop-up" window.

To enter this screen, you must press the appropriate function key(s).

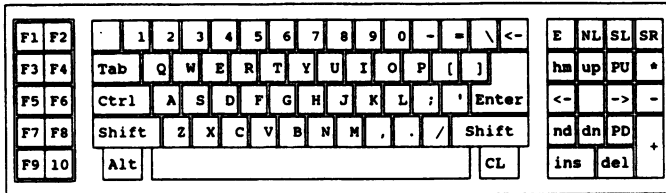
"Pop-up" Window (3) The "Pop-Up" Window is shown as the front window. This window is laid out the in the same manner as the main window. The title is displayed at the top, fields are in the center and where appropriate, the prompt line is displayed in the lower left corner.

Access is granted in this window as it is active.

- Continue Prompt (6) The **Continue Prompt** field is used to indicate whether or not you want to continue with the selected field selection.

By pressing **F1 Yes**, the field selection will be confirmed and the programmer will continue with the operation selected. Selecting **F2 No** indicates that the operation should not be performed and will return you to the previous window.

USING THE KEYBOARD



It is important that you be familiar with the keyboard of your computer system. Each keyboard is different in relation to the placement of some of the keys. In the PC Programming Software package there are categories of operational keys:

- Function
- Character
- Editing
- Movement
- Special Usage

The following sections give an overview of which keys are included in these categories and their functions. However, in some screens, such as the Current Personalities Screen, only the use of cursor keys is allowed because selection operation is all that is needed.

Function Keys

| | | | | | | | | | |
|----|----|----|----|----|----|----|----|----|-----|
| F1 | F2 | F3 | F4 | F5 | F6 | F7 | F8 | F9 | F10 |
|----|----|----|----|----|----|----|----|----|-----|

OR:

| | |
|----|-----|
| F1 | F2 |
| F3 | F4 |
| F5 | F6 |
| F7 | F8 |
| F9 | F10 |

The purpose of a particular function key is dependent upon the screen or window that is currently highlighted at any given point in the program. In other words, a function key may be labeled differently from one screen or window to the next. Be sure that you fully understand the purpose for any function key prior to pressing it.

The command or action associated with a particular function key is labeled on the lower portion of your screen. There are two types of function keys: Inactive and Active.

Inactive function keys have no operational capabilities during execution of a given screen and are not labeled on the screen.

Active function keys, on the other hand, are labeled. By pressing a specific function, the software executes the action delegated to that particular key.

The function keys are alphanumerically labeled F1 - F10. These keys will perform specific functions, depending upon which screen/window they appear in. The following Function Key Table represents their functionality in the MTD EDACS Radio Programming Software.

FUNCTION KEY TABLE

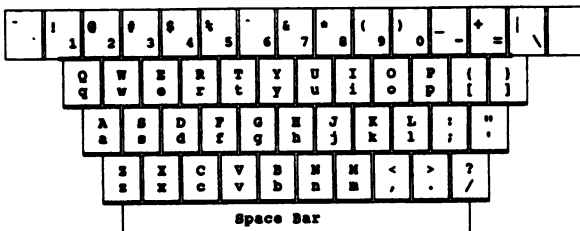
| | F1 | F2 | F3 | F4 | F5 | F6 | F7 | F8 | F9 | F10 |
|---|--------|---------|---------|--------|--------|--------|--------|------|------|------|
| A | Setup | Change | Utility | New | Progrm | Read | | | Help | Exit |
| B | Switch | Freq | Group | SpCall | | | | | Help | Back |
| C | | Change | NewTrk | NewCnv | Delete | | | | Help | Back |
| D | | | | FCC/TX | Store | | Option | | Help | Back |
| E | | Insert | Remove | | Store | | Option | | Help | Back |
| F | | Change | New | | Delete | | | | Help | Back |
| G | | Insert | Remove | | Store | | Option | | Help | Back |
| H | Port | Environ | Dir | | Delete | Print | Ext | | Help | Back |
| I | Detail | Insert | Remove | | Progrm | | Mobile | More | Help | Back |
| J | Detail | Freq | Group | Text | | SpCall | SysScn | More | Help | Back |
| K | Menu | Initial | Param | User | Scan | Desk | | More | Help | Back |
| L | Agency | | Stat | MSG | | | | More | Help | Back |
| M | Print | | | | | | | | Help | Back |
| N | Yes | No | | | | | | | Help | Back |
| O | | | | | | | | | Help | Back |

- A. Current Personalities Screen
- B. Agency Partition Data Window, Frequency Range Window
- C. Currently Defined Frequency Sets Window
- D. Trunked Frequency Set Window
- E. Conventional Frequency Set Screen
- F. Currently Defined Group Sets Screen, Currently Defined Special Call Sets Screen

TQ-3346

- G. Group Set Summary Window, Special Call Set Window
- H. Current Personalities (Utility) Window
- I. Radio Personality Screen
- J. Radio Personality "More" Screen
- K. Mobile Radio Options Window
- L. Mobile Radio Options "More" Window
- M. Print Personality Window
- N. Change/Edit File, Delete File, Store File, Save File, Program Radio, Read Radio, Communications Port Setup, Change Directory, Change Extension
- O. Trunked Set Options, Conventional Set Options, Keypad Limit Options, Change Environment Setting, Menu Options, Initial Settings, Radio Parameters, User Control Options, Scan Options, Desk Top Options, Status Keypad Definitions, Message Keypad Definitions, Wide Area Scan

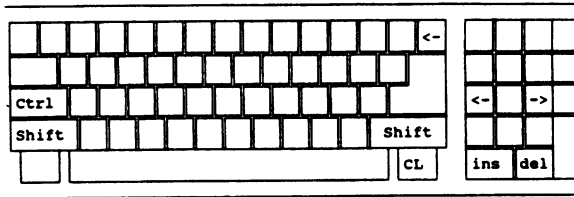
Character Keys



Character keys are used to enter data into a field. When pressed, the software inserts that character in the field position designated by the cursor and then advances to the next available character position. Character keys for the purposes of this PC Programming Software package are:

- Alphabetic: (a - z) and (A - Z)
- Numeric: (0 - 9)
- Special Characters ~ ' ' " , . ? ! ; : @ # \$ % ^ & * | - + = < > { } [] () \ /
- Space Bar

Editing Keys



Editing keys manipulate the data within a field. These keys are:

Left and Right Arrows: Each time one of these arrows is pressed it moves the cursor one character to the left or right until the left or right most position is reached.

Backspace: As the cursor moves to the left the character immediately to the left of the cursor is deleted.

Insert: This key toggles the insert operation on and off. The insert operation enables you to insert a character or a string of characters without overwriting any previously entered information.

Delete: This key enables you to delete a character or a string of characters.

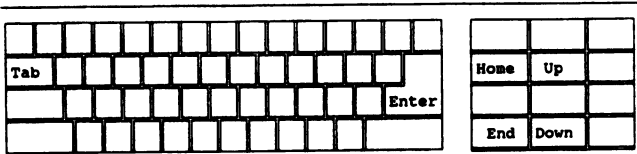
Shift/Caps Lock: Enabled, the Shift and Caps Lock key writes all alphabetic characters in capitalized letters.

Control/Left Arrow: When both keys are simultaneously pressed, the cursor is moved to the left most character in the field.

Control/Right Arrow: When both keys are simultaneously pressed, the cursor is moved to the right most character in the field.

Control Backspace: By simultaneously pressing both keys all characters to the left of the cursor are deleted and then all characters opposing the deletion are moved right or left to fill the space.

Movement Keys



These keys enable the movement or cursor positioning on the screen. They are also used to indicate an end of input in the current field.

<enter>: The data entered into the present field is accepted and the cursor is advanced to the next field.

Up Arrow: The data entered into the present field is accepted and the cursor is returned to the previous field.

Down Arrow: The data entered into the present field is accepted and the cursor is advanced to the next field.

Home: Moves the cursor to the first field in the window.

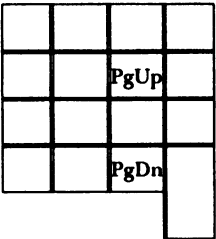
End: Moves the cursor to the final field in the window.

TAB: Toggles a predetermined field between selections such as a Yes or No response. May also move the cursor into the next field.

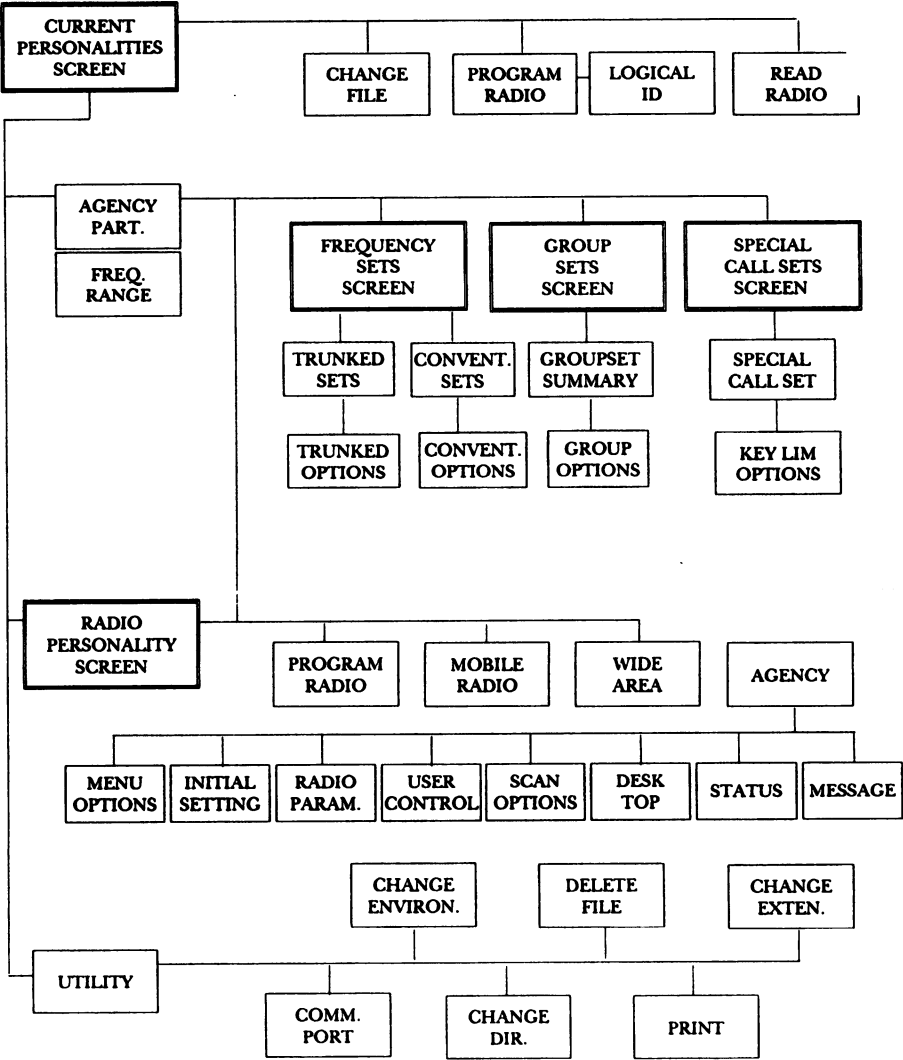
Special Usage Keys

Two keys are represented in this category:

Page Up (Pg Up): This key will advance you to the previous page in the Current Personalities Screen, in the Currently Defined Frequency Sets, Group Sets, and Special Call Sets Screens. Also in the Radio Personality Screen, the screen will advance one page at a time until the beginning page is key is also used in a similar manner in the Help Windows.



Page Down (Pg Dn): This key will advance you to the following page in the Current Personalities Screen, in the Currently Defined Frequency Sets, Group Sets, and Special Call Sets Screens. Also in the Radio Personality Screen, the screen will advance one page at a time until the last page is reached. This key is also used in a similar manner in the Help Windows.



MTD EDACS Radio PC Programming Flow Chart

CHAPTER 2 INSTALLATION

UNPACKING

Upon unpacking this package you should be sure you have received the following:

- Radio Programming Software (TQ-3346), to include:
Three double-sided, double-density 5-1/4 inch diskettes, (labeled "Program Disk #1, #2 and #3").
Or, two 3-1/2 inch diskettes, (labeled "Program Disk #1 and #2").

PC PROGRAMMING SOFTWARE REQUIREMENTS

The following hardware and software is required to program the MTD EDACS radio:

- A. IBM PC/XT/AT or any true compatible with MS-DOS version 3.0 or later, and having the following minimum configuration:
 1. Two Disk Drives, either dual flexible (floppy) or a single floppy with a fixed (hard) disk drive system.
 2. 640K Internal RAM.
 3. Serial Port.
 4. Parallel Port (recommended) for connection of a printer.
- B. Serial Programming Interface Module (TQ-3310) and RS-232 Cable (19B235027P1).
- C. Radio Programming Cable (TQ-3354).
- D. MTD EDACS (TQ-3346) Radio Programming Software.
- E. Printer (optional, but recommended).

DISKETTE HANDLING

While working with your diskettes you may want to consider the following handling procedures:

- Always store your diskettes in their envelope.
- Insert diskettes into the drive carefully.
- Use only felt tipped pens to write on diskette labels.
- Store your diskettes at a comfortable room temperature.
- Refrain from touching the recording surface.
- Do not bend the diskettes.
- Do not allow any form of liquid to come in contact with the diskette surface.
- Keep diskettes away from magnetic force fields as found in electronic equipment.

If you follow these simple guidelines you will receive long service from your diskettes.

MAKING BACKUPS

The PC Programming Software is provided to you on three double-sided double-density 5-1/4 inch diskettes, labeled "Program Disk #1" through "Program Disk #3". Two 3-1/2 inch diskettes are also provided. These diskettes are very sensitive and fragile and, therefore, should be handled with care and stored in a secure area.

We recommend that, upon receipt of your diskettes, you copy the original PC Programming Software diskettes to other diskettes or a fixed disk and store the originals in a safe place. This ensures the availability of an accurate program should a copy fail during program applications. The copy you have made for your daily programming tasks will be referred to in this manual as the "working copy".

NOTE

It is important to use the Diskcopy command when making backups and not the Copy or Xcopy command. Each diskette contains a volume label that is required for the installation process. Copy and Xcopy do not copy volume labels so please refrain from using these commands.

SYSTEM HOOK-UP

Connect all peripheral equipment to your computer prior to configuring the PC Programming Software items. Remember to refer to the operating manuals of each device for correct installation procedures.

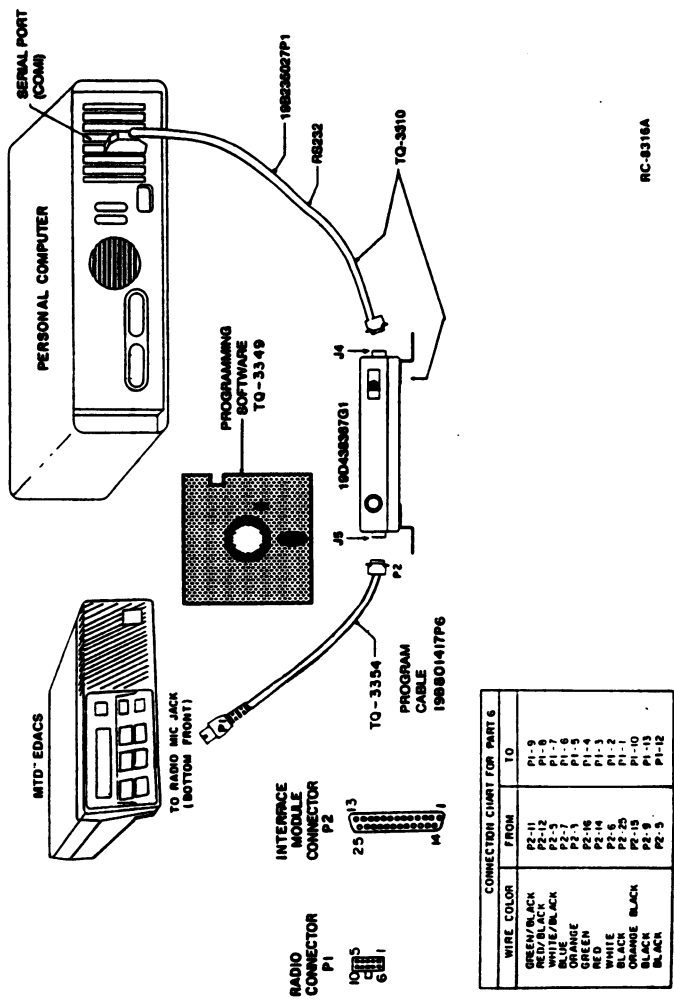
If your system is already established, check to see that you have all the equipment necessary to execute the program. Isolate all cables connecting computer to devices to prevent tangling, interference and damage.

Step One:

Refer to the appropriate system hook up figure and then look at your computer to locate a serial port. This port will usually be located at the rear of the computer. However, since this is dependent upon the design of your computer refer to the computer operator's manual for directions.

The IBM PC/XT/AT systems support up to two serial ports. There are two physical standards for the serial port configurations of personal computers. The most common is the 25 pin RS-232 output that has a DB-25 male connector at the computer. The other standard is a DB-9 male connector at the computer (used on the IBM-AT and many portable lap-top computers). The PC Interface Module, like most data communications equipment, uses a standard RS-232, DB-25, female connector. If your computer uses a DB-9 connector, you will need to purchase a DB-9/DB-25 interface cable from your local computer dealer.

Please note at this point that the MTD EDACS Radio PC Programming Software only communicates with the radio and its interface on the serial port designated as COM1 or COM2. Your computer references will assist you in determining which serial port has been so designated. Once located, examine the keyed plug on the RS-232 cable for the correct keyed end and insert it carefully into the appropriate serial port on the computer.



RC-3316A

Figure 2-1 - Programming System Hook-Up

The other end of the RS-232 cable should now be connected into the computer receptacle on the PC Interface Module. Check carefully to ensure that plugs are fully seated in the receptacle and, if retaining screws are included, that they are carefully tightened to firmly hold the plug in place. Should the plug not seat correctly to its receptacle, remove the plug and examine the pins to determine if the proper plug was inserted and to determine if pins are aligned and undamaged. Damaged pins and broken connections will cause the PC Programming Software to fail.

Step Two:

Position your MTD EDACS radio on your work area in a convenient place. In order to program the unit, you must connect the radio to a DC power supply. Ensure that power is applied to the radio prior to attempting programming.

Connect the PC Programming Cable as depicted in Figure 2-1. The programming cable is inserted into the receptacle on the bottom of the unit. Again you should ensure that the plug is fully seated in its receptacle. The microphone connector must be removed before connecting the cable.

Loading The Software

The PC software can be installed on a fixed drive or run from floppy diskettes in a dual floppy drive configuration.

Software Installation

This section is for hard drive users only. If dual floppies are being used, skip this section and go on to "Program Entry".

5-1/4 Inch Diskettes:

When using 5-1/4 inch diskettes, the software installation is initiated by inserting the Program Diskette in floppy drive A: and typing the following:

INSTALL <enter>

3-1/2 Inch Diskette:

When using the 3-1/2 inch diskette, the software installation is initiated by inserting the Program Disk in drive A: and typing the following:

INSTALL <enter>

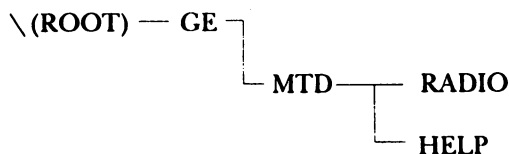
An Installation Screen will appear prompting you for the correct drive letter. The target drive is used to indicate which disk drive the program will be loaded to. (It must be a hard drive.) Press **F1 Begin**. This will cause the program to copy the files from the distribution diskette to your hard drive.

During the install routine, the program will prompt you to remove the first disk and insert the second, the third, etc.

Program Entry

To help you manage your PC Programming Software, Ericsson GE has created a directory structure, or filing system, for your programs. This filing system is created whenever any PC Programming Software is installed on your hard disk and also applies to floppy disk users.

When the MTD EDACS Radio PC Programming Software is installed, a directory structure consisting of four subdirectories is created. This structure is represented graphically as follows:



The first directory created is the GE directory; the main directory under which all PC programming software will be stored. This directory will contain a batch file that is used to invoke the MTD software. From the GE directory, the MTD directory is created. This directory stores the channel data created during program operation and all of the executable programs.

The PC Programming Software is distributed with a number of help files that reside in the Help directory and are used by the program whenever the **F9 Help** or **Shift-F9 Help** key is pressed. These files are only required to support the on-line help facility and may be removed if on-line help is no longer required. The final directory created is the Radio directory. The purpose of this directory is to hold the personalities created during program operation.

Directories can be used very effectively in organizing your programming personalities. It is highly recommended that you familiarize yourself with directories. Refer to your DOS Users Manual for more information.

Once you have completed the installation procedure, the following steps may be taken to access the MTD EDACS Radio PC Programming Software:

Hard Disk:

To ensure that the current drive is the drive entered as the target drive during installation, type

C: <enter>

(The drive indicated here should be the letter of the drive specified as the target drive during program installation.)

To ensure that the current path is the GE Programming directory, type

cd GE <enter>

To load the MTD EDACS PC Programming Software into memory, type

MTD <enter>

After a brief introductory screen appears identifying the program, the Current Personalities Screen will appear.

TQ-3346

Dual Floppy:

5-1/4 Inch

When the MTD EDACS PC Programming Software is used in a dual floppy configured computer

1. Insert the DOS disk in drive A and turn on or "boot up" or turn on the computer.
2. Place a blank formatted disk in drive B.

NOTE

The formatted disk in Drive B will become your data disk where you will store the personality information and data for the radio.

3. Replace the DOS disk in Drive A with the PC Programming Software disk labeled "Program Disk #1".
4. At the prompt, type:

```
A: <enter>  
cd GE <enter>  
MTD <enter>
```

This will run the batch file which executes the main program and switches the current directory to Drive B to store and edit the personality files.

5. When the program comes up, insert Program Disk #2 into Drive A to allow access to the read, write and print programs.
6. When Helps are desired, remove Program Disk #2 and insert Program Disk #3 into Drive A. Replace Program Disk #2 when Helps are not needed.

NOTE

Always place Program Disk #1 in Drive A when exiting the program.

3-1/2 Inch

1. Insert the DOS disk in Drive A and "boot up" or turn on the computer.
2. Place a formatted diskette in Drive B.

NOTE

The formatted disk in Drive B will become your data disk on which you will store the personality information and data for your radio.

3. Replace DOS disk in Drive A with PC Programming Software disk labeled Program Disk #1.
4. At the prompt, type:

A: <enter>
cd GE <enter>
MTD

This will run the batch file which executes the main program and switches the current directory to Drive B to store and edit the user's personalities.

5. When the program comes up, insert Program Disk #2 into Drive A to permit access to the read, write, print and help files.

NOTE

Always place Program Disk #1 in Drive A when exiting the program.

This page intentionally left blank

CHAPTER 3

GETTING STARTED

The following brief tutorial is designed to give you an understanding of how the program operates and to also give you some hands on experience before you begin actual programming. You are encouraged to explore the program and view all screens and windows during this tutorial. On-line assistance is available at any in this program by pressing **F9 Help**. This key enables a help message for the field you are in.

Before you begin this tutorial refer to your hardware set up and be sure the radio is set up according to installation procedures in Chapter 2. Once installation is completed, follow the Program Entry steps for Hard Disk or Dual Floppy. After you have typed "MTD" and pressed **<enter>**, the Current Personalities Screen will appear. You are now ready to begin this tutorial.

When programming a radio, it is advised that you first fill out the necessary work sheets (located in Appendix G of this manual). These work sheets will assist you while you are programming the radio and serve as reference material should questions arise during radio operation. Work sheets for this tutorial have already been filled out and precede the window you will be working in. To become better acquainted with work sheets and window layout, reference the work sheets as you complete the tutorial.

From the Current Personalities Screen, press **F1 Setup**.

This will take you into the Agency Partition Data Window. Before any personality can be created the number of agencies and fleets per agency must be defined. Because a portion of the personality has already been created for this tutorial, it is not necessary to define the agency partition data.

Press **F1 Switch** in the Agency Partition Data Window.

This brings you into the Frequency Range Window where band split selection can be made. The reverse video bar should be highlighting the 800 split.

TQ-3346

Press F2 Freq.

This will bring you into the Currently Defined Frequency Sets Screen. This screen identifies the frequency sets that have been created. These sets are then used to create a radio personality. This tutorial has already created two frequency sets: TRUNK and CONVENT.

Position your cursor on the TRUNK field and select **F2 Change**.

A window will appear showing TRUNK as the file to be edited.

Select **F1 Yes**.

Work Sheet B - Trunked Frequency Sets

Set Name: **TRUNK**

| CH NO. | TRANS FREQ. | RECEIVE FREQ. | FCC CHAN TRANS. FREQ. | CH NO. | TRANS FREQ. | RECEIVE FREQ. | FCC CHAN TRANS. FREQ. |
|--------|-------------|---------------|-----------------------|--------|-------------|---------------|-----------------------|
| 01 | 806.0125 | 851.0125 | | 14 | | | |
| 02 | 823.0000 | 868.0000 | | 15 | | | |

Your work sheet indicates that the transmit frequency set for Channel 1 should be "806.0125". However, the window shows the field is "807.0250".

Position your cursor in the Tx Freq field for Channel 1. Press **Ctrl-Backspace** to clear the field. Type **806.0125**. Press **<enter>**.

Notice that the Rx Freq field is automatically changed at 45 MHz greater than the entered transmit frequency.

Channel 2 settings are correct according to the work sheet.

Select **F10 Back**.

The Save File Window will appear indicating TRUNK as the frequency set to be saved.

Select **F1 Yes** to save the change.

A prompt will inform you that this file already exists allowing you to overwrite the file or go back into the Save File Window to select another name.

You want to overwrite the existing file, press **Y**.

This returns you to the Currently Defined Frequency Sets Screen.

Position your cursor over CONVENT and select **F2 Change**.

A window will appear showing CONVENT as the file to be edited.

Select **F1 Yes**.

Work Sheet D - Conventional Frequency Sets Sheet 1

Set Name: CONVENT

| CH NO | CHANNEL NAME | TRANSMIT FREQ. | RECEIVE FREQ. | TRANS. CG | STE |
|-------|--------------|----------------|---------------|-----------|-----------|
| 1 | CHAN-1 | 808.2500 | 853.2500 | 88.5 | On Off |
| 2 | CHAN-2 | 815.0000 | 864.2500 | 100.0 | On Off |

Sheet 2

| CHAN. NO | RECEIVE CG | TRANSMIT LOCKOUT | CARRIER CONTROL TIMER | OSCILLATOR SHIFT | SCAN | PORT POWER |
|----------|------------|-----------------------------------------|-----------------------------------------|-----------------------------------------|-----------------------------------------|--------------------------------------------------------------------------|
| 1 | 91.5 | On <input checked="" type="radio"/> Off | <input checked="" type="radio"/> On Off | Yes <input checked="" type="radio"/> No | <input checked="" type="radio"/> On Off | Low <input checked="" type="radio"/> Hi |
| 2 | 123.0 | On <input checked="" type="radio"/> Off | On <input checked="" type="radio"/> Off | Yes <input checked="" type="radio"/> No | <input checked="" type="radio"/> On Off | <input checked="" type="radio"/> Low <input checked="" type="radio"/> Hi |

In Channel 1, CHAN-1, the Scan field is set to "Off". Your work sheet indicates it should be set to "On".

Use the **<enter>** key to advance to the Scan field. Using the **TAB** key as a toggle switch, select **On**.

Also in Channel 1, CHAN-1, the Port PWR field is defined as "Low". Your work sheet indicates the selection should be "Hi".

Press **<enter>** to go into the Port PWR field. Using the **TAB** key as a toggle switch, select **Hi**. Press **<enter>** to advance to the next channel.

In Channel 2, CHAN-2, the work sheet designates the receive frequency to be set at "864.2500". When the TX Freq frequency was entered at "815.0000" the RX Freq field automatically defaulted to "860.0000" (45 Mhz greater than the Tx Freq field).

Press **<enter>** to go into the RX Freq. Press **Ctrl-Backspace** to clear the field. Type **864.2500**.

Once these changes have been made you will want to save them and return to the Currently Defined Frequency Sets Screen.

Select **F10 Back**.

The Save File Window will appear indicating CONVENT as the frequency set to be saved.

Select **F1 Yes** to save the change. You want to overwrite the existing file, press **Y**.

Now that frequency sets have been defined and saved to disk you should define group sets.

Press **F10 Back** to exit the Currently Defined Frequency Sets Screen and return to the Agency Partition Data and Frequency Range Windows. Select **F3 Group**.

The Currently Defined Group Sets Screen will appear. It looks very similar to the Currently Defined Frequency Sets Screen and indicates the group sets that have been defined and saved.

Position your cursor over the GROUPS file and select **F2 Change**.

A window will appear showing GROUPS as the file to be edited.

Select **F1 Yes**.

The Group Set Summary Window will appear.

Work Sheet F - Group Sets

GROUP SET NAME: GROUPS

| GROUP | GROUP NAME | GROUP ID NUMBER | TYPE | SCAN | KNOB SELECT | ICALL |
|-------|------------|-----------------|----------------------------|-----------|-------------|-----------|
| 1 | HENDERSN | 119 | Normal Encode Decode | On Off | On Off | On Off |
| 2 | PARKER | 127 | Normal Encode Decode | On Off | On Off | On Off |

In Group 1, HENDERSN, the ICall field is set to "Off". Your work sheet indicates the ICall field should be set to "On".

TQ-3346

Press <enter> to advance to the ICall field. Using the **TAB** key as a toggle switch, select **On**.

In Group 2, PARKER, the Type field is defined as "Encode" while the work sheet indicates it should be set to "Decode".

Cursor into the Type field in Group 2. Use the **TAB** key to toggle, and select **Decode**.

Now that these changes have been made, you are ready to save them and return to the Currently Defined Group Sets Screen.

Select **F10 Back**.

The Save File Window will appear indicating GROUPS as the group set to be saved.

Select **F1 Yes** to save the change. You want to overwrite the existing file, press **Y**.

The group sets have been defined and saved to disk. You are almost ready to begin programming the radio personality, but first you must define special call sets.

Press **F10 Back** to exit the Currently Defined Group Sets Screen and return to the Agency Partition Data and Frequency Range Windows. Select **F4 SpCall**.

The Currently Defined Special Call Sets Screen will appear. It also looks very similar to the Currently Defined Frequency Sets Screen and indicates the special call sets that have been defined and saved.

Position your cursor over the SPECIAL file and select **F2 Change**. A window will appear showing SPECIAL as the file to be edited. Select **F1 Yes** and the Special Call Set Window will appear.

Work Sheet H - Special Call Sets

SPECIAL CALL SET NAME: SPECIAL

| CALL | NAME | TYPE | KNOB SELECT | NUMBER |
|------|---------|---------------------------|---------------|--------|
| 1 | BRAXTON | TELE <u>CAL1</u> DTMF ALL | ON <u>OFF</u> | 130 |
| 2 | MANLEY | TELE CAL1 <u>DTMF ALL</u> | ON <u>OFF</u> | |

In Call 1, BRAXTON, the Type field is set to "DTMF". Your work sheet indicates this field should be set to "CAL1".

Press <enter> to advance to the Type field. Using the TAB key as a toggle switch, select **CAL1**.

Because "DTMF" had been selected in the Type field in the Special Call Set Window, no number was entered in the Number field.

Press <enter> to advance into the Number field. Type **130**.

In Call 2, MANLEY, all fields are set according to the work sheet.

Now that the Special Call Set Window has been defined according to the work sheet, you are ready to save them and continue on into the Radio Personality Screen where you can define the personality.

Select **F10 Back**.

The Save File Window will appear indicating SPECIAL as the special call set to be saved.

Select **F1 Yes** to save the changes. You want to overwrite the existing file, press **Y**.

Press **F10 Back** to exit the Currently Defined Special Call Sets Screen.

TQ-3346

Press **F10 Back** again to return to the Current Personalities Screen.

Select **F4 New** and the Radio Personalities Screen will appear.

Work Sheet J - Radio Personalities
Sheet 1

PERSONALITY NAME: **PERS1**

| SYSTEM NUMBER (1-48) | SYSTEM DISPLAY NAME | FREQ. SET | TYPE (T/C) | SITE ID (1-32) | UNIT NUMBER (1-16382) |
|----------------------------|------------------------|--------------|---------------------------------------------------------------|----------------------|-----------------------------|
| 1 | SAMPLE1 | TRUNK | <input checked="" type="radio"/> T <input type="radio"/> C | 3 | 2080 |
| 2 | SAMPLE2 | CONVENT | <input type="radio"/> T <input checked="" type="radio"/> C | | |

Work Sheet J - Radio Personalities
Sheet 2

PERSONALITY NAME: **PERS1**

| SYS NO. (1-48) | GROUP SET | SPECIAL CALL SET | EMERGENCY EMERG AUDIO (On/Off) | EMERGENCY DISPLAY (On/Off) | COL TIME |
|----------------------|-----------|---------------------|------------------------------------------------------------------|------------------------------------------------------------------|-------------|
| 1 | GROUPS | SPECIAL | <input checked="" type="radio"/> On <input type="radio"/> Off | <input checked="" type="radio"/> On <input type="radio"/> Off | 2 |
| 2 | | | On Off | On Off | |

Once the Radio Personality work sheets have been filled out, you can define the Radio Personality Screen. The first field to define is the name field. This field specifies the display name for the system when the unit has this system selected.

Type **SAMPLE1** and press **<enter>**.

The frequency set you want to use in this system is the frequency set you created earlier in the Trunked Frequency Set Window.

Type **TRUNK** and press **<enter>**.

The programmer will pull in the trunked frequency set specified and indicate which frequency set you selected by automatically placing a "T" in the Type field. The Site ID field indicates the site identification of the system with a trunked frequency set.

Type **3** in the Site ID field and press **<enter>**.

The Unit ID field specifies the logical identification of this unit while on this system.

Type **2080** in the Unit ID field and press **<enter>**.

The group set you want to use in this system is the group set you created earlier in the Group Set Summary Window.

Type **GROUPS** and press **<enter>**.

The special call set you want to use in this system is the special call set you created earlier in the Special Call Set Summary Window.

Type **SPECIAL** and press **<enter>**.

The Emg Aud and Emg Dsp fields are to be set to "On" but automatically default to "Off".

Using the **TAB** key as a toggle switch, select **On** in the Emg Aud field and press **<enter>**. In the Emg Dsp field, toggle the field to **On** also and press **<enter>**.

The Failsoft field indicates which channel the unit will tune to if the system falls into conventional failsoft. This field is to be left blank to disable the conventional failsoft operation.

Move your cursor to the System 2, Name field. Type **SAMPLE2** and press **<enter>**. In the Freq Set field type **CONVENT** and press **<enter>**.

TQ-3346

System 2 will be defined using a conventional frequency set. The programmer will pull in the conventional frequency set specified and indicate to you which frequency set you selected by automatically placing a "C" in the Type field. When defining a system using a conventional frequency set it is not necessary to define all the fields in the Radio Personality Screen.

You have now completed program input for the radio personality. Your window should look like the one shown in Figure 3-1, PERS1.

Ericsson GE Mobile Communications Inc.

Personalities

MTD EDACS RADIO PROGRAMMING

A-1

Radio Personality

806 - 870 Mhz

| Sys Name | Freq Set | Type | Site | Unit | Grp Set | Spc Set | Emg Aud | Emg Dsp | FS Chan |
|-----------|----------|------|------|------|---------|---------|---------|---------|---------|
| 1 SAMPLE1 | TRUNK | T | 3 | 2080 | GROUPS | SPECIAL | On | On | |
| 2 SAMPLE2 | CONVENT | C | | | | | | | |
| 3 | | | | | | | | | |
| 4 | | | | | | | | | |
| 5 | | | | | | | | | |
| 6 | | | | | | | | | |
| 7 | | | | | | | | | |
| 8 | | | | | | | | | |

Enter System Display Name

Free Space: 1779

F1 Detail

F2 Insert

F3 Remove

F4

F5 Progrm

F6

F7 Mobile

F8 More

F9 Help

F10 Back

Figure 3-1 - PERS1

Press **F10 Back**.

The Save File Window will appear. This window is where you name the personality and save it to disk.

Type **PERS1**. Select **F1 Yes**.

The new personality name will appear in the Current Personalities Screen.

The next step is to program the personality into the radio.

NOTE

Do not attempt the next sequence without ensuring that the Serial Programming Interface Module is properly connected. Failure to attach the Serial Programming Interface Module prior to a program or read operation may result in system lock-up. Should this occur, refer to Chapter 6 of this manual.

Select **F5 Program** and the Program Radio Window will appear.

The highlighted personality in the Current Personalities Screen will appear in the Selected Filename field.

If the name in the Selected Filename field is different than PERS1, press **Ctrl-Backspace** to clear the field. Type **PERS1**. Select **F1 Yes**.

A message will appear on the screen indicating that the personality is being downloaded into the radio. The program operation is finished when the program window disappears from the screen.

You can also read the personality of the radio if you like.

Select **F6 Read** and type **PERS2**. Press **F1 Yes**.

The program will then handshake with the radio and read the personality out of the radio into the file PERS2. When the operation is finished the windows will disappear and the Current Personalities Screen will reappear showing the newly created personality PERS2.

You have now completed the tutorial. You can delete the personalities if you like or keep them in your program for future reference.

To delete a personality move cursor to the personality you want deleted. Select **F3 Utility**, press **F5 Delete**, press **F1 Yes** and type **Y**.

The selected personality will be deleted from the disk and will no longer appear in the Current Personalities Screen.

This page intentionally left blank

CHAPTER 4

RUNNING THE PROGRAM

INITIALIZATION

Depending on its manufacturer, your personal computer will have certain unique operating characteristics which make it different from other computers of similar capability. For example, file names and file extensions must conform to the requirements of your disk operating system. We, therefore, recommend that you become fully conversant with your computer's disk operating system and its operating manual prior to beginning this program.

When you turn on your personal computer, it begins an initialization routine which every system must go through to prepare for operation. During the initialization of your system, the MS-DOS program is loaded into memory. Remember that MS-DOS is the interpreter between your keyboard actions and the capabilities of the PC Programming Software.

Once the PC is initialized and you have received the DOS prompt, you should type:

cd GE <enter>

MTD <enter>

After a brief introductory screen the Current Personalities Screen will appear.

| | | | | | | | | | |
|----------------------------------------|-----------------------------|--|--|--|--|--|-----|--|--|
| Ericsson GE Mobile Communications Inc. | | | | | | | | | |
| (1) Personalities | MTD EDACS RADIO PROGRAMMING | | | | | | A-1 | | |

(2) Current Personalities - XXX (3)

(4) X:\XXXXXXXX (5)

(6)

(7)
Use the cursor keys to select the personality

| | | | | | | | | | |
|-------------|--------------|---------------|-----------|---------------|------------|----|----|------------|-------------|
| F1 Setup | F2 Change | F3 Utility | F4 New | F5 Program | F6 Read | F7 | F8 | F9 Help | F10 Exit |
|-------------|--------------|---------------|-----------|---------------|------------|----|----|------------|-------------|

Figure 4-1 - Current Personalities Screen

- | | |
|-----------------------|--------------------------------------|
| (1) Function | - indicates personalities function |
| (2) Screen Title | - current personalities screen |
| (3) Default Extension | - designated extension |
| (4) Current Drive | - designated drive |
| (5) Current Directory | - designated directory name |
| (6) Personality Area | - personalities in current directory |
| (7) Prompt Line | - current field instruction line |

The Current Personalities Screen, shown in Figure 4-1, is the main screen for the MTD EDACS radio programmer. From this screen you will be able to create personalities, program personalities into the radio and read personalities out of the radio. To access a personality, move the cursor (reverse video bar) across the screen using the arrowed cursor keys. There is room available for up to 70 personalities on the screen. Once the screen is full additional personalities can be accessed by using the **Pg Dn** and **Pg Up** cursor keys.

NOTES

- 1) Throughout this document the term personality is used. Personality is used generically to refer to the information stored in one radio causing it to operate differently from another radio.
- 2) Whenever the program is initiated, the extension will default to the extension used when the program was last run. Only personalities with the extension identified are listed in this screen.

From the Current Personalities Screen, function key options are:

- | | |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| F1 - Setup | Select this option if you want to: Select your personality creation defaults. |
| F2 - Change | Select this option if you want to: Change or edit an existing personality. |
| F3 - Utility | Select this option if you want to: Change the communication port, directory, extension, or environment; delete a personality; print a personality to the file, screen, or printer. |
| F4 - New | Select this option if you want to: Create a new personality. |
| F5 - Program | Select this option if you want to: Program a radio with the personality selected. |
| F6 - Read | Select this option if you want to: Read the personality out of the radio. |
| F9 - Help | Select this option if you want to: Receive further information pertaining to a field area. |
| F10 - Exit | Select this option if you want to: Terminate the program and return to the control of DOS. |

SETTING UP THE PROGRAM

To set up the program you will first need to select the **F1 Setup** key while in the Current Personalities Screen. The setup portion of this program consists of the Agency Partition Data Window and the Frequency Range Window.

The Agency Partition Data Window must be defined before any personalities can be created. This window allows you to initialize agency/fleet/subfleet partitioning.

The band split default is defined in the Frequency Range Window. The band split identifies the appropriate frequency range of frequency sets during creation.

Once agency data and band split defaults are established, you may continue to create frequency sets, group sets, and special call sets. These sets are records or files of information created and stored on disk by the programmer.

The Currently Defined Frequency Sets Screen can be accessed by selecting **F2 Freq.** Frequency sets contain system frequency settings.

The Currently Defined Group Sets Screen can be accessed by selecting **F3 Group.** Group sets contain group ID's and the state of each group option.

The Currently Defined Special Call Sets Screen can be accessed by selecting **F4 SpCall.** Special call sets contain a list of phone numbers and/or individual radio ID's.

Agency Partition Data

| | |
|----------------------------------------|-----------------------------|
| Ericsson GE Mobile Communications Inc. | |
| (1) Setup | MTD EDACS RADIO PROGRAMMING |
| A-1 | |

| | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>(2) Agency Partition Data</p> <p style="text-align: center;">Number of Agencies: XX (3)</p> <p style="text-align: center;">Agency No - Fleets per Agency</p> <p>(4) (5)</p> <p style="text-align: center;">0-XXX 1-XXX</p> <p>(6)</p> <p style="text-align: center;">Enter number of agencies</p> | <p style="text-align: center;">Frequency Range</p> <p style="text-align: center;">800 - 806 - 870</p> <p style="text-align: center;">900 - 896 - 941</p> |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|

| | | | | | | | | | |
|--------------|------------|-------------|--------------|----|----|----|----|------------|-------------|
| F1 Switch | F2 Freq | F3 Group | F4 SpCall | F5 | F6 | F7 | F8 | F9 Help | F10 Back |
|--------------|------------|-------------|--------------|----|----|----|----|------------|-------------|

Figure 4-2 - Agency Partition Data Window

- | | |
|------------------------|--------------------------------------|
| (1) Function | - indicates setup function |
| (2) Window Title | - agency partition data window |
| (3) Number of Agencies | - shows number of agencies in system |
| (4) Agency No | - indicates agency identified |
| (5) Fleets per Agency | - indicates number of fleets |
| (6) Prompt Line | - current field instruction line |

The Agency Partition Data Window, shown in Figure 4-2, is accessed by selecting **F1 Setup** while in the Current Personalities Screen. This window is used to initialize agency/fleet/subfleet partitioning.

NOTE

The Agency Partition Data Window can be accessed from windows other than the Current Personalities Screen. When agency partition data is changed from another window, it is only reflected in the personality being created. The original agency partition data defined in the Setup portion of the program will remain the same.

CAUTION

Because the use of an agency structure creates certain limitations within your system, we recommend that you thoroughly understand the agency hierarchy and how to optimize its use before establishing any agencies on your system.

NOTES

The information entered in this window is the default for new personalities. Changing this information from another radio options window will not change existing personalities. Changing the agency/fleet/subfleet partitioning in a radio personality will not change this default information.

A warning is issued if you edit a personality (**F2 Change** from Current Personalities Screen) whose partitioning differs from the default.

| Agency Partition Data | Frequency Range |
|------------------------------------------|-----------------|
| Number of Agencies: XX (3) | 800 - 806 - 870 |
| Agency No - Fleets per Agency (4) (3) | 900 - 896 - 941 |
| 0-XXX 1-XXX | |

Number of Agencies (3) The **Number of Agencies** field specifies the number of agencies in the system. Once a valid number is entered, the appropriate number of fleet fields will appear below. You can then define the number of fleets in each agency.

Enter the appropriate number of agencies. The possible number of agencies are 2, 4, 8, 16, and 32. You cannot specify intermediary numbers. For example, if your system contains 12 agencies, specify 16.

If the number of agencies is zero, the PC Programmer assumes that agency partitioning (the capability to decode to the agency/fleet/ subfleet level) is disabled. If the number of agencies is not defined as zero, the Fleets per Agency field must be defined.

NOTE

Every radio operating within a given agency structure must have exactly the same agency partition data to insure correct operation.

Agency No (4) The **Agency Number** field is used as a positional indicator to reference the Fleets per Agency fields that are being defined.

The user cannot access this field as it is "Display Only". This indicator begins with 0 and ends with 31 indicating the 32 possible agencies.

TQ-3346

Number of Agencies: XX
Agency No - Fleets per Agency
(8)
0-XXX 1-XXX

800 - 806 - 870
900 - 896 - 941

Fleets per Agency (5) **The Fleets per Agency** field indicates the number of fleets per agency. The number of fields are dependent upon the number entered in the number of agencies field. There are 32 fields possible.

Enter the number of fleets for each agency. Any number between 1 - 256 at a power of two is possible depending on the number of agencies specified. The first fleet within an agency is always fleet zero, but because this fleet is reserved for Agency All-Call, you should specify at least one additional fleet per agency. For example, if you want to create three separate fleets within one agency, you should specify four fleets. If you want to create four separate fleets within an agency, you must specify eight fleets (because eight is the next allowable value for the number of fleets per agency).

The maximum number of fleets per agency are:

When the Number of Agencies are 2,
Maximum Fleets are 256

When the Number of Agencies are 4,
Maximum Fleets are 128

When the Number of Agencies are 8,
Maximum Fleets are 64

When the Number of Agencies are 16,
Maximum Fleets are 32

When the Number of Agencies are 32,
Maximum Fleets are 16

NOTE

Every radio operating within a given agency structure must have exactly the same agency partition data to insure correct operation.

From the Agency Partition Data Window, function key options are:

- | | |
|--------------------|-----------------------------------------------------------------------------------------------|
| F1 - Switch | Select this option if you want to: Select the default frequency range. |
| F2 - Freq | Select this option if you want to: Create, delete, or modify frequency sets. |
| F3 - Group | Select this option if you want to: Create, delete, or modify group sets. |
| F4 - SpCall | Select this option if you want to: Create, delete, or modify special call sets. |
| F9 - Help | Select this option if you want to: Receive further information pertaining to a field area. |
| F10 - Back | Select this option if you want to: Return to the Current Personalities Screen. |

NOTE

If you entered the Agency Partition Data Window from a window other than the Current Personalities Screen, pressing **F10 Back** will return to that particular window.

Frequency Range

Ericsson GE Mobile Communications Inc.

(1) Setup

MTD EDACS RADIO PROGRAMMING

A-1

Agency Partition Data

Number of Agencies: XX

Agency No - Fleets per Agency

0-XXX 1-XXX

(2) Frequency Range

(3) 800 - 806 - 870

(4) 900 - 896 - 941

(5) Select the frequency band split

F1 Switch

F2 Freq

F3 Group

F4 SpCall

F5

F6

F7

F8

F9 Help

F10 Back

Figure 4-3 - Frequency Range Window

- (1) Function

- indicates setup function
- (2) Window Title

- frequency range window
- (3) 800 Frequency Range

- indicates 800 band split
- (4) 900 Frequency Range

- indicates 900 band split
- (5) Prompt Line

- current field instruction line

The Frequency Range Window, shown in Figure 4-3, is accessed by pressing **F1 Switch** while in the Agency Partition Data Window. This window is used to select the default band split that the programmer will use for frequency set creation and personality creation. The band split selected here will determine the band split that will be used on all new personalities and frequency sets.

- 800

(3) The 800 field is used to indicate the defaulted band split used for frequency set creation and personality creation in the 800 range.

To specify a 800 band split, use the cursor keys to move the highlighted video bar over the range desired and exit the window. The programmer will remember the selected range until it is changed.

- 900 (4) The **900** field is used to indicate the defaulted band split used for frequency set creation and personality creation in the 900 range.

To specify a 900 band split, use the cursor keys to move the highlighted video bar over the range desired and exit the window. The programmer will remember the selected range until it is changed.

From the Frequency Range Window, function key options are:

- | | |
|--------------------|-----------------------------------------------------------------------------------------------|
| F1 - Switch | Select this option if you want to: Change or modify agency partition data. |
| F2 - Freq | Select this option if you want to: Create, delete, or modify frequency sets. |
| F3 - Group | Select this option if you want to: Create, delete or modify group sets. |
| F5 - SpCall | Select this option if you want to: Create, delete or modify special call sets. |
| F9 - Help | Select this option if you want to: Receive further information pertaining to a field area. |
| F10 - Back | Select this option if you want to: Return to the Current Personalities Screen. |

Creating Frequency Sets

| | | |
|----------------------------------------|-----------------------------|------|
| Ericsson GE Mobile Communications Inc. | | |
| (1) Frequency | MTD EDACS RADIO PROGRAMMING | L1-B |

(2) Currently Defined Frequency Sets

(3) X:\XXXXXXXX (4)

(5)

(6)
Use the cursor keys to select the frequency set

| | | | | | | | | | |
|----|--------------|--------------|--------------|--------------|----|----|----|------------|-------------|
| F1 | F2 Change | F3 NewTrk | F4 NewCnv | F5 Delete | F6 | F7 | F8 | F9 Help | F10 Back |
|----|--------------|--------------|--------------|--------------|----|----|----|------------|-------------|

Figure 4-4 - Currently Defined Frequency Sets Screen

- | | |
|------------------------|---------------------------------------|
| (1) Function | - indicates frequency function |
| (2) Screen Title | - currently defined frequency sets |
| (3) Current Drive | - designated drive |
| (4) Current Directory | - designated directory name |
| (5) Frequency Set Area | - frequency sets in current directory |
| (6) Prompt Line | - current field instruction line |

The Currently Defined Frequency Sets Screen, shown in Figure 4-4, is accessed by selecting **F1 Setup** from the Current Personalities Screen and then **F2 Freq** from the Agency Partition Data Window or the Frequency Range Window. This screen identifies the currently defined frequency sets residing in the data base.

From this screen you can create, delete, or modify frequency sets. To access a frequency set, move the cursor (reverse video bar) across the screen using the arrowed cursor keys. There is room available for up to 70 frequency sets on the screen. Once the screen is full, additional frequency sets can be accessed by using the **Pg Dn** and **Pg Up** cursor keys.

From the Currently Defined Frequency Sets Screen, function key options are:

- | | |
|--------------------|-----------------------------------------------------------------------------------------------------------------|
| F2 - Change | Select this option if you want to: Change or edit an existing frequency set. |
| F3 - NewTrk | Select this option if you want to: Create a new trunked frequency set. |
| F4 - NewCnv | Select this option if you want to: Create a new conventional frequency set. |
| F5 - Delete | Select this option if you want to: Delete or remove a frequency set from the data base. |
| F9 - Help | Select this option if you want to: Receive further information pertaining to a field area. |
| F10 - Back | Select this option if you want to: Return to the Agency Partition Data Window or the Frequency Range Window. |

NOTE

The Currently Defined Frequency Sets Screen can also be accessed from the Radio Personality Screen. Starting at the Current Personalities Screen select **F4 New** and the Radio Personality Screen will appear. Select **F8 More**, the function keys change to show other functions available. Select **F2 Freq** and the Currently Defined Frequency Sets Screen will appear.

Trunked Frequency Sets

Ericsson GE Mobile Communications Inc.

(1) Frequency

MTD EDACS RADIO PROGRAMMING

L1-B

| (5) (6) | | (7) | | (2) Trunked Frequency Set | | (3) XXXXXXXXXXXXXXXXXXXX | |
|---------|----------|----------|----|---------------------------|----------|--------------------------|----------|
| | | | | (4) XXX - XXX Mhz | | | |
| | Tx Freq | Rx Freq | | Tx Freq | Rx Freq | Tx Freq | Tx Freq |
| 1 | XXXXXXXX | XXXXXXXX | 2 | XXXXXXXX | XXXXXXXX | 3 | XXXXXXXX |
| 4 | | | 5 | | | 6 | |
| 7 | | | 8 | | | 9 | |
| 10 | | | 11 | | | 12 | |
| 13 | | | 14 | | | 15 | |
| 16 | | | 17 | | | 18 | |
| 19 | | | 20 | | | 21 | |
| 22 | | | 23 | | | 24 | |
| 25 | | | | | | | |

(8)
Enter the transmit frequency for this channel

F1

F2

F3

F4
FCC

F5
Store

F6

F7
Option

F8

F9
Help

F10
Back

Figure 4-5 - Trunked Frequency Set Window

- (1) Function

(2) Window Title

(3) Channel Entry

(4) Band Split

(5) Channel

(6) Tx Frequency

(7) Rx Frequency

(8) Prompt Line
- indicates frequency function

- trunked frequency set window

- channel information displayed

- indicates current band split

- indicates trunked channel selection

- defines transmit frequency

- defines receive frequency

- current field instruction line

The Trunked Frequency Set Window, shown in Figure 4-5 is accessed by selecting **F2 Freq** from the Agency Partition Data Window or the Frequency Range Window, and **F3 NewTrk** while in the Currently Defined Frequency Sets Screen. This screen is used to define up to 25 channels for the site.

- Channel Entry** (3) The **Channel Entry** field indicates which channel information will be displayed in the channel fields. By toggling the **F4 FCC/TX** function key, the channel entry field will indicate TX FCC Channel or Transmit Frequency to indicate that transmit FCC channels are being displayed, or transmit frequencies are being displayed.

This field is a "Display Only" field and can only be accessed by toggling the **F4 FCC/TX** function key.

- Band Split** (4) The **Frequency Set Band Split** field for this set indicates the frequency entries that will be acceptable in defining a frequency set.

This field is a "Display Only" field and cannot be accessed while in this window. The band split is selected in the Frequency Range Window in the setup portion of the program.

- Channel** (5) The **Channel Number** field is a positional channel indicator in the Trunked Frequency Set Window. The channel number indicates which channel is being defined on the line.

This field is a "Display Only" field and cannot be accessed.

- Tx Freq** (6) The **Transmit Frequency** field is used to specify which frequency the radio will transmit at when tuned to this channel.

Enter the desired transmit frequency. Depending on the state of the Channel Entry field, values can be entered as a frequency (in the associated band split) or an FCC channel number.

| (6) | | (7) | | Trunked Frequency Set | | XXXXXXXXXXXXXXXXXXXX | |
|---------|----------|---------|----------|-----------------------|----------|----------------------|----------|
| Tx Freq | | Rx Freq | | XXX - XXX | | Mhz | |
| 1 | XXXXXXXX | 1 | XXXXXXXX | 2 | XXXXXXXX | 3 | XXXXXXXX |
| 4 | | 4 | | 5 | | 6 | |

Tx Freq
Cont'd

- (6) • If the band split is 806 - 870, a valid entry for the FCC Channel should be in the range of 1 - 1519, or blank. A blank channel has a value of zero. A valid entry for the Transmit Frequency should be in the range of 806.0125 - 824.9875 allowing the receive frequency to be set 45 Mhz higher.
- If the band split is 896 - 941, a valid entry for the FCC Channel should be in the range of 1 - 479, or blank. A blank channel has a value of zero. A valid entry for the Transmit Frequency should be in the range of 896.0125 - 901.9875 allowing the receive frequency setting to be set 39 Mhz higher.

NOTE

However you choose to enter the transmit frequency (i.e., as an FCC Channel or a Transmit Frequency number), the other Channel Entry setting will be directly affected. For example, select a "1" in the Tx Freq field with the Channel Entry field set to FCC Channel. Now toggle the F4 TX key to cause the Channel Entry field to read Transmit Frequency. Where "1" was designated as the Tx Freq in the FCC Channel setting, a frequency in the associated band split will appear in the Transmit Frequency setting window. Appendix F lists corresponding values for transmit FCC Channel and Transmit Frequency frequencies.

- Rx Freq (7) The **Receive Frequency** field is used to specify which frequency the radio will receive at when tuned to this channel. This entry is automatically entered whenever a transmit frequency is entered.

This is a "Display Only" field which is automatically entered once a transmit frequency is defined. The value appearing in this field will be 45 Mhz greater than the value entered in the transmit frequency field whenever the band split is in the 806 - 870 range. The value appearing in this field will be 39 Mhz greater than the value entered in the transmit frequency field whenever the band split is in the 896 - 941 range.

From the Trunked Frequency Set Screen, function key options are:

- F4 - TX/FCC** Select this option if you want to:
Toggle the channel entry fields between FCC Channel and Transmit Frequency.
- F5 - Store** Select this option if you want to:
Store the channel definitions defined to disk anytime during programming.
- F7 - Option** Select this option if you want to:
Modify frequency set options.
- F9 - Help** Select this option if you want to:
Receive further information pertaining to a field area.
- F10 - Back** Select this option if you want to:
Return to the Currently Defined Frequency Sets Screen.

Trunked Set Options

Ericsson GE Mobile Communications Inc.

(1) Frequency

MTD EDACS RADIO PROGRAMMING

LI-B

Tx Freq R
1 XXXXXXXX X
4
7
10
13
16
19
22
25
Enter the tran

(2) Trunked Set Options

Default Site ID: XX (3)
High Power: XXX (4)
Max Channels Allowed: XX (5)

(6) Enter the site Id.

XXXXXXXXXXXXXXXXXXXX
q Rx Freq
XX XXXXXXXX

F1

F2

F3

F4

F5

F6

F7

F8

F9
Help

F10
Back

Figure 4-6 - Trunked Set Options Window

- (1) Function

- indicates frequency function
- (2) Window Title

- trunked set options window
- (3) Default Site ID

- trunked default site ID number
- (4) High Power

- indicates power level setting
- (5) Max Channels Allowed

- reserves space for extra channels
- (6) Prompt Line

- current field instruction line

The Trunked Set Options Window, shown in Figure 4-6 is accessed by selecting **F7 Option** while in the Trunked Frequency Sets Window. This window is used to define or modify the options associated with a trunked frequency set.

Default Site ID

(3) The **Default Site ID** field specifies the ID number identifying the site ID that this frequency set will default to.

Enter the default site ID number. To be valid the site ID number must be in the range of 1 - 31.

High Power (4) The **High Power** field indicates whether the power level setting for this frequency set should be set at a high power level setting or a low power level setting.

Using the **TAB** key as a toggle switch, select between "On" and "Off". Selection of "On" indicates that this frequency set will be set to a high power level setting. Selection of "Off" indicates that a lower power level setting will apply.

Max Channels Allowed (5) The **Maximum Channels Allowed** field is used to reserve space for additional channels to be added to this trunked frequency set.

Enter a number in the range of 1 - 25 to indicate additional channels to be added to this trunked frequency set. Entering a "0" will not allow additional space to be reserved.

From the Trunked Set Options Window, function key options are:

F9 - Help Select this option if you want to:
Receive further information pertaining to a field area.

F10 - Back Select this option if you want to:
Return to the Trunked Frequency Set Window.

Conventional Frequency Sets

Ericsson GE Mobile Communications Inc.

(1) Frequency

MTD EDACS RADIO PROGRAMMING

L1-B

(2) Conventional Frequency Set

(3) XXX - XXX Mhz

| (4) Ch | (5) Name | (6) TX Freq | (7) RX Freq | (8) TX CG | (9) STE | (10) RX CG | (11) TXL | (12) CCT | (13) OS | (14) Scan | (15) Port PWR |
|-----------|-------------|----------------|----------------|--------------|------------|---------------|-------------|-------------|------------|--------------|------------------|
| 1 | XXXXXXXX | XXXXXXXX | XXXXXXXX | XXXXX | XXX | XXXXX | XXX | XXX | XXX | XXX | XXX |
| 2 | | | | | | | | | | | |
| 3 | | | | | | | | | | | |
| 4 | | | | | | | | | | | |
| 5 | | | | | | | | | | | |
| 6 | | | | | | | | | | | |
| 7 | | | | | | | | | | | |
| 8 | | | | | | | | | | | |

(16)
Enter Channel Name

F1

F2
Insert

F3
Remove

F4

F5
Store

F6

F7
Option

F8

F9
Help

F10
Back

Figure 4-7 - Conventional Frequency Set Window

- | | |
|------------------|----------------------------------------|
| (1) Function | - indicates frequency function |
| (2) Window Title | - conventional frequency set window |
| (3) Band Split | - indicates current band split |
| (4) Channel | - positional channel indicator |
| (5) Name | - alphanumeric display name |
| (6) TX Freq | - defines channel transmit frequency |
| (7) RX Freq | - defines channel receive frequency |
| (8) TX CG | - transmit Channel Guard for channel |
| (9) STE | - enables squelch tail elimination |
| (10) RX CG | - receive Channel Guard for channel |
| (11) TXL | - allows radio tx with receive present |
| (12) CCT | - enables carrier control timer |
| (13) OS | - enables oscillator shift |
| (14) Scan | - enables channel in fixed scan list |
| (15) Port PWR | - shows channel power level setting |
| (16) Prompt Line | - current field instruction line |

The Conventional Frequency Set Screen, shown in Figure 4-7, is accessed by selecting **F2 Freq** from the Agency Partition Data Window or the Frequency Range Window, and **F4 NewCnv** from the Currently Defined Frequency Sets Screen.

The screen will display up to eight channel definitions (lines of data) at a time. Each channel definition consists of the channel number,

channel identifier (name) to be displayed on the radio, frequency settings, designated Channel Guards, and other options. Additional channel definitions can be accessed by the **Pg Dn** and **Pg Up** cursor keys. Please note that there are 48 channel definitions allowed per frequency set.

You can easily insert or remove channel definitions using the **F2 Insert** and **F3 Remove** keys. To insert a channel definition place your cursor on the line above where you want the new channel definition to appear and press **F2 Insert**. An empty channel definition line will appear shifting all the following lines to the next higher channel number. To delete a channel definition line place your cursor anywhere on the channel definition you want deleted and press **F3 Remove**. The line you are on will disappear and the line that was just below it will now occupy the space of the deleted line. Thus, all lines below the deleted line will become one channel number less than before.

Before inserting data in the program it is recommended that you first fill out the available work sheet in Appendix G of this manual.

- Band Split** (3) The **Frequency Set Band Split** field for this set is selected from the Frequency Range Window and is used to indicate the frequency entries that will be acceptable in defining a frequency set.

This field is a "Display Only" field and is not accessible from this window.

- Channel** (4) The **Channel Number** field is a numeric field used as a positional channel indicator in the Conventional Frequency Set Window. The channel number indicates which channel is being defined on the line.

This field is "Display Only" and cannot be accessed.

| Conventional Frequency Set | | | | | | | | | | | | |
|----------------------------|-------------|----------------|----------------|--------------|-----|-------|-----|-----|-----|------|------|--|
| XXX - XXX Mhz | | | | | | | | | | | | |
| Ch | (5) Name | (6) TX Freq | (7) RX Freq | (8) TX CG | STE | RX CG | TXL | CCT | OS | Scan | Port | |
| 1 | XXXXXXXX | XXXXXXXX | XXXXXXXX | XXXXX | XXX | XXXXX | XXX | XXX | XXX | XXX | XXX | |
| 2 | | | | | | | | | | | | |

Name (5) The **Channel Name** field is used to define the display while the unit is tuned to this channel.

Enter the desired channel name. To specify a name, you can use up to eight valid display characters in any alphanumeric combination. All characters in this field will be converted to upper case even if entered in lower case.

TX Freq (6) The **Transmit Frequency** field is used to specify the channel transmit frequency. The value entered here indicates the frequency that the radio will transmit at while tuned to the channel.

Input the frequency that the radio should transmit at while tuned to this channel. Only frequencies within the currently defined band split are acceptable as valid. Frequencies must be evenly divisible by .0125 (12.5 KHz).

When defining a new channel, the transmit frequency will be copied over to the receive frequency as a default. When the selected transmit frequency is in the 800 band split, the receive frequency will be that frequency plus 45 Mhz. When the selected transmit frequency is in the 900 band split, the receive frequency will be that frequency plus 39 Mhz.

RX Freq (7) The **Receive Frequency** field is used to specify the channel receive frequency. The value entered here indicates the frequency that the radio will receive at while tuned to the channel.

When defining a new channel, the transmit frequency will be copied over to the receive frequency as a default. When the selected transmit frequency is in the 800 band split, the receive frequency will be that frequency plus 45 Mhz. When the selected transmit frequency is in the 900 band split, the receive frequency will be that frequency plus 39 Mhz.

If a different receive frequency is desired, pressing **Ctrl-Backspace** simultaneously will clear the field and a new entry can be typed in. Only frequencies within the currently defined band split are acceptable as valid. Frequencies must be evenly divisible by .0125 (12.5 KHz). This entry must be at least 39 Mhz above the transmit frequency when working in the 900 band split and at least 45 Mhz above the transmit frequency when working in the 800 band split.

- TX CG** (8) The **Transmit Channel Guard** field is used to enter the transmit Channel Guard for this channel. This field accepts Digital and tone Channel Guard codes.

Enter the desired transmit Channel Guard code for this channel using either tone or Digital Channel Guard codes.

- Tone Channel Guards are identified by the placement of a decimal point within the field. For example: 67.0 identifies a tone Channel Guard of 67 Hz. Valid tone Channel Guards are in the range of 67.0 to 210.7 Hz.
- Digital Channel Guards do not have a decimal point within the field. For example: 023, 047, 315, etc. When using a Digital Channel Guard, it must be included in the Digital Channel Guard Table shown in Appendix D.

| Conventional Frequency Set | | | | | | | | | | | | |
|----------------------------|----------|----------|----------|-------|---------|------------|----------|----------|---------|-----------|------|-----|
| XXX - XXX | | | | | Mhz | | | | | | | |
| Ch | Name | TX Freq | RX Freq | TX CG | (9) STE | (10) RX CG | (11) TXL | (12) CCT | (13) OS | (14) Scan | Port | |
| 1 | XXXXXXXX | XXXXXXXX | XXXXXXXX | XXXXX | XXX | XXXXX | XXX | XXX | XXX | XXX | XXX | XXX |
| 2 | | | | | | | | | | | | |

STE (9) The **Squelch Tail Elimination** field indicates whether or not squelch tail elimination should be enabled for this channel.

Using the **TAB** key as a toggle switch, select "On" or "Off" "On" enables squelch tail elimination for this channel. "Off" indicates squelch tail elimination will be disabled.

RX CG (10) The **Receive Channel Guard** field is used to enter the receive Channel Guard for this channel. This field accepts Digital and tone Channel Guard codes.

Enter the desired receive Channel Guard code for this channel using either tone or Digital Channel Guard codes.

- Tone Channel Guards are identified by the placement of a decimal point within the field. For example: 67.0 identifies a tone Channel Guard of 67 Hz. Valid tone Channel Guards are in the range of 67.0 to 210.7 Hz.
- Digital Channel Guards do not have a decimal point within the field. For example: 023, 047, 315, etc. When using a Digital Channel Guard, it must be included in the Digital Channel Guard Table shown in Appendix D.

- TXL** (11) The **Transmit Lockout** field indicates whether the radio will transmit on this conventional channel while a receive signal is present.
- Using the **TAB** key as a toggle switch, select "On" or "Off". Selecting "On" prevents the radio from transmitting on this channel while a receive signal is present. Selection of "Off" allows the radio to transmit when a receive signal is present.
- CCT** (12) The **Carrier Control Timer** field indicates whether the carrier control timer will be enabled for this channel.
- Using the **TAB** key as a toggle switch, select "On" or "Off". Selecting "On" enables the carrier control timer for this channel as defined in the options window. Selection of "Off" will disable the carrier control timer.
- OS** (13) The **Oscillator Shift** field is used to indicate whether or not the radio will adjust or shift the oscillator frequency to prevent spurious emissions.
- Selection of this field is through toggling the **TAB** key between "Yes" and "No" values. A "Yes" value causes the unit to shift the oscillator frequency to prevent spurs on this channel.
- Scan** (14) The **Scan** field is used to determine whether or not the channel will be included in the scan list.
- Selection of this field is through toggling the **TAB** key between "On" and "Off" values. An "On" value indicates the channel is set for non-priority scan. "Off" indicates that the channel will not be included in the scan list.

| Conventional Frequency Set | | | | | | | | | | | | |
|----------------------------|----------|----------|----------|--------|-----|--------|-----|-----|-----|------|-----------|-----|
| XXX - XXX Mhz | | | | | | | | | | | | |
| Ch | Name | TX Freq | RX Freq | TX CG | STE | RX CG | TXL | CCT | OS | Scan | (15) Port | |
| 1 | XXXXXXXX | XXXXXXXX | XXXXXXXX | XXXXXX | XXX | XXXXXX | XXX | XXX | XXX | XXX | XXX | XXX |
| 2 | | | | | | | | | | | | |

Port PWR (15) The **Power Level Setting** field is used to indicate whether or not the unit will transmit at high power while on this channel.

Using the **TAB** key as a toggle switch, select between "Hi" and "Low". Selection of "Hi" indicates that the radio will transmit at a high power setting. Selection of "Low" indicates that the radio will transmit at a lower power setting.

From the Conventional Frequency Set Screen, function key options are:

- F2 - Insert** Select this option if you want to:
Insert a new line for a channel definition.
- F3 - Remove** Select this option if you want to:
Remove a channel definition line.
- F5 - Store** Select this option if you want to:
Store the channel definitions defined to disk
anytime during programming.
- F7 - Option** Select this option if you want to:
Modify conventional frequency set options.
- F9 - Help** Select this option if you want to:
Receive further information pertaining to a field
area.
- F10 - Back** Select this option if you want to:
Return to the Currently Defined Frequency Sets
Screen.

Conventional Set Options

| | | | |
|----------------------------------------|-----------------------------|------|--|
| Ericsson GE Mobile Communications Inc. | | | |
| (1) Frequency | MTD EDACS RADIO PROGRAMMING | L1-B | |

| | | | | | | | | | |
|--------------------------------------------|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|------|------|-----|-----|-----|
| Ch 1 2 3 4 5 6 7 8 | Name XXXXXXXX | <div style="border: 1px solid black; padding: 5px;"> <p style="text-align: center; margin: 0;">(2) Conventional Set Options</p> <p style="margin: 5px 0;">Home Channel: XXXXXXXX (3)</p> <p style="margin: 5px 0;">Wide Scan Channel: XXXXXXXX (4)</p> <p style="margin: 10px 0 0 0;">(5) Enter Home Channel</p> </div> | <div style="border: 1px solid black; padding: 5px;"> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; text-align: center;">OS</td> <td style="width: 33%; text-align: center;">Scan</td> <td style="width: 33%; text-align: center;">Port</td> </tr> <tr> <td style="text-align: center;">XXX</td> <td style="text-align: center;">XXX</td> <td style="text-align: center;">XXX</td> </tr> </table> </div> | OS | Scan | Port | XXX | XXX | XXX |
| OS | Scan | Port | | | | | | | |
| XXX | XXX | XXX | | | | | | | |
| Enter Channel | | | | | | | | | |

| | | | | | | | | | |
|----|----|----|----|----|----|----|----|------------|-------------|
| F1 | F2 | F3 | F4 | F5 | F6 | F7 | F8 | F9 Help | F10 Back |
|----|----|----|----|----|----|----|----|------------|-------------|

Figure 4-8 - Conventional Set Options Window

- | | |
|-----------------------|----------------------------------------|
| (1) Function | - indicates frequency function |
| (2) Window Title | - conventional set options window |
| (3) Home Chan | - specifies frequency set home channel |
| (4) Wide Scan Channel | - specifies default wide scan channel |
| (5) Prompt Line | - current field instruction line |

The Conventional Frequency Set Options Window, shown in Figure 4-8, is accessed by selecting **F7 Option** while in the Conventional Frequency Set Window. This window allows you to define options associated with this frequency set.

| Conventional Set Options | | | | | |
|--------------------------|----------|--------------------|----------|------|-------------|
| Ch | Name | | OS | Scan | Port |
| 1 | XXXXXXXX | Home Channel: | XXXXXXXX | (3) | XXX XXX XXX |
| 2 | | Wide Scan Channel: | XXXXXXXX | (4) | |
| 3 | | | | | |
| 4 | | | | | |

Home Chan (3) The **Home Channel** field is used to specify the home channel for this frequency set. This channel is the channel the radio will tune to when the Emer/Home key is depressed while on this system.

Enter the desired home channel. To be valid, the name entered in this field must correspond to a name in the Channel field of the Conventional Frequency Set Window.

Wide Scan Channel (4) The **Wide Scan Channel** is used to indicate the channel the radio will tune to between wide scan channel scanning.

Enter the desired wide scan channel. To be valid, the name entered in this field must correspond to a name in the Channel field of the Conventional Frequency Set Window.

From the Conventional Set Options Window, function key options are:

F9 - Help Select this option if you want to:
Receive further information pertaining to a field area.

F10 - Back Select this option if you want to:
Return to the Conventional Frequency Set Window.

Creating Group Sets

| | | |
|----------------------------------------|-----------------------------|-----|
| Ericsson GE Mobile Communications Inc. | | |
| (1) Setup | MTD EDACS RADIO PROGRAMMING | A-1 |

(2) Currently Defined Group Sets
(3) X:\XXXXXXXX (4)

(5)

(6)
Use the cursor keys to select the group sets

| | | | | | | | | | |
|----|--------------|----|-----------|--------------|----|----|----|------------|-------------|
| F1 | F2 Change | F3 | F4 New | F5 Delete | F6 | F7 | F8 | F9 Help | F10 Back |
|----|--------------|----|-----------|--------------|----|----|----|------------|-------------|

Figure 4-9 - Currently Defined Group Sets Screen

- | | |
|-----------------------|---------------------------------------|
| (1) Function | - indicates setup function |
| (2) Screen Title | - currently defined group sets screen |
| (3) Current Drive | - designated drive |
| (4) Current Directory | - designated directory name |
| (5) Group Set Area | - group sets in current directory |
| (6) Prompt Line | - current field instruction line |

The Currently Defined Group Sets Screen, shown in Figure 4-9, is accessed by selecting **F3 Group** while in the Agency Partition Data Window or the Frequency Range Window. This screen is used to show the currently defined group sets residing in the data base.

From this screen you will be able to create, delete, or modify group sets. To access a group set, move the cursor (reverse video bar) across the screen using the arrowed cursor keys. There is room available for up to 70 group sets on the screen. Once the screen is full, additional group sets can be accessed by using the **Pg Dn** and **Pg Up** cursor keys.

TQ-3346

From the Currently Defined Group Sets Screen, function key options are:

- | | |
|--------------------|-----------------------------------------------------------------------------------------------------------------|
| F2 - Change | Select this option if you want to: Change or edit an existing group set. |
| F4 - New | Select this option if you want to: Create a new group set. |
| F5 - Delete | Select this option if you want to: Delete or remove a group set from the data base. |
| F9 - Help | Select this option if you want to: Receive further information pertaining to a field area. |
| F10 - Back | Select this option if you want to: Return to the Agency Partition Data Window, or Frequency Range Window. |

NOTE

The Currently Defined Group Sets Screen can also be accessed from the Radio Personality Screen. Starting at the Current Personalities Screen, select **F4 New** and the Radio Personality Screen will appear. Select **F8 More** and **F3 Group**, and the Currently Defined Group Sets Screen will appear.

Group Set Summary

Ericsson GE Mobile Communications Inc.

| | | |
|-----------|-----------------------------|-----|
| (1) Setup | MTD EDACS RADIO PROGRAMMING | A-1 |
|-----------|-----------------------------|-----|

| (2) Group Set Summary | | | | | | |
|-----------------------|----------|--------------|----------|----------|-----------------|-----------|
| (3) Grp | (4) Name | (5) Group ID | (6) Type | (7) Scan | (8) Knob Select | (9) ICall |
| 1 | XXXXXXXX | XXXX | XXXXXX | XXX | XXX | XXX |
| 2 | | | | | | |
| 3 | | | | | | |
| 4 | | | | | | |
| 5 | | | | | | |
| 6 | | | | | | |
| 7 | | | | | | |
| 8 | | | | | | |

(10)
Enter the Group Name

| | | | | | | | | | |
|----|--------------|--------------|----|-------------|----|--------------|----|------------|-------------|
| F1 | F2 Insert | F3 Remove | F4 | F5 Store | F6 | F7 Option | F8 | F9 Help | F10 Back |
|----|--------------|--------------|----|-------------|----|--------------|----|------------|-------------|

Figure 4-10 - Group Set Summary Window

- | | |
|------------------|----------------------------------------|
| (1) Function | - indicates setup function |
| (2) Window Title | - group set summary window |
| (3) Grp | - positional group sequencing |
| (4) Name | - identifies group display name |
| (5) Group ID | - specifies group ID for this group |
| (6) Type | - indicates group type |
| (7) Scan | - indicates scan enable |
| (8) Knob Select | - enables knob select function |
| (9) ICall | - individual group setting call enable |
| (10) Prompt Line | - current field instruction line |

The Group Set Summary Window, shown in Figure 4-10, is accessed by selecting **F2 Change** or **F4 New** from the Currently Defined Group Sets Screen. This window allows you to create or modify group set definitions.

Similar to frequency sets, group sets reside on disk until they are called into a personality. The Group Set Summary Window displays each group within the group set and identifies the state of each of the group options. Each group consists of a group number, group name, group ID, and other options to be displayed on the radio. There can be up to 48 groups within a group set. Each window will display eight groups at a time. Additional groups can be accessed by the **Pg Dn** and **Pg Up** keys.

| Group Set Summary | | | | | | |
|-------------------|-------------|-----------------|-------------|------|----------------|-------|
| (3) Grp | (4) Name | (5) Group ID | (6) Type | Scan | Knob Select | ICall |
| 1 | XXXXXXXX | XXXX | XXXXXX | XXX | XXX | XXX |
| 2 | | | | | | |

You can easily insert or remove a group using the **F2 Insert** and **F3 Remove** keys. To insert a group place your cursor on the line where you want the new group to appear and press **F2 Insert**. An empty group line will appear shifting all following groups one line lower. To delete a group, place your cursor anywhere on the line of the group you want deleted and press **F3 Remove**. The line you are on will disappear and the line that was just below it will now occupy the space of the deleted line. Thus, all groups below the deleted group will shift upward one level.

Before inserting data in the program it is recommended that you first fill out the available work sheet in Appendix G of this manual.

Grp (3) The **Group Number** field is used as a positional group indicator. The group number indicates which group is defined on the line.

This field is a "Display Only" field and cannot be accessed.

Name (4) The **Group Display Name** field is used to specify the display name for this group while it is selected or scanned.

Enter the desired group display name. You can use up to eight valid display characters in any alphanumeric combination. This field is an upper case field, therefore all characters will be converted to upper case even if entered in lower case.

Group ID (5) The **Group Identification** field is used to specify the group ID for this group. The group ID is compared against the agency partition data to determine whether or not the receiving radio should participate in the call.

Enter the desired ID. The group ID should be in the range of 1 and 2048 inclusive.

NOTE

ID 2048 is the Agency 0 All Call - actual ID = 0.

- Type** (6) The **Type** field indicates how the group will be used.

Using the **TAB** key as a toggle switch, select between "Normal", "Encode" and "Decode". Selecting "Normal" enables both encode and decode to operate causing normal operation for this group set. Selecting "Encode" enables the group to transmit calls only. "Decode" enables the group to receive calls only.

When "Encode" is selected and another unit keys on the group, the encode only radio will sound an alert when the user tries to key it. When "Decode" is selected and the user tries to transmit a call, the decode only radio will sound an alert. This lockout is a result of the special call tracking function for encode only and decode only groups.

NOTE

When Base/Mobile Operation is enabled (in the User Control Options Window) Group 1 must be set as "Encode". Another Group must be set as "Normal" and designated as the Home Group in the Group Options Window.

| Group Set Summary | | | | | | |
|-------------------|----------|----------|--------|------|--------|-------|
| Grp | Name | Group ID | Type | (8) | | |
| | | | | (7) | Knob | (9) |
| | | | | Scan | Select | ICall |
| 1 | XXXXXXXX | XXXX | XXXXXX | XXX | XXX | XXX |
| 2 | | | | | | |

Scan (7) The **Scan** field determines whether or not the group will be included in the scan list.

Using the **TAB** key as a toggle switch, select "On" or "Off". Selecting "On" indicates that the group will be included in the scan list while on this group set and the scan function is enabled on the unit.

Knob Select (8) The **Knob Select** field is used to specify whether or not to enable the knob select feature.

Using the **TAB** key as a toggle switch, select "On" or "Off". "On" enables the knob select option. "Off" disables the feature.

Future implementation of this feature forthcoming.

ICall (9) The **Individual Call Enable** field indicates whether or not special call and individual call are disabled when set to this group.

Using the **TAB** key as a toggle switch, select between "On" and "Off". Selecting "On" enables individual and special calls while on this group. Selecting "Off" disables individual and special calls while on this group.

From the Group Set Summary Window, function key options are:

- | | |
|--------------------|------------------------------------------------------------------------------------------------------|
| F2 - Insert | Select this option if you want to: Insert a new line for a group definition. |
| F3 - Remove | Select this option if you want to: Remove a group definition line. |
| F5 - Store | Select this option if you want to: Save the group set to disk and remain in the edit function. |
| F7 - Option | Select this option if you want to: Modify frequency set options. |
| F9 - Help | Select this option if you want to: Receive further information pertaining to a field area. |
| F10 - Back | Select this option if you want to: Return to the Currently Defined Group Sets Screen. |

Group Set Options

Ericsson GE Mobile Communications Inc.

(1) Setup

MTD EDACS RADIO PROGRAMMING

A-1

Grp Name

1 XXXXXXXX

2

3

4

5

6

7

8

(2) Group Set Options

Home Group: XXXXXXXX (3)

(4) Enter the name of the home group

Enter the Group

F1

F2

F3

F4

F5

F6

F7

F8

F9 Help

F10 Back

Figure 4-11 - Group Set Options Window

- (1) Function

- indicates setup function
- (2) Window Title

- group set options window
- (3) Home Group

- specifies home group
- (4) Prompt Line

- current field instruction line

The Group Set Options Window, shown in Figure 4-11, is accessed by selecting **F7 Option** while in the Group Set Summary Window. This window allows you to define option(s) associated with the group set.

**Home
Group**

- (3) The **Home Group** field is used to specify the home group for this group set. This group is the group that the radio will tune to whenever the Home key is depressed.

Enter the desired home group. Any combination of alphanumeric display characters, up to eight characters in length, are acceptable. Any alphabetic characters will be converted to upper case.

NOTE

When Base Mobile Operation is enabled (in the User Control Options Window) the designated Home Group must have a field type set to "Normal" in the Group Summary Window.

From the Group Set Options Window, function key options are:

F9 - Help

Select this option if you want to:
Receive further information pertaining to a field area.

F10 - Back

Select this option if you want to:
Return to the Group Sets Summary Window.

Creating Special Call Sets

| | | |
|----------------------------------------|-----------------------------|-----|
| Ericsson GE Mobile Communications Inc. | | |
| (1) Setup | MTD EDACS RADIO PROGRAMMING | A-1 |

(2) Currently Defined Special Call Sets

(3) X:\XXXXXXXX (4)

(5)

(6)
Use the cursor keys to select the special call sets

| | | | | | | | | | |
|----|--------------|----|-----------|--------------|----|----|----|------------|-------------|
| F1 | F2 Change | F3 | F4 New | F5 Delete | F6 | F7 | F8 | F9 Help | F10 Back |
|----|--------------|----|-----------|--------------|----|----|----|------------|-------------|

Figure 4-12 - Currently Defined Special Call Sets Screen

- | | |
|---------------------------|---------------------------------------|
| (1) Function | - indicates setup function |
| (2) Screen Title | - currently defined special call sets |
| (3) Current Drive | - designated drive |
| (4) Current Directory | - designated directory name |
| (5) Special Call Set Area | - special call sets in directory |
| (6) Prompt Line | - current field instruction line |

The Currently Defined Special Call Sets Screen, shown in Figure 4-12, is accessed by selecting **F4 SpCall** while in the Agency Partition Data Window or Frequency Range Window. This screen is used to show the currently defined special call sets residing in the data base.

From this screen you will be able to create, delete, or modify special call sets. To access a special call set, move the cursor (reverse video bar) across the screen using the arrowed cursor keys. There is room available for up to 70 special call sets on the screen. Once the screen is full, additional group sets can be accessed by using the **Pg Dn** and **Pg Up** cursor keys.

From the Currently Defined Special Call Sets Screen, function key options are:

- | | |
|--------------------|-----------------------------------------------------------------------------------------------------------------|
| F2 - Change | Select this option if you want to: Change or edit an existing special call set. |
| F4 - New | Select this option if you want to: Create a new special call set. |
| F5 - Delete | Select this option if you want to: Delete or remove a special call set from the data base. |
| F9 - Help | Select this option if you want to: Receive further information pertaining to a field area. |
| F10 - Back | Select this option if you want to: Return to the Agency Partition Data Window, or Frequency Range Window. |

— NOTE —

The Currently Defined Special Call Sets Screen can also be accessed from the Radio Personality Screen. Starting at the Current Personalities Screen, select **F4 New** and the Radio Personality Screen will appear. Select **F8 More** and **F6 Sp-Call**, and the Currently Defined Special Call Sets Screen will appear.

Special Call Set

Ericsson GE Mobile Communications Inc.

(1) Setup

MTD EDACS RADIO PROGRAMMING

A-1

(3)

(4)

(5)

(6)

(7)

| Call | Name | Type | Knob Sel | Number |
|------|----------|------|----------|------------------------------|
| 1 | XXXXXXXX | XXXX | XXX | XXXXXXXXXXXXXXXXXXXXXXXXXXXX |
| 2 | | | | |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | |
| 6 | | | | |
| 7 | | | | |
| 8 | | | | |

(8)

Enter the Special Call Name

F1

F2
Insert

F3
Remove

F4

F5
Store

F6

F7
Option

F8

F9
Help

F10
Back

Figure 4-13 - Special Call Set Window

- (1) Function

- indicates setup function
- (2) Window Title

- special call set window
- (3) Call

- indicates special call sequencing
- (4) Name

- indicates special call display name
- (5) Type

- identifies call type
- (6) Knob Select

- enables knob select function
- (7) Number

- indicates special call number
- (8) Prompt Line

- current field instruction line

The Special Call Set Window, shown in Figure 4-13, is accessed by selecting **F4 New** from the Currently Defined Special Call Sets Screen. This window allows you to create or modify a special call set definition.

Similar to frequency sets and group sets, special call sets reside on disk until they are called into a personality. The Special Call Set Window displays each special call within the special call set. Each special call consists of the call type and number. There can be up to 96 special call definitions within a special call set. Each window will display eight special call definitions at a time. Additional special call definitions can be accessed by the **Pg Dn** and **Pg Up** keys.

You can easily insert or remove a special call definition using the **F2 Insert** and **F3 Remove** keys. To insert a special call, place your cursor on the line where you want the new call to appear and press **F2 Insert**. An empty call line will appear shifting all following calls one line lower. To delete the current call, place your cursor anywhere on the line of the call you want deleted and press **F3 Remove**. The current call disappears and all subsequent calls will be shifted up to fill in the gap.

NOTE

Only 99 special call line entries are allowed per system. Therefore, if you define up to 96 call entries in a special call set, then you can only define three more call entries to be associated with a single personality.

Before inserting data in the program it is recommended that you first fill out the available work sheet in Appendix G of this manual.

Call (3) The **Call Number** field is a positional special call indicator. The call number indicates which special call is defined on the line.

This field is a "Display Only" field and cannot be accessed.

Name (4) The **Name** field specifies the LCD display name for the radio while the radio is tuned to this special call.

Enter the desired special call display name. You can use up to eight valid alphanumeric display characters. The characters entered in this field will automatically be converted to upper case.

| Special Call Set | | | | |
|------------------|----------|------|------|------------------------------|
| (4) | | | | |
| | | (5) | Knob | (7) |
| Call | Name | Type | Sel | Number |
| 1 | XXXXXXXX | XXXX | XXX | XXXXXXXXXXXXXXXXXXXXXXXXXXXX |
| 2 | | | | |

Type (5) The **Special Call Type** field indicates the call type being defined.

Using the **TAB** key as a toggle switch, select between "TELE", "DTMF", "CAL1", and "ALL".

TELE - indicates the radio will generate a telephone interconnect call using digits entered in the Number field.

DTMF - allows the user to generate a telephone interconnect call using DTMF digits from a microphone or keypad.

CAL1 - indicates an individual call 1.

ALL - performs a system all call.

Knob Sel (6) The **Knob Select** field is used to specify whether or not to enable the knob select feature.

Using the **TAB** key as a toggle switch, select "On" or "Off". "On" enables the knob select option. "Off" disables the feature.

Future implementation of this feature forthcoming.

Number (7) The **Special Call Number** field is used to specify the special call number for this special call.

Enter the desired special call number. The following calls are available:

TELE - Digital Telephone Interconnect Encode

Enter up to 26 digits. Numbers and spaces are valid, however, no special characters are allowed.

DTMF - DTMF Telephone Interconnect Encode

No number is entered for DTMF.

CAL1 - Individual Call Encode

The value here must be in the range of 1 - 16382 to reflect the unit ID.

ALL - System All Call

No number is entered here for System All Call.

From the Special Call Set Window, function key options are:

- | | |
|--------------------|-----------------------------------------------------------------------------------------------------------|
| F2 - Insert | Select this option if you want to: Insert a new line for a special call definition. |
| F3 - Remove | Select this option if you want to: Remove a special call definition line. |
| F5 - Store | Select this option if you want to: Store the special call set to disk and remain in the edit function. |
| F7 - Option | Select this option if you want to: Modify special call set options. |
| F9 - Help | Select this option if you want to: Receive further information pertaining to a field area. |
| F10 - Back | Select this option if you want to: Return to the Currently Defined Special Call Sets Screen. |

Keypad Limit Options

Ericsson GE Mobile Communications Inc.

(1) Setup

MTD EDACS RADIO PROGRAMMING

A-1

Call

1

2

3

4

5

6

7

8

Use the

Ente

(2) Keypad Limit Options

Keypad Limits: XXXXX (3)

Logical ID Lower Limit: XXXXX (4)

Logical ID Upper Limit: XXXXX (5)

(6) Press TAB to toggle limit type

XXXX

F1

F2

F3

F4

F5

F6

F7

F8

F9 Help

F10 Back

Figure 4-14 - Keypad Limit Options Window

- (1) Function

(2) Window Title

(3) Keypad Limits

(4) Logical ID Lower Limit

(5) Logical ID Upper Limit

(6) Prompt Line
- indicates setup function

- keypad limit options window

- sets keypad limit option

- sets lowest limit LID range

- sets highest limit LID range

- current field instruction line

The Keypad Limit Options Window, shown in Figure 4-14, is accessed by selecting **F7 Option** from the Special Call Set Window. This window allows you to define options associated with a special call set.

Keypad Limits

(3) The **Keypad Limits** field allows a limit to be placed on the range of Individual Call IDs.

Using the **TAB** key as a toggle switch, select between "Range" and "None". Selection of "Range" allows an upper and lower limit to be set for Individual Call IDs. Selection of "None" indicates no range limit on the IDs entered.

The selection made in this field has direct control over the appearance of the Logical ID Lower Limit field and the Logical ID Upper Limit field. When "Range" is selected, the two fields are displayed and will accept data. When "None" is selected, these fields will not appear.

- Logical ID Lower Limit** (4) The **Logical ID Lower Limit** field specifies the lowest possible logical ID to be entered for an Individual Call.

Enter the desired low limit ID to be allowed. To be valid this entry must be in the range of 1 to 16382 and must be lower than the entry in the Logical ID Upper Limit field.

This field only appears when "Range" is selected in the Keypad Limits field.

- Logical ID Upper Limit** (5) The **Logical ID Upper Limit** field specifies the highest possible logical ID to be entered for an Individual Call on the desktop station.

Enter the desired high limit ID to be allowed. To be valid, this entry must be in the range of 1 to 16382 and must be higher than the entry in the Logical ID Lower Limit field.

This field only appears when "Range" is selected in the Keypad Limits field.

From the Keypad Limit Options Window, function key options are:

F9 - Help Select this option if you want to:
Receive further information pertaining to a field area.

F10 - Back Select this option if you want to:
Return to the Special Call Set Window.

Storing Sets

Ericsson GE Mobile Communications Inc.

(1) XXXXXXXXMTD EDACS RADIO PROGRAMMINGA-1

XXXXXX
XXXXXX

(3) Store file

File to be saved: XXXXXXXX (4)

Are you sure? Yes - Press F1 (5)
No - Press F2

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

F1
Yes

F2
No

F3

F4

F5

F6

F7

F8

F9
Help

F10
Back

Figure 4-15 - Store File Window

- (1) Function

- indicates function
- (2) Set Window

- indicates current set window
- (3) Window Title

- store file window
- (4) File to be saved

- name to be stored under
- (5) Continue Prompt

- continue or abort option

The Store File Window, shown in Figure 4-15, is accessed by selecting **F5 Store** while in a Set Window. This window is used to save the file identified to the pool directory without leaving the set.

File to be saved

(4) The **File to be saved** field is used to specify the name under which the current set is to be stored.

Enter the destination file name. You can use up to eight valid characters in any alphanumeric combination. This field is an upper case field, therefore all characters will be converted to upper case even if entered in lower case. This field will not accept file names that are not acceptable to DOS.

From the Store File Window, function key options are:

- | | |
|-------------------|-------------------------------------------------------------------------------------------------------------|
| F1 - Yes | Select this option if you want to: Store the set to the pool directory under the file name specified. |
| F2 - No | Select this option if you want to: Abort the file saving operation. |
| F9 - Help | Select this option if you want to: Receive further information pertaining to a field area. |
| F10 - Back | Select this option if you want to: Return to the Set Window. |

Saving Sets

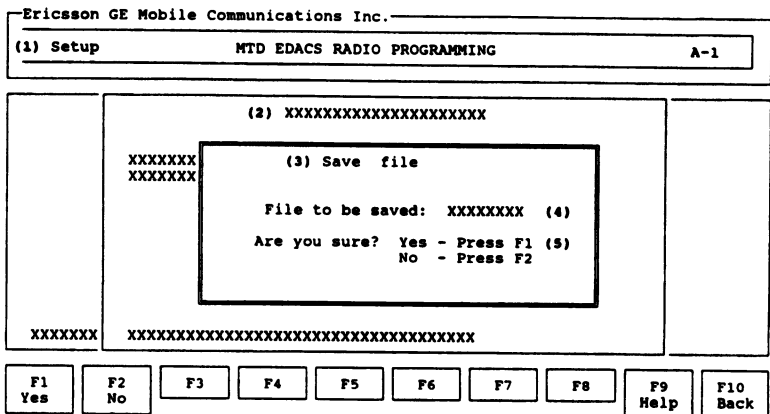


Figure 4-16 - Save File Window

- | | |
|----------------------|--------------------------------|
| (1) Function | - indicates function |
| (2) Set Window | - indicates current set window |
| (3) Window Title | - save file window |
| (4) File to be saved | - name to be saved under |
| (5) Continue Prompt | - continue or abort option |

The Save File Window, shown in Figure 4-16, is accessed whenever you try to exit a Set Window. The purpose for this window is to let you specify the name where the set is to be saved.

| | |
|------------------|--------------------------------------------------------------------------------------------------------------|
| XXXXXX XXXXXX | <p>Save file</p> <p>File to be saved: XXXXXXXX (4)</p> <p>Are you sure? Yes - Press F1 No - Press F2</p> |
|------------------|--------------------------------------------------------------------------------------------------------------|

File to be saved (4) The **File to be saved** field is used to specify the name under which the current set is to be saved.

Enter the destination file name. You can use up to eight valid display characters in any alphanumeric combination. This field is an upper case field, therefore all characters will be converted to upper case even if entered in lower case. This field will not accept file names that are not acceptable to DOS.

From the Save File Window, function key options are:

- F1 - Yes** Select this option if you want to:
Save the set to disk under the file name specified.
- F2 - No** Select this option if you want to:
Abort the file saving operation.
- F9 - Help** Select this option if you want to:
Receive further information pertaining to a field area.
- F10 - Back** Select this option if you want to:
Return to the Set Window.

Modifying Sets

| | | | | | | | | | |
|----------------------------------------|-----------------------------|--|--|--|--|--|-----|--|--|
| Ericsson GE Mobile Communications Inc. | | | | | | | | | |
| (1) Setup | MTD EDACS RADIO PROGRAMMING | | | | | | A-1 | | |

(2) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
XXXXXXXXXXXXXXXXXXXX

(3) Change/edit file

File to be edited: XXXXXXXX (4)

Are you sure: Yes - Press F1 (5)
No - Press F2

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

| | | | | | | | | | |
|-----------|----------|----|----|----|----|----|----|------------|-------------|
| F1 Yes | F2 No | F3 | F4 | F5 | F6 | F7 | F8 | F9 Help | F10 Back |
|-----------|----------|----|----|----|----|----|----|------------|-------------|

Figure 4-17 - Change/Edit File Window

- | | |
|-----------------------|--------------------------------------|
| (1) Function | - indicates function |
| (2) Screen Title | - indicates currently defined screen |
| (3) Window Title | - change/edit file window |
| (4) File to be edited | - set to be changed |
| (5) Continue Prompt | - continue or abort option |

The Change/Edit file Window, shown in Figure 4-17, is accessed by selecting **F2 Change** while in a Currently Defined Sets Screen. This window is used to change/edit a set residing in the current directory.

- | | | |
|-------------------|-----|-----------------------------------------------------------------------------------------|
| File to be edited | (4) | The File to Edit field is used to specify the file name of the set to be edited. |
|-------------------|-----|-----------------------------------------------------------------------------------------|

Enter the desired set name. To be valid, this set must be a currently defined set. You can use up to eight valid characters in any alphanumeric combination. This field is an upper case field, therefore all characters will be converted to upper case even if entered in lower case. This field will not accept file names that are not acceptable to DOS.

From the Change/Edit File Window, function key options are:

- F1 - Yes** Select this option if you want to:
Change the set selected.
- F2 - No** Select this option if you want to:
Discontinue with this procedure.
- F9 - Help** Select this option if you want to:
Receive further information pertaining to a field
area.
- F10 - Back** Select this option if you want to:
Return to the Currently Defined Sets Screen.

Deleting Sets

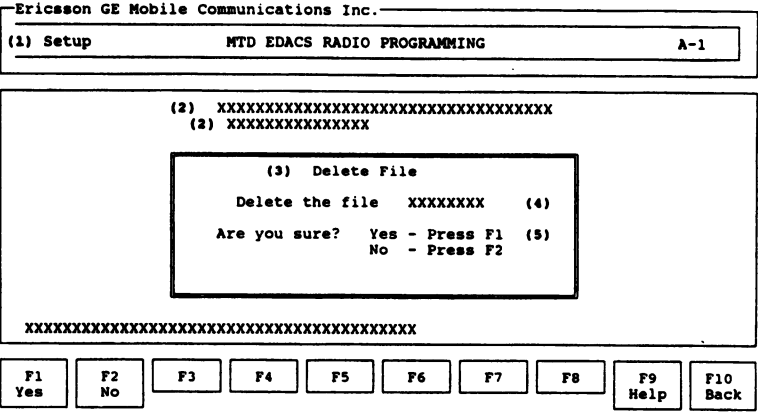


Figure 4-18 - Delete File Window

- (1) Function - indicates function
- (2) Screen Title - currently defined screen title
- (3) Window Title - delete file window
- (4) Delete the file - indicates file to be deleted
- (5) Continue Prompt - continue or abort option

The Delete File Window, shown in Figure 4-18, is accessed by selecting **F5 Delete** while in a Currently Defined Sets Screen. This window is used to delete a set from the disk.

Delete the file (4) The **Delete the File** field is used to indicate which set you want to delete. (The file name will default to the last highlighted set.)

Enter the desired file name. To be valid, this set must be a currently defined set. This field will accept up to eight characters in any alphanumeric combination. Alphabetic characters will automatically be converted to upper case. This field will not accept file names that are not acceptable to DOS.

From the Delete File Window, function key options are:

- | | |
|-------------------|-----------------------------------------------------------------------------------------------|
| F1 - Yes | Select this option if you want to: Delete the set selected. |
| F2 - No | Select this option if you want to: Discontinue with this procedure. |
| F9 - Help | Select this option if you want to: Receive further information pertaining to a field area. |
| F10 - Back | Select this option if you want to: Return to the Currently Defined Sets Screen. |

Creating A Personality

Radio Personality

Ericsson GE Mobile Communications Inc.

(1) Personalities

MTD EDACS RADIO PROGRAMMING

A-1

(2) Radio Personality

(3) XXX - XXX Mhz

(12) (13) (14)

(4) (5) (6) (7) (8) (9) (10) (11) Emg Emg FS

Sys Name Freq Set Type Site Unit Grp Set Spc Set Aud Dsp Chan

1 XXXXXXXX XXXXXXXX X XX XXXXX XXXXXXXX XXXXXXXX XXX XXX XX

2

3

4

5

6

7

8

(16) Free Space: XXXX (15)

Enter System Display Name

F1 Detail

F2 Insert

F3 Remove

F4

F5 Progrm

F6

F7 Mobile

F8 More

F9 Help

F10 Back

Figure 4-19 - Radio Personality Screen

- | | |
|------------------|----------------------------------------|
| (1) Function | - indicates personalities function |
| (2) Screen Title | - radio personality screen |
| (3) Band Split | - indicates current band split |
| (4) Sys | - indicates system number sequencing |
| (5) Name | - identifies system display name |
| (6) Freq Set | - identifies frequency set |
| (7) Type | - indicates frequency set type |
| (8) Site | - specifies site ID of system |
| (9) Unit | - specifies logical ID of this unit |
| (10) Group Set | - indicates group set |
| (11) Spc Set | - indicates special call set |
| (12) Emg Aud | - emergency audio enable |
| (13) Emg Dsp | - emergency display enable |
| (14) FS Chan | - conventional failsoft channel |
| (15) Free Space | - indicates remaining free space avail |
| (16) Prompt Line | - current field instruction line |

The Radio Personality Screen, shown in Figure 4-19, is accessed by selecting **F2 Change** or **F4 New** from the Current Personalities Screen. This is the main data entry screen for programming the radio. It sets many of the parameters of an individual radio and allows access to most others. After you have entered the name of the frequency set to use on this system, the program will pull it in from the data base and will set the state of the type.

When defining a personality, if the entered frequency set is a trunked set, the cursor will advance to the Site field. If the frequency set is conventional, the cursor will not be allowed entry into some of the fields.

To be valid, a trunked system definition requires a trunked frequency set, a site ID, a unit ID, and a group set. However, a conventional system only requires a conventional frequency set.

You can easily insert or remove system definitions by using the **F2 Insert** and **F3 Remove** keys. To insert a system definition place your cursor anywhere on the line where you want the new system definition to appear and press **F2 Insert**. An empty system definition line will appear shifting all the following system definitions one line lower. To delete a system definition line, place your cursor on the system definition you want deleted and press **F3 Remove**. The line you are on will disappear and the line that was just below it will now occupy the space of the deleted line. Thus, all system definitions below the deleted system definition will shift upward one level.

The screen will display up to eight system definitions at a time. Additional system definitions can be accessed by the **Pg Dn** and **Pg Up** keys. Please note that there are 48 system definitions allowed per personality.

Before inserting data in the program, it is recommended that you first fill out the available work sheets in Appendix G of this manual.

NOTE

The steps involved in defining a system consist of the following:

1. **Frequency Sets**. Frequency Sets must be created before defining a personality.
2. **Group Sets** Group Sets must be created before defining a personality.
3. **Special Call Sets** Special Call Sets must be created before defining a personality.
4. **System Name**. Enter the alphanumeric display name for the system in the Radio Personality Screen. This name will be displayed in the units LCD panel.
5. **Frequency Set**. Enter the name of the frequency set to be used on this system.
6. **Site ID** (for trunked frequency sets). Enter the site ID to be used on this system if different than the ID number that automatically appears.
7. **Unit ID** (for trunked frequency sets). Enter the logical ID (LID) of the unit to be programmed.
8. **Group Set** (for trunked frequency sets). Enter the name of the group set to be used on this system.
9. **Special Call Set** (for trunked frequency sets). Enter the name of the special call set to be used on this system.
10. **Options**. Select the various options associated with this system.

| Radio Personality | | | | | | | | | | | |
|-------------------|----------|----------|------|-------------------|-------|----------|----------|---------|---------|---------|--|
| (4) (5) | | (6) | | (3) XXX - XXX Mhz | | | | | | | |
| Sys Name | | Freq Set | Type | Site | Unit | Grp Set | Spc Set | Emg Aud | Emg Dsp | FS Chan | |
| 1 | XXXXXXXX | XXXXXXXX | X | XX | XXXXX | XXXXXXXX | XXXXXXXX | XXX | XXX | XX | |
| 2 | | | | | | | | | | | |

Band Split (3) The **Band Split** field indicates the acceptable frequency range for defining this personality.

This field is a "Display Only" field and is not accessible from this window. The frequency range band split is defined in the Setup portion of the program.

Sys (4) The **System Number** field indicates system number sequencing. During screen entry the cursor skips over this field.

This field is a "Display Only" field and cannot be accessed.

Name (5) The **System Display Name** field is used to specify the radio LCD display name to be entered whenever this system is selected.

Enter the desired system display name. You can use up to eight valid characters in any alphanumeric combination. The characters entered in this field will be converted to upper case even if entered in lower case.

Freq Set (6) The **Frequency Set** field is used to specify the frequency set to use on this system.

Enter the name of the frequency set desired. The frequency set should have already been defined in the Setup portion of the program. If the frequency set has not been defined, you can create a new frequency set while in the Radio Personality Screen by pressing **F8 More** and **F2 Freq**. (For further information regarding frequency set creation, refer to the "Creating Frequency Sets" section in the Setup portion of this manual.)

| Radio Personality | | | | | | | | | | |
|-------------------|----------|-----------------|-------------|-------------|-------------|----------|----------|------------|------------|------------|
| XXX - XXX Mhz | | | | | | | | | | |
| Sys | Name | (6) Freq Set | (7) Type | (8) Site | (9) Unit | Grp Set | Spc Set | Emg Aud | Emg Dsp | FS Chan |
| 1 | XXXXXXXX | XXXXXXXX | X | XX | XXXXX | XXXXXXXX | XXXXXXXX | XXX | XXX | XX |
| 2 | | | | | | | | | | |

- Freq Set
Cont'd
- (6) When you enter a frequency set name in the Freq Set field, a search will be made of the personality to find a "matching frequency set name". If found, all frequency set references in this system will refer to the corresponding frequency set. If a match is not found, then a search will be made of the Pool directory. You cannot enter a non-defined frequency set. If you want to replace the existing frequency set with a new frequency set, simply replace the name with the name of a new set. If the replaced set is not used with any other system then it will be deleted from the personality.

NOTES

Only one copy of each frequency set is in the personality. If you modify a frequency set that is used by another system, the changes made will also appear in the other system.

Only a maximum of eight conventional frequency sets are allowed in each personality.

- Type
- (7) The **Type** field indicates what the type of frequency set is being added to the system.

This field is a "Display Only" field that appears whenever a frequency set name is entered in the Frequency Set field.

There are three possible displays:

- **Blank Entry:** indicates that the system does not have a frequency set.
- **T:** indicates that the frequency set added is a trunked system.
- **C:** indicates that the frequency set added is a conventional system.

- Site** (8) The **Site Identification** field specifies the site controller ID number for this trunked frequency system.

Enter a number in the range of 1 - 31 to specify the site ID of the site controller. This number represents the ID that the site will be echoing on the control channel.

NOTE

If the wrong site ID is entered, the radio will not lock onto the control channel. This will prevent the radio from operating on that system causing an out of range indication on the radio.

- Unit** (9) The **Unit Identification** field specifies the logical ID of the unit while on this system. This ID will be used by the radio on this system for signalling purposes.

Enter a number in the range of 1 - 16382 to represent the logical ID of this unit. The system will use the LID for determining authorizations, restrictions, and call sequencing.

NOTE

Duplicating logical IDs on the system will cause improper system operation. Therefore, it is extremely important that unit numbers are controlled.

| Radio Personality | | | | | | | | | | | | | |
|-------------------|----------|----------|-----|------|------|-------|----------|----------|-----|-----|-----|-----|------|
| XXX - XXX Mhz | | | | | | | | | | | | | |
| (10) (11) | | | | | | | | | | | | | |
| Sys | Name | Freq | Set | Type | Site | Unit | Grp | Set | Spc | Set | Emg | Emg | FS |
| | | | | | | | | | | | Aud | Dsp | Chan |
| 1 | XXXXXXXX | XXXXXXXX | | X | XX | XXXXX | XXXXXXXX | XXXXXXXX | | | XXX | XXX | XX |
| 2 | | | | | | | | | | | | | |

Grp Set (10) The **Group Set** field is used to specify the group set to use on this system.

Enter the name of the group set desired. The group set should have already been defined in the Setup portion of the program. If the group set has not been defined previously, you can create a new group set while in the Radio Personality Screen by pressing **F8 More** and **F3 Group**. (For information regarding group set creation, refer to the "Creating Group Sets" section in the Setup portion of this manual.)

When you enter a group set name, a search will be made of the personality to find a "matching group set name". If found, all group set references in this system will refer to the corresponding group set. If a match is not found, then a search will be made of the Pool directory. You cannot enter a non-defined group set. If you want to replace the existing group set with a new group set, simply replace the name with the name of a new set. The new set must exist either in the personality or in the Pool directory.

NOTE

There is only one copy of each group set in the personality. When you modify a set that is used by another system, those changes will also appear in the other system.

- Spc Set (11) The **Special Call Set** field is used to specify the special call set to use on this system.

Enter the name of the special call set desired. The special call set should have already been defined in the Setup portion of the program. If the special call set has not been previously defined, you can create a new special call set while in the Radio Personality Screen by pressing **F8 More** and **F6 SpCall**. (For further information regarding special call set creation, refer to the "Creating Special Call Sets" section in the Setup portion of this manual.)

When you enter a special call set name, a search will be made of the personality to find a "matching special call set name". If found, all special call set references in this system will refer to the corresponding special call set. If a match is not found, then a search will be made of the Pool directory. You cannot enter a non-defined special call set. If you want to replace the existing special call set with a new special call set, simply replace the name with the name of a new set. The new set must exist either in the personality or in the Pool directory.

NOTES

There is only one copy of each special call set in the personality. When you modify a special call set that is used by another system, those changes will also appear in the other system.

A maximum of seven unique special call sets are allowed in each personality.

| Radio Personality | | | | | | | (12) | (13) | (14) |
|-------------------|----------|----------|------|------|---------|-----------|--------|------|------|
| XXX - XXX Mhz | | | | | | | Emg | Emg | FS |
| Sys Name | Freq Set | Type | Site | Unit | Grp Set | Spc Set | Aud | Dsp | Chan |
| 1 | XXXXXXXX | XXXXXXXX | X | XX | XXXXX | XXXXXXXXX | XXXXXX | XXXX | XX |
| 2 | | | | | | | | | |

- Emg Aud** (12) The **Emergency Audio** field allows the radio to produce audio when declaring an emergency from the radio.

Using the **TAB** key as a toggle switch, select "On" or "Off". "On" allows the radio to leave audio enabled whenever an emergency is declared from the radio. "Off" disables audio whenever an emergency is declared from the radio until the emergency is cleared or push-to-talk is depressed on the unit.

- Emg Dsp** (13) The **Emergency Display** field allows the radio to produce a visual display when declaring an emergency from the radio.

Using the **TAB** key as a toggle switch, select "On" or "Off". "On" allows the radio to produce a visual display when an emergency is declared from the radio. This display will continue until the emergency is cleared or push-to-talk is depressed on the unit. "Off" disables the emergency visual display.

- FS Chan** (14) The **Failsoft Channel** field is used to indicate which channel the unit should tune to should the system fall into conventional failsoft mode.

Enter the desired valid channel number on the system or leave this field blank. Entering a number will cause the unit to go to the specified channel should the system fall into failsoft mode. Leaving this field blank will disable the failsoft channel operation.

Free Space (15) The **Free Space** field indicates remaining free space available for creating this personality.

This field is a "Display Only" field and cannot be accessed.

The appearance of this window is controlled through the Free Space Calculation field in the Environment Settings Window.

TQ-3346

From the Radio Personality Screen, function key options are:

- | | |
|--------------------|-----------------------------------------------------------------------------------------------------------------|
| F1 - Detail | Select this option if you want to: View or modify frequency set, group set, or special call set definitions. |
| F2 - Insert | Select this option if you want to: Insert a new line for a system set definition. |
| F3 - Remove | Select this option if you want to: Remove a system set definition line. |
| F5 - Progrm | Select this option if you want to: Download the personality into a radio. |
| F7 - Mobile | Select this option if you want to: Define options associated with a mobile unit. |
| F8 - More | Select this option if you want to: View additional functions. |

When the F8 - More key is selected, the following additional functions are available:

- | | |
|--------------------|------------------------------------------------------------------------------------|
| F2 - Freq | Select this option if you want to: Create, delete, or modify frequency sets. |
| F3 - Group | Select this option if you want to: Create, delete, or modify group sets. |
| F4 - Text | Select this option if you want to: Enter text associated with the personality. |
| F6 - SpCall | Select this option if you want to: Create, delete, or modify special call sets. |
| F7 - SysScn | Select this option if you want to: Define the wide area system scan table. |
| F8 - More | Select this option if you want to: View previous radio personality functions. |

- F9 - Help** Select this option if you want to:
Receive further information pertaining to a field area.
- F10 - Back** Select this option if you want to:
Return to the Current Personalities Screen.

Detailing Sets

While working in the Radio Personality Screen, you may want to view or modify a frequency set, a group set, or a special call set. To do this, place your cursor on the Freq Set field, Grp Set field, or Spc Set field and select **F1 Detail**. The corresponding window will appear.

When the window is brought up you can make any necessary adjustments, i.e., adding a new line definition or modifying an already existing definition. If you want these changes to affect only the radio personality currently being programmed, simply select **F10 Back** to return to the Radio Personality Screen. These changes will only apply to the particular radio personality currently being edited and will not affect any information stored in the Pool directory. However, if you want to change the set permanently, select **F5 Store** to save the changes to disk before returning to the Radio Personality Screen.

Mobile Radio Options

Ericsson GE Mobile Communications Inc.

| | | |
|--------------------|-----------------------------|-----|
| (1) Mobile Options | MTD EDACS RADIO PROGRAMMING | A-1 |
|--------------------|-----------------------------|-----|

(2) Mobile Radio Options

| | |
|---------------------------|----------------------------|
| (3) Failsoft Display: XXX | Caller Display: |
| (4) Supervisory: XXX | (16) Individual ID: XXX |
| | (17) Group ID: XXX |
| Timeouts: | (18) Alpha Mapping: XXX |
| (5) CCT: XXX | (11) Test Set: XXXXXXXX |
| (6) Display: XXX | (12) Ramp Wrap: XXXX |
| (7) Indiv Call: XXX | (13) Auto Login: XXXX |
| (8) Special Call: XXX | (19) Home System: XXXXXXXX |
| (9) Data Lockout: XXX | (20) Minimum Volume: XXX |
| (10) Scan Lockout: XXX | Emer/Home Button: |
| | (21) Emer: XXXXXXXX |
| (14) Hookswitch: XXXXXXXX | (22) Home: XXXXXXXX |
| (15) Off Hook Fnc: XXX | |

(23)
Press TAB to toggle, F9 for help

| | | | | | | | | | |
|------------|---------------|-------------|------------|------------|------------|----|------------|------------|-------------|
| F1 Menu | F2 Initial | F3 Param | F4 User | F5 Scan | F6 Desk | F7 | F8 More | F9 Help | F10 Back |
|------------|---------------|-------------|------------|------------|------------|----|------------|------------|-------------|

Figure 4-20 - Mobile Radio Options Window

- | | |
|----------------------|----------------------------------------|
| (1) Function | - indicates mobile options function |
| (2) Window Title | - mobile radio options window |
| (3) Failsoft Display | - enables failsoft display indicator |
| (4) Supervisory | - indicates supervisory classification |
| (5) CCT | - time before transmission drops |
| (6) Display | - sets time before display time out |
| (7) Indiv Call | - sets individual call time out period |
| (8) Special Call | - specifies special call time out time |
| (9) Data Lockout | - indicates data call lockout time |
| (10) Scan Lockout | - indicates scan lockout time |
| (11) Test Set | - identifies conventional freq set |
| (12) Ramp Wrap | - enables radio setting wrap around |
| (13) Auto Login | - allows radio to generate login msg |
| (14) Hookswitch | - indicates hookswitch type to be used |
| (15) Off Hook Fnc | - enables scanning with mic off hook |
| (16) Individual ID | - allows ID display during indiv calls |
| (17) Group ID | - allows ID display during group calls |
| (18) Alpha Mapping | - indicates call display association |
| (19) Home System | - assigns home/emerg function display |
| (20) Minimum Volume | - sets lowest volume setting for radio |
| (21) Emer | - specifies emergency switch function |
| (22) Home | - determines where emergency declared |
| (23) Prompt Line | - current field instruction line |

The Mobile Radio Options Window, shown in Figure 4-20, is accessed by selecting **F7 Mobile** while in the Radio Personality Screen. This window allows you to select specific options associated with mobile radios.

- Failsoft Display** (3) The **Failsoft Display** field allows a failsoft indicator to appear on the unit whenever the site falls into failsoft mode.

Using the **TAB** key as a toggle switch, select between "Yes" and "No". Selecting "Yes" causes failsoft to appear in the radio display whenever the system falls into failsoft mode. "No" prevents the failsoft display.

- Supervisory** (4) The **Supervisory** field is used to indicate whether or not the radio has the ability to clear emergencies on the system and clear group calls with the CLR button.

Using the **TAB** key as a toggle switch, select between "Yes" and "No". A "Yes" value indicates that the radio is a supervisory radio with emergency clearing privilege.

- CCT** (5) The **Carrier Control Timer** field indicates the radio carrier control time. The carrier control timer ensures that the radio will not continuously transmit over a specific amount of time.

Enter a value here in the range of 0 - 250 in 10 second intervals. This value causes the radio to automatically drop a channel when the transmission period exceeds the specified period.

- Display Timeout** (6) The **Display Time Out** field is used to specify a temporary radio display time out period.

| | | | |
|--------------------|-----|----------------------|-----------------------|
| Timeouts: | | Test Set: XXXXXXXX | Alpha Mapping: XXX |
| CCT: | XXX | Ramp Wrap: XXXX | |
| (6) Display: | XXX | Auto Login: XXXX | Home System: XXXXXXXX |
| (7) Indiv Call: | XXX | | Minimum Volume: XXX |
| (8) Special Call: | XXX | | |
| (9) Data Lockout: | XXX | | Emer/Home Button: |
| (10) Scan Lockout: | XXX | Hookswitch: XXXXXXXX | Emer: XXXXXXXX |
| | | Off Hook Fnc: XXX | Home: XXXXXXXX |

Display Timeout Cont'd (6) Enter a value here in the range of 0 to 7.5 seconds in .5 second intervals. The temporary radio display will disappear after this time out period is exceeded.

Indiv Call Timeout (7) The **Individual Call Time Out** field is used to specify the length of time between push-to-talks before the radio drops an individual call.

Enter a time between 0 and 75 seconds in 5 second intervals to indicate the desired time out period.

NOTE

All radios should have the same time out period. If two radios have different time out periods, one will return to the group setting while the other will still appear to be in an individual call.

Special Call Timeout (8) The **Special Call Time Out** field is used to specify the length of time between push-to-talks before the radio drops a special call.

Enter a time between 0 and 75 seconds in 5 second intervals to indicate the desired time out period. Selection of "0" will disable the special call timer.

NOTE

You will want to coordinate the individual call time out with the special call time out.

Future implementation of this feature forthcoming.

**Data
Lockout
Timeout**

- (9) The **Data Lockout Time Out** field is used to specify how long the radio will lock out data calls once a voice call has been received to allow for continuity of conversation.

Enter a value of "0", "5", "10", or "20" seconds to indicate the desired data lock out time out period. Entering "0" will disable the timer. Selection of "5", "10", or "20" will cause the radio to lock out data calls after receiving a voice call for the specified period.

NOTE

Emergency calls are exempt from data lock out.

**Scan
Lockout
Timeout**

- (10) The **Scan Lock Out Time Out Period** field is used to indicate the length of time that scanned voice calls are locked out after receiving a data call to allow for subsequent data calls to be received.

Enter a value of "0", "5", "10", or "20" seconds to indicate the desired scan lock out time out period. Entering "0" causes the radio to lock out scanned voice calls after receiving a data call for the specified timer value, or three times the specified value if sending data.

NOTE

Selected group calls, individual calls, and emergency calls are exempt from this lock out.

| | | |
|---------------|------------------------------|-----------------------|
| Timeouts: | (11)Test Set: XXXXXXXX | Alpha Mapping: XXX |
| CCT: | XXX (12)Ramp Wrap: XXXX | |
| Display: | XXX (13)Auto Login: XXXX | Home System: XXXXXXXX |
| Indiv Call: | XXX | Minimum Volume: XXX |
| Special Call: | XXX | |
| Data Lockout: | XXX | Emer/Home Button: |
| Scan Lockout: | XXX (14)Hookswitch: XXXXXXXX | Emer: XXXXXXXX |
| | (15)Off Hook Fnc: XXX | Home: XXXXXXXX |

Test Set (11) The **Conventional Test Set** field is used to indicate the conventional test set to use for test modes.

Enter the desired conventional test set. The test set must exist in the personality or reside in the Pool directory to be valid.

Ramp Wrap (12) The **Ramp Wrap** field is used to indicate whether or not the radio should wrap around the system and group knob settings.

Using the **TAB** key as a toggle switch, select "On" or "Off". Selecting "On" indicates that once the highest system/group has been reached, the next advance will cause the first system/group to appear. Selecting "Off" indicates that when the system or group control is advanced to the highest system/group, advancement discontinues.

Auto Login (13) The **Auto Login** field is used to indicate whether or not the radio is to generate a log in message when entering a new system.

Using the **TAB** key as a toggle switch, select "On" or "Off". Selecting "On" causes the radio to generate a log in message upon locating the control channel of a new system. Selecting "Off" prevents the radio from generating a log in message when the control channel of a new system is located.

NOTE

When logging in to a system, access to special calls is denied.

Hookswitch (14) The **Hookswitch** field is used to specify the type of hookswitch that will be used with the radio.

Using the **TAB** key as a toggle switch, select between "Normal" and "Inverted". Selection of "Normal" indicates that the radio will be used with GE standard microphones.

Off Hook Fnc (15) The **Off Hook Function** field determines whether the radio is to scan or operate data while the microphone is off hook.

Using the **TAB** key as a toggle switch, select between "Yes" and "No". Selecting "Yes" allows the radio to scan or operate data even when the microphone is removed from the hookswitch. Selecting "No" causes the radio to halt or suspend scanning until the microphone is returned to the hookswitch.

NOTE

The hookswitch will continue to work normally for clearing special and individual calls.

TQ-3346

| | | | |
|---------------|-----|----------------------|----------------------------|
| Supervisory: | XXX | Additional Options | (16) Individual ID: XXX |
| Timeouts: | | Test Set: XXXXXXXX | (17) Group ID: XXX |
| CCT: | XXX | Ramp Wrap: XXXX | (18) Alpha Mapping: XXX |
| Display: | XXX | Auto Login: XXXX | (19) Home System: XXXXXXXX |
| Indiv Call: | XXX | | (20) Minimum Volume: XXX |
| Special Call: | XXX | | |
| Data Lockout: | XXX | | |
| Scan Lockout: | XXX | | |
| | | Hookswitch: XXXXXXXX | Emer/Home Button: |
| | | Off Hook Fnc: XXX | (21) Emer: XXXXXXXX |
| | | | (22) Home: XXXXXXXX |

Individual ID (16) The **Individual ID Caller Display** field is used to determine whether the radio will display the originator's ID during individual calls.

Using the **TAB** key as a toggle switch, select between "Yes" and "No". Selecting "Yes" causes the radio to display the caller's individual ID during all individual calls.

Group ID (17) The **Group ID Caller Display** field is used to determine whether the unit will display the originating unit's ID during group calls.

Using the **TAB** key as a toggle switch, select between "Yes" and "No". Selecting "Yes" indicates that the unit will display the caller's ID during all group conversations.

Alpha Mapping (18) The **Alpha Mapping** field is used to determine how the caller display will be indicated in the selected system.

Using the **TAB** key as a toggle switch, select between "Yes" and "No". Selecting "Yes" causes the caller display to be associated with a name in the special call list. Selecting "No" indicates that the caller display will be numeric.

Home System (19) The **Home System** field is used to indicate the name of the system that will be used when the home/emergency function is activated.

Specify the desired home system name. To be valid this name must exist as a system name in the current personality.

Minimum Volume (20) The **Minimum Volume** field is used to specify the lowest volume level that the radio will allow.

Enter a value between 0 and 15 to indicate the lowest volume allowed. Entering a non-zero value will prevent the radio from being ramped below that level.

Emergency (21) The **Emergency Button** field is used to indicate how the emergency switch on the radio is used.

Using the **TAB** key as a toggle switch, select between "Enable" and "Disable". Selecting "Enable" enables the emergency switch, causing it to declare an emergency on the home or current group (depending on the selection in the following Home field). "Disable" causes the emergency key to act as a home function key and not as an emergency key.

Home (22) The **Home Button** field is used to define the Home key or specify where an emergency will be declared.

Using the **TAB** key as a toggle switch, select between "Enable" and "Disable".

- When the above Emergency field is enabled, then selection of "Enable" in this field causes an emergency to be declared on the Home Group. "Disable" causes the emergency to be declared on the current group.
- When the above Emergency field is disabled, then selection of "Enable" in this field will enable the Home key. "Disable" disables the Home key.

TQ-3346

From the Mobile Radio Options Window, function key options are:

- | | |
|--------------------|-------------------------------------------------------------------------|
| F1 - Menu | Select this option if you want to: Define menu options. |
| F2 - Inital | Select this option if you want to: Set the initial radio state. |
| F3 - Param | Select this option if you want to: Define various radio parameters. |
| F4 - User | Select this option if you want to: Set the user control options. |
| F5 - Scan | Select this option if you want to: Modify conventional scan options. |
| F6 - Desk | Select this option if you want to: Define desk top options. |
| F8 - More | Select this option if you want to: View additional functions. |

When the F8 - More key is selected, the following additional functions are available:

- | | |
|--------------------|---------------------------------------------------------------------------------------------------------------------|
| F1 - Agency | Select this option if you want to: Define agency partition data associated with the current personality only. |
| F3 - Stat | Select this option if you want to: Define status keypad information. |
| F4 - MSG | Select this option if you want to: Define message keypad information. |
| F8 - More | Select this option if you want to: View previous mobile radio option functions. |

- F9 - Help

Select this option if you want to:
Receive further information pertaining to a field area.
- F10 - Back

Select this option if you want to:
Return to the Radio Personality Screen.

Mobile Radio Menu Options

Ericsson GE Mobile Communications Inc.

(1) Mobile Options

MTD EDACS RADIO PROGRAMMING

A-1

Failsoft Disp
Supervisory:

Timeouts:
CCT:
Display:
Indiv Call:
Special Call
Data Lockout
Scan Lockout

Press TAB to t

(2) Menu Options

Menu 1: XXXXXXXXXXXX (3)
Menu 2: XXXXXXXXXXXX
Menu 3: XXXXXXXXXXXX
Menu 4: XXXXXXXXXXXX
Menu 5: XXXXXXXXXXXX
Menu 6: XXXXXXXXXXXX

(4)
Press TAB to toggle, F9 for help

lay:
ID: XXX
XXX
ing: XXX

: XXXXXXXX
ume: XXX

utton:
XXXXXX
XXXXXX

F1

F2

F3

F4

F5

F6

F7

F8

F9
Help

F10
Back

Figure 4-21 - Menu Options Window

(1) Function

- indicates mobile options function

(2) Window Title

- menu options window

(3) Menu 1 - 6

- defines menu keys

(4) Prompt Line

- current field instruction line

The Menu Options Window, shown in Figure 4-21, is accessed by selecting **F1 Menu** while in the Mobile Options Window. This window allows you to define menu options associated with the mobile unit.

4-73

| Menu Options | | |
|---------------|--------------------------|----------|
| Failsoft Disp | Menu 1: XXXXXXXXXXXX (3) | lay: XXX |
| Supervisory: | Menu 2: XXXXXXXXXXXX | ID: XXX |
| Timeouts: | | ing: XXX |

Menu 1 - 6 (3) The Menu 1 - 6 Options fields determine how the menu keys will operate.

Using the TAB key as a toggle switch, select the desired menu setting for each of the six menu option fields. Possible menu settings are: "Disabled", "Special", "Scan On/Off", "Scan Add/Del", "Ext Alarm", "Status" and "Message".

Disabled - disables this menu key.

Special - allows the user to select special calls that are stored in the personality.

Scan On/Off - allows the user to determine whether or not to allow scanning on the radio.

Scan Add/Del - allows the user to add or delete from the existing scan list.

Ext Alarm - allows user to control operation of the external alarm.

Status - allows the user to select the Status Menu.

Message - allows the user to select the Message Menu.

From the Menu Options Window, function key options are:

- F9 - Help

Select this option if you want to:
Receive further information pertaining to a field area.
- F10 - Back

Select this option if you want to:
Return to the Mobile Radio Options Window.

Mobile Radio Initial Settings

| | | |
|----------------------------------------|-----------------------------|-----|
| Ericsson GE Mobile Communications Inc. | | |
| (1) Mobile Options | MTD EDACS RADIO PROGRAMMING | A-1 |

| | | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
| Failsoft Disp Supervisory: Timeouts: CCT: Display: Indiv Call: Special Call Data Lockout Scan Lockout Press TAB to t | (2) Initial Settings Power Up System/Group: XXXXXXXX (3) System: XXXXXXXX (4) Group: XXXXXXXX (5) Power Up Volume State: XXXXXXXX (6) Volume: XX (7) Power Up Scan: XXXXXXXX (8) Scan State: XXXXXXXX (9) (10) Press Tab to toggle, F9 for help | lay: ID: XXX ing: XXX : XXXXXXXX ume: XXX utton: XXXXX XXXXX |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|

| | | | | | | | | | |
|----|----|----|----|----|----|----|----|------------|-------------|
| F1 | F2 | F3 | F4 | F5 | F6 | F7 | F8 | F9 Help | F10 Back |
|----|----|----|----|----|----|----|----|------------|-------------|

Figure 4-22 - Initial Settings Window

- | | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| (1) Function (2) Window Title (3) Power Up System/Group (4) System (5) Group (6) Power Up Volume State (7) Volume (8) Power Up Scan (9) Scan State (10) Prompt Line | - indicates mobile options function - initial settings window - initial system/group power up - specifies initial system - identifies initial group - initial power up volume setting - denotes initial volume setting - initial power up scan setting - identifies scan state - current field instruction line |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

The Initial Settings Window, shown in Figure 4-22, is accessed by selecting **F2 Initial** while in the Mobile Radio Options Window. From this window you can define the initial radio state. These settings only affect the after programming state and should not be confused with the power up state of the radio.

| | | | | | |
|---------------|------------------------|----------|-----|------|----------|
| Failsoft Disp | Power Up System/Group: | XXXXXXXX | (3) | lay: | |
| Supervisory: | System: | XXXXXXXX | (4) | ID: | XXX |
| | Group: | XXXXXXXX | (5) | ing: | XXX |
| Timeouts: | Power Up Volume State: | XXXXXXXX | (6) | : | XXXXXXXX |
| CCT: | Volume: | XX | | ume: | XXX |
| Display: | | | | | |
| Indiv Call: | | | | | |

Power Up System/Group (3) The **Power Up System/Group** field is used to indicate how the radio will power up on the system/group.

Using the **TAB** key as a toggle switch, select between "Enable" and "Disable". Selecting "Enable" causes the radio to power up on a predefined system/group whenever power is applied to the radio. Selection of "Disable" will cause the radio to power up on the last system/group selected.

The state of this field will cause the System and Group fields to appear or disappear. When "Enable" is selected, System and Group fields appear allowing data entry. When "Disable" is selected, these fields will not appear.

System (4) The **System** field is used to specify the system that the radio selects when power is first applied.

Enter the desired initial system name. This field will accept any combination of alphanumeric characters up to eight characters in length. To be valid, this entry must match a system defined in the current Radio Personality Screen.

This field will not appear unless "Enable" has been selected in the Power Up System/Group field.

- Group** (5) The **Group field** is used to specify the initial group (for trunked systems), or channel (for conventional systems), that the radio selects when power is first applied.

Enter the desired initial group. This field will accept any combination of alphanumeric characters up to eight characters in length. To be valid, this entry must match a group or channel name in the currently defined system.

This field will not appear unless "Enable" has been selected in the Power Up System/Group field.

- Power Up Volume State** (6) The **Power Up Volume State field** is used to indicate whether the radio will power up on a predefined volume setting or on the last volume setting.

Using the **TAB** key as a toggle switch, select between "Enable" and "Disable". Selecting "Enable" causes the radio to power up on a predefined volume setting each time power is applied to the radio. "Disable" allows the radio to power up on the last volume setting selected.

The state of this field will cause the Volume field to appear or disappear. When "Enable" is selected, the Volume field will appear, allowing data entry. When "Disable" is selected, this field will not appear.

| | | | | |
|---------------|------------------------|----------|-----|----------|
| CCT: | Power Up Volume State: | XXXXXXXX | : | XXXXXXXX |
| Display: | Volume: | XX | (7) | ume: XXX |
| Indiv Call: | | | | |
| Special Call: | Power Up Scan: | XXXXXXXX | (8) | utton: |
| Data Lockout: | Scan State: | XXXXXXXX | (9) | XXXX |
| Scan Lockout: | | | | XXXX |

Volume (7) The **Initial Volume** field is used to specify the volume setting that the radio selects when power is first applied.

Enter the desired volume level. To be valid, this entry must be in the range of 0 - 15. Entering a non-zero value will prevent the radio from being ramped below that level.

This field will not appear unless "Enable" has been selected in the Power Up Volume State field.

Power Up Scan (8) The **Power Up Scan** field is used to determine if the radio will be in a predefined scan state or in the last scan state when powered up.

Using the **TAB** key as a toggle switch, select "Enable" or "Disable". Selecting "Enable" causes the radio to power up in a predefined scan state. Selecting "Disable" causes the radio to power up in the last scan state.

The state of this field will cause the Scan State field to appear or disappear. When "Enable" is selected, the Scan State field will appear, allowing data entry. When "Disable" is selected, this field will not appear.

Scan State (9) The **Scan State** field is used to indicate whether or not the radio will operate in a scan state.

Using the **TAB** key as a toggle switch, select between "Enable" and "Disable". Selecting "Enable" allows the user to select whether or not the radio will operate in a scan state. Selecting "Disable" prevents the user from selecting or deselecting the scan function on the radio.

This field will not appear unless "Enable" has been selected in the Power Up Scan field.

From the Initial Settings Window, function key options are:

- F9 - Help** Select this option if you want to:
Receive further information pertaining to a field area.
- F10 - Back** Select this option if you want to:
Return to the Mobile Radio Options Window.

Mobile Radio Parameters

Ericsson GE Mobile Communications Inc.

(1) Mobile Options

MTD EDACS RADIO PROGRAMMING

A-1

Fails Super
Timeo CCT:
Disp
Indi
Spec
Data
Scan

(2) Radio Parameters

(3)Channel Set Expansion: XXX (8)Data Only Radio: XXX
(4)Alarm Power Up State: XXXXXXXX(9)Data Host Radio: XXX
(5)External Alarm Type: XXXXXXXX(10)Queued Message Beep: XXX
(6)Radio Operation: XXXXXXXXXXXX(11)Conventional TX Beep: XXX
(7)Test Unit System: XXXXXXXX
(12)
Press TAB to toggle, F9 for help

Press

F1

F2

F3

F4

F5

F6

F7

F8

F9
Help

F10
Back

Figure 4-23 - Radio Parameters Window

- (1) Function

(2) Window Title

(3) Channel Set Expansion

(4) Alarm Power Up State

(5) External Alarm Type

(6) Radio Operation

(7) Test Unit System

(8) Data Only Radio

(9) Data Host Radio

(10) Queued Message Beep

(11) Conventional TX Beep

(12) Prompt Line
- indicates mobile options function

- radio parameters window

- allows channel set expansion

- sets indiv call alarm power up state

- sets radio response to indiv call

- indicates how radio is to be used

- identifies test unit system name

- prevents voice call reception

- enables radio to act as an RF host

-

- enables PTT beep in convent. mode

- current field instruction line

The Radio Parameters Window, shown in Figure 4-23, is accessed by selecting **F3 Param** while in the Mobile Radio Options Window. This window is used to specify parameters that define radio configuration or usage.

- Channel Set Expansion** (3) The **Channel Set Expansion** field is used to indicate whether or not the radio can use control channel messages to update a trunked frequency set.

Using the **TAB** key as a toggle switch, select between "On" and "Off". Selection of "On" indicates that "over-the-air" channel set expansion set is enabled. "Off" disables the function.

- Alarm Power Up State** (4) The **Alarm Power Up State** field is used to indicate the power up state of the individual call alarm.

Using the **TAB** key as a toggle switch, select between "Enabled" and "Disabled". Selection of "Enabled" causes the radio to always power up with the individual call alarm set so that the external alarm triggers upon receipt of any individual calls. "Disabled" prevents the external alarm trigger.

- External Alarm Type** (5) The **External Alarm Type** field is used to determine the radio alarm pulse when an individual call is received.

Using the **TAB** key as a toggle switch, select between "1 Pulse", "3 Pulse", and "Call Ind".

- 1 Pulse - causes the radio to generate a one second pulse whenever an individual call is received.
- 3 Pulse - causes the radio to generate three 1/2 second pulses whenever an individual call is received.
- Call Ind - causes the radio to generate an alarm pulse following to the call indicator.

TQ-3346

| | | |
|--------------|-----------------------------------|--------------------------------|
| Fails Super: | Channel Set Expansion: XXX | (8) Data Only Radio: XXX |
| Timeo: | Alarm Power Up State: XXXXXXXX | (9) Data Host Radio: XXX |
| CCT: | | |
| Disp: | External Alarm Type: XXXXXXXX | (10) Queued Message Beep: XXX |
| Indi: | | |
| Spec: | (6) Radio Operation: XXXXXXXXXXXX | (11) Conventional TX Beep: XXX |
| Data: | (7) Test Unit System: XXXXXXXX | |

Radio Operation (6) The **Radio Operation** field is used to indicate how the radio is to be used.

Using the **TAB** key as a toggle switch, select between "Normal", "Test Unit", "Stand Alone", and "CC Mon".

- Normal - causes normal radio operation.
- Test Unit - causes the radio to operate as a test unit. The radio is configured for local operation and is connected to the site controller.
- Stand Alone - causes the radio to operate as a stand alone test unit.
- CC Mon - causes the radio to act as a monitor receiver for the site voter equipment and, as such, will not decode any calls.

The selection in this field has direct control on the state of the Test Unit System field. Whenever "Test Unit" is selected, the Test Unit System field will appear allowing data entry. Selection of any other Radio Operation type prevents Test Unit System field entry.

Test Unit (7) The **Test Unit** field is used to specify the name of the system that will act as a test unit by this radio.

Enter the desired system name to be used as the test unit. This field will accept any combination of alphanumeric characters, up to eight characters in length. To be valid, this entry must match the name of

a system defined in the current personality.

This field will not appear unless "Test Unit" has been selected in the Radio Operation field.

- Data Only Radio** (8) The **Data Only Radio** field indicates whether or not voice calls can be received by the radio.

Using the **TAB** key as a toggle switch, select between "Yes" and "No" values. A "Yes" value prevents the radio from receiving voice calls and indicates that the radio is intended for data operation only. A "No" value enables the radio to receive voice calls.

This field should be set to "Yes" if the Data Host Radio field is to be enabled.

- Data Host Radio** (9) The **Data Host Radio** field indicates whether or not the radio will act as an RF-host.

Using the **TAB** key as a toggle switch, select between "Yes" and "No". Selecting "Yes" allows the radio to be operated as a data host.

If "Yes" is selected, the Data Only Radio field should also be enabled.

- Queued Message Beep** (10) The **Queued Message Beep** field

Enter the desired time. To be valid, this field must be in a range of 0 - 510 milliseconds.

| | | |
|-------|-----------------------------------|---------------------------|
| Timeo | Alarm Power Up State: XXXXXXXX | Data Host Radio: XXX |
| CCT: | | |
| Disp | External Alarm Type: XXXXXXXX | Queued Message Beep: XXX |
| Indi | | |
| Spec | Radio Operation: XXXXXXXXXXXX(11) | Conventional TX Beep: XXX |
| Data | Test Unit System: XXXXXXXX | |
| Scan | | |

Conven. TX Beep (11) **The Conventional Transmit Beep** field is used to determine whether or not there will be a beep sounded whenever the push-to-talk is pressed in conventional mode.

Using the **TAB** key as a toggle switch, select between "Yes" and "No". Selection of "Yes" causes a beep to be generated when push-to-talk is pressed in conventional mode. Selection of "No" prevents a beep from sounding whenever push-to-talk is pressed in conventional mode.

From the Radio Parameters Window, function key options are:

- F9 - Help** Select this option if you want to:
Receive further information pertaining to a field area.
- F10 - Back** Select this option if you want to:
Return to the Mobile Radio Options Window.

Mobile Radio User Control Options

Ericsson GE Mobile Communications Inc.

(1) Mobile Options

MTD EDACS RADIO PROGRAMMING

A-1

Failsoft Disp
Supervisory:

Timeouts:

CCT:

Display:

Indiv Call:

Special Call

Data Lockout

Scan Lockout

Press TAB to t

(2) User Control Options

Radio Alert Tones: XXXXXXXXXX (3)

Audio:

Audible Range Alert: XXXXXXXX (4)

Power Up Tone: XXXXXXXX (5)

Tone On Working Channel: XXXXXXXX (6)

Base Mobile Operation: XXXXXXXX (7)

Receive Call Alert Tones: XXXXXXXX (8)

Display ICON Location: XXXXXX (9)

Display Delimiter: X (10)

(11)

Press TAB to toggle, F9 for help

lay:

ID: XXX

XXX

ing: XXX

: XXXXXXXX

ume: XXX

utton:

XXXXXX

XXXXXX

F1

F2

F3

F4

F5

F6

F7

F8

F9
Help

F10
Back

Figure 4-24 - User Control Options Window

- (1) Function

(2) Window Title

(3) Radio Alert Tones

(4) Audible Range Alert

(5) Power Up Tone

(6) Tone on Working Channel

(7) Base Mobile Operation

(8) Receive Call Alert Tones

(9) Display ICON Location

(10) Display Delimiter

(11) Prompt Line
- indicates mobile options function

- user control options window

- specifies alert tone for radio

- enables out of range audible alert

- enables power up tone

- allows working channel go-ahead tone

- enables base mobile operation

- enables alert tone for receive calls

- sets display ICON location

- marks between ICON & rest of display

- current field instruction line

The User Control Options Window, shown in Figure 4-24, is accessed by selecting **F4 User** while in the Mobile Radio Options Window. This window is used to select user control options associated with the radio.

| | | | | | |
|---------------|---------------------------|------------|-----|------|-----------|
| Failsoft Disp | Radio Alert Tones: | XXXXXXXXXX | (3) | lay: | |
| Supervisory: | | | | ID: | XXX |
| | Audio: | | | | XXX |
| Timeouts: | Audible Range Alert: | XXXXXXX | (4) | ing: | XXX |
| CCT: | Power Up Tone: | XXXXXXX | (5) | | |
| Display: | Tone On Working Channel: | XXXXXXX | (6) | : | XXXXXXXXX |
| Indiv Call: | Base Mobile Operation: | XXXXXXX | (7) | ume: | XXX |
| Special Call | Receive Call Alert Tones: | XXXXXXX | | | |

Radio Alert Tones (3) The **Radio Alert Tones** field determines what type of alert tones the radio will use.

Using the **TAB** key as a toggle switch, select between "Single" and "Continuous". Selecting "Single" causes the radio to generate single sets of alert tone sequences. The radio call denied beep will be a single low frequency beep. When "Continuous" is selected, the radio will repeat certain alert tones when the push-to-talk is held. The call denied beep will consist of four short low frequency beeps in a row.

Audible Range Alert (4) The **Audible Range Alert** field specifies whether or not the radio will sound an alarm whenever the radio is out of audible range.

Using the **TAB** key as a toggle switch, select between "Enable" and "Disable". Selecting "Enable" causes the radio to sound an alarm whenever the radio is out of audible range. "Disable" prevents the alarm from sounding.

Power Up Tone (5) The **Power Up Tone** field is used to indicate whether or not a tone will sound after the radio power up self test has been performed.

Using the **TAB** key as a toggle switch, select between "Enable" and "Disable". Selecting "Enable" causes a tone to sound whenever the radio power-up self test has been completed. "Disable" prevents the tone from being produced.

Tone on
Working
Channel

- (6) The **Tone on Working Channel** field is used to indicate whether or not the radio will produce an audible tone whenever the radio working channel go-ahead is enabled.

Using the **TAB** key as a toggle switch, select between "Enable" and "Disable". Selecting "Enable" causes the radio to produce an audible tone whenever the radio working channel go-ahead is enabled. "Disable" prevents the tone from being produced.

Base
Mobile
Operation

- (7) The **Base Mobile Operation** field is used to indicate whether or not base/mobile operation will be enabled.

Using the **TAB** key as a toggle switch, select between "Enable" and "Disable". Selecting "Enable" indicates the radio will be used in Base/Mobile operation with Group 1 encode group and Group 2 decode group. "Disable" indicates normal operation for groups.

CCT:
Display:
Indiv Call:
Special Call
Data Lockout
Scan Lockout

| | | | |
|---------------------------|--------|------|----------|
| Power Up Tone: | XXXXXX | : | XXXXXXX |
| Tone On Working Channel: | XXXXXX | | |
| Base Mobile Operation: | XXXXXX | (7) | ume: XXX |
| Receive Call Alert Tones: | XXXXXX | (8) | utton: |
| | | | |
| Display ICON Location: | XXXXX | (9) | XXXXX |
| Display Delimiter: | X | (10) | XXXXX |

Base
Mobile
Operation
Cont'd

(7)

NOTE

If this field is set at "Enable" the following steps need to be taken:

- Set Auto Login field, in the Mobile Options Window, to "Off". The radio should not be able to generate a log in message.
- Set the Group 1 Type field, in the Group Set Summary Window, to "Encode". MTD will encode Group 1 and only Group 1 will be selectable.
- Set the Group 2 Type field, in the Group Set Summary Window, to "Normal". (A group other than Group 2 can be selected here.)
- Designate Group 2 as the Home Group, in the Group Options Window. (If a group other than Group 2 has "Normal" selected in the Type field, this group can be used as the Home Group instead of Group 2.)

Receive
Call Alert
Tones

(8)

The **Receive Call Alert Tones** field is used to indicate whether or not a tone will sound when an incoming group call is received.

Using the **TAB** key as a toggle switch, select between "Enable" and "Disable". Selecting "Enable" causes an alarm to sound when an incoming group call is received. "Disable" prevents the tone from being produced.

- Display
ICON
Location** (9) The **Display ICON Location** field is used to specify where the ICON is to be located on the radio display.

Using the **TAB** key as a toggle switch, select between "Left" and "Right". Selecting "Left" causes the ICON in the alpha display to appear in the left portion of the radio display. Selecting "Right" causes the ICON in the alpha display to appear in the right portion of the radio display.

- Display
Delimiter** (10) The **Display Delimiter** field is used to specify the character to be used between ICONs and the balance of the display.

Enter the desired delimiter character to appear on the radio display. This field will accept one keyboard character.

From the User Control Options Window, function key options are:

F9 - Help Select this option if you want to:
Receive further information pertaining to a field area.

F10 - Back Select this option if you want to:
Return to the Mobile Radio Options Window.

Mobile Radio Scan Options

Ericsson GE Mobile Communications Inc.

(1) Mobile Options

MTD EDACS RADIO PROGRAMMING

A-1

Failsoft Disp
Supervisory:

Timeouts:
CCT:
Display:
Indiv Call:
Special Call:
Data Lockout:
Scan Lockout:

(2) Scan Options

Scan TX Select: XXXXXXXX (3)
Scan after TX: XXXXX (4)
Hang Delay: XXXX (5)

Home Group Scan: XXXXXXXX (6)

(7)
Press TAB to toggle, F9 for help

lay:
ID: XXX
XXX
ing: XXX

: XXXXXXXX
ume: XXX

utton:
XXXXXX
XXXXXX

F1

F2

F3

F4

F5

F6

F7

F8

F9
Help

F10
Back

Figure 4-25 - Scan Options Window

- (1) Function

(2) Window Title

(3) Scan TX Select

(4) Scan after TX

(5) Hang Delay

(6) Home Group Scan

(7) Prompt Line
- indicates mobile options function

- scan options window

- shows PTT to key on select grp/chan

- shows if scan after tx is enabled

- indicates Rx time radio is on scan

- enables home group scan option

- current field instruction line

The Scan Options Window, shown in Figure 4-25, is accessed by selecting **F5 Scan** while in the Mobile Radio Options Window. This window is used to set the various scan options associated with conventional scan.

Scan TX Select

(3) The **Scan TX Select** field is used to indicate whether or not push-to-talk always keys on a selected group/channel.

Use the **TAB** key to toggle between "Selected" and "Autoselect". "Selected" indicates push-to-talk will always key on the selected group/channel. "Autoselect" indicates push-to-talk will automatically select a scanned call with the display showing the channel name.

- Scan after TX** (4) The **Scan after Transmit** field indicates whether or not the radio will resume scan operations after transmission.

Selection of this field is through toggling the **TAB** key between "Active" and "Off". "Active" causes the radio to resume scanning after transmission. "Off" turns off scan after the transmit function.

- Hang Delay** (5) The **Hang Delay** field is used to specify the amount of time the radio will remain on the scan channel after receiving a scanned call and before resuming the scan operation.

Enter the desired hang time, between 0 and 15.5 in .5 second intervals. This value causes the radio to hang on the scanned call for the specified amount of time before resuming scan.

- Home Group Scan** (6) The **Home Group Scan** field is used to indicate whether or not the home group is automatically scanned.

Using the **TAB** key as a toggle switch, select between "Auto" and "Decoded". "Auto" indicates that the home group will be decoded regardless of the scan on state. "Decoded" indicates that the home group is not automatically scanned.

From the Scan Options Window, function key options are:

F9 - Help Select this option if you want to:
Receive further information pertaining to a field area.

F10 - Back Select this option if you want to:
Return to the Mobile Radio Options Window.

Mobile Radio Desk Top Options

Ericsson GE Mobile Communications Inc.

(1) Mobile Options

MTD EDACS RADIO PROGRAMMING

A-1

Failsoft Display Supervisory:

Timeouts:

CCT:

Display:

Indiv Call:

Special Call:

Data Lockout:

Scan Lockout:

Press TAB to togg

Desk Top Options

(3)

(4)

(5)

----- Remote -----

System Group

1 XXXXXXXX XXXXXXXX

2

3

4

5

(6) Fixed Volume: XXX

(7) Enter desired remote system

splay:

al ID: XXX

: XXX

pping: XXX

em: XXXXXXXX

olume: XXX

Button:

XXXXXXX

XXXXXXX

F1

F2

F3

F4

F5

F6

F7

F8

F9 Help

F10 Back

Figure 4-26 - Desk Top Options Window

- (1) Function

- indicates mobile options function
- (2) Window Title

- desk top options window
- (3) Channel

- positional channel indicator
- (4) Remote System

- specifies remote system for RCN 1000
- (5) Remote Group

- specifies remote group for RCN 1000
- (6) Fixed Volume

- enables a fixed volume setting
- (7) Prompt Line

- current field instruction line

The Desk Top Options Window, shown in Figure 4-26, is accessed by selecting **F6 Desk** while in the Mobile Radio Options Window. This window allows you to specify remote system and group information for the radio.

Remote System

(4)

The **Remote System** field is used to define the remote system to use for this function on the RCN 1000.

Enter the desired remote system. The name entered here must be the name of one of the first 31 currently defined systems in the Radio Personality Screen. This field will not accept system names with system numbers greater than 31.

- Remote Group** (5) The **Remote Group** field is used to define the remote group/channel ID to use for this special function on the RCN 1000.

Enter the desired remote group. The name entered here must be the name of a currently defined group/channel within the associated system.

- Fixed Volume** (6) The **Fixed Volume** field is used to enable or disable the volume up/down keys.

Using the **TAB** key as a toggle switch, select between "Yes" and "No". Selecting "Yes" disables the volume up/down keys and causes the remote system and remote group to operate at a fixed volume. Selecting "No" enables the volume up/down keys.

NOTE

This option should be set to "Yes" for Desktop Station operation.

From the Desk Top Options Window, function key options are:

F9 - Help Select this option if you want to:
Receive further information pertaining to a field area.

F10 - Back Select this option if you want to:
Return to the Mobile Radio Options Window.

Mobile Radio Agency Partition Data

Selecting **F8 More** and then **F1 Agency** while in the Mobile Radio Options Window will enable you to define agency partition data associated with the current personality. The data entered in this window will supersede data entered in the setup portion of the program for the current personality only. For information regarding window structure, refer to the Agency Partition Data section in the Setup portion of this manual.

CAUTION

Because the use of an agency structure creates certain limitations within your system, we recommend that you thoroughly understand the agency hierarchy and how to optimize its use before establishing any agencies on your system.

NOTE

The information entered in this window is the default for the current personality only. Changing this information will not change other existing personalities. Changing the agency/fleet/subfleet partitioning in the current personality will not change the agency default information entered in the setup portion of the program.

Mobile Radio Status

Ericsson GE Mobile Communications Inc. _____

| | | |
|--------------------|-----------------------------|-----|
| (1) Mobile Options | MTD EDACS RADIO PROGRAMMING | A-1 |
|--------------------|-----------------------------|-----|

(2) Status Keypad Definitions

| (3) Key | (4) Name | (5) ID | Key | Name | ID |
|------------|-------------|-----------|-----|------|----|
| 1 | XXXXXXXX | XXX | 9 | | |
| 2 | | | 10 | | |
| 3 | | | 11 | | |
| 4 | | | 12 | | |
| 5 | | | 13 | | |
| 6 | | | 14 | | |
| 7 | | | 15 | | |
| 8 | | | 16 | | |

(6)
Enter the status name

F1

F2

F3

F4

F5

F6

F7

F8

F9
Help

F10
Back

Figure 4-27 - Status Keypad Definitions Window

- | | |
|------------------|-------------------------------------|
| (1) Function | - indicates mobile options function |
| (2) Window Title | - status keypad definition window |
| (3) Key | - positional key indicator |
| (4) Name | - indicates alphanumeric name |
| (5) ID | - defines status keypad ID number |
| (6) Prompt Line | - current field instruction line |

The Status Keypad Definitions Window, shown in Figure 4-27, is accessed by selecting **F8 More** and **F3 Stat** from the Mobile Radio Options Window. This window lets you define the numeric keypad status ID for mobile units.

| Status Keypad Definitions | | | | | |
|---------------------------|----------|-----|-----|------|----|
| (3) | (4) | (5) | | | |
| Key | Name | ID | Key | Name | ID |
| 1 | XXXXXXXX | XXX | 9 | | |
| 2 | | | 10 | | |

Key (3) The **Key** field is used to identify the numeric keypad key.

This field is for "Display Only" and cannot be accessed.

Name (4) The **Status Name** field is used as an alphanumeric indicator that will be displayed whenever the numeric key is pressed.

To define the name field, type in the characters desired. You can use up to eight valid characters in any alphanumeric combination. This field is an upper case field and all characters will be converted to upper case even if entered in lower case.

ID (5) The **Status Identification** field is used to indicate the status ID of the numeric keypad key. This number will be transmitted to the trunked system when requested by the site.

Enter a number in the range of 0 - 128 to indicate the desired status ID number.

From the Status Keypad Definitions Window, function key options are:

F9 - Help Select this option if you want to:
Receive further information pertaining to a field area.

F10 - Back Select this option if you want to:
Return to the Mobile Radio Options Window.

Mobile Radio Message

| | | | | | |
|----------------------------------------|--|-----------------------------|--|--|-----|
| Ericsson GE Mobile Communications Inc. | | | | | |
| (1) Mobile Options | | MTD EDACS RADIO PROGRAMMING | | | A-1 |

| (2) Message Keypad Definitions | | | | | |
|--------------------------------|-------------|-----------|-----|------|----|
| (3) Key | (4) Name | (5) ID | Key | Name | ID |
| 1 | XXXXXXXX | XXX | 9 | | |
| 2 | | | 10 | | |
| 3 | | | 11 | | |
| 4 | | | 12 | | |
| 5 | | | 13 | | |
| 6 | | | 14 | | |
| 7 | | | 15 | | |
| 8 | | | 16 | | |

| | | | | | |
|-------------------------------|--|--|--|--|--|
| (6) Enter the message name | | | | | |
|-------------------------------|--|--|--|--|--|

| | | | | | | | | | |
|----|----|----|----|----|----|----|----|------------|-------------|
| F1 | F2 | F3 | F4 | F5 | F6 | F7 | F8 | F9 Help | F10 Back |
|----|----|----|----|----|----|----|----|------------|-------------|

Figure 4-28 - Message Keypad Definitions Window

- | | |
|------------------|-------------------------------------|
| (1) Function | - indicates mobile options function |
| (2) Window Title | - message keypad definition window |
| (3) Key | - positional key indicator |
| (4) Name | - indicates alphanumeric name |
| (5) ID | - defines message keypad ID number |
| (6) Prompt Line | - current field instruction line |

The Message Keypad Definitions Window, shown in Figure 4-28, is accessed by selecting **F8 More** and **F4 MSG** from the Mobile Radio Options Window. This window lets you define the message keypad definitions for mobile units.

| Message Keypad Definitions | | | | | |
|----------------------------|----------|-----|-----|------|----|
| (3) | (4) | (5) | | | |
| Key | Name | ID | Key | Name | ID |
| 1 | XXXXXXXX | XXX | 9 | | |
| 2 | | | 10 | | |

Key (3) The **Key** field identifies the numeric keypad key.

This field is for "Display Only" and cannot be accessed.

Name (4) The **Message Name** field indicates an alpha-numeric name that will be displayed whenever an asterisk and the numeric key is pressed.

To define the field, type in the characters desired. You can use up to eight valid characters in any alphanumeric combination. This field is an upper case field and all characters will be converted to upper case even if entered in lower case.

ID (5) The **Message Identification** field indicates the message ID of the numeric keypad key. This number will be transmitted to the trunked system when requested by the site.

Enter a number in the range of 0 - 128 to indicate the desired status ID number.

From the Message Keypad Definitions Window, function key options are:

F9 - Help Select this option if you want to:
Receive further information pertaining to a field area.

F10 - Back Select this option if you want to:
Return to the Mobile Radio Options Window.

Defining Sets within the Personality

Ericsson GE Mobile Communications Inc.

Personalities MTD EDACS RADIO PROGRAMMING A-1

Radio Personality
XXX - XXX Mhz

| Sys Name | Freq Set | Type | Site | Unit | Grp Set | Spc Set | Emg Aud | Emg Dsp | FS Chan |
|------------|----------|------|------|-------|----------|----------|---------|---------|---------|
| 1 XXXXXXXX | XXXXXXXX | X | XX | XXXXX | XXXXXXXX | XXXXXXXX | XXX | XXX | XX |
| 2 | | | | | | | | | |
| 3 | | | | | | | | | |
| 4 | | | | | | | | | |
| 5 | | | | | | | | | |
| 6 | | | | | | | | | |
| 7 | | | | | | | | | |
| 8 | | | | | | | | | |

Enter System Display Name
Free Space: XXXX

F1
Detail

F2
Freq

F3
Group

F4
Text

F5

F6
SpCall

F7
SysScn

F8
More

F9
Help

F10
Back

Figure 4-29 - Radio Personality "More" Screen

The Radio Personality "More" Screen, shown in Figure 4-29, is accessed by selecting **F8 More** while in the Radio Personality Screen. As you can see, the fields in this window have not changed, however the function key functions have. You now have access to other windows associated with the radio personality.

TQ-3346

From the Radio Personality "More" Screen, function key options are:

- | | |
|--------------------|----------------------------------------------------------------------------------------------------------|
| F1 - Detail | Select this option if you want to: View or modify frequency set definitions or group set definitions. |
| F2 - Freq | Select this option if you want to: Create, delete, or modify frequency sets. |
| F3 - Group | Select this option if you want to: Create, delete, or modify group sets. |
| F4 - Text | Select this option if you want to: Enter text associated with the personality. |
| F6 - SpCall | Select this option if you want to: Create, delete, or modify special call sets. |
| F7 - SysScn | Select this option if you want to: Define the wide area system scan table. |
| F8 - More | Select this option if you want to: View previous radio personality functions. |
| F9 - Help | Select this option if you want to: Receive further information pertaining to a field area. |
| F10 - Back | Select this option if you want to: Return to the Current Personalities Screen. |

Frequency Sets

Selecting **F2 Freq** while in the Radio Personality "More" Screen will enable you to create, modify, or delete frequency sets existing in the current directory. The data entered in this window will supersede data entered in the setup portion of the program and will be reflected in other existing personalities also. If you wish to only modify an existing frequency set, refer to the Detail portion of this program. For information regarding window structure, refer to the Creating Frequency Sets section in the Setup portion of this manual.

NOTE

New data or modification of existing data in the Currently Defined Frequency Sets Window will also be reflected in other existing personalities.

Group Sets

Selecting **F3 Group** while in the Radio Personality "More" Screen will enable you to create, modify, or delete group sets existing in the current directory. The data entered in this window will supersede data entered in the setup portion of the program and will be reflected in other existing personalities also. If you wish to only modify an existing group set, refer to the Detail portion of this program. For information regarding window structure, refer to the Creating Group Sets section in the Setup portion of this manual.

NOTE

New data or modification of existing data in the Currently Defined Group Sets Window will also be reflected in other existing personalities.

Special Call Sets

Selecting **F6 SpCall** while in the Radio Personality "More" Screen will enable you to create, modify, or delete special call sets existing in the current directory. The data entered in this window will supersede data entered in the setup portion of the program and will be reflected in other existing personalities also. If you wish to only modify an existing special call set, refer to the Detail portion of this program. For information regarding window structure, refer to the Creating Group Sets section in the Setup portion of this manual.

NOTE

New data or modification of existing data in the Currently Defined Special Call Sets Window will also be reflected in other existing personalities.

Personality Text

Ericsson GE Mobile Communications Inc.

(1) Personalities

MTD EDACS RADIO PROGRAMMING

A-1

Sys Name

Freq

1 XXXXXXXX XXXX

2

3

4

5

6

7

8

Enter System Disp

(2) Text Window

Date Created: XXXXXXXX (3)

Date Last Edit: XXXXXXXX (4)

Last Date Programmed: XXXXXXXX (5)

Software Revision: (6)

User Defined Text: (7)

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

(8) Enter notes or comments

Emg Emg FS

Aud Dsp Chan

XXX XXX XX

Free Space: XXXX

F1

F2

F3

F4

F5

F6

F7

F8

F9 Help

F10 Back

Figure 4-30 - Text Window

- | | |
|--------------------------|------------------------------------|
| (1) Function | - indicates personalities function |
| (2) Window Title | - text window |
| (3) Date Created | - date of personality creation |
| (4) Date Last Edit | - date personality last changed |
| (5) Last Date Programmed | - last date of personality write |
| (6) Software Revision | - current radio software version |
| (7) User Defined Text | - area for user notes or comments |
| (8) Prompt Line | - current field instruction line |

The Text Window, shown in Figure 4-30, is accessed by selecting **F4 Text** from the Radio Personality "More" Screen. From this window you can view the date created, date of last edit, last date programmed, and the software version of the radio with this personality. There is also space to store a few lines of user text for future reference.

- | | |
|--------------|--------------------------------------------------------------------------------------|
| Date Created | (3) The Date Created field indicates when this personality was first created. |
|--------------|--------------------------------------------------------------------------------------|

This is a "Display Only" field and cannot be accessed. It is automatically entered when the personality is created and saved from the Radio Personality Screen.

- Date Last Edit** (4) The **Date Last Edited** field indicates when this personality was last changed or modified.

This is a "Display Only" field and cannot be accessed. It is automatically updated whenever a change is made to the personality and it is saved from the Radio Personality Screen.

- Last Date Programmed** (5) The **Last Date Programmed** field is used to indicate the last date when the personality was written to the radio. When the personality is programmed from the Current Personalities Screen, the programmer will capture the system date and store that date in this field.

This is a "Display Only" field and cannot be accessed. It is automatically updated when the personality is programmed from the Current Personalities Screen and the write is successful.

NOTE

The last date programmed will only be entered if the operator saves the personality when exiting the Radio Personality Screen.

- Software Revision** (6) The **Software Revision** field indicates the current radio software version. Like the Programming Date field, this field is only established during the programming process.

This is a "Display Only" field and cannot be accessed. It is automatically updated when the personality is programmed from the Current Personalities Screen and the write is successful.

TQ-3346

| | | | | | | | |
|-----------------|--|--------------------------------------|--|---------|--------------|--|--|
| Sys Name | | Date Created: | | XXXXXXX | Emg Emg FS | | |
| 1 XXXXXXXX XXXX | | Date Last Edit | | XXXXXXX | Aud Dep Chan | | |
| 2 | | Last Date Programmed: | | XXXXXXX | XXX XXX XX | | |
| 3 | | Software Revision: | | | | | |
| 4 | | User Defined Text: | | (7) | | | |
| 5 | | XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | | | | | |

User (7) The **User Defined Text** field is used to
Defined Text enter a few lines of user defined text that
will be stored with the personality on disk.

Enter the desired text. You can enter up
to six lines of text using any alphanumeric
character combination.

From the Text Window, function key options are:

- F9 - Help

Select this option if you want to:
Receive further information pertaining to a field
area.
- F10 - Back

Select this option if you want to:
Return to the Radio Personality "More" Screen.

Wide Area Scan

Ericsson GE Mobile Communications Inc.

(1) Personalities MTD EDACS RADIO PROGRAMMING A-1

(2) Wide Area Scan

(3) CC Loop Count: XXX (4) Priority Wide Scan Timer: XXX

| (5) | (6) | (7) | (7) | (7) | (7) | (7) | (7) |
|-----|---------|---------|---------|---------|---------|---------|---------|
| Sys | Name | XXXXXXX | XXXXXXX | XXXXXXX | XXXXXXX | XXXXXXX | XXXXXXX |
| 1 | XXXXXXX | XXXXXX | XXXXXX | XXXXXX | XXXXXX | XXXXXX | XXXXXX |
| 2 | | | | | | | |
| 3 | | | | | | | |
| 4 | | | | | | | |
| 5 | | | | | | | |
| 6 | | | | | | | |
| 7 | | | | | | | |
| 8 | | | | | | | |

(8) Press TAB to toggle, F9 for help

F1 F2 F3 F4 F5 F6 F7 F8 F9 Help F10 Back

Figure 4-31 - Wide Area Scan Window

- | | |
|------------------------------|----------------------------------------|
| (1) Function | - indicates personalities function |
| (2) Window Title | - wide area scan window |
| (3) CC Loop Count | - freq set control channel search time |
| (4) Priority Wide Scan Timer | - sets priority system search time |
| (5) Sys | - positional system indicator |
| (6) Name | - indicates trunked system name |
| (7) Widearea Scan | - sets system's wide area scan |
| (8) Prompt Line | - current field instruction line |

The Wide Area Scan Window, shown in Figure 4-31, is accessed by selecting **F7 SysScn** from the Radio Personality "More" Screen. From this window you can define trunked wide area scan systems associated with the personality.

The window displays a table representing a matrix whose rows and columns depict the systems in the personality. The rows and column lengths are both equal to the number of systems. Pressing the up, down, left or right arrows allows you to view an extension of the table. The **Pg Up** and **Pg Dn** keys are also active in this window.

NOTE

A maximum of six systems (including priority system) for any one of the system's scan list are allowed

| Wide Area Scan | | | | | | |
|--------------------|----------|----------|-------------------------------|----------|----------|----------|
| (3) | | | (4) | | | |
| CC Loop Count: XXX | | | Priority Wide Scan Timer: XXX | | | |
| (5) | (6) | (7) | (7) | (7) | (7) | (7) |
| Sys Name | (6) | XXXXXXXX | XXXXXXXX | XXXXXXXX | XXXXXXXX | XXXXXXXX |
| 1 | XXXXXXXX | XXXXXX | XXXXXX | XXXXXX | XXXXXX | XXXXXX |
| 2 | | | | | | |

CC Loop (3) The **CC Loop Count** field allows you to specify how many times the MTD will search the frequency set for a control channel before beginning a check to find a conventional failsoft channel.

Using the **TAB** key as a toggle switch, select "2", "6", "10", or "15". The MTD will check for a conventional failsoft channel after searching its frequency set the indicated number of times.

Priority Wide Scan Timer (4) The **Priority Wide Scan Timer** field determines how often the MTD will check for a priority system.

Using the **TAB** key as a toggle switch, select "1.1", "2.2", "3.3", or "4.3" minutes. The MTD will check for a priority system after the number of minutes indicated.

System (5) The **System** field is used as a positional system indicator.

This field is "Display Only" and is not accessible. There are a total of 48 system indicators.

Name (6) The **Name** fields are displayed in a matrix fashion to indicate currently defined system names.

These fields are "Display Only" and are not accessible in this window. Systems created in the current Radio Personality Screen are displayed in these fields.

Widearea Scan (7) The **Wide Area Scan** fields are used to define the wide area scan settings for the system.

Using the **TAB** key as a toggle switch, select between "- On- " , "- Off- ", and "- Pri- ". When the field displays "-----" or "- N/A-" the **TAB** key will not toggle the field.

- "- On- " shows the system is selected for wide area scan.
- "-- Off- " shows the system will be bypassed during wide area scan.
- "- Pri- " shows this system will be selected as the priority system to be scanned.
- "-----" shows the current system. No entry is allowed in this field because you cannot select the current system for it's own scan list.

"- N/A-" shows a conventional system. No entry is allowed in this field because only trunked systems are allowed in the system's scan list.

From the Wide Area Scan Window, function key options are:

F9 - Help Select this option if you want to:
Receive further information pertaining to a field area.

F10 - Back Select this option if you want to:
Return to the Radio Personality Screen.

Programming the Radio within the Change

Ericsson GE Mobile Communications Inc.

(1) Personalities

MTD EDACS RADIO PROGRAMMING

A-1

Sys Name F
1 XXXXXXXX X
2
3
4
5
6
7
8

Enter System D

(2) Program Current Personality

(3) Unit Type: XXXX

(4) Are You sure: Yes - Press F1
No - Press F2

(5)
Please be sure the radio is connected
to XXXX and that the radio is turned
on before pressing F1 'Yes'.

Emg Emg FS
Aud Dsp Chan
XXX XXX XX

Space: XXXX

F1
Yes

F2
No

F3

F4

F5

F6

F7
LID

F8

F9
Help

F10
Back

Figure 4-32 - Program Current Personality Window

(1) Function

(2) Window Title

(3) Unit Type

(4) Continue Prompt

(5) Note Line

- indicates personalities function

- program current personality window

- target radio for programming option

- continue or abort option

- denotes steps necessary to continue

The Program Current Personality Window, shown in Figure 4-32, is accessed by selecting **F5 Program** while in the Radio Personality Screen. This window is used to solicit the unit type being programmed.

Unit Type (3) The **Unit Type** field is used to specify the target radio for the programming option.

This is a "Display Only" field indicating the programmer will program the personality to an MTD unit.

4-108

From the Program Current Personality Window, function key options are:

- | | |
|-------------------|--------------------------------------------------------------------------------------------------|
| F1 - Yes | Select this option if you want to: Program the unit specified. |
| F2 - No | Select this option if you want to: Discontinue with this procedure. |
| F7 - LID | Select this option if you want to: Define the logical ID. |
| F9 - Help | Select this option if you want to: Receive further information pertaining to a field area. |
| F10 - Back | Select this option if you want to: Return to the Radio Personality Screen. |

Defining Program Logical ID

Ericsson GE Mobile Communications Inc.

(1) Personalities

MTD EDACS RADIO PROGRAMMING

A-1

Sys Name

F

1 XXXXXXXX X

2

3

4

5

6

7

8

Enter System D

(2) Program Radio / Logical ID

(3) Logical ID: XXXXX

(4) F1: Program (Use new LID)

F5: Save to File

(5) Enter the Unit Id.

Emg Emg FS

Aud Dsp Chan

XXX XXX XX

Space: XXXX

F1
Prog

F2

F3

F4

F5
Save

F6

F7

F8

F9
Help

F10
Back

Figure 4-33 - Program Radio/Logical ID Window

- (1) Function

- indicates personalities function
- (2) Window Title

- program radio/logical ID window
- (3) Logical ID

- logical ID number
- (4) Continue Prompt

- continue or abort option
- (5) Prompt Line

- current field instruction line

The Program Radio/Logical ID Window, shown in Figure 4-33, is accessed by selecting **F7 LID** while in the Program Current Personality Window from the Current Personalities Screen. This window allows you to identify the Logical ID number to be programmed and/or saved to disk.

Logical ID (3) The **Logical ID** field specifies a new logical unit ID number to use when writing the personality to a radio or another personality.

Enter the logical identification number you want to use for the program operation. To be valid, the ID must be in the range of 1 - 16382.

From the Program Radio/Logical ID Window, function key options are:

- F1 - Program** Select this option if you want to:
Program the personality selected.
- F5 - Save** Select this option if you want to:
Save the personality selected to disk.
- F9 - Help** Select this option if you want to:
Receive further information pertaining to a field area.
- F10 - Back** Select this option if you want to:
Return to the Program Current Personality Window.

SAVING A PERSONALITY

| | | |
|----------------------------------------|-----------------------------|-----|
| Ericsson GE Mobile Communications Inc. | | |
| (1) Personalities | MTD EDACS RADIO PROGRAMMING | A-1 |

| Radio Personality XXX - XXX Mhz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|------|---|----------|------|---|--|--|---|--|--|---|--|--|---|--|--|---|--|--|---|--|--|---|--|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----|----|-----|-----|------|-----|-----|----|
| <table style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: left;">Sys</th> <th style="text-align: left;">Name</th> <th style="text-align: left;">Freq</th> </tr> <tr> <td>1</td> <td>XXXXXXXX</td> <td>XXXX</td> </tr> <tr><td>2</td><td></td><td></td></tr> <tr><td>3</td><td></td><td></td></tr> <tr><td>4</td><td></td><td></td></tr> <tr><td>5</td><td></td><td></td></tr> <tr><td>6</td><td></td><td></td></tr> <tr><td>7</td><td></td><td></td></tr> <tr><td>8</td><td></td><td></td></tr> </table> | Sys | Name | Freq | 1 | XXXXXXXX | XXXX | 2 | | | 3 | | | 4 | | | 5 | | | 6 | | | 7 | | | 8 | | | <p style="text-align: center;">(2) Save file</p> <p style="text-align: center;">File to be saved: XXXXXXXX (3)</p> <p style="text-align: center;">Are you sure? Yes - Press F1 No - Press F2</p> | <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: right;">Emg</td> <td style="text-align: right;">Emg</td> <td style="text-align: right;">FS</td> </tr> <tr> <td style="text-align: right;">Aud</td> <td style="text-align: right;">Dsp</td> <td style="text-align: right;">Chan</td> </tr> <tr> <td style="text-align: right;">XXX</td> <td style="text-align: right;">XXX</td> <td style="text-align: right;">XX</td> </tr> </table> | Emg | Emg | FS | Aud | Dsp | Chan | XXX | XXX | XX |
| Sys | Name | Freq | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | XXXXXXXX | XXXX | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Emg | Emg | FS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Aud | Dsp | Chan | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| XXX | XXX | XX | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Free Space: XXXX | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | | | | |
|-----------|----------|----|----|----|----|----|----|------------|-------------|
| F1 Yes | F2 No | F3 | F4 | F5 | F6 | F7 | F8 | F9 Help | F10 Back |
|-----------|----------|----|----|----|----|----|----|------------|-------------|

Figure 4-34 - Save File Window

- | | |
|----------------------|----------------------------------------|
| (1) Function | - indicates personalities function |
| (2) Window Title | - save file window |
| (3) File to be saved | - current personality name to be saved |
| (4) Continue Prompt | - continue or abort option |

The Save File Window, shown in Figure 4-34, is accessed whenever you try to exit the Radio Personality Screen. This window is used to enter data for saving the personality.

| Radio Personality | | XXX - XXX Mhz | |
|-------------------|------|--------------------------------|--|
| Sys Name | Freq | Save file | |
| 1 XXXXXXXX | XXXX | | |
| 2 | | File to be saved: XXXXXXXX (3) | |
| 3 | | | |

Emg Emg FS
Aud Dsp Chan
XXX XXX XX

File to be saved (3) The **File to be Saved** field is used to specify the name under which the current personality is to be saved.

Enter the destination file name. This field will accept up to eight characters in any alphanumeric combination. Alphabetic characters will automatically be converted to upper case. This field will not accept file names that are not acceptable to DOS.

From the Save File Window, function key options are:

- F1 - Yes** Select this option if you want to:
Save the personality selected.
- F2 - No** Select this option if you want to:
Discontinue with this procedure.
- F9 - Help** Select this option if you want to:
Receive further information pertaining to a field area.
- F10 - Back** Select this option if you want to:
Return to the Radio Personality Screen.

MODIFYING A PERSONALITY

| | | |
|----------------------------------------|-----------------------------|-----|
| Ericsson GE Mobile Communications Inc. | | |
| (1) Personalities | MTD EDACS RADIO PROGRAMMING | A-1 |

Current Personalities - XXX
X:\XXXXXXXX

(2) Change/edit file

File to be edited: XXXXXXXX (3)

Are you sure? Yes - Press F1 (4)
No - Press F2

Use the cursor keys to select the personality

| | | | | | | | | | |
|-----------|----------|----|----|----|----|----|----|------------|-------------|
| F1 Yes | F2 No | F3 | F4 | F5 | F6 | F7 | F8 | F9 Help | F10 Back |
|-----------|----------|----|----|----|----|----|----|------------|-------------|

Figure 4-35 - Change/Edit File Window

- | | |
|-----------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>(1) Function</p> <p>(2) Window Title</p> <p>(3) File to be edited</p> <p>(4) Continue Prompt</p> | <p>- indicates personalities function</p> <p>- change/edit a file window</p> <p>- personality to be edited</p> <p>- continue or abort option</p> |
|-----------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|

The Change/edit File Window, shown in Figure 4-35, is accessed by selecting **F2 Change** while in the Current Personalities Screen. This window is used to gain access to the Radio Personality Screen which allows you to modify existing personalities.

- File to be edited (3) The **File to be Edited** field is used to specify the personality selected for change/edit. The file name will default to the last highlighted personality.

Enter the desired file name. To be valid, this field must be a currently defined frequency or group set. This field will accept up to eight characters in any alphanumeric combination. Alphabetic characters will automatically be converted to upper case. This field will not accept file names that are not acceptable to DOS.

From the Change/Edit File Window, function key options are:

- F1 - Yes** Select this option if you want to:
Change the personality selected.
- F2 - No** Select this option if you want to:
Discontinue with this procedure.
- F9 - Help** Select this option if you want to:
Receive further information pertaining to a field
area.
- F10 - Back** Select this option if you want to:
Return to the Current Personalities Screen.

PROGRAMMING THE PERSONALITY INTO THE UNIT

Ericsson GE Mobile Communications Inc.

(1) Personalities

MTD EDACS RADIO PROGRAMMING

A-1

(2) Program Radio

Selected Filename: XXXXXXXX (3)

Unit Type: XXXXXXXX (4)

Are You sure? Yes - Press F1 (5)
No - Press F2

(6)
Please be sure the radio is connected
to XXXX and that the radio is turned
on before pressing F1 'Yes'.

(7)
Enter the personality to program

Use the cursor

F1
Yes

F2
No

F3

F4

F5

F6

F7
LID

F8

F9
Help

F10
Back

Figure 4-36 - Program Radio Window

- (1) Function - indicates personalities function
- (2) Window Title - program radio window
- (3) Selected Filename - program operation personality name
- (4) Unit Type - target radio for programming option
- (5) Continue Prompt - continue or abort option
- (6) Note Line - denotes steps necessary to continue
- (7) Prompt Line - current field instruction line

The Program Radio Window, shown in Figure 4-36, is accessed by selecting **F5 Program** while in the Current Personalities Screen. This window is used to solicit the personality name and unit type being programmed.

Selected Filename (3) The **Selected File Name** field specifies the personality name for programming the radio.

Enter the name of the personality you want to use for the program operation. To be valid, the name must correspond to a currently defined personality. This field will accept up to eight characters in any alphanumeric combination. Alphabetic characters will automatically be converted to upper case.

NOTE

After programming the radio, recycle power to reset radio options.

Unit Type (4) The **Unit Type** field is used to specify the target radio for the programming option.

This field is a "Display Only" field and indicates that the programmer will program the personality to an MTD unit.

From the Program Radio Window, function key options are:

- | | |
|-------------------|-----------------------------------------------------------------------------------------------|
| F1 - Yes | Select this option if you want to: Program the personality selected. |
| F2 - No | Select this option if you want to: Discontinue with this procedure. |
| F9 - Help | Select this option if you want to: Receive further information pertaining to a field area. |
| F10 - Back | Select this option if you want to: Return to the Current Personalities Screen. |

Defining Program Logical ID

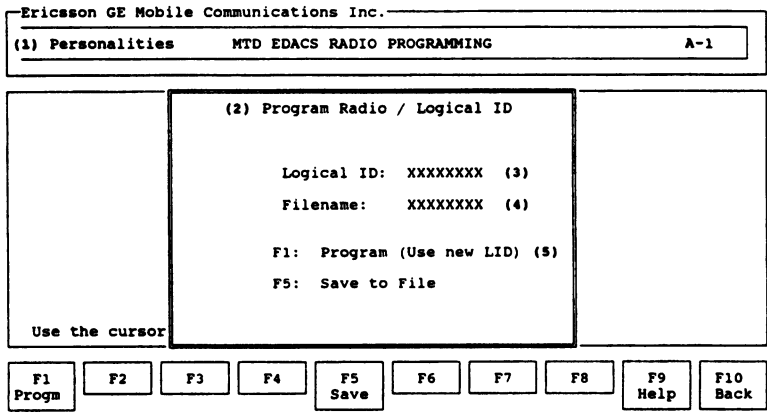


Figure 4-37 - Program Radio/Logical ID Window

- (1) Function - indicates personalities function
- (2) Window Title - program radio/logical ID window
- (3) Logical ID - logical ID number
- (4) Filename - program operation personality name
- (5) Execution Prompt - execute the window as designated

The Program Radio/Logical ID Window, shown in Figure 4-37, is accessed by selecting **F7 LID** while in the Program Radio Window from the Current Personalities Screen. This window allows you to identify the Logical ID number and personality name to be programmed and/or saved to disk.

Logical ID (3) The **Logical ID** field specifies a new logical unit ID number to use when writing the personality to a radio or another personality.

Enter the logical identification number you want to use for the program operation. To be valid, the ID must be in the range of 1 - 16382.

- Filename** (4) The **Selected File Name** field is used to specify the name of the personality to use when writing a new logical ID to a radio or another personality.

Enter the name of the personality you want to use for the program operation. To be valid, the name must correspond to a currently defined personality. This field will accept up to eight characters in any alphanumeric combination. Alphabetic characters will automatically be converted to upper case.

From the Program Radio/Logical ID Window, function key options are:

- F1 - Progrm** Select this option if you want to:
Program the personality selected.
- F5 - Save** Select this option if you want to:
Save the personality selected to disk.
- F9 - Help** Select this option if you want to:
Receive further information pertaining to a field area.
- F10 - Back** Select this option if you want to:
Return to the Program Radio Window.

READING THE PERSONALITY OUT OF THE UNIT

Ericsson GE Mobile Communications Inc.

(1) Personalities

MTD EDACS RADIO PROGRAMMING

A-1

Use the cursor

(2) Read Radio

Selected Filename: XXXXXXXX (3)

Unit Type: XXX (4)

Are you sure: Yes - Press F1 (5)
No - Press F2

(6) Please be sure the radio is connected
to COMX and that the radio is turned
on before pressing F1 'Yes'.

(7) Enter the personality to read

F1
Yes

F2
No

F3

F4

F5

F6

F7

F8

F9
Help

F10
Back

Figure 4-38 - Read Radio Window

- | | |
|-----------------------|---------------------------------------|
| (1) Function | - indicates personalities function |
| (2) Window Title | - read radio window |
| (3) Selected Filename | - read operation personality name |
| (4) Unit Type | - target radio for programming option |
| (5) Continue Prompt | - continue or abort option |
| (6) Note Line | - denotes steps necessary to continue |
| (7) Prompt Line | - current field instruction line |

The Read Radio Window, shown in Figure 4-38, is accessed by selecting **F6 Read** while in the Current Personalities Screen. This window allows you to specify the name in which the personality should be read and the type of radio to be read.

Selected Filename (3) The **Selected File Name** field is used to specify the name of the personality to use for the read operation.

Enter the name of the personality you want to use for the read operation. This field will accept up to eight characters in any alphanumeric combination. Alphabetic characters will automatically be converted to upper case. To be valid, this name must be a valid DOS file name.

Unit Type (4) The **Unit Type** field is used to specify the source radio for the read option.

This field is a "Display Only" field and indicates that the programmer will read the personality from an MTD unit.

From the Read Radio Window, function key options are:

F1 - Yes Select this option if you want to:
Read the personality selected.

F2 - No Select this option if you want to:
Discontinue with this procedure.

F9 - Help Select this option if you want to:
Receive further information pertaining to a field area.

F10 - Back Select this option if you want to:
Return to the Current Personalities Screen.

This page intentionally left blank

CHAPTER 5

USING THE UTILITIES

UTILITY WINDOW

| | | |
|----------------------------------------|-----------------------------|-----|
| Ericsson GE Mobile Communications Inc. | | |
| (1) Personalities | MTD EDACS RADIO PROGRAMMING | A-1 |

(2) Current Personalities - XXX (3)

(4) X:\XX\XXX (5)

(6)

(7)
Use the cursor keys to select the personality

| | | | | | | | | | |
|------------|---------------|-----------|----|--------------|-------------|-----------|----|------------|-------------|
| F1 Port | F2 Environ | F3 Dir | F4 | F5 Delete | F6 Print | F7 Ext | F8 | F9 Help | F10 Back |
|------------|---------------|-----------|----|--------------|-------------|-----------|----|------------|-------------|

Figure 5-1 - Utilities Window

- | | |
|-----------------------|--------------------------------------|
| (1) Function | - indicates personalities function |
| (2) Window Title | - current personalities window |
| (3) Default Extension | - designated default extension |
| (4) Current Drive | - designated drive |
| (5) Current Directory | - designated directory name |
| (6) Personality Area | - personalities in current directory |
| (7) Prompt Line | - current field instruction line |

The Utility Window, shown in Figure 5-1, is accessed by pressing **F3 Utility** while in the Current Personalities Screen. This window allows access to infrequently used functions which have little relationship to the actual programming of a radio. This window and its fields are much like the Current Personalities Screen. Note, however, the Function field changes as well as the Function Key options.

TQ-3346

From the Utility Window, function key options are:

- | | |
|---------------------|-----------------------------------------------------------------------------------------------------|
| F1 - Port | Select this option if you want to: Change the port to use for programming radios. |
| F2 - Environ | Select this option if you want to: Change environment settings. |
| F3 - Dir | Select this option if you want to: Change your current directory. |
| F5 - Delete | Select this option if you want to: Delete a personality from the disk. |
| F6 - Print | Select this option if you want to: Print out the personality to the printer, screen, or file. |
| F7 - Ext | Select this option if you want to: Change the current extension. |
| F9 - Help | Select this option if you want to: Receive further information pertaining to a field area. |
| F10 - Back | Select this option if you want to: Return to the Current Personalities Screen. |

CHANGING THE COMMUNICATIONS PORT

| | | |
|----------------------------------------|-----------------------------|------|
| Ericsson GE Mobile Communications Inc. | | |
| (1) Port | MTD EDACS RADIO PROGRAMMING | L1-D |

Current Personalities - XXX
X:\XXXXXXXX

(2) Communications Port Setup

COMM Port X (3)

Are you sure? Yes - Press F1 (4)
No - Press F2

(5)
Enter the COMM Port ID

Use the cursor keys to select the personality

| | | | | | | | | | |
|-----------|----------|----|----|----|----|----|----|------------|-------------|
| F1 Yes | F2 No | F3 | F4 | F5 | F6 | F7 | F8 | F9 Help | F10 Back |
|-----------|----------|----|----|----|----|----|----|------------|-------------|

Figure 5-2 - Communications Port Setup Window

- | | | |
|---------------------|---|----------------------------------|
| (1) Function | - | indicates port function |
| (2) Window Title | - | communications port setup window |
| (3) COMM Port | - | communications port indicator |
| (4) Continue Prompt | - | continue or abort option |
| (5) Prompt Line | - | current field instruction line |

The Communications Port Setup Window, shown in Figure 5-2, is accessed by selecting **F1 Port** while in the Utility Window. This window allows you to select the communications port you want to use in programming the radio.

COMM Port(3) The **Communications Port Identification** field is used to identify the communications port to use for programming the unit. There are only two ports available for this purpose: COM1 and COM2.

Enter the desired port by selecting a "1" to indicate COM1 or a "2" to indicate COM2. After selection has been made, press **F1 Yes** to perform the change.

TQ-3346

From the Communications Port Setup Window, function key options are:

- | | |
|-------------------|--------------------------------------------------------------------------------------------------|
| F1 - Yes | Select this option if you want to: Continue with this change. |
| F2 - No | Select this option if you want to: Cancel this procedure. |
| F9 - Help | Select this option if you want to: Receive further information pertaining to a field area. |
| F10 - Back | Select this option if you want to: Return to the Utility Window. |

NOTE

Once the **F1 Yes** key is selected, the setup file is updated to reflect the new selection and that selection will become the default until a new selection is made.

CHANGE ENVIRONMENT

| | |
|----------------------------------------|-----|
| Ericsson GE Mobile Communications Inc. | |
| (1) Personalities | A-1 |

| |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| (2) Environment Setting |
| <p>(3) Special Calls Pool: XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX</p> <p>(4) Group Set Pool: XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX</p> <p>(5) Frequency Set Pool: XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX</p> <p>(6) Free Space Calculation: XXXXXXXX</p> <p>(7) Press TAB to toggle, F9 for help</p> |

| | | | | | | | | | |
|----|----|----|----|----|----|----|----|------------|-------------|
| F1 | F2 | F3 | F4 | F5 | F6 | F7 | F8 | F9 Help | F10 Back |
|----|----|----|----|----|----|----|----|------------|-------------|

Figure 5-3 - Environment Setting Window

- | | | |
|-----------------------------|---|----------------------------------|
| (1) Function | - | indicates personalities function |
| (2) Window Title | - | environment setting window |
| (3) Special Calls Pool | - | indicates special calls path |
| (4) Group Set Pool | - | indicates group set path |
| (5) Frequency Set Pool | - | indicates frequency set path |
| (6) Free Space Calculation- | | enables free space field |
| (7) Prompt Line | - | Current field instruction line |

The Environment Setting Window, shown in Figure 5-3, is accessed by selecting **F2 Environ** while in the Utility Window. This window allows you to select the paths to use during radio programming.

- | | | |
|--------------------|-----|-------------------------------------------------------------------------------------------------|
| Special Calls Pool | (3) | The Special Calls Pool is used to indicate the drive and directory of special call sets. |
|--------------------|-----|-------------------------------------------------------------------------------------------------|

To change the special calls path, enter the desired drive letter followed by the desired directory. There is room available for up to alphanumeric 60 characters to designate the special calls path.


```
(4) Group Set Pool:  
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX  
  
(5) Free Space Pool:  
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX  
  
(6) Free Space Calculation: XXXXXXXX
```

Group Set Pool (4) The **Group Set Pool** is used to indicate the drive and directory of group sets.

To change group set the path, enter the desired drive letter followed by the desired directory. There is room available for up to 60 alphanumeric characters to designate the group set path.

| | |
|--------------------|--------------------------------------------------------------------------------------------------|
| Frequency Set Pool | (5) The Frequency Set Pool is used to indicate the drive and directory of frequency sets. |
|--------------------|--------------------------------------------------------------------------------------------------|

To change the frequency set path, enter the desired drive letter followed by the desired directory. There is room available for up to 60 alphanumeric characters to designate the frequency set path.

Free Space Calculations (6) The **Free Space Calculations** field allows the appearance of the Free Space field in the Radio Personality Screen.

Using the **TAB** key as a toggle switch, select "Enabled" or "Disabled". Selecting "Enabled" will show how much space remains available in the Radio Personality Screen when creating a personality. "Disabled" prevents the appearance of the Free Space field.

From the Environment Setting Window, function key options are:

F9 - Help Select this option if you want to:
Receive further information pertaining to a field
area.

F10 - Back Select this option if you want to:
Return to the Utility Window.

CHANGE DIRECTORIES

| | | |
|----------------------------------------|-----------------------------|-----|
| Ericsson GE Mobile Communications Inc. | | |
| (1) Personalities | MTD EDACS RADIO PROGRAMMING | A-1 |

Current Personalities - XXX
X:\XXXXXXXX

(2) Change Personality Directory

(3)
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

Are you sure? Yes - Press F1 (4)
No - Press F2

(5)
Enter desired directory

Use the cursor keys to select the personality

| | | | | | | | | | |
|-----------|----------|----|----|----|----|----|----|------------|-------------|
| F1 Yes | F2 No | F3 | F4 | F5 | F6 | F7 | F8 | F9 Help | F10 Back |
|-----------|----------|----|----|----|----|----|----|------------|-------------|

Figure 5-4 - Change Personality Directory Window

- | | |
|---------------------|---------------------------------------|
| (1) Function | - indicates personalities function |
| (2) Window Title | - change personality directory window |
| (3) Directory Field | - identify desired directory |
| (4) Continue Prompt | - continue or abort option |
| (5) Prompt Line | - current field instruction line |

The Change Personality Directory Window, shown in Figure 5-4, is accessed by selecting **F3 Dir** while in the Utility Window. This window allows you to change directories without leaving the program.

Directory (3) The **Directory** field is used to specify the new directory.

Enter the desired directory. Any valid DOS path identifier with no more than 55 characters will be accepted. To perform the actual change, press **F1 Yes**.

TQ-3346

From the Change Personality Directory Window, function key options are:

- | | |
|-------------------|--------------------------------------------------------------------------------------------------|
| F1 - Yes | Select this option if you want to: Continue with this change. |
| F2 - No | Select this option if you want to: Cancel this procedure. |
| F9 - Help | Select this option if you want to: Receive further information pertaining to a field area. |
| F10 - Back | Select this option if you want to: Return to the Utility Window. |

NOTE

Pressing **F1 Yes** will return you to the Utility Window under the specified directory.

DELETE PERSONALITY

| | | |
|----------------------------------------|-----------------------------|------|
| Ericsson GE Mobile Communications Inc. | | |
| (1) Delete | MTD EDACS RADIO PROGRAMMING | L1-F |

Current Personalities - XXX
X:\XXXXXXXX

(2) Delete File

Delete the file XXXXXXXX (3)

Are you sure? Yes - Press F1 (4)
 No - Press F2

Use the cursor keys to select the personality

| | | | | | | | | | |
|-----------|----------|----|----|----|----|----|----|------------|-------------|
| F1 Yes | F2 No | F3 | F4 | F5 | F6 | F7 | F8 | F9 Help | F10 Back |
|-----------|----------|----|----|----|----|----|----|------------|-------------|

Figure 5-5 - Delete File Window

- (1) Function - indicates delete function
- (2) Window Title - delete file window
- (3) Personality Field - personality to be deleted
- (4) Continue Prompt - continue or abort option

The Delete File Window, shown in Figure 5-5, is accessed by selecting **F5 Delete** while in the Utility Window. This window allows you to delete a personality without leaving the program.

Delete the (3) The **Delete the File** field is used to indicate the name of the personality to be deleted.

Enter the name of the existing personality you want to delete and press **F1 Yes**. The program will display a confirmation prompt before deletion occurs.

NOTE

Deletion of a personality will remove it permanently.

TQ-3346

From the Delete File Window, function key options are:

- | | |
|-------------------|--------------------------------------------------------------------------------------------------|
| F1 - Yes | Select this option if you want to: Continue with this change. |
| F2 - No | Select this option if you want to: Cancel this procedure. |
| F9 - Help | Select this option if you want to: Receive further information pertaining to a field area. |
| F10 - Back | Select this option if you want to: Return to the Utility Window. |

NOTE

If **F1 Yes** is selected the personality named will be PERMANENTLY deleted. If you do not wish to delete the personality, select F2 No.

PRINT PERSONALITY

Ericsson GE Mobile Communications Inc.

(1) Personalities MTD EDACS RADIO PROGRAMMING A-1

(2) Print Personality

(3) Current directory
XXXXXXXXXXXXXXXXXXXXXXXXXXXX

Personality: XXXXXXXX (4)

Reports: XXXXXX (5)

Output to: XXXXXX (6)

File Name: XXXXXXXX (7)

Printer: X (8)

1 - LPT1 3 - COM1

2 - LPT2 4 - COM2

(9) Enter personality name to print

Use the cursor ke

F1
Print

F2

F3

F4

F5

F6

F7

F8

F9
Help

F10
Exit

Figure 5-6 - Print Personality Window

- (1) Function - indicates personalities function
- (2) Window Title - print personality window
- (3) Current Directory - identifies directory path
- (4) Personality - identifies personality to print
- (5) Reports - determines report type
- (6) Output To - indicates where to print
- (7) File Name - path/file name to print to
- (8) Printer - identifies print queue to print to
- (9) Prompt Line - current field instruction line

The Print Personality Window, shown in Figure 5-6, is accessed by selecting **F6 Print** while in the Utility Window. This window allows you to generate a printout of the personality selected.

| | | |
|------------------------------|-------------------|-----|
| (3) | Current directory | |
| XXXXXXXXXXXXXXXXXXXXXXXXXXXX | | |
| Personality: | XXXXXXX | (4) |
| Reports: | XXXXX | (5) |
| Output to: | XXXXXX | (6) |
| File Name: | XXXXXXX | (7) |

Current Directory (3) The **Current Directory** field is used to specify the path for the personality to be printed.

When entering the Print Personality Window, the cursor appears in the Personality field. To change the the Current Directory field use the up arrow key to cursor into the field. Pressing **Ctrl-Backspace** will clear the field. Enter the desired drive and directory. This field will take up to 34 alphanumeric characters.

Personality (4) The **Personality** field is used to identify the personality to be printed.

This field automatically defaults to the current personality. To change the file name press **Ctrl-Backspace** to clear the field and type in the desired personality. The information entered in this field must be a valid name existing in the designated directory.

Reports (5) The **Reports** field is used to determine the report type you wish to print.

Using the **TAB** key as a toggle switch, select between "Brief" and "Full". Selection of "Brief" will cause a brief print out to appear. Selection of "Full" causes a detailed print out of the personality.

Output To (6) The **Output To** field is used to identify where the personality is to be printed.

Using the **TAB** key as a toggle switch, select between "Printer", "Screen", and "File".

- "Printer" allows you to generate a hard copy printout of the selected personality. Selection of "Printer" also causes the Printer field to appear in the window allowing data entry.
- "Screen" allows you to generate a printout of the personality to the screen. Pressing **F1 Print** will cause the personality data to appear on the screen allowing you to page through it.
- "File" allows you to cause the printout to be generated to the specified file for printout at a later time. Selection of "File" also causes the File Name field to appear in the window allowing data entry.

File Name (7) The **File Name** field is used to enter which path the printed output should go to whenever "File" is the selection made in the Output To field.

Enter a valid path/file name to print to. You can use up to eight characters in this field.

Pressing **F1 Print** will cause the personality data to be generated to the specified file for printout at a later time.

| | | |
|--------------|-----------|-----|
| Personality: | XXXXXXXX | |
| Reports: | XXXXX | |
| Output to: | XXXXXX | |
| File Name: | XXXXXXXXX | |
| Printer: | X | (8) |
| 1 - LPT1 | 3 - COM1 | |

Printer No (8) The **Printer Number** field is used to identify which printer port you will be printing to when "Printer" is selected in the Output to field.

Using the **TAB** key as a toggle switch, select between "1", "2", "3", and "4".

- Selecting "1" designates LPT1 printer port
- Selecting "2" designates LPT2 printer port
- Selecting "3" designates COM1 printer port
- Selecting "4" designates COM2 printer port

After selecting the appropriate printer port, press **F1 Print** to generate a hard copy printout.

From the Print Personality Window, function key options are:

- | | |
|-------------------|-----------------------------------------------------------------------------------------------|
| F1 - Print | Select this option if you want to: Print the personality. |
| F9 - Help | Select this option if you want to: Receive further information pertaining to a field area. |
| F10 - Back | Select this option if you want to: Return to the Utility Window. |

NOTES

If you select "Printer" in the Output to field, and select **F1 Print**, the PC Programming Software will perform a final edit check notifying you if your printer is not on-line. If the printer is on-line the information will then print.

If you select "File" in the Output to field, and select **F1 Print**, the PC Programming Software will perform a final edit check to see that you are not overwriting a file with information already stored on it. If you are, a warning will appear to let you know. If no file is being overwritten, a message will indicate that the printout is being generated and then return you to the Utility Window.

CHANGE EXTENSIONS

Ericsson GE Mobile Communications Inc.

(1) Extension

MTD EDACS RADIO PROGRAMMING

L1-H

Current Personalities - XXX
X:\XXXXXXX

(2) Change Extension

Enter file name extension - XXX (3)

Are you sure? Yes - Press F1 (4)
No - Press F2

(5)
Enter desired extension

Use the cursor keys to select the personality

F1
Yes

F2
No

F3

F4

F5

F6

F7

F8

F9
Help

F10
Back

Figure 5-7 - Change Extension Window

- (1) Function - indicates extension function
- (2) Window Title - change extension window
- (3) Enter File Name Ext. - identifies extension
- (4) Continue Prompt - continue or abort option
- (5) Prompt Line - current field instruction line

The Change Extension Window, shown in Figure 5-7, is accessed by selecting **F7 Ext** while in the Utility Window. This window allows you to select the extension in which personalities are displayed on the screen.

Enter File Name Extension (3) The **Enter File Name Extension** field is used to enter the new file extension to use as the default. This extension will be displayed at the top of the Current Personalities Screen.

Enter three alphanumeric characters as valid file extensions. After specifying the extension, press **F1 Yes** to perform the change.

From the Change Extension Window, function key options are:

- | | |
|-------------------|--------------------------------------------------------------------------------------------------|
| F1 - Yes | Select this option if you want to: Continue with this change. |
| F2 - No | Select this option if you want to: Cancel this procedure. |
| F9 - Help | Select this option if you want to: Receive further information pertaining to a field area. |
| F10 - Back | Select this option if you want to: Return to the Utility Window. |

This page intentionally left blank

CHAPTER 6

WHEN PROBLEMS ARISE

This chapter is devoted exclusively to explaining the error messages you might encounter and how to rectify the situation while programming the unit. However, should your program lock up and no error message appear, it is best to reboot the system by pressing **Ctrl-Alt-Del** simultaneously. What you have previously programmed will probably be lost so don't do this unless the keyboard keys no longer function.

NOTICE TO USERS

Some TSR's (Terminate and Stay Resident Programs) cause an undesired interaction with the PC programmer causing it to act strangely or lock the machine up. If you experience strange behavior with the PC programmer, please remove all memory resident programs and TSR's.

C

Problem: "Cannot access personality directory."

Appears whenever an invalid directory path is entered in the Current Directory field.

Solution: You will need to clear the field and enter a valid path.

Problem: "Cannot execute write - disk full."

An attempt was made to program the radio from within the Radio Personality Screen. During the write operation, the PC programmer requires the creation of a temporary file. This error message indicates that the disk is full and the programmer could not create the temporary file it needed.

Solution: You will need to create disk space on your disk or get a new data disk before attempting the write operation from within the Radio Personality Screen. Refer to your DOS User's Guide for help in deleting files.

TQ-3346

Problem: "Cannot page down."

This is an indication that you can no longer page down through your display data on the window either because you have reached the physical end of your data or the window is not complete.

Solution: If you are at the end of your data, you can do nothing more than page up. Otherwise check to ensure that your current window is completely filled in.

Problem: "Cannot page up."

This is an indication that you are at the very beginning of a data display window.

Solution: Discontinue paging up.

Problem: "Cannot save file - disk full."

This message is an indication that your disk is running out of storage space. You will not be able to save the personality unless you have enough disk space in which to store a personality.

Solution: You will need to create disk space on your disk or get a new data disk. Refer to your DOS User's Guide for help in deleting files.

Problem: "CCT must be in increments of 10."

An attempt was made to enter a carrier control timer value that was not divisible by 10.

Solution: Enter a carrier control timer value that is divisible by 10.

Problem: "CCT range is 0 - 250."

An attempt was made to enter a carrier control timer value that is outside of the acceptable range of values.

Solution: Enter a valid carrier control timer value.

Problem: "Channel __ is not a valid channel in the Frequency Set."

An attempt was made to specify a channel as a home channel that is not currently defined in the frequency set.

Solution: Specify a channel that is currently defined in the frequency set.

Problem: "Channel __ must have an RX & TX frequency."

An attempt was made to define a channel with only a transmit frequency defined. This is a condition not allowed by the programmer.

Solution: Return to the channel in question and enter a receive frequency.

Problem: "Channel __ must have an RX frequency."

An attempt was made to define a channel with only a transmit frequency defined. This is a condition not allowed by the programmer.

Solution: Return to the channel in question and enter a receive frequency.

Problem: "Could not delete file."

An attempt was made to delete either a personality or a frequency set that could not be deleted because the file doesn't exist, the drive is write protected, or there is a problem with the diskette.

Solution: Ensure that the personality or frequency set you are trying to delete actually exists. Next check to ensure that the diskette is not write protected.

Problem: "Could not display file."

This message is an indication that the program could not read one of the temporary files it created.

Solution: Please contact Ericsson GE Mobile Communications if you receive this message.

TQ-3346

Problem: "Could not open file."

This message is an indication that the program could not read one of the temporary files it created.

Solution: Please contact Ericsson GE Mobile Communications if you receive this message.

Problem: "Could not open port."

An attempt was made to print a personality to a communications port that was not installed or was non-functional.

Solution: Ensure that the port specified is correctly installed in your machine and is operational. Refer to your Technical Reference Manual for more information on communications ports.

Problem: "Could not open temporary file."

At various times, the PC Programmer creates temporary files for storage. This message is an indication that the program could not read one of the temporary files it created.

Solution: Please contact Ericsson GE Mobile Communications if you receive this message.

D

Problem: "Device not present."

An attempt was made to print the personality to a printer that was either not installed or was non-functional.

Solution: Ensure that the printer specified is correctly installed and operational before attempting further prints. Most printers are installed on LPT1.

Problem: "Directory does not exist."

This is an indication that the directory you tried to change to does not exist. The programmer will ask if it should create the directory.

Solution: Only specify a valid path/directory when attempting to change directories, or specify that the programmer should create it.

E

Problem: "Error reading mobile radio options."

This is an indication that the personality you are attempting to access was not entirely saved to disk because the disk was full when the save operation took place.

Solution: Because there was not enough disk space when saving this personality, the file will be removed and you must redefine the personality. Be sure the diskette has enough disk space.

Problem: "Error writing mobile radio options."

This is an indication that the personality you are attempting to save to disk cannot be saved to disk because the disk is full.

Solution: Do not press any keyboard keys before changing diskettes so that there will be enough space to save the file. Pressing any keys before changing diskettes will cause the file to be deleted.

Problem: "Error, Valid range for CCT is 0 to 250."

An attempt was made to enter a CCT value that was not in the acceptable range of 0 to 250.

Solution: Enter a CCT value in the 0 to 250 range.

F

Problem: "File does not exist."

An attempt was made to change/delete or print a personality or frequency set that does not exist.

Solution: Correct the file name entry before further attempts are made.

Problem: "File exists. Press 'Y' to overwrite, 'N' to quit."

An attempt was made to read or store a personality, frequency set, group set, or special call set to disk while a file with the same exists.

Solution: Select 'Y' to overwrite the existing file or select 'N' in order to rename the file.

Problem: "File is not correct type."

An attempt was made to change either a personality or frequency set and the file selected was not of the correct type.

Solution: Remove or do not use the questionable file.

Problem: "File name may not contain an extension."

An attempt was made to specify a file extension from the change/edit or delete window.

Solution: These windows do not require the addition of a file extension when the file name is specified. Remove the file extension before further attempts are made.

Problem: "File not found."

An attempt was made to change/delete or print a personality or frequency set that does not exist.

Solution: Correct the file name entry before further attempts are made.

Problem: "Frequency out of range."

An attempt was made to enter a frequency that does not fall within the band split selected.

Solution: Ensure that the frequency specified falls within the band split indicated at the top of the window.

Problem: "Frequency set invalid - split is ____ - ____."

An attempt was made to enter a frequency set in the radio personality that does not belong to the band split.

Solution: Enter a frequency set that falls within the designated split.

Problem: "Frequency sets must have at least one channel."

An attempt was made to leave the detail Frequency Set Window or save a frequency set definition without any channels defined.

Solution: The program will not allow you to continue without adding a channel. Ensure that at least one valid channel definition is in the frequency set before continuing.

G

Problem: "Group __ must have a valid ID."

An attempt was made to leave the Group Set without entering a group ID.

Solution: Enter a group ID before leaving the Group Set. Group IDs should be in the range of 0 - 2048.

Problem: "Group numbers must be in ascending order."

An attempt was made to enter a group number that was not in ascending order.

Solution: Enter a group number that is in ascending order.

TQ-3346

Problem: "Group sets must contain at least one group."

An attempt was made to save a group set to disk without a group defined. This is a condition not allowed by the programmer.

Solution: Define a group before attempt to save.

I

Problem: "Incorrect file size/type."

An attempt was made to change either a personality or frequency set and the file selected was not of the correct type.

Solution: Remove or do not use the questionable file.

Problem: "Insufficient Space on Specified Drive."

An attempt was made to save a personality to disk when the disk was full.

Solution: Change the path specified to redirect the personality to another drive. After saving the personality, exit the programmer and remove old/unused files. Refer to your DOS User's Guide for more information on deleting files.

Problem: "Invalid Channel Guard entered."

An attempt was made to enter an invalid Digital Channel Guard or a tone Channel Guard that is outside of the acceptable range.

Solution: Enter a tone Channel Guard within the range of 67.0 to 210.7 or refer to Appendix D for a valid Digital Channel Guard.

Problem: "Invalid channel spacing."

An attempt was made to enter a frequency that has an incorrect channel spacing for this particular split.

Solution: Enter a frequency that is evenly divisible by .0125.

Problem: "Invalid conventional frequency test set."

An attempt was made to specify a conventional frequency test set that does not exist in the Pool directory.

Solution: Ensure that the conventional frequency test set specified actually exists in the Currently Defined Frequency sets window by pressing **F2 Freq.**

Problem: "Invalid Conventional system."

An attempt was made to save the personality to disk with an invalid conventional system specified.

Solution: To be valid, a conventional system must have a valid frequency set.

Problem: "Invalid Device Number."

An attempt was made to print the personality to a device that is not supported.

Solution: Enter a valid device. Valid devices are 1-LPT1, 2-LPT2, 3-COM1, and 4-COM2.

Problem: "Invalid Drive Specification."

An attempt was made to save the personality to a drive that does not exist.

Solution: Enter only a valid drive specification.

Problem: "Invalid extension specified."

An attempt was made to specify an extension (from the Change Extension Window) that does not meet the conditions for a valid extension.

Solution: Ensure that the extension specified consists of only alphanumeric characters.

TQ-3346

Problem: "Invalid file name."

An attempt was made to enter a file name that is not acceptable to DOS or the programmer.

Solution: Correct the file name entry before further attempts are made. Refer to your DOS User's Guide for more information on file naming convention.

Problem: "Invalid FS number."

An attempt was made to specify a failsoft number that does not exist in the trunked frequency set.

Solution: Specify one of the channels defined in the set.

Problem: "Invalid home channel in frequency set."

An attempt was made to specify a home channel that does not have a transmit frequency specified or does not exist in the set. All home channels must have a transmit frequency.

Solution: Enter a channel that has both a Tx and Rx frequency specified.

Problem: "Invalid Home Group, name not in group set."

An attempt was made to specify a home group that does not exist in the group set.

Solution: Enter the name of a group that exists in the personality.

Problem: "Invalid - must enter number."

An attempt was made to leave a field blank or to enter a non-numeric character in a field that requires numeric input.

Solution: Enter a number in the field.

Problem: "Invalid Name."

This message indicates that some of the characters entered are not valid for the radio display.

Solution: Refer to the Acceptable Values Appendix (Appendix C) in the back of this manual for valid characters for radio display. Re-enter the name using valid displayable characters.

Problem: "Invalid number of agencies."

An attempt was made to enter an invalid number of agencies.

Solution: Enter a valid agency number. The possible number of agencies are 2, 4, 8, 16, and 32. You cannot specify intermediary numbers.

Problem: "Invalid number of fleets."

An attempt was made to enter a number of fleets per agency that do not exist.

Solution: Enter a number between 1 - 256 and a power of two depending on the number of agencies specified. When the number of agencies are 2, the maximum fleets are 256. When the number of agencies are 4, the maximum fleets are 128. When the number of agencies are 8, the maximum fleets are 64. When the number of agencies are 16, the maximum fleets are 32. When the number of agencies are 32, the maximum fleets are 16.

Problem: "Invalid Number, must be 0 - 9."

An attempt was made to specify a number out of the acceptable range of values.

Solution: Enter a number between 0 and 9.

Problem: "Invalid phone number."

An attempt was made to enter a number containing characters not acceptable to the PC programmer.

Solution: Enter only the digits 0-9 when defining a phone number.

TQ-3346

Problem: "Invalid port entered."

An attempt was made to specify a communications port other than COM1 or COM2. The PC Programmer Software only supports COM1 or COM2.

Solution: Use either COM1 or COM2 for programming.

Problem: "Invalid Prestored Interconnect number. Must enter numeric data only."

An attempt was made to enter a number containing alpha or display characters in a field that specifies only numeric characters as valid.

Solution: Clear the field and enter only numeric characters.

Problem: "Invalid remote group."

An attempt was made to save the personality with an invalid remote group specified under the Desktop Options Window.

Solution: From the Radio Personality Screen, press **F7 Mobile**, **F6 Desk**, and ensure that all remote groups are valid.

Problem: "Invalid remote system."

An attempt was made to save the personality with an invalid remote system specified under the Desktop Options Window.

Solution: From the Radio Personality Screen, press **F7 Mobile**, **F6 Desk**, and ensure that all remote systems are valid.

Problem: "Invalid Site ID, 1 - 31."

An attempt was made to specify a site ID that falls outside of the acceptable range of values.

Solution: Enter an ID that falls within the range of 1 - 31.

Problem: "Invalid Trunked system."

An attempt was made to save the personality to disk with an incomplete trunked system definition.

Solution: A valid trunked system must have a frequency set, site ID, unit ID, and group set. Ensure that the system in question meets the conditions above.

Problem: "Invalid Unit ID, 0 - 16382."

An attempt was made to specify a unit ID that falls outside of the acceptable range of values.

Solution: Enter an ID that falls within the range of 0 - 16382.

M

Problem: "Maximum eight Conv sets allowed - cannot add this set."

An attempt was made to include a conventional set that would cause the personality to exceed the channel capacity.

Solution: If it is necessary to add another set, either change an existing set or delete a previously created set.

Problem: "Minimum volume range is 0 to 15."

An attempt was made to specify a volume range that falls outside of the acceptable range of values.

Solution: Enter a valid minimum volume in the range of 0 - 15.

Problem: "Must be a valid channel in the Trunk Set. There are only _ channel(s) in the Trunk Set."

An attempt was made to enter a channel number that does not exist in the trunked set selected.

Solution: Enter a channel number corresponding to a valid channel in the trunked set specified.

TQ-3346

Problem: "Must be in increments of 5."

An attempt was made to enter a value that is not divisible by 5.

Solution: Enter a value that is divisible by 5.

Problem: "Must be in increments of .5."

An attempt was made to enter a value that is not divisible by .5.

Solution: Enter a value that is divisible by .5.

Problem: "Must be on Frequency Set, Group Set, or Special Call Set field."

The **F1 Detail** key was pressed while the cursor was on a field other than the frequency set, group set, or special call set field. The detail key will only work when the cursor is on the frequency, group, or special call set you wish to detail.

Solution: Move the cursor to the frequency set, group set, or special call set field before attempting to perform the detail operation.

Problem: "Must have valid remote systems."

An attempt was made to define a remote system that is invalid to the programmer. Valid remote systems must be within the first 16 system numbers of the personality.

Solution: Ensure that the system in question is one of the first 16 defined.

Problem: "Must remove empty special calls."

An attempt was made to leave a gap in the special call list.

Solution: Remove the gap by cursoring into the line in question and press **F3 Remove**.

Problem: "Must specify file name."

An attempt was made to change/edit a personality, frequency set, or group set without specifying a file name.

Solution: Enter a valid file name.

N

Problem: "Name not added - no room."

This message occurs when the personality grows so large that there is no further room to add display names.

Solution: Do not use unique names for channels and/or groups. Similar names may be reused.

Problem: "No Agency Data."

An attempt was made to create a personality without having the agency partition data defined. This condition is not acceptable to the PC programmer.

Solution: From the Current Personalities Screen, press **F1 Setup** and define the agency partition data.

Problem: "Not enough room - maximum of 48 channels allowed."

An attempt was made to enter more channels than allowed.

Solution: If another channel is necessary you must first either delete an existing channel or edit an already existing channel.

Problem: "Not enough room for this group set."

An attempt was made to add a group set when the maximum number of groups had already been exceeded.

Solution: To add another group set, you must first either delete an existing group set or edit an already existing set.

TQ-3346

Problem: "Not enough room to add this set."

An attempt was made to add a set when the maximum number of sets had already been exceeded.

Solution: To add another set, you must first either delete an existing set or edit an already existing set.

O

Problem: "Only 48 conventional channels allowed."

An attempt was made to create a conventional channel that would cause the personality to exceed the channel capacity.

Solution: If another channel is necessary, you must first remove an existing channel to make room to add this channel.

Problem: "Only 8 conventional sets allowed."

An attempt was made to include a conventional set that would cause the personality to exceed the allowable capacity.

Solution: To add another set, either change an existing set or delete a previously created set.

Problem: "Out of paper."

An attempt was made to print to a printer where there was not paper.

Solution: Insert paper in the printer and re-initiate the print function.

P

Problem: "Personalities must have at least 1 system."

An attempt was made to save the personality to disk without a system defined. This condition is not acceptable to the PC programmer.

Solution: Either do not attempt to save the personality or ensure that the personality has at least one system defined.

Problem: "Printer busy."

An attempt was made to print to a printer where other information was already being printed.

Solution: Either designate another printer to print to or wait until the present printer is no longer busy.

Problem: "Printer error - printer not on line."

"Printer not on line."

"Printer off line."

An attempt was made to print to a printer that is either not powered up or is off line.

Solution: Ensure that power is applied to the printer in that the on line indicator is illuminated.

Problem: "Problem with Print."

An attempt was made to print a personality and the main program could not initiate the print task. There are three common reasons for the print initiate to fail. There is not enough memory available, the print executable is not in the right directory for the initiate, or you are using a version of DOS earlier than version 3.0 or higher.

Solution: First, check to ensure that you are running the right version of DOS. Exit the program and at the DOS prompt, type **VER <enter>**. Typing this command will cause the DOS version to appear on the window. If this number is 1.XX or 2.XX you will need to upgrade to DOS 3.0 or higher. Next, check to ensure that **MTDPRINT.EXE** file resides in the same directory as the **MTD.EXE** file. If the **MTDPRINT.EXE** file is not there, copy it from the distribution diskettes. However, if the print is there then you must be running out of memory. If you have any memory resident programs installed then remove them before continuing.

Problem: "Problem with Read."

An attempt was made to read the unit and the main program could not initiate the read task. There are three common reasons for the read initiate to fail. There is not enough memory available, the read executable is not in the right directory for the initiate, or you are using a version of DOS earlier than version 3.0 or higher.

Solution: First, check to ensure that you are running the right version of DOS. Exit the program and at the DOS prompt, type **VER <enter>**. Typing this command will cause the DOS version to appear on the window. If this number is 1.XX or 2.XX you will need to upgrade to DOS 3.0 or higher. Next, check to ensure that the correct read file resides in the same directory as the MTD.EXE file. If the read file is not there, copy it from the distribution diskettes. However, if the read is there then you must be running out of memory. If you have any memory resident programs installed then remove them before continuing.

Problem: "Problem with Write"

An attempt was made to write a personality and the main program could not initiate the write task. There are three common reasons for the write initiate to fail. First, there is not enough memory available, the write executable is not in the right directory for the initiate or you are using a version of DOS earlier than version 3.0 or higher.

Solution: First, check to ensure that you're running the right version of DOS. Exit the program and at the DOS prompt, type **VER <enter>**. Typing this command will cause the DOS version to appear on the window. If this number is 1.XX or 2.XX you will need to upgrade to DOS 3.0 or higher. Next, check to ensure that correct write file resides in the same directory as the MTD.EXE file. If the write file is not there, copy it from the distribution diskettes. However, if the write is there then you must be running out of memory. If you have any memory resident programs installed then remove them before continuing.

Problem: "Read failed. Check connection."

This message will appear whenever handshaking with the unit fails. There are several reasons for the program being unable to handshake with the unit: power is not applied to the unit, cabling is not properly seated or connected, incorrect communications port has been specified, or the unit is turned off or malfunctioning.

Solution: The first step is to try and isolate the cause of the problem. Is the unit malfunctioning? Replace the unit with a known good unit and attempt a read. If the message reappears, then the problem is not with the unit. Is your cabling connected and seated correctly? Is your power supply for the TQ-3310 PC interface box properly installed? Refer to the hardware configuration in Chapter 2 for help in making this determination. Lastly, do you have the right port specified? Go into the Utility Window and change the port setup. If the problem still appears you should check your asynchronous card for functionality.

Problem: "Remote channels must be one of the first 16 channels."

An attempt was made to designate a remote channel as a channel other than one of the first 16 channels.

Solution: Redesignate the remote channel as one of the first 16 channels.

Problem: "Remote channels must have valid remote systems."

An attempt was made to leave the Desktop Options Window without a valid remote system specified. All remote channels must have remote systems.

Solution: Ensure all remote channels have a remote system specified.

TQ-3346

Problem: "Remote groups must be one of the first 16 groups."

An attempt was made to designate a remote group as a group other than one of the first 16 groups.

Solution: Redesignate the remote group as one of the first 16 groups.

Problem: "Remote system invalid."

An attempt was made to define a remote system that is invalid to the programmer. Valid remote systems must be within the first 16 system numbers of the personality.

Solution: Ensure that the system in question is one of the first 16 defined.

Problem: "Remote systems must be one of the first 16 systems."

An attempt was made to designate a remote system as a system other than one of the first 16 systems.

Solution: Redesignate the remote system as one of the first 16 systems.

Problem: "Removing file."

An attempt was made enter or save a personality when there was not enough room on the disk to store the entire personality. Once a keyboard key is pressed after a warning indicating this problem, the file will be removed.

Solution: Either insert a new diskette or delete files to create enough space for the personality desired and redefine and save the personality.

S

Problem: "Site test unit must be a valid system."

An attempt was made to save the personality with an invalid site test unit specified.

Solution: From the Radio Personality Screen, press **F7 Mobile**, **F3 Param** and ensure that the site test unit is valid.

Problem: "Specify a frequency set name."

No frequency set name was given.

Solution: Enter a frequency set name.

Problem: "Specify a group set name."

No group set name was given.

Solution: Enter a group set name.

T

Problem: "The file already exists!...Overwrite?! (Y/N)."

An attempt was made to save a personality, frequency set, or group set to disk while a file with the same name exists.

Solution: Select 'Y' to overwrite the existing file, or select 'N' in order to rename the file.

Problem: "Timeout must be in intervals of 5."

An attempt was made to enter a time out value that was not divisible by 5.

Solution: Enter a time out value that is divisible by 5.

Problem: "Trunked system # _ must contain a valid group set."

An attempt was made to enter a personality that does not have a group set entered in the trunked system definition.

Solution: Enter a valid group set in the trunked system definition before saving the personality.

U

Problem: "Unable to create directory."

An attempt was made to enter too many subdirectories at one time.

Solution: Enter only one subdirectory at a time. You can only create one subdirectory at a time.

V

Problem: "Valid range for group ID is 1 to 2047."

An attempt was made to enter a group ID that falls outside the range of acceptable values.

Solution: Enter a valid group ID in the range of 1 - 2047.

Problem: "Valid range is 0 to 31."

An attempt was made to enter a value that falls outside the range of acceptable values.

Solution: Enter a valid value in the range of 0 - 31.

Problem: "Valid range is 0 to 128."

An attempt was made to enter a value that falls outside the range of acceptable values.

Solution: Enter a valid value in the range of 0 - 128.

Problem: "Valid range is 0 to 250."

An attempt was made to enter a value that falls outside the range of acceptable values.

Solution: Enter a valid value in the range of 0 - 250.

Problem: "Valid range is 0 to 510 msecs."

An attempt was made to enter a value that falls outside the range of acceptable values.

Solution: Enter a valid value in the range of 0 - 510.

Problem: "Valid range is 0 to 16382."

An attempt was made to enter a value that falls outside the range of acceptable values.

Solution: Enter a valid value in the range of 0 - 16382.

Problem: "Valid ranges are 0 to 15."

An attempt was made to enter a value that falls outside the range of acceptable values.

Solution: Enter a valid value in the range of 0 - 15.

Problem: "Valid ranges are 0 to 31."

An attempt was made to enter a value that falls outside the range of acceptable values.

Solution: Enter a valid value in the range of 0 - 31.

Problem: "Volume range is 0 - 15."

An attempt was made to enter a volume value that falls outside the range of acceptable values.

Solution: Enter a valid volume value in the range of 0 - 15.

W

Problem: "WARNING: Desktop range is 0 to 15."

This message is displayed when an initial volume setting greater than 15 is entered. This message is just to inform you that this volume setting is illegal should the personality be programmed into a Desktop unit.

Solution: If the personality being edited is to be programmed into a Desktop unit, please ensure that the volume range is between 0 and 15.

APPENDIX A

TERMS

Cursor Keys - The keys on the right hand side of the keyboard marked with arrows (Up Arrow, Right Arrow, Down Arrow and Left Arrow keys). They are used to control the direction of the cursor.

Default Value - The MTD EDACS radio software provides predetermined (default) values in a majority of the data entry fields within the program. Exceptions to this rule are fields requiring variable names, dates, and serial numbers. The default values assume that the radio will be used without optional features. Before changing these default values, we recommend that you be familiar with the operational implications of adding a particular feature or option to the radio being programmed.

Detail - Allows you to make changes in the frequency set or group set windows from the radio personality screen. These changes will only apply to the particular radio personality currently being edited. Detail does not affect any information stored in the Pool directory.

Error Messages - Each time data is entered in the program a validity check is made to ensure that reasonable values were entered. In the event that the data does not fall within the acceptable range of values, an error message will be displayed in the center of the screen indicating non acceptance.

Failsoft - Refers to the mode of operation of the trunked system when the site controller is not operational.

Field - Refers to the area of the screen/window which allows data entry. This area is readily identifiable by a reverse video bar when moving the cursor across the screen.

Frequency Set - Refers to a collection of channel definitions that can be stored to disk for later recall. These channels must fall within a particular band split.

TQ-3346

Function Keys - Function keys are the keys, often found on the left-hand portion of your PC's keyboard, which begin with the prefix F. The function keys are used in the PC Programmer Software to execute a particular command.

GID - Refers to group identification which is used to determine which group calls the unit should unmute for.

Group Set - Refers to a collection of individual groups (agencies, fleets, subfleets). There can be up to fifty groups within a group set with one group identified as the home group which is the group setting that the radio will go to should the emergency key be depressed.

Help - Throughout the MTD EDACS radio software, Help denotes or refers to on-line assistance. This can be accessed by pressing the **F9 Help** key from any field.

PC Programmer Software - This term is used to identify the programming software for the MTD EDACS radio.

Personality - Used generically to refer to information that is stored in the radio that makes one radio perform differently from all other radios. That information can be created, deleted or modified and stored on a disk for later reference.

Pool - Refers to a directory in the data base where frequency sets, group sets, and special call sets are stored.

Prompt Line - Assistance text located on the last line of the window. This line provides directions for entering data and changes when moving from field to field.

Ramp - Refers to rapid channel or volume advancement while depressing key and holding.

Screen - Refers to a major or parent data entry process and is used to show position within the program. Each screen is divided into three distinct areas: (1) screen title, (2) screen windows, and (3) active function keys. The title tells you where you are in the program hierarchy. The screen windows are provided for input of data to the screen. The active function keys provide access to the commands (or actions) available within that screen. The function key commands are labeled along the bottom of the screen. Only

the function keys with labels are enabled in a given screen or window.

Spurs - Refers to the harmonics induced into the audio by the IF oscillator on a limited number of channels.

Squelch Tail Elimination - Refers to inverting the phase of the Channel Guard tone in order to mute the audio of the receiving radio while the carrier is diminishing after transmit ends.

System - Defines a mode of operation in MTD EDACS radios. There are two types of systems available for the radio: trunked and conventional. A conventional system consists of a display name/number and a set of conventional frequencies in which the unit operates. A trunked system consists of a display name/number, a set of trunked channels in which the unit operates, or site ID, unit ID, and conversation group set.

Window - A window is a section of a screen that displays previously stored information, enables programming alternatives, or accepts data currently being entered. There may be more than one window within a particular screen. Each window is outlined within the screen presentation.

There are two types of windows: active and passive. The active window is available for data entry or revision and can be identified by its highlighted borders. The passive window is displayed but is unavailable for program execution. In the case that windows have overlapping borders, the active window is presented in the foreground.

Like the screen, windows are divided into three distinct sections. They are: (1) window title, (2) work area, and (3) prompt line. The window title describes the function currently being performed. The work area is the space provided for your input to the window. The prompt line is printed information in the lower portion of the window defining in further detail the action to be taken in the work area.

This page intentionally left blank

APPENDIX B

FUNCTION KEYS

F1

F1 Agency - From the Mobile Radio Options Window, this key allows you to access and modify agency partition data for the current personality.

F1 Detail - From the Radio Personality Screen, this key provides access to view or modify frequency set definitions, group set definitions, or special call set definitions.

F1 Menu - From the Mobile Radio Options Window, this key allows you to select menu options associated with the mobile radio.

F1 Port - From the Utility Window, the Communications Port Setup key allows you to select a port on your personal computer to be used for communicating with the radio.

F1 Print - From the Print Personality Window, the Print key allows you to print the designated personality to the designated source.

F1 Setup - From the Current Personalities Screen, this key allows you to select personality defaults by defining agency data.

F1 Switch - From the Agency Partition Data Window, this key allows you access to the Frequency Ranges Window. From the Frequency Ranges Window, this key allows access to the Agency Partition Data Window.

F1 Yes - From various process windows, the selected operation will be executed. At numerous times during the programming of the radio, the program may ask you if you want to complete an operation. Pressing this key completes the selected operation.

F2

F2 Change - From the Current Personality Screen this function key allows you to change or edit an existing personality. This key, along with the **F4 New** key, provides access to the Radio Personality Screen. From the Currently Defined Frequency Sets Screen this key allows you to change or edit an existing frequency set. From the Currently Defined Group Sets Screen this key allows you to change or edit an existing group set. And, from the Currently Defined Special Call Sets Screen this key allows you to change or edit an existing special call set.

F2 Environ - From the Utility Window, this key allows you to change existing environment settings.

F2 Freq - From the Currently Defined Frequency Sets Window, this function key allows you to change existing frequency sets. From the Radio Personality Screen, this key allows you to enter the Currently Defined Frequency Sets Window.

F2 Initial - From the Mobile Radio Options Window, the Initial Function Key allows you to set the initial radio state. These options only apply to the initial state of the radio after programming which may or may not be the power up state of the radio.

F2 Insert - Used to insert a new line for a channel definition, a group set definition, a conventional set definition, or special call set definition.

F2 No - From various process windows, the selected operation will be canceled. At numerous times during programming of the radio, the program will ask if you wish to complete an operation. When you press this key the selected operation will not be executed.

F3

F3 Dir - The Change Directory Function Key command is enabled within the Utility Window and allows you to change directories without having to exit the program.

F3 Group - Used to create, delete, or modify pooled group sets from the Setup portion of the program or the Radio Personality Screen.

F3 NewTrk - From the Currently Defined Frequency Sets Screen, this key allows you to create new trunked frequency sets.

F3 Param - From the Mobile Radio Options Window, this key allows you to define various radio parameters associated with mobile radios.

F3 Remove - Used to remove a line for a channel definition, a group set definition, conventional set definition, or special call definition.

F3 Stat - From the Mobile Radio Options Window, this key is used to identify status name and identification fields associated with mobile radio options.

F3 Utility - The Utility Function Key provides access to the Utility Window from the Current Personalities Screen. The Utility Window allows you to select a communications port setup, define environment settings, change file directories, delete personalities without exiting the program, print a personality, or change file extensions.

F4

F4 FCC - In the Trunked Frequency Set Window, this key allows you to display FCC Channel settings.

F4 MSG - From the Mobile Radio Options Window, this key is used to identify message name and identification fields associated with mobile radio options.

F4 New - From the Current Personalities screen, this key allows you to create a new radio personality. From the Currently Defined Group Sets Screen this key allows you to create a new group set. From the Currently Defined Special Call Sets Screen, this key allows you to create a new special call set.

F4 NewCnv - From the Currently Defined Frequency Sets Screen, this key allows you to create new conventional frequency sets.

F4 SpCall - From the Setup portion of the program, this key allows you to create, modify, or delete pooled special call sets.

TQ-3346

F4 Text - From the Radio Personality Screen, the Text Select Function Key allows you to view the software revision number and software revision date for the radio when last programmed. This window also accepts additional information (in text format) which you may wish to include about a particular radio personality.

F4 User - From the Mobile Radio Options Window, this key is used to set caller display options associated with mobile radios.

F5

F5 Delete - Used to delete or remove a personality, frequency set, group set, or special call set from the data base.

F5 Program - The Program Function Key is enabled in the Current Personalities Screen and the Radio Personality Screen. In the Current Personalities Screen, this function writes a personality stored on disk to the radio. In the Radio Personality Screen, this key will download the personality on the screen into a radio.

F5 Scan - From the Mobile Radio Options Window, this key allows you to identify scan options associated with mobile radios.

F5 Store - Used to save to disk a frequency set, a group set, or a special call set that is currently being edited allowing you to remain in the edit function.

F6

F6 Desk - From the Mobile Radio Options Window, this key is used to define the desktop options associated with the mobile radio.

F6 Print - This function allows you to obtain a hard (paper) copy of the personality data stored in memory. This key is enabled in the Utility Window, and also provides the capability to print personality data to a file or to the window.

F6 Read - From the Current Personalities Screen, the Read Select Function Key provides the capability to read a specific radio personality into a file.

F6 SpCall - From the Radio Personality Screen, this key enables you to access the Special Calls Window and allowing you to create, modify, or delete a special call set.

F7

F7 Ext - The Extension Select Function Key is accessed in the Utility Window, and allows you to define a new three letter default extension.

F7 Mobile - From the Radio Personality Screen, this key allows you to define options associated with mobile radios.

F7 Option - From the Trunked Frequency Set Window, this key allows you to define options associated with a trunked frequency set. From the Conventional Frequency Set Window, this key allows you to define options associated with a conventional frequency set. From the Special Call Set Window, this key allows you to define options associated with the special call set.

F7 SysScn - From the Radio Personality Screen, this key is used to defined wide area scan information associated with the MTD EDACS radio.

F8

F8 More - In either the Radio Personality Screen or the Mobile Radio Options Window, this key can be used as a toggle switch to enable additional function keys associated with the window.

F9

F9 Help - Is used to provide assistance from any screen or window. Whenever you have a question about the execution of an operation, select this key. There are two levels of help messages:

Field Level Help messages are provided from any screen or any window by simply pressing the **F9 Help** key and provides additional information on the field in question.

Window Level Help messages are provided by pressing the **Shift F9 Help** key and describes the purpose of the data presented in the window.

F10

F10 Back - When this key is pressed you will return to a previous window, making it active again for further revisions or data entry. In some cases, it will return control of the program to the Current Personalities Screen.

F10 Exit - When selected from the Current Personalities Screen, the program is terminated and you are returned to the control of your disk operating system (DOS).

APPENDIX C

ACCEPTABLE VALUES

| Input Field | Acceptable Values | Default Value |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| Valid Radio | | |
| Display Characters | A-Z, 0-9, +, -, <, >, =, *, /, \, (,), | blank |
| Agency Partition Data | | |
| Number of Agencies | 2, 4, 8, 16, 32 | blank |
| Fleets per Agency | 256, 128, 64, 32, 16 | blank |
| Frequency Range | | |
| 800 | 806 - 870 | 806 - 870 |
| 900 | 896 - 941 | 896 - 941 |
| Currently Defined Frequency Sets | | |
| Trunked Frequency Sets | | |
| Tx Freq | 800 - 806-870 must be evenly divisible by .0125 (12.5 KHz) 900 - 896-941 must be evenly divisible by .0125 (12.5 KHz) | blank |
| Rx Freq | 800 - 806-870 must be evenly divisible by .0125 (12.5 KHz) 900 - 896-941 must be evenly divisible by .0125 (12.5 KHz) | Tx Frequency |

TQ-3346

| Input Field | Acceptable Values | Default Value |
|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------|----------------------|
| Currently Defined Frequency Sets | | |
| Trunked Set Options | | |
| Default Site ID | 1 - 31 | blank |
| High Power | On or Off | Off |
| Max Channels Allowed | 0 - 25 | blank |
| Conventional Frequency Sets | | |
| Name | Any eight character valid display name. | blank |
| Tx Freq | 800 - 806-870 must be evenly divisible by .0125 (12.5 KHz) 900 - 896-941 must be evenly divisible by .0125 (12.5 KHz) | blank |
| Rx Freq | 800 - 806-870 must be evenly divisible by .0125 (12.5 KHz) 900 - 896-941 must be evenly divisible by .0125 (12.5 KHz) | Tx Frequency plus 45 |
| Tx CG | Tone Channel Guard range 67.0 - 210.7. Digital Channel Guard range - see CG Table (Appendix D). | blank |
| STE | On or Off | Off |
| Rx CG | Tone Channel Guard range 67.0 - 210.7. Digital Channel Guard range - see CG Table (Appendix D). | blank |

| Input Field | Acceptable Values | Default Value |
|------------------------------------------------|----------------------------------------------|----------------------|
| Conventional Frequency Sets (Continued) | | |
| TXL | On or Off | Off |
| CCT | On or Off | Off |
| OS | Yes or No | No |
| Scan | On or Off | Off |
| Port PWR | Hi or Low | Low |
| Conventional Set Options | | |
| Home Channel | A currently defined channel in the freq set. | blank |
| Wide Scan Channel | A currently defined channel in the freq set. | blank |
| Currently Defined Group Sets | | |
| Group Set Summary | | |
| Name | Any eight character valid DOS file name. | blank |
| Group ID | 0 - 2048 | blank |
| Type | Normal, Encode, or Decode | Normal |
| Scan | On or Off | Off |
| Knob Select | On or Off | Off |
| ICall | On or Off | On |
| Group Set Options | | |
| Home Group | Any eight character display name. | blank |

TQ-3346

| Input Field | Acceptable Values | Default Value |
|-------------|-------------------|---------------|
|-------------|-------------------|---------------|

Currently Defined Special Call Sets

Special Call Set

| | | |
|--------|---------------------------------------------------------------------------------------------------------------|-------|
| Name | Any eight character valid DOS file name. | blank |
| Type | TELE, DTMF, CAL1, ALL | TELE |
| Number | If DTMF or ALL: no entry allowed If TELE: up to 26 digits - 0 - 9, or a blank If CAL1 (Indiv Call): 1 - 16382 | blank |

Keypad Limit Options

| | | |
|-------------------------------|---------------|-------|
| Keypad Limits | Range or None | Range |
| Logical ID Lower Limit- 16382 | | 1 |
| Logical ID Upper Limit- 16382 | | 16382 |

Radio Personality

| | | |
|-------------|---------------------------------------------------------------|-------|
| System Name | Any eight character valid display name. | blank |
| Freq Set | Must match a set already in the personality or a set on disk. | blank |
| Type | T, C, or blank | blank |
| Site | In range of 0 - 31 | blank |
| Unit | In range of 1- 16382 inclusive | blank |
| Group Set | Must match a set already in the personality or a set on disk. | blank |
| Spc Set | Must match a set already in the personality or a set on disk. | blank |

| Input Field | Acceptable Values | Default Value |
|--------------------------------------|------------------------------------------------------------------------------------|----------------------|
| Radio Personality (Continued) | | |
| Emg Aud | On or Off | Off |
| Emg Dsp | On or Off | Off |
| FS Chan | The channel specified here must be defined in the associated frequency set. | blank |
| Mobile Radio Options | | |
| Failsoft Display | Yes or No | No |
| Supervisory | Yes or No | No |
| CCT Timeouts | 0 to 250 secs in 10 sec increments | blank |
| Display Timeouts | 0 to 7.5 secs in .5 sec increments | blank |
| Indiv Call Timeouts | 0 to 75 secs in 5 sec increments | blank |
| Special Call Timeouts | 0 to 75 secs in 5 sec increments | blank |
| Data Lockout Timeouts | 0, 5, 10, or 20 | blank |
| Scan Lockout Timeouts | 0, 5, 10, or 20 | blank |
| Test Set | pre-defined conventional frequency set name | blank |
| Ramp Wrap | On or Off | Off |
| Auto Login | On or Off | Off |
| Hookswitch | Normal or Inverted | Inverted |
| Off Hook Fnc | Yes or No | No |
| Individual ID | Yes or No | No |
| Group ID | Yes or No | No |

TQ-3346

| Input Field | Acceptable Values | Default Value |
|----------------------------------------|--------------------------------------------------------------------------|----------------------|
| Mobile Radio Options(Continued) | | |
| Alpha Mapping | Yes or No | No |
| Home System | pre-defined system name in the current personality | blank |
| Minimum Volume | 0 to 15 | blank |
| Emer Button | Enable or Disable | Disable |
| Home Button | Enable or Disable | Disable |
| Menu Options | | |
| Menu 1 | Special, Scan On/Off, Scan Add/Del, Ext Alarm, Status, Message, Disabled | Special |
| Menu 2 | Special, Scan On/Off, Scan Add/Del, Ext Alarm, Status, Message, Disabled | Scan On/Off |
| Menu 3 - Menu 6 | Special, Scan On/Off, Scan Add/Del, Ext Alarm, Status, Message, Disabled | Disabled |
| Initial Settings | | |
| Power Up System/Group | Enable or Disable | Disable |
| System | pre-defined system name in the current personality | blank |

| Input Field | Acceptable Values | Default Value |
|-------------------------------------|--------------------------------------------------------------------------------------------------|----------------------|
| Initial Settings (Continued) | | |
| Group | pre-defined group name for trunked systems, or pre-defined channel name for conventional systems | blank |
| Power Up Volume State | Enable or Disable | Disable |
| Volume | 0 to 15 | 15 |
| Power Up Scan | Enable or Disable | Disable |
| Scan State | Enable or Disable | Disable |
| Radio Parameters | | |
| Channel Set Expansion | On or Off | Off |
| Alarm Power Up State | Enabled or Disabled | Disabled |
| External Alarm Type | Call Ind, 1 Pulse, 3 Pulse | Call Ind |
| Radio Operation | Normal, Test Unit, Stand Alone, CC Mon | Normal |
| Test Unit System | pre-defined system name in the current personality | blank |
| Data Only Radio | Yes or No | No |
| Data Host Radio | Yes or No | No |
| Queued Message Beep | 0 - 510 milliseconds | blank |
| Conventional Msg Beep | Yes or No | Yes |

TQ-3346

| Input Field | Acceptable Values | Default Value |
|--------------------|--------------------------|----------------------|
|--------------------|--------------------------|----------------------|

User Control Options

| | | |
|-------------------------|----------------------------|---------|
| Radio Alert Tones | Single or Continuous | Single |
| Audible Range Alert | Enable or Disable | Disable |
| Power Up Tone | Enable or Disable | Disable |
| Tone On Working Channel | Enable or Disable | Enable |
| Base Mobile Operation | Enable or Disable | Disable |
| Rx Call Alert Tones | Enable or Disable | Disable |
| Display ICON Location | Left or Right | Left |
| Display Delimiter | any alphanumeric character | * |

Scan Options

| | | |
|-----------------|-------------------------------|----------|
| Scan TX Select | Selected or Autoselect | Selected |
| Scan after TX | Active or Off | Active |
| Hang Delay | 0 to 15.5 in.5 sec increments | 2.00 |
| Home Group Scan | Auto or Decoded | Decoded |

Desk Top Options

| | | |
|--------------|------------------------------------------------------------------------------------------------|-------|
| System | must match one of the first 16 pre-defined system names in the current personality | blank |
| Group | must match one of the first 16 pre-defined group names corresponding to the above named system | blank |
| Fixed Volume | Yes or No | No |

| Input Field | Acceptable Values | Default Value |
|-----------------------------------|---------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|
| Status Keypad Definitions | | |
| Name | Any eight character valid display name. | blank |
| ID | 0 to 128 | blank |
| Message Keypad Definitions | | |
| Name | Any eight character valid display name. | blank |
| ID | 0 to 128 | blank |
| Wide Area Scan | | |
| CC Loop Count | 2, 6, 10, 15 | 2 |
| Prior. Wide Scan Timer | 1.1, 2.2, 3.3, 4.3 | 4.3 |
| Wide area Scan | -- On --, -- Off --, -- Pri --, -- N/A -- | either ----- when no choice, -- Off - system eliminated, or -- N/A - conventional system |
| Program Radio Window | | |
| Selected Filename | Any eight character alphabetic valid DOS file name that corresponds to a currently defined personality. | The high-lighted name in the current personalities screen. |
| Unit Type | MTD | MTD |

TQ-3346

| Input Field | Acceptable Values | Default Value |
|-------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|
| Program Radio/Logical ID | | |
| Logical ID | 0 - 16382 | blank |
| Filename | Any eight character alphabetic valid DOS file name that corresponds to a currently defined personality. | The selected name in the Program Radio Window Filename field. |
| Read Radio into the File | | |
| Enter Filename | Valid DOS file name | blank |
| Unit Type | MTD | MTD |
| Current PersonalitiesUtilityWindow Communications Port Setup | | |
| COMM Port | 1 or 2 | 1 |
| Environment Settings | | |
| Free Space Calculation | Enabled or Disabled | Enabled |
| Print Personality | | |
| Current Directory | valid directory | last directory specified |
| Personality | any valid personality | last personality specified |
| Reports | Brief or Full | Brief |
| Output to | Printer, Screen, or File | Printer |
| File Name | any valid file name | last file name specified |
| Printer | 1, 2, 3, or 4 | 1 |

APPENDIX D

PRIMARY & EQUIVALENT DIGITAL CODES

| PRIM. CODE | EQUIVALENT CODE | PRIM. CODE | EQUIVALENT CODE | PRIM. CODE | EQUIVALENT CODE |
|---------------|--------------------|---------------|--------------------|---------------|--------------------|
| 023 | 340,766 | 133 | 413,620 | 237 | 464,642,772 |
| 025 | | 134 | 273 | 243 | 267,342 |
| 026 | 566 | 135 | 205,610 | 245 | 370,554 |
| 031 | 374,643 | 136 | 502,712 | 246 | 542,653 |
| 032 | | 142 | 174,270 | 252 | 661 |
| 036 | 137 | 143 | 333 | 254 | 314,612,706 |
| 037 | 560,627 | 144 | 466,666 | 255 | 425 |
| 043 | 355 | 145 | 525 | 262 | 316,431,730 |
| 047 | 375,707 | 147 | 303,306,761 | 266 | 655 |
| 051 | 520,771 | 150 | 256,703 | 271 | 427,510,762 |
| 053 | | 152 | 366,415 | 274 | 652 |
| 054 | 405,675 | 153 | 606,630 | 276 | 326,432 |
| 056 | 465,656 | 155 | 233,660 | 307 | 362,565 |
| 060 | 116,737 | 156 | 517,741 | 311 | 330,456,561 |
| 065 | 301 | 157 | 322,503 | 312 | 515,663,743 |
| 066 | 734 | 161 | 345,532 | 315 | 321,673 |
| 067 | 516,720 | 162 | 416 | 317 | 546,614,751 |
| 071 | 603,717,746 | 163 | 460,607,654 | 324 | 343,570 |
| 072 | 470,701 | 164 | 207,732 | 325 | 550,626 |
| 073 | 640 | 165 | 354 | 331 | 372,507 |
| 074 | 360,721 | 171 | 265,426 | 332 | 433,552 |
| 075 | 501,624 | 176 | 244,417 | 344 | 471,664,715 |
| 076 | 203,754 | 212 | 253 | 346 | 616,635,724 |
| 104 | 226,557 | 213 | 263,736 | 351 | 353,435 |
| 107 | 365 | 217 | 371,453,530 | 356 | 521 |
| 114 | 327,615 | 222 | 445,457,575 | 363 | 436,443,444,662 |
| 115 | 534,674 | 223 | 350,475,750 | 446 | 467,511,672 |
| 117 | 411,756 | 224 | 313,506,574 | 447 | 473,474,731,744 |
| 122 | 535 | 225 | 536 | 452 | 524,765 |
| 123 | 632,657 | 227 | 261,567 | 454 | 513,545,564 |
| 125 | 173 | 231 | 504,631,636,745 | 455 | 533,551 |
| 127 | 412,441,711 | 234 | 423,563,621,713 | 462 | 472,623,725 |
| 130 | 364,641 | 235 | 611,671,723 | 523 | 647,726 |
| 131 | 572,702 | 236 | 251,704,742 | 526 | 562,645 |
| 132 | 605,634,714 | | | | |

This page intentionally left blank

APPENDIX E**CHANNEL GUARD TONE FREQUENCIES**

| STANDARD TONE FREQUENCIES (Hz) | | | | |
|---------------------------------------|-------|-------|-------|-------|
| 67.0 | 88.5 | 107.2 | 131.8 | 167.9 |
| 71.9 | 91.5 | 110.9 | 136.5 | 173.8 |
| 74.4 | 94.8 | 114.8 | 141.3 | 179.9 |
| 77.0 | 97.4 | 118.8 | 146.2 | 186.2 |
| 79.7 | 100.0 | 123.0 | 151.4 | 192.8 |
| 82.5 | 103.5 | 127.3 | 156.7 | 203.5 |
| 85.4 | | | 162.2 | 210.7 |

This page intentionally left blank

APPENDIX F

CHANNEL ENTRY NUMBERS

FREQUENCY RANGE 806-870 MHz

Page 1 of 10

| Tx FCC Channel | Trans. Freq. | Tx FCC Channel | Trans. Freq. | Tx FCC Channel | Trans. Freq. | Tx FCC Channel | Trans. Freq. |
|----------------------|-----------------|----------------------|-----------------|----------------------|-----------------|----------------------|-----------------|
| 1 | 806.0125 | 41 | 806.5125 | 81 | 807.0125 | 121 | 807.5125 |
| 2 | 806.0250 | 42 | 806.5250 | 82 | 807.0250 | 122 | 807.5250 |
| 3 | 806.0375 | 43 | 806.5375 | 83 | 807.0375 | 123 | 807.5375 |
| 4 | 806.0500 | 44 | 806.5500 | 84 | 807.0500 | 124 | 807.5500 |
| 5 | 806.0625 | 45 | 806.5625 | 85 | 807.0625 | 125 | 807.5625 |
| 6 | 806.0750 | 46 | 806.5750 | 86 | 807.0750 | 126 | 807.5750 |
| 7 | 806.0875 | 47 | 806.5875 | 87 | 807.0875 | 127 | 807.5875 |
| 8 | 806.1000 | 48 | 806.6000 | 88 | 807.1000 | 128 | 807.6000 |
| 9 | 806.1125 | 49 | 806.6125 | 89 | 807.1125 | 129 | 807.6125 |
| 10 | 806.1250 | 50 | 806.6250 | 90 | 807.1250 | 130 | 807.6250 |
| 11 | 806.1375 | 51 | 806.6375 | 91 | 807.1375 | 131 | 807.6375 |
| 12 | 806.1500 | 52 | 806.6500 | 92 | 807.1500 | 132 | 807.6500 |
| 13 | 806.1625 | 53 | 806.6625 | 93 | 807.1625 | 133 | 807.6625 |
| 14 | 806.1750 | 54 | 806.6750 | 94 | 807.1750 | 134 | 807.6750 |
| 15 | 806.1875 | 55 | 806.6875 | 95 | 807.1875 | 135 | 807.6875 |
| 16 | 806.2000 | 56 | 806.7000 | 96 | 807.2000 | 136 | 807.7000 |
| 17 | 806.2125 | 57 | 806.7125 | 97 | 807.2125 | 137 | 807.7125 |
| 18 | 806.2250 | 58 | 806.7250 | 98 | 807.2250 | 138 | 807.7250 |
| 19 | 806.2375 | 59 | 806.7375 | 99 | 807.2375 | 139 | 807.7375 |
| 20 | 806.2500 | 60 | 806.7500 | 100 | 807.2500 | 140 | 807.7500 |
| 21 | 806.2625 | 61 | 806.7625 | 101 | 807.2625 | 141 | 807.7625 |
| 22 | 806.2750 | 62 | 806.7750 | 102 | 807.2750 | 142 | 807.7750 |
| 23 | 806.2875 | 63 | 806.7875 | 103 | 807.2875 | 143 | 807.7875 |
| 24 | 806.3000 | 64 | 806.8000 | 104 | 807.3000 | 144 | 807.8000 |
| 25 | 806.3125 | 65 | 806.8125 | 105 | 807.3125 | 145 | 807.8125 |
| 26 | 806.3250 | 66 | 806.8250 | 106 | 807.3250 | 146 | 807.8250 |
| 27 | 806.3375 | 67 | 806.8375 | 107 | 807.3375 | 147 | 807.8375 |
| 28 | 806.3500 | 68 | 806.8500 | 108 | 807.3500 | 148 | 807.8500 |
| 29 | 806.3625 | 69 | 806.8625 | 109 | 807.3625 | 149 | 807.8625 |
| 30 | 806.3750 | 70 | 806.8750 | 110 | 807.3750 | 150 | 807.8750 |
| 31 | 806.3875 | 71 | 806.8875 | 111 | 807.3875 | 151 | 807.8875 |
| 32 | 806.4000 | 72 | 806.9000 | 112 | 807.4000 | 152 | 807.9000 |
| 33 | 806.4125 | 73 | 806.9125 | 113 | 807.4125 | 153 | 807.9125 |
| 34 | 806.4250 | 74 | 806.9250 | 114 | 807.4250 | 154 | 807.9250 |
| 35 | 806.4375 | 75 | 806.9375 | 115 | 807.4375 | 155 | 807.9375 |
| 36 | 806.4500 | 76 | 806.9500 | 116 | 807.4500 | 156 | 807.9500 |
| 37 | 806.4625 | 77 | 806.9625 | 117 | 807.4625 | 157 | 807.9625 |
| 38 | 806.4750 | 78 | 806.9750 | 118 | 807.4750 | 158 | 807.9750 |
| 39 | 806.4875 | 79 | 806.9875 | 119 | 807.4875 | 159 | 807.9875 |
| 40 | 806.5000 | 80 | 807.0000 | 120 | 807.5000 | 160 | 808.0000 |

APPENDIX F

CHANNEL ENTRY NUMBERS

FREQUENCY RANGE 806-870 MHz

Page 2 of 10

| Tx FCC Channel | Trans. Freq. | Tx FCC Channel | Trans. Freq. | Tx FCC Channel | Trans. Freq. | Tx FCC Channel | Trans. Freq. |
|----------------------|-----------------|----------------------|-----------------|----------------------|-----------------|----------------------|-----------------|
| 161 | 808.0125 | 201 | 808.5125 | 241 | 809.0125 | 281 | 809.5125 |
| 162 | 808.0250 | 202 | 808.5250 | 242 | 809.0250 | 282 | 809.5250 |
| 163 | 808.0375 | 203 | 808.5375 | 243 | 809.0375 | 283 | 809.5375 |
| 164 | 808.0500 | 204 | 808.5500 | 244 | 809.0500 | 284 | 809.5500 |
| 165 | 808.0625 | 205 | 808.5625 | 245 | 809.0625 | 285 | 809.5625 |
| 166 | 808.0750 | 206 | 808.5750 | 246 | 809.0750 | 286 | 809.5750 |
| 167 | 808.0875 | 207 | 808.5875 | 247 | 809.0875 | 287 | 809.5875 |
| 168 | 808.1000 | 208 | 808.6000 | 248 | 809.1000 | 288 | 809.6000 |
| 169 | 808.1125 | 209 | 808.6125 | 249 | 809.1125 | 289 | 809.6125 |
| 170 | 808.1250 | 210 | 808.6250 | 250 | 809.1250 | 290 | 809.6250 |
| 171 | 808.1375 | 211 | 808.6375 | 251 | 809.1375 | 291 | 809.6375 |
| 172 | 808.1500 | 212 | 808.6500 | 252 | 809.1500 | 292 | 809.6500 |
| 173 | 808.1625 | 213 | 808.6625 | 253 | 809.1625 | 293 | 809.6625 |
| 174 | 808.1750 | 214 | 808.6750 | 254 | 809.1750 | 294 | 809.6750 |
| 175 | 808.1875 | 215 | 808.6875 | 255 | 809.1875 | 295 | 809.6875 |
| 176 | 808.2000 | 216 | 808.7000 | 256 | 809.2000 | 296 | 809.7000 |
| 177 | 808.2125 | 217 | 808.7125 | 257 | 809.2125 | 297 | 809.7125 |
| 178 | 808.2250 | 218 | 808.7250 | 258 | 809.2250 | 298 | 809.7250 |
| 179 | 808.2375 | 219 | 808.7375 | 259 | 809.2375 | 299 | 809.7375 |
| 180 | 808.2500 | 220 | 808.7500 | 260 | 809.2500 | 300 | 809.7500 |
| 181 | 808.2625 | 221 | 808.7625 | 261 | 809.2625 | 301 | 809.7625 |
| 182 | 808.2750 | 222 | 808.7750 | 262 | 809.2750 | 302 | 809.7750 |
| 183 | 808.2875 | 223 | 808.7875 | 263 | 809.2875 | 303 | 809.7875 |
| 184 | 808.3000 | 224 | 808.8000 | 264 | 809.3000 | 304 | 809.8000 |
| 185 | 808.3125 | 225 | 808.8125 | 265 | 809.3125 | 305 | 809.8125 |
| 186 | 808.3250 | 226 | 808.8250 | 266 | 809.3250 | 306 | 809.8250 |
| 187 | 808.3375 | 227 | 808.8375 | 267 | 809.3375 | 307 | 809.8375 |
| 188 | 808.3500 | 228 | 808.8500 | 268 | 809.3500 | 308 | 809.8500 |
| 189 | 808.3625 | 229 | 808.8625 | 269 | 809.3625 | 309 | 809.8625 |
| 190 | 808.3750 | 230 | 808.8750 | 270 | 809.3750 | 310 | 809.8750 |
| 191 | 808.3875 | 231 | 808.8875 | 271 | 809.3875 | 311 | 809.8875 |
| 192 | 808.4000 | 232 | 808.9000 | 272 | 809.4000 | 312 | 809.9000 |
| 193 | 808.4125 | 233 | 808.9125 | 273 | 809.4125 | 313 | 809.9125 |
| 194 | 808.4250 | 234 | 808.9250 | 274 | 809.4250 | 314 | 809.9250 |
| 195 | 808.4375 | 235 | 808.9375 | 275 | 809.4375 | 315 | 809.9375 |
| 196 | 808.4500 | 235 | 808.9500 | 276 | 809.4500 | 316 | 809.9500 |
| 197 | 808.4625 | 237 | 808.9625 | 277 | 809.4625 | 317 | 809.9625 |
| 198 | 808.4750 | 238 | 808.9750 | 278 | 809.4750 | 318 | 809.9750 |
| 199 | 808.4875 | 239 | 808.9875 | 279 | 809.4875 | 319 | 809.9875 |
| 200 | 808.5000 | 240 | 809.0000 | 280 | 809.5000 | 320 | 810.0000 |

APPENDIX F

CHANNEL ENTRY NUMBERS

FREQUENCY RANGE 806-870 MHz

Page 3 of 10

| Tx FCC Channel | Trans. Freq. | Tx FCC Channel | Trans. Freq. | Tx FCC Channel | Trans. Freq. | Tx FCC Channel | Trans. Freq. |
|----------------------|-----------------|----------------------|-----------------|----------------------|-----------------|----------------------|-----------------|
| 321 | 810.0125 | 361 | 810.5125 | 401 | 811.0125 | 441 | 811.5125 |
| 322 | 810.0250 | 362 | 810.5250 | 402 | 811.0250 | 442 | 811.5250 |
| 323 | 810.0375 | 363 | 810.5375 | 403 | 811.0375 | 443 | 811.5375 |
| 324 | 810.0500 | 364 | 810.5500 | 404 | 811.0500 | 444 | 811.5500 |
| 325 | 810.0625 | 365 | 810.5625 | 405 | 811.0625 | 445 | 811.5625 |
| 326 | 810.0750 | 366 | 810.5750 | 406 | 811.0750 | 446 | 811.5750 |
| 327 | 810.0875 | 367 | 810.5875 | 407 | 811.0875 | 447 | 811.5875 |
| 328 | 810.1000 | 368 | 810.6000 | 408 | 811.1000 | 448 | 811.6000 |
| 329 | 810.1125 | 369 | 810.6125 | 409 | 811.1125 | 449 | 811.6125 |
| 330 | 810.1250 | 370 | 810.6250 | 410 | 811.1250 | 450 | 811.6250 |
| 331 | 810.1375 | 371 | 810.6375 | 411 | 811.1375 | 451 | 811.6375 |
| 332 | 810.1500 | 372 | 810.6500 | 412 | 811.1500 | 452 | 811.6500 |
| 333 | 810.1625 | 373 | 810.6625 | 413 | 811.1625 | 453 | 811.6625 |
| 334 | 810.1750 | 374 | 810.6750 | 414 | 811.1750 | 454 | 811.6750 |
| 335 | 810.1875 | 375 | 810.6875 | 415 | 811.1875 | 455 | 811.6875 |
| 336 | 810.2000 | 376 | 810.7000 | 416 | 811.2000 | 456 | 811.7000 |
| 337 | 810.2125 | 377 | 810.7125 | 417 | 811.2125 | 457 | 811.7125 |
| 338 | 810.2250 | 378 | 810.7250 | 418 | 811.2250 | 458 | 811.7250 |
| 339 | 810.2375 | 379 | 810.7375 | 419 | 811.2375 | 459 | 811.7375 |
| 340 | 810.2500 | 380 | 810.7500 | 420 | 811.2500 | 460 | 811.7500 |
| 341 | 810.2625 | 381 | 810.7625 | 421 | 811.2625 | 461 | 811.7625 |
| 342 | 810.2750 | 382 | 810.7750 | 422 | 811.2750 | 462 | 811.7750 |
| 343 | 810.2875 | 383 | 810.7875 | 423 | 811.2875 | 463 | 811.7875 |
| 344 | 810.3000 | 384 | 810.8000 | 424 | 811.3000 | 464 | 811.8000 |
| 345 | 810.3125 | 385 | 810.8125 | 425 | 811.3125 | 465 | 811.8125 |
| 346 | 810.3250 | 386 | 810.8250 | 426 | 811.3250 | 466 | 811.8250 |
| 347 | 810.3375 | 387 | 810.8375 | 427 | 811.3375 | 467 | 811.8375 |
| 348 | 810.3500 | 388 | 810.8500 | 428 | 811.3500 | 468 | 811.8500 |
| 349 | 810.3625 | 389 | 810.8625 | 429 | 811.3625 | 469 | 811.8625 |
| 350 | 810.3750 | 390 | 810.8750 | 430 | 811.3750 | 470 | 811.8750 |
| 351 | 810.3875 | 391 | 810.8875 | 431 | 811.3875 | 471 | 811.8875 |
| 352 | 810.4000 | 392 | 810.9000 | 432 | 811.4000 | 472 | 811.9000 |
| 353 | 810.4125 | 393 | 810.9125 | 433 | 811.4125 | 473 | 811.9125 |
| 354 | 810.4250 | 394 | 810.9250 | 434 | 811.4250 | 474 | 811.9250 |
| 355 | 810.4375 | 395 | 810.9375 | 435 | 811.4375 | 475 | 811.9375 |
| 356 | 810.4500 | 396 | 810.9500 | 436 | 811.4500 | 476 | 811.9500 |
| 357 | 810.4625 | 397 | 810.9625 | 437 | 811.4625 | 477 | 811.9625 |
| 358 | 810.4750 | 398 | 810.9750 | 438 | 811.4750 | 478 | 811.9750 |
| 359 | 810.4875 | 399 | 810.9875 | 439 | 811.4875 | 479 | 811.9875 |
| 360 | 810.5000 | 400 | 811.0000 | 440 | 811.5000 | 480 | 812.0000 |

APPENDIX F

CHANNEL ENTRY NUMBERS

FREQUENCY RANGE 806-870 MHz

Page 4 of 10

| Tx FCC Channel | Trans. Freq. | Tx FCC Channel | Trans. Freq. | Tx FCC Channel | Trans. Freq. | Tx FCC Channel | Trans. Freq. |
|----------------------|-----------------|----------------------|-----------------|----------------------|-----------------|----------------------|-----------------|
| 481 | 812.0125 | 521 | 812.5125 | 561 | 813.0125 | 601 | 813.5125 |
| 482 | 812.0250 | 522 | 812.5250 | 562 | 813.0250 | 602 | 813.5250 |
| 483 | 812.0375 | 523 | 812.5375 | 563 | 813.0375 | 603 | 813.5375 |
| 484 | 812.0500 | 524 | 812.5500 | 564 | 813.0500 | 604 | 813.5500 |
| 485 | 812.0625 | 525 | 812.5625 | 565 | 813.0625 | 605 | 813.5625 |
| 486 | 812.0750 | 526 | 812.5750 | 566 | 813.0750 | 606 | 813.5750 |
| 487 | 812.0875 | 527 | 812.5875 | 567 | 813.0875 | 607 | 813.5875 |
| 488 | 812.1000 | 528 | 812.6000 | 568 | 813.1000 | 608 | 813.6000 |
| 489 | 812.1125 | 529 | 812.6125 | 569 | 813.1125 | 609 | 813.6125 |
| 490 | 812.1250 | 530 | 812.6250 | 570 | 813.1250 | 610 | 813.6250 |
| 491 | 812.1375 | 531 | 812.6375 | 571 | 813.1375 | 611 | 813.6375 |
| 492 | 812.1500 | 532 | 812.6500 | 572 | 813.1500 | 612 | 813.6500 |
| 493 | 812.1625 | 533 | 812.6625 | 573 | 813.1625 | 613 | 813.6625 |
| 494 | 812.1750 | 534 | 812.6750 | 574 | 813.1750 | 614 | 813.6750 |
| 495 | 812.1875 | 535 | 812.6875 | 575 | 813.1875 | 615 | 813.6875 |
| 496 | 812.2000 | 536 | 812.7000 | 576 | 813.2000 | 616 | 813.7000 |
| 497 | 812.2125 | 537 | 812.7125 | 577 | 813.2125 | 617 | 813.7125 |
| 498 | 812.2250 | 538 | 812.7250 | 578 | 813.2250 | 618 | 813.7250 |
| 499 | 812.2375 | 539 | 812.7375 | 579 | 813.2375 | 619 | 813.7375 |
| 500 | 812.2500 | 540 | 812.7500 | 580 | 813.2500 | 620 | 813.7500 |
| 501 | 812.2625 | 541 | 812.7625 | 581 | 813.2625 | 621 | 813.7625 |
| 502 | 812.2750 | 542 | 812.7750 | 582 | 813.2750 | 622 | 813.7750 |
| 503 | 812.2875 | 543 | 812.7875 | 583 | 813.2875 | 623 | 813.7875 |
| 504 | 812.3000 | 544 | 812.8000 | 584 | 813.3000 | 624 | 813.8000 |
| 505 | 812.3125 | 545 | 812.8125 | 585 | 813.3125 | 625 | 813.8125 |
| 506 | 812.3250 | 546 | 812.8250 | 586 | 813.3250 | 626 | 813.8250 |
| 507 | 812.3375 | 547 | 812.8375 | 587 | 813.3375 | 627 | 813.8375 |
| 508 | 812.3500 | 548 | 812.8500 | 588 | 813.3500 | 628 | 813.8500 |
| 509 | 812.3625 | 549 | 812.8625 | 589 | 813.3625 | 629 | 813.8625 |
| 510 | 812.3750 | 550 | 812.8750 | 590 | 813.3750 | 630 | 813.8750 |
| 511 | 812.3875 | 551 | 812.8875 | 591 | 811.3875 | 631 | 813.8875 |
| 512 | 812.4000 | 552 | 812.9000 | 592 | 811.4000 | 632 | 813.9000 |
| 513 | 812.4125 | 553 | 812.9125 | 593 | 811.4125 | 633 | 813.9125 |
| 514 | 812.4250 | 554 | 812.9250 | 594 | 811.4250 | 634 | 813.9250 |
| 515 | 812.4375 | 555 | 812.9375 | 595 | 811.4375 | 635 | 813.9375 |
| 516 | 812.4500 | 556 | 812.9500 | 596 | 811.4500 | 636 | 813.9500 |
| 517 | 812.4625 | 557 | 812.9625 | 597 | 811.4625 | 637 | 813.9625 |
| 518 | 812.4750 | 558 | 812.9750 | 598 | 811.4750 | 638 | 813.9750 |
| 519 | 812.4875 | 559 | 812.9875 | 599 | 811.4875 | 639 | 813.9875 |
| 520 | 812.5000 | 560 | 813.0000 | 600 | 811.5000 | 640 | 814.0000 |

APPENDIX F

CHANNEL ENTRY NUMBERS

FREQUENCY RANGE 806-870 MHz

Page 5 of 10

| Tx FCC Channel | Trans. Freq. | Tx FCC Channel | Trans. Freq. | Tx FCC Channel | Trans. Freq. | Tx FCC Channel | Trans. Freq. |
|----------------------|-----------------|----------------------|-----------------|----------------------|-----------------|----------------------|-----------------|
| 641 | 812.0125 | 681 | 812.5125 | 721 | 813.0125 | 761 | 813.5125 |
| 642 | 812.0250 | 682 | 812.5250 | 722 | 813.0250 | 762 | 813.5250 |
| 643 | 812.0375 | 683 | 812.5375 | 723 | 813.0375 | 763 | 813.5375 |
| 644 | 812.0500 | 684 | 812.5500 | 724 | 813.0500 | 764 | 813.5500 |
| 645 | 812.0625 | 685 | 812.5625 | 725 | 813.0625 | 765 | 813.5625 |
| 646 | 812.0750 | 686 | 812.5750 | 726 | 813.0750 | 766 | 813.5750 |
| 647 | 812.0875 | 687 | 812.5875 | 727 | 813.0875 | 767 | 813.5875 |
| 648 | 812.1000 | 688 | 812.6000 | 728 | 813.1000 | 768 | 813.6000 |
| 649 | 812.1125 | 689 | 812.6125 | 729 | 813.1125 | 769 | 813.6125 |
| 650 | 812.1250 | 690 | 812.6250 | 730 | 813.1250 | 770 | 813.6250 |
| 651 | 812.1375 | 691 | 812.6375 | 731 | 813.1375 | 771 | 813.6375 |
| 652 | 812.1500 | 692 | 812.6500 | 732 | 813.1500 | 772 | 813.6500 |
| 653 | 812.1625 | 693 | 812.6625 | 733 | 813.1625 | 773 | 813.6625 |
| 654 | 812.1750 | 694 | 812.6750 | 734 | 813.1750 | 774 | 813.6750 |
| 655 | 812.1875 | 695 | 812.6875 | 735 | 813.1875 | 775 | 813.6875 |
| 656 | 812.2000 | 696 | 812.7000 | 736 | 813.2000 | 776 | 813.7000 |
| 657 | 812.2125 | 697 | 812.7125 | 737 | 813.2125 | 777 | 813.7125 |
| 658 | 812.2250 | 698 | 812.7250 | 738 | 813.2250 | 778 | 813.7250 |
| 659 | 812.2375 | 699 | 812.7375 | 739 | 813.2375 | 779 | 813.7375 |
| 660 | 812.2500 | 700 | 812.7500 | 740 | 813.2500 | 780 | 813.7500 |
| 661 | 812.2625 | 701 | 812.7625 | 741 | 813.2625 | 781 | 813.7625 |
| 662 | 812.2750 | 702 | 812.7750 | 742 | 813.2750 | 782 | 813.7750 |
| 663 | 812.2875 | 703 | 812.7875 | 743 | 813.2875 | 783 | 813.7875 |
| 664 | 812.3000 | 704 | 812.8000 | 744 | 813.3000 | 784 | 813.8000 |
| 665 | 812.3125 | 705 | 812.8125 | 745 | 813.3125 | 785 | 813.8125 |
| 666 | 812.3250 | 706 | 812.8250 | 746 | 813.3250 | 786 | 813.8250 |
| 667 | 812.3375 | 707 | 812.8375 | 747 | 813.3375 | 787 | 813.8375 |
| 668 | 812.3500 | 708 | 812.8500 | 748 | 813.3500 | 788 | 813.8500 |
| 669 | 812.3625 | 709 | 812.8625 | 749 | 813.3625 | 789 | 813.8625 |
| 670 | 812.3750 | 710 | 812.8750 | 750 | 813.3750 | 790 | 813.8750 |
| 671 | 812.3875 | 711 | 812.8875 | 751 | 813.3875 | 791 | 813.8875 |
| 672 | 812.4000 | 712 | 812.9000 | 752 | 813.4000 | 792 | 813.9000 |
| 673 | 812.4125 | 713 | 812.9125 | 753 | 813.4125 | 793 | 813.9125 |
| 674 | 812.4250 | 714 | 812.9250 | 754 | 813.4250 | 794 | 813.9250 |
| 675 | 812.4375 | 715 | 812.9375 | 755 | 813.4375 | 795 | 813.9375 |
| 676 | 812.4500 | 716 | 812.9500 | 756 | 813.4500 | 796 | 813.9500 |
| 677 | 812.4625 | 717 | 812.9625 | 757 | 813.4625 | 797 | 813.9625 |
| 678 | 812.4750 | 718 | 812.9750 | 758 | 813.4750 | 798 | 813.9750 |
| 679 | 812.4875 | 719 | 812.9875 | 759 | 813.4875 | 799 | 813.9875 |
| 680 | 812.5000 | 720 | 813.0000 | 760 | 813.5000 | 800 | 814.0000 |

APPENDIX F

CHANNEL ENTRY NUMBERS

FREQUENCY RANGE 806-870 MHz

Page 6 of 10

| Tx FCC Channel | Trans. Freq. | Tx FCC Channel | Trans. Freq. | Tx FCC Channel | Trans. Freq. | Tx FCC Channel | Trans. Freq. |
|----------------------|-----------------|----------------------|-----------------|----------------------|-----------------|----------------------|-----------------|
| 801 | 816.0125 | 841 | 816.5125 | 881 | 817.0125 | 921 | 817.5125 |
| 802 | 816.0250 | 842 | 816.5250 | 882 | 817.0250 | 922 | 817.5250 |
| 803 | 816.0375 | 843 | 816.5375 | 883 | 817.0375 | 923 | 817.5375 |
| 804 | 816.0500 | 844 | 816.5500 | 884 | 817.0500 | 924 | 817.5500 |
| 805 | 816.0625 | 845 | 816.5625 | 885 | 817.0625 | 925 | 817.5625 |
| 806 | 816.0750 | 846 | 816.5750 | 886 | 817.0750 | 926 | 817.5750 |
| 807 | 816.0875 | 847 | 816.5875 | 887 | 817.0875 | 927 | 817.5875 |
| 808 | 816.1000 | 848 | 816.6000 | 888 | 817.1000 | 928 | 817.6000 |
| 809 | 816.1125 | 849 | 816.6125 | 889 | 817.1125 | 929 | 817.6125 |
| 810 | 816.1250 | 850 | 816.6250 | 890 | 817.1250 | 930 | 817.6250 |
| 811 | 816.1375 | 851 | 816.6375 | 891 | 817.1375 | 931 | 817.6375 |
| 812 | 816.1500 | 852 | 816.6500 | 892 | 817.1500 | 932 | 817.6500 |
| 813 | 816.1625 | 853 | 816.6625 | 893 | 817.1625 | 933 | 817.6625 |
| 814 | 816.1750 | 854 | 816.6750 | 894 | 817.1750 | 934 | 817.6750 |
| 815 | 816.1875 | 855 | 816.6875 | 895 | 817.1875 | 935 | 817.6875 |
| 816 | 816.2000 | 856 | 816.7000 | 896 | 817.2000 | 936 | 817.7000 |
| 817 | 816.2125 | 857 | 816.7125 | 897 | 817.2125 | 937 | 817.7125 |
| 818 | 816.2250 | 858 | 816.7250 | 898 | 817.2250 | 938 | 817.7250 |
| 819 | 816.2375 | 859 | 816.7375 | 899 | 817.2375 | 939 | 817.7375 |
| 820 | 816.2500 | 860 | 816.7500 | 900 | 817.2500 | 940 | 817.7500 |
| 821 | 816.2625 | 861 | 816.7625 | 901 | 817.2625 | 941 | 817.7625 |
| 822 | 816.2750 | 862 | 816.7750 | 902 | 817.2750 | 942 | 817.7750 |
| 823 | 816.2875 | 863 | 816.7875 | 903 | 817.2875 | 943 | 817.7875 |
| 824 | 816.3000 | 864 | 816.8000 | 904 | 817.3000 | 944 | 817.8000 |
| 825 | 816.3125 | 865 | 816.8125 | 905 | 817.3125 | 945 | 817.8125 |
| 826 | 816.3250 | 866 | 816.8250 | 906 | 817.3250 | 946 | 817.8250 |
| 827 | 816.3375 | 867 | 816.8375 | 907 | 817.3375 | 947 | 817.8375 |
| 828 | 816.3500 | 868 | 816.8500 | 908 | 817.3500 | 948 | 817.8500 |
| 829 | 816.3625 | 869 | 816.8625 | 909 | 817.3625 | 949 | 817.8625 |
| 830 | 816.3750 | 870 | 816.8750 | 910 | 817.3750 | 950 | 817.8750 |
| 831 | 816.3875 | 871 | 816.8875 | 911 | 817.3875 | 951 | 817.8875 |
| 832 | 816.4000 | 872 | 816.9000 | 912 | 817.4000 | 952 | 817.9000 |
| 833 | 816.4125 | 873 | 816.9125 | 913 | 817.4125 | 953 | 817.9125 |
| 834 | 816.4250 | 874 | 816.9250 | 914 | 817.4250 | 954 | 817.9250 |
| 835 | 816.4375 | 875 | 816.9375 | 915 | 817.4375 | 955 | 817.9375 |
| 836 | 816.4500 | 876 | 816.9500 | 916 | 817.4500 | 956 | 817.9500 |
| 837 | 816.4625 | 877 | 816.9625 | 917 | 817.4625 | 957 | 817.9625 |
| 838 | 816.4750 | 878 | 816.9750 | 918 | 817.4750 | 958 | 817.9750 |
| 839 | 816.4875 | 879 | 816.9875 | 919 | 817.4875 | 959 | 817.9875 |
| 840 | 816.5000 | 880 | 817.0000 | 920 | 817.5000 | 960 | 818.0000 |

APPENDIX F

CHANNEL ENTRY NUMBERS

FREQUENCY RANGE 806-870 MHz

Page 7 of 10

| Tx FCC Channel | Trans. Freq. | Tx FCC Channel | Trans. Freq. | Tx FCC Channel | Trans. Freq. | Tx FCC Channel | Trans. Freq. |
|----------------------|-----------------|----------------------|-----------------|----------------------|-----------------|----------------------|-----------------|
| 961 | 818.0125 | 1001 | 818.5125 | 1041 | 819.0125 | 1081 | 819.5125 |
| 962 | 818.0250 | 1002 | 818.5250 | 1042 | 819.0250 | 1082 | 819.5250 |
| 963 | 818.0375 | 1003 | 818.5375 | 1043 | 819.0375 | 1083 | 819.5375 |
| 964 | 818.0500 | 1004 | 818.5500 | 1044 | 819.0500 | 1084 | 819.5500 |
| 965 | 818.0625 | 1005 | 818.5625 | 1045 | 819.0625 | 1085 | 819.5625 |
| 966 | 818.0750 | 1006 | 818.5750 | 1046 | 819.0750 | 1086 | 819.5750 |
| 967 | 818.0875 | 1007 | 818.5875 | 1047 | 819.0875 | 1087 | 819.5875 |
| 968 | 818.1000 | 1008 | 818.6000 | 1048 | 819.1000 | 1088 | 819.6000 |
| 969 | 818.1125 | 1009 | 818.6125 | 1049 | 819.1125 | 1089 | 819.6125 |
| 970 | 818.1250 | 1010 | 818.6250 | 1050 | 819.1250 | 1090 | 819.6250 |
| 971 | 818.1375 | 1011 | 818.6375 | 1051 | 819.1375 | 1091 | 819.6375 |
| 972 | 818.1500 | 1012 | 818.6500 | 1052 | 819.1500 | 1092 | 819.6500 |
| 973 | 818.1625 | 1013 | 818.6625 | 1053 | 819.1625 | 1093 | 819.6625 |
| 974 | 818.1750 | 1014 | 818.6750 | 1054 | 819.1750 | 1094 | 819.6750 |
| 975 | 818.1875 | 1015 | 818.6875 | 1055 | 819.1875 | 1095 | 819.6875 |
| 976 | 818.2000 | 1016 | 818.7000 | 1056 | 819.2000 | 1096 | 819.7000 |
| 977 | 818.2125 | 1017 | 818.7125 | 1057 | 819.2125 | 1097 | 819.7125 |
| 978 | 818.2250 | 1018 | 818.7250 | 1058 | 819.2250 | 1098 | 819.7250 |
| 979 | 818.2375 | 1019 | 818.7375 | 1059 | 819.2375 | 1099 | 819.7375 |
| 980 | 818.2500 | 1020 | 818.7500 | 1060 | 819.2500 | 1100 | 819.7500 |
| 981 | 818.2625 | 1021 | 818.7625 | 1061 | 819.2625 | 1101 | 819.7625 |
| 982 | 818.2750 | 1022 | 818.7750 | 1062 | 819.2750 | 1102 | 819.7750 |
| 983 | 818.2875 | 1023 | 818.7875 | 1063 | 819.2875 | 1103 | 819.7875 |
| 984 | 818.3000 | 1024 | 818.8000 | 1064 | 819.3000 | 1104 | 819.8000 |
| 985 | 818.3125 | 1025 | 818.8125 | 1065 | 819.3125 | 1105 | 819.8125 |
| 986 | 818.3250 | 1026 | 818.8250 | 1066 | 819.3250 | 1106 | 819.8250 |
| 987 | 818.3375 | 1027 | 818.8375 | 1067 | 819.3375 | 1107 | 819.8375 |
| 988 | 818.3500 | 1028 | 818.8500 | 1068 | 819.3500 | 1108 | 819.8500 |
| 989 | 818.3625 | 1029 | 818.8625 | 1069 | 819.3625 | 1109 | 819.8625 |
| 990 | 818.3750 | 1030 | 818.8750 | 1070 | 819.3750 | 1110 | 819.8750 |
| 991 | 818.3875 | 1031 | 818.8875 | 1071 | 819.3875 | 1111 | 819.8875 |
| 992 | 818.4000 | 1032 | 818.9000 | 1072 | 819.4000 | 1112 | 819.9000 |
| 993 | 818.4125 | 1033 | 818.9125 | 1073 | 819.4125 | 1113 | 819.9125 |
| 994 | 818.4250 | 1034 | 818.9250 | 1074 | 819.4250 | 1114 | 819.9250 |
| 995 | 818.4375 | 1035 | 818.9375 | 1075 | 819.4375 | 1115 | 819.9375 |
| 996 | 818.4500 | 1036 | 818.9500 | 1076 | 819.4500 | 1116 | 819.9500 |
| 997 | 818.4625 | 1037 | 818.9625 | 1077 | 819.4625 | 1117 | 819.9625 |
| 998 | 818.4750 | 1038 | 818.9750 | 1078 | 819.4750 | 1118 | 819.9750 |
| 999 | 818.4875 | 1039 | 818.9875 | 1079 | 819.4875 | 1119 | 819.9875 |
| 1000 | 818.5000 | 1040 | 819.0000 | 1080 | 819.5000 | 1120 | 820.0000 |

APPENDIX F
CHANNEL ENTRY NUMBERS

FREQUENCY RANGE 806-870 MHz

Page 8 of 10

| Tx FCC Channel | Trans. Freq. | Tx FCC Channel | Trans. Freq. | Tx FCC Channel | Trans. Freq. | Tx FCC Channel | Trans. Freq. |
|-------------------------------|-------------------------|-------------------------------|-------------------------|-------------------------------|-------------------------|-------------------------------|-------------------------|
| 1121 | 820.0125 | 1161 | 820.5125 | 1201 | 821.0125 | 1241 | 821.5125 |
| 1122 | 820.0250 | 1162 | 820.5250 | 1202 | 821.0250 | 1242 | 821.5250 |
| 1123 | 820.0375 | 1163 | 820.5375 | 1203 | 821.0375 | 1243 | 821.5375 |
| 1124 | 820.0500 | 1164 | 820.5500 | 1204 | 821.0500 | 1244 | 821.5500 |
| 1125 | 820.0625 | 1165 | 820.5625 | 1205 | 821.0625 | 1245 | 821.5625 |
| 1126 | 820.0750 | 1166 | 820.5750 | 1206 | 821.0750 | 1246 | 821.5750 |
| 1126 | 820.0875 | 1167 | 820.5875 | 1207 | 821.0875 | 1247 | 821.5875 |
| 1128 | 820.1000 | 1168 | 820.6000 | 1208 | 821.1000 | 1248 | 821.6000 |
| 1129 | 820.1125 | 1169 | 820.6125 | 1209 | 821.1125 | 1249 | 821.6125 |
| 1130 | 820.1250 | 1170 | 820.6250 | 1210 | 821.1250 | 1250 | 821.6250 |
| 1131 | 820.1375 | 1171 | 820.6375 | 1211 | 821.1375 | 1251 | 821.6375 |
| 1132 | 820.1500 | 1172 | 820.6500 | 1212 | 821.1500 | 1252 | 821.6500 |
| 1133 | 820.1625 | 1173 | 820.6625 | 1213 | 821.1625 | 1253 | 821.6625 |
| 1134 | 820.1750 | 1174 | 820.6750 | 1214 | 821.1750 | 1254 | 821.6750 |
| 1135 | 820.1875 | 1175 | 820.6875 | 1215 | 821.1875 | 1255 | 821.6875 |
| 1136 | 820.2000 | 1176 | 820.7000 | 1216 | 821.2000 | 1256 | 821.7000 |
| 1137 | 820.2125 | 1177 | 820.7125 | 1217 | 821.2125 | 1257 | 821.7125 |
| 1138 | 820.2250 | 1178 | 820.7250 | 1218 | 821.2250 | 1258 | 821.7250 |
| 1139 | 820.2375 | 1179 | 820.7375 | 1219 | 821.2375 | 1259 | 821.7375 |
| 1140 | 820.2500 | 1180 | 820.7500 | 1220 | 821.2500 | 1260 | 821.7500 |
| 1141 | 820.2625 | 1181 | 820.7625 | 1221 | 821.2625 | 1261 | 821.7625 |
| 1142 | 820.2750 | 1182 | 820.7750 | 1222 | 821.2750 | 1262 | 821.7750 |
| 1143 | 820.2875 | 1183 | 820.7875 | 1223 | 821.2875 | 1263 | 821.7875 |
| 1144 | 820.3000 | 1184 | 820.8000 | 1224 | 821.3000 | 1264 | 821.8000 |
| 1145 | 820.3125 | 1185 | 820.8125 | 1225 | 821.3125 | 1265 | 821.8125 |
| 1146 | 820.3250 | 1186 | 820.8250 | 1226 | 821.3250 | 1266 | 821.8250 |
| 1147 | 820.3375 | 1187 | 820.8375 | 1227 | 821.3375 | 1267 | 821.8375 |
| 1148 | 820.3500 | 1188 | 820.8500 | 1228 | 821.3500 | 1268 | 821.8500 |
| 1149 | 820.3625 | 1189 | 820.8625 | 1229 | 821.3625 | 1269 | 821.8625 |
| 1150 | 820.3750 | 1190 | 820.8750 | 1230 | 821.3750 | 1270 | 821.8750 |
| 1151 | 820.3875 | 1191 | 820.8875 | 1231 | 821.3875 | 1271 | 821.8875 |
| 1152 | 820.4000 | 1192 | 820.9000 | 1232 | 821.4000 | 1272 | 821.9000 |
| 1153 | 820.4125 | 1193 | 820.9125 | 1233 | 821.4125 | 1273 | 821.9125 |
| 1154 | 820.4250 | 1194 | 820.9250 | 1234 | 821.4250 | 1274 | 821.9250 |
| 1155 | 820.4375 | 1195 | 820.9375 | 1235 | 821.4375 | 1275 | 821.9375 |
| 1156 | 820.4500 | 1196 | 820.9500 | 1236 | 821.4500 | 1276 | 821.9500 |
| 1157 | 820.4625 | 1197 | 820.9625 | 1237 | 821.4625 | 1277 | 821.9625 |
| 1158 | 820.4750 | 1198 | 820.9750 | 1238 | 821.4750 | 1278 | 821.9750 |
| 1159 | 820.4875 | 1199 | 820.9875 | 1239 | 821.4875 | 1279 | 821.9875 |
| 1160 | 820.5000 | 1200 | 821.0000 | 1240 | 821.5000 | 1280 | 822.0000 |

APPENDIX F

CHANNEL ENTRY NUMBERS

FREQUENCY RANGE 806-870 MHz

Page 9 of 10

| Tx FCC Channel | Trans. Freq. | Tx FCC Channel | Trans. Freq. | Tx FCC Channel | Trans. Freq. | Tx FCC Channel | Trans. Freq. |
|----------------------|-----------------|----------------------|-----------------|----------------------|-----------------|----------------------|-----------------|
| 1281 | 822.0125 | 1321 | 822.5125 | 1361 | 823.0125 | 1401 | 823.5125 |
| 1282 | 822.0250 | 1322 | 822.5250 | 1362 | 823.0250 | 1402 | 823.5250 |
| 1283 | 822.0375 | 1323 | 822.5375 | 1363 | 823.0375 | 1403 | 823.5375 |
| 1284 | 822.0500 | 1324 | 822.5500 | 1364 | 823.0500 | 1404 | 823.5500 |
| 1285 | 822.0625 | 1325 | 822.5625 | 1365 | 823.0625 | 1405 | 823.5625 |
| 1286 | 822.0750 | 1326 | 822.5750 | 1366 | 823.0750 | 1406 | 823.5750 |
| 1287 | 822.0875 | 1327 | 822.5875 | 1367 | 823.0875 | 1407 | 823.5875 |
| 1288 | 822.1000 | 1328 | 822.6000 | 1368 | 823.1000 | 1408 | 823.6000 |
| 1289 | 822.1125 | 1329 | 822.6125 | 1369 | 823.1125 | 1409 | 823.6125 |
| 1290 | 822.1250 | 1330 | 822.6250 | 1370 | 823.1250 | 1410 | 823.6250 |
| 1291 | 822.1375 | 1331 | 822.6375 | 1371 | 823.1375 | 1411 | 823.6375 |
| 1292 | 822.1500 | 1332 | 822.6500 | 1372 | 823.1500 | 1412 | 823.6500 |
| 1293 | 822.1625 | 1333 | 822.6625 | 1373 | 823.1625 | 1413 | 823.6625 |
| 1294 | 822.1750 | 1334 | 822.6750 | 1374 | 823.1750 | 1414 | 823.6750 |
| 1295 | 822.1875 | 1335 | 822.6875 | 1375 | 823.1875 | 1415 | 823.6875 |
| 1296 | 822.2000 | 1336 | 822.7000 | 1376 | 823.2000 | 1416 | 823.7000 |
| 1297 | 822.2125 | 1337 | 822.7125 | 1377 | 823.2125 | 1417 | 823.7125 |
| 1298 | 822.2250 | 1338 | 822.7250 | 1378 | 823.2250 | 1418 | 823.7250 |
| 1299 | 822.2375 | 1339 | 822.7375 | 1379 | 823.2375 | 1419 | 823.7375 |
| 1300 | 822.2500 | 1340 | 822.7500 | 1380 | 823.2500 | 1420 | 823.7500 |
| 1301 | 822.2625 | 1341 | 822.7625 | 1381 | 823.2625 | 1421 | 823.7625 |
| 1302 | 822.2750 | 1342 | 822.7750 | 1382 | 823.2750 | 1422 | 823.7750 |
| 1303 | 822.2875 | 1343 | 822.7875 | 1383 | 823.2875 | 1423 | 823.7875 |
| 1304 | 822.3000 | 1344 | 822.8000 | 1384 | 823.3000 | 1424 | 823.8000 |
| 1305 | 822.3125 | 1345 | 822.8125 | 1385 | 823.3125 | 1425 | 823.8125 |
| 1306 | 822.3250 | 1346 | 822.8250 | 1386 | 823.3250 | 1426 | 823.8250 |
| 1307 | 822.3375 | 1347 | 822.8375 | 1387 | 823.3375 | 1427 | 823.8375 |
| 1308 | 822.3500 | 1348 | 822.8500 | 1388 | 823.3500 | 1428 | 823.8500 |
| 1309 | 822.3625 | 1349 | 822.8625 | 1389 | 823.3625 | 1429 | 823.8625 |
| 1310 | 822.3750 | 1350 | 822.8750 | 1390 | 823.3750 | 1430 | 823.8750 |
| 1311 | 822.3875 | 1351 | 822.8875 | 1391 | 823.3875 | 1431 | 823.8875 |
| 1312 | 822.4000 | 1352 | 822.9000 | 1392 | 823.4000 | 1432 | 823.9000 |
| 1313 | 822.4125 | 1353 | 822.9125 | 1393 | 823.4125 | 1433 | 823.9125 |
| 1314 | 822.4250 | 1354 | 822.9250 | 1394 | 823.4250 | 1434 | 823.9250 |
| 1315 | 822.4375 | 1355 | 822.9375 | 1395 | 823.4375 | 1435 | 823.9375 |
| 1316 | 822.4500 | 1356 | 822.9500 | 1396 | 823.4500 | 1436 | 823.9500 |
| 1317 | 822.4625 | 1357 | 822.9625 | 1397 | 823.4625 | 1437 | 823.9625 |
| 1318 | 822.4750 | 1358 | 822.9750 | 1398 | 823.4750 | 1438 | 823.9750 |
| 1319 | 822.4875 | 1359 | 822.9875 | 1399 | 823.4875 | 1439 | 823.9875 |
| 1320 | 822.5000 | 1360 | 823.0000 | 1400 | 823.5000 | 1440 | 824.0000 |

APPENDIX F

CHANNEL ENTRY NUMBERS

FREQUENCY RANGE 806-870 MHz

Page 10 of 10

| Tx FCC Channel | Trans. Freq. | Tx FCC Channel | Trans. Freq. | Tx FCC Channel | Trans. Freq. | Tx FCC Channel | Trans. Freq. |
|----------------------|-----------------|----------------------|-----------------|----------------------|-----------------|----------------------|-----------------|
| 1441 | 824.0125 | 1481 | 824.5125 | | | | |
| 1442 | 824.0250 | 1482 | 824.5250 | | | | |
| 1443 | 824.0375 | 1483 | 824.5375 | | | | |
| 1444 | 824.0500 | 1484 | 824.5500 | | | | |
| 1445 | 824.0625 | 1485 | 824.5625 | | | | |
| 1446 | 824.0750 | 1486 | 824.5750 | | | | |
| 1447 | 824.0875 | 1487 | 824.5875 | | | | |
| 1448 | 824.1000 | 1488 | 824.6000 | | | | |
| 1449 | 824.1125 | 1489 | 824.6125 | | | | |
| 1450 | 824.1250 | 1490 | 824.6250 | | | | |
| 1451 | 824.1375 | 1491 | 824.6375 | | | | |
| 1452 | 824.1500 | 1492 | 824.6500 | | | | |
| 1453 | 824.1625 | 1493 | 824.6625 | | | | |
| 1454 | 824.1750 | 1494 | 824.6750 | | | | |
| 1455 | 824.1875 | 1495 | 824.6875 | | | | |
| 1456 | 824.2000 | 1496 | 824.7000 | | | | |
| 1457 | 824.2125 | 1497 | 824.7125 | | | | |
| 1458 | 824.2250 | 1498 | 824.7250 | | | | |
| 1459 | 824.2375 | 1499 | 824.7375 | | | | |
| 1460 | 824.2500 | 1500 | 824.7500 | | | | |
| 1461 | 824.2625 | 1501 | 824.7625 | | | | |
| 1462 | 824.2750 | 1502 | 824.7750 | | | | |
| 1463 | 824.2875 | 1503 | 824.7875 | | | | |
| 1464 | 824.3000 | 1504 | 824.8000 | | | | |
| 1465 | 824.3125 | 1505 | 824.8125 | | | | |
| 1466 | 824.3250 | 1506 | 824.8250 | | | | |
| 1467 | 824.3375 | 1507 | 824.8375 | | | | |
| 1468 | 824.3500 | 1508 | 824.8500 | | | | |
| 1469 | 824.3625 | 1509 | 824.8625 | | | | |
| 1470 | 824.3750 | 1510 | 824.8750 | | | | |
| 1471 | 824.3875 | 1511 | 824.8875 | | | | |
| 1472 | 824.4000 | 1512 | 824.9000 | | | | |
| 1473 | 824.4125 | 1513 | 824.9125 | | | | |
| 1474 | 824.4250 | 1514 | 824.9250 | | | | |
| 1475 | 824.4375 | 1515 | 824.9375 | | | | |
| 1476 | 824.4500 | 1516 | 824.9500 | | | | |
| 1477 | 824.4625 | 1517 | 824.9625 | | | | |
| 1478 | 824.4750 | 1518 | 824.9750 | | | | |
| 1479 | 824.4875 | 1519 | 824.9875 | | | | |
| 1480 | 824.5000 | | | | | | |

APPENDIX F

CHANNEL ENTRY NUMBERS

FREQUENCY RANGE 896-941 MHz

Page 1 of 3

| Tx FCC Channel | Trans. Freq. | Tx FCC Channel | Trans. Freq. | Tx FCC Channel | Trans. Freq. | Tx FCC Channel | Trans. Freq. |
|----------------------|-----------------|----------------------|-----------------|----------------------|-----------------|----------------------|-----------------|
| 1 | 896.0125 | 41 | 896.5125 | 81 | 897.0125 | 121 | 897.5125 |
| 2 | 896.0250 | 42 | 896.5250 | 82 | 897.0250 | 122 | 897.5250 |
| 3 | 896.0375 | 43 | 896.5375 | 83 | 897.0375 | 123 | 897.5375 |
| 4 | 896.0500 | 44 | 896.5500 | 84 | 897.0500 | 124 | 897.5500 |
| 5 | 896.0625 | 45 | 896.5625 | 85 | 897.0625 | 125 | 897.5625 |
| 6 | 896.0750 | 46 | 896.5750 | 86 | 897.0750 | 126 | 897.5750 |
| 7 | 896.0875 | 47 | 896.5875 | 87 | 897.0875 | 127 | 897.5875 |
| 8 | 896.1000 | 48 | 896.6000 | 88 | 897.1000 | 128 | 897.6000 |
| 9 | 896.1125 | 49 | 896.6125 | 89 | 897.1125 | 129 | 897.6125 |
| 10 | 896.1250 | 50 | 896.6250 | 90 | 897.1250 | 130 | 897.6250 |
| 11 | 896.1375 | 51 | 896.6375 | 91 | 897.1375 | 131 | 897.6375 |
| 12 | 896.1500 | 52 | 896.6500 | 92 | 897.1500 | 132 | 897.6500 |
| 13 | 896.1625 | 53 | 896.6625 | 93 | 897.1625 | 133 | 897.6625 |
| 14 | 896.1750 | 54 | 896.6750 | 94 | 897.1750 | 134 | 897.6750 |
| 15 | 896.1875 | 55 | 896.6875 | 95 | 897.1875 | 135 | 897.6875 |
| 16 | 896.2000 | 56 | 896.7000 | 96 | 897.2000 | 136 | 897.7000 |
| 17 | 896.2125 | 57 | 896.7125 | 97 | 897.2125 | 137 | 897.7125 |
| 18 | 896.2250 | 58 | 896.7250 | 98 | 897.2250 | 138 | 897.7250 |
| 19 | 896.2375 | 59 | 896.7375 | 99 | 897.2375 | 139 | 897.7375 |
| 20 | 896.2500 | 60 | 896.7500 | 100 | 897.2500 | 140 | 897.7500 |
| 21 | 896.2625 | 61 | 896.7625 | 101 | 897.2625 | 141 | 897.7625 |
| 22 | 896.2750 | 62 | 896.7750 | 102 | 897.2750 | 142 | 897.7750 |
| 23 | 896.2875 | 63 | 896.7875 | 103 | 897.2875 | 143 | 897.7875 |
| 24 | 896.3000 | 64 | 896.8000 | 104 | 897.3000 | 144 | 897.8000 |
| 25 | 896.3125 | 65 | 896.8125 | 105 | 897.3125 | 145 | 897.8125 |
| 26 | 896.3250 | 66 | 896.8250 | 106 | 897.3250 | 146 | 897.8250 |
| 27 | 896.3375 | 67 | 896.8375 | 107 | 897.3375 | 147 | 897.8375 |
| 28 | 896.3500 | 68 | 896.8500 | 108 | 897.3500 | 148 | 897.8500 |
| 29 | 896.3625 | 69 | 896.8625 | 109 | 897.3625 | 149 | 897.8625 |
| 30 | 896.3750 | 70 | 896.8750 | 110 | 897.3750 | 150 | 897.8750 |
| 31 | 896.3875 | 71 | 896.8875 | 111 | 897.3875 | 151 | 897.8875 |
| 32 | 896.4000 | 72 | 896.9000 | 112 | 897.4000 | 152 | 897.9000 |
| 33 | 896.4125 | 73 | 896.9125 | 113 | 897.4125 | 153 | 897.9125 |
| 34 | 896.4250 | 74 | 896.9250 | 114 | 897.4250 | 154 | 897.9250 |
| 35 | 896.4375 | 75 | 896.9375 | 115 | 897.4375 | 155 | 897.9375 |
| 36 | 896.4500 | 76 | 896.9500 | 116 | 897.4500 | 156 | 897.9500 |
| 37 | 896.4625 | 77 | 896.9625 | 117 | 897.4625 | 157 | 897.9625 |
| 38 | 896.4750 | 78 | 896.9750 | 118 | 897.4750 | 158 | 897.9750 |
| 39 | 896.4875 | 79 | 896.9875 | 119 | 897.4875 | 159 | 897.9875 |
| 40 | 896.5000 | 80 | 897.0000 | 120 | 897.5000 | 160 | 898.0000 |

APPENDIX F

CHANNEL ENTRY NUMBERS

FREQUENCY RANGE 896-941 MHz

Page 2 of 3

| Tx FCC Channel | Trans. Freq. | Tx FCC Channel | Trans. Freq. | Tx FCC Channel | Trans. Freq. | Tx FCC Channel | Trans. Freq. |
|----------------------|-----------------|----------------------|-----------------|----------------------|-----------------|----------------------|-----------------|
| 161 | 898.0125 | 201 | 898.5125 | 241 | 899.0125 | 281 | 899.5125 |
| 162 | 898.0250 | 202 | 898.5250 | 242 | 899.0250 | 282 | 899.5250 |
| 163 | 898.0375 | 203 | 898.5375 | 243 | 899.0375 | 283 | 899.5375 |
| 164 | 898.0500 | 204 | 898.5500 | 244 | 899.0500 | 284 | 899.5500 |
| 165 | 898.0625 | 205 | 898.5625 | 245 | 899.0625 | 285 | 899.5625 |
| 166 | 898.0750 | 206 | 898.5750 | 246 | 899.0750 | 286 | 899.5750 |
| 167 | 898.0875 | 207 | 898.5875 | 247 | 899.0875 | 287 | 899.5875 |
| 168 | 898.1000 | 208 | 898.6000 | 248 | 899.1000 | 288 | 899.6000 |
| 169 | 898.1125 | 209 | 898.6125 | 249 | 899.1125 | 289 | 899.6125 |
| 170 | 898.1250 | 210 | 898.6250 | 250 | 899.1250 | 290 | 899.6250 |
| 171 | 898.1375 | 211 | 898.6375 | 251 | 899.1375 | 291 | 899.6375 |
| 172 | 898.1500 | 212 | 898.6500 | 252 | 899.1500 | 292 | 899.6500 |
| 173 | 898.1625 | 213 | 898.6625 | 253 | 899.1625 | 293 | 899.6625 |
| 174 | 898.1750 | 214 | 898.6750 | 254 | 899.1750 | 294 | 899.6750 |
| 175 | 898.1875 | 215 | 898.6875 | 255 | 899.1875 | 295 | 899.6875 |
| 176 | 898.2000 | 216 | 898.7000 | 256 | 899.2000 | 296 | 899.7000 |
| 177 | 898.2125 | 217 | 898.7125 | 257 | 899.2125 | 297 | 899.7125 |
| 178 | 898.2250 | 218 | 898.7250 | 258 | 899.2250 | 298 | 899.7250 |
| 179 | 898.2375 | 219 | 898.7375 | 259 | 899.2375 | 299 | 899.7375 |
| 180 | 898.2500 | 220 | 898.7500 | 260 | 899.2500 | 300 | 899.7500 |
| 181 | 898.2625 | 221 | 898.7625 | 261 | 899.2625 | 301 | 899.7625 |
| 182 | 898.2750 | 222 | 898.7750 | 262 | 899.2750 | 302 | 899.7750 |
| 183 | 898.2875 | 223 | 898.7875 | 263 | 899.2875 | 303 | 899.7875 |
| 184 | 898.3000 | 224 | 898.8000 | 264 | 899.3000 | 304 | 899.8000 |
| 185 | 898.3125 | 225 | 898.8125 | 265 | 899.3125 | 305 | 899.8125 |
| 186 | 898.3250 | 226 | 898.8250 | 266 | 899.3250 | 306 | 899.8250 |
| 187 | 898.3375 | 227 | 898.8375 | 267 | 899.3375 | 307 | 899.8375 |
| 188 | 898.3500 | 228 | 898.8500 | 268 | 899.3500 | 308 | 899.8500 |
| 189 | 898.3625 | 229 | 898.8625 | 269 | 899.3625 | 309 | 899.8625 |
| 190 | 898.3750 | 230 | 898.8750 | 270 | 899.3750 | 310 | 899.8750 |
| 191 | 898.3875 | 231 | 898.8875 | 271 | 899.3875 | 311 | 899.8875 |
| 192 | 898.4000 | 232 | 898.9000 | 272 | 899.4000 | 312 | 899.9000 |
| 193 | 898.4125 | 233 | 898.9125 | 273 | 899.4125 | 313 | 899.9125 |
| 194 | 898.4250 | 234 | 898.9250 | 274 | 899.4250 | 314 | 899.9250 |
| 195 | 898.4375 | 235 | 898.9375 | 275 | 899.4375 | 315 | 899.9375 |
| 196 | 898.4500 | 235 | 898.9500 | 276 | 899.4500 | 316 | 899.9500 |
| 197 | 898.4625 | 237 | 898.9625 | 277 | 899.4625 | 317 | 899.9625 |
| 198 | 898.4750 | 238 | 898.9750 | 278 | 899.4750 | 318 | 899.9750 |
| 199 | 898.4875 | 239 | 898.9875 | 279 | 899.4875 | 319 | 899.9875 |
| 200 | 898.5000 | 240 | 899.0000 | 280 | 899.5000 | 320 | 900.0000 |

APPENDIX F

CHANNEL ENTRY NUMBERS

FREQUENCY RANGE 896-941 MHz

Page 3 of 3

| Tx FCC Channel | Trans. Freq. | Tx FCC Channel | Trans. Freq. | Tx FCC Channel | Trans. Freq. | Tx FCC Channel | Trans. Freq. |
|----------------------|-----------------|----------------------|-----------------|----------------------|-----------------|----------------------|-----------------|
| 321 | 900.0125 | 361 | 900.5125 | 401 | 901.0125 | 441 | 901.5125 |
| 322 | 900.0250 | 362 | 900.5250 | 402 | 901.0250 | 442 | 901.5250 |
| 323 | 900.0375 | 363 | 900.5375 | 403 | 901.0375 | 443 | 901.5375 |
| 324 | 900.0500 | 364 | 900.5500 | 404 | 901.0500 | 444 | 901.5500 |
| 325 | 900.0625 | 365 | 900.5625 | 405 | 901.0625 | 445 | 901.5625 |
| 326 | 900.0750 | 366 | 900.5750 | 406 | 901.0750 | 446 | 901.5750 |
| 327 | 900.0875 | 367 | 900.5875 | 407 | 901.0875 | 447 | 901.5875 |
| 328 | 900.1000 | 368 | 900.6000 | 408 | 901.1000 | 448 | 901.6000 |
| 329 | 900.1125 | 369 | 900.6125 | 409 | 901.1125 | 449 | 901.6125 |
| 330 | 900.1250 | 370 | 900.6250 | 410 | 901.1250 | 450 | 901.6250 |
| 331 | 900.1375 | 371 | 900.6375 | 411 | 901.1375 | 451 | 901.6375 |
| 332 | 900.1500 | 372 | 900.6500 | 412 | 901.1500 | 452 | 901.6500 |
| 333 | 900.1625 | 373 | 900.6625 | 413 | 901.1625 | 453 | 901.6625 |
| 334 | 900.1750 | 374 | 900.6750 | 414 | 901.1750 | 454 | 901.6750 |
| 335 | 900.1875 | 375 | 900.6875 | 415 | 901.1875 | 455 | 901.6875 |
| 336 | 900.2000 | 376 | 900.7000 | 416 | 901.2000 | 456 | 901.7000 |
| 337 | 900.2125 | 377 | 900.7125 | 417 | 901.2125 | 457 | 901.7125 |
| 338 | 900.2250 | 378 | 900.7250 | 418 | 901.2250 | 458 | 901.7250 |
| 339 | 900.2375 | 379 | 900.7375 | 419 | 901.2375 | 459 | 901.7375 |
| 340 | 900.2500 | 380 | 900.7500 | 420 | 901.2500 | 460 | 901.7500 |
| 341 | 900.2625 | 381 | 900.7625 | 421 | 901.2625 | 461 | 901.7625 |
| 342 | 900.2750 | 382 | 900.7750 | 422 | 901.2750 | 462 | 901.7750 |
| 343 | 900.2875 | 383 | 900.7875 | 423 | 901.2875 | 463 | 901.7875 |
| 344 | 900.3000 | 384 | 900.8000 | 424 | 901.3000 | 464 | 901.8000 |
| 345 | 900.3125 | 385 | 900.8125 | 425 | 901.3125 | 465 | 901.8125 |
| 346 | 900.3250 | 386 | 900.8250 | 426 | 901.3250 | 466 | 901.8250 |
| 347 | 900.3375 | 387 | 900.8375 | 427 | 901.3375 | 467 | 901.8375 |
| 348 | 900.3500 | 388 | 900.8500 | 428 | 901.3500 | 468 | 901.8500 |
| 349 | 900.3625 | 389 | 900.8625 | 429 | 901.3625 | 469 | 901.8625 |
| 350 | 900.3750 | 390 | 900.8750 | 430 | 901.3750 | 470 | 901.8750 |
| 351 | 900.3875 | 391 | 900.8875 | 431 | 901.3875 | 471 | 901.8875 |
| 352 | 900.4000 | 392 | 900.9000 | 432 | 901.4000 | 472 | 901.9000 |
| 353 | 900.4125 | 393 | 900.9125 | 433 | 901.4125 | 473 | 901.9125 |
| 354 | 900.4250 | 394 | 900.9250 | 434 | 901.4250 | 474 | 901.9250 |
| 355 | 900.4375 | 395 | 900.9375 | 435 | 901.4375 | 475 | 901.9375 |
| 356 | 900.4500 | 396 | 900.9500 | 436 | 901.4500 | 476 | 901.9500 |
| 357 | 900.4625 | 397 | 900.9625 | 437 | 901.4625 | 477 | 901.9625 |
| 358 | 900.4750 | 398 | 900.9750 | 438 | 901.4750 | 478 | 901.9750 |
| 359 | 900.4875 | 399 | 900.9875 | 439 | 901.4875 | 479 | 901.9875 |
| 360 | 900.5000 | 400 | 901.0000 | 440 | 901.5000 | | |

This page intentionally left blank

APPENDIX G

WORK SHEET FOLDER

MTD EDACS

Work Sheet A

Maximum Number of Agencies

_____Setup Window or _____Mobile Window

Number of Agencies = 2

Maximum Number of Fleets = 256

Agencies = 4

Fleets = 128

Agencies = 8

Fleets = 64

Agencies = 16

Fleets = 32

Agencies = 32

Fleets = 16

| AGCY NO. | NO. OF FLEETS |
|----------|---------------|
| 1 | |
| 2 | |
| 3 | |
| 4 | |
| 5 | |
| 6 | |
| 7 | |
| 8 | |

| AGCY NO. | NO. OF FLEETS |
|----------|---------------|
| 9 | |
| 10 | |
| 11 | |
| 12 | |
| 13 | |
| 14 | |
| 15 | |
| 16 | |

| AGCY NO. | NO. OF FLEETS |
|----------|---------------|
| 17 | |
| 18 | |
| 19 | |
| 20 | |
| 21 | |
| 22 | |
| 23 | |
| 24 | |

| AGCY NO. | NO. OF FLEETS |
|----------|---------------|
| 25 | |
| 26 | |
| 27 | |
| 28 | |
| 29 | |
| 30 | |
| 31 | |
| 32 | |

APPENDIX G
WORK SHEET FOLDER
MTD EDACS

Work Sheet B
Trunked Frequency Sets

Frequency Set Name: _____

| CH NO. | TRANS FREQ. | RECEIVE FREQ. | FCC CHAN TRANS. FREQ. |
|--------|-------------|---------------|-----------------------|
| 01 | | | |
| 02 | | | |
| 03 | | | |
| 04 | | | |
| 05 | | | |
| 06 | | | |
| 07 | | | |
| 08 | | | |
| 09 | | | |
| 10 | | | |
| 11 | | | |
| 12 | | | |
| 13 | | | |

| CH NO. | TRANS FREQ. | RECEIVE FREQ. | FCC CHAN TRANS. FREQ. |
|--------|-------------|---------------|-----------------------|
| 14 | | | |
| 15 | | | |
| 16 | | | |
| 17 | | | |
| 18 | | | |
| 19 | | | |
| 20 | | | |
| 21 | | | |
| 22 | | | |
| 23 | | | |
| 24 | | | |
| 25 | | | |
| | | | |

APPENDIX G
WORK SHEET FOLDER
MTD EDACS

Work Sheet C

Trunked Frequency Set Options

Trunked Set Name: _____

| | | |
|------------------------|-------------------|---------------------------------|
| DEFAULT SITE ID | HIGH POWER | MAX CHANNELS ALLOWED |
| _____ | ON OFF | _____ |

APPENDIX G
WORK SHEET FOLDER
MTD EDACS
Work Sheet D
Conventional Frequency Sets
Sheet 1

Frequency Set Name: _____

| STE | On Off | On Off | On Off | On Off | On Off | On Off | On Off | On Off |
|-------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| TRANS. CG | | | | | | | | |
| RECEIVE FREQ. | | | | | | | | |
| TRANSMIT FREQ. | | | | | | | | |
| CHANNEL NAME | | | | | | | | |
| CH NO | | | | | | | | |

APPENDIX G
WORK SHEET FOLDER
MTD EDACS
Work Sheet D
Conventional Frequency Sets
Sheet 2

Frequency Set Name: _____

| CHAN. NO | RECEIVE CG | TRANSMIT LOCKOUT | CARRIER CONTROL TIMER | OSCILLATOR SHIFT | SCAN | PORT POWER |
|-------------|---------------|---------------------|-----------------------------|---------------------|--------|---------------|
| | | On Off | On Off | Yes No | On Off | Low Hi |
| | | On Off | On Off | Yes No | On Off | Low Hi |
| | | On Off | On Off | Yes No | On Off | Low Hi |
| | | On Off | On Off | Yes No | On Off | Low Hi |
| | | On Off | On Off | Yes No | On Off | Low Hi |
| | | On Off | On Off | Yes No | On Off | Low Hi |
| | | On Off | On Off | Yes No | On Off | Low Hi |
| | | On Off | On Off | Yes No | On Off | Low Hi |

APPENDIX G
WORK SHEET FOLDER
MTD EDACS

Work Sheet E

Conventional Frequency Set Options

Conventional Set Name: _____

| HOME CHANNEL | WIDE SCAN CHANNEL |
|--------------|-------------------|
| _____ | _____ |

APPENDIX G
WORK SHEET FOLDER
MTD EDACS
Work Sheet F
Group Sets

Group Set Name: _____

| GROUP | GROUP NAME | GROUP ID NUMBER | TYPE | SCAN | KNOB SELECT | ICALL |
|-------|------------|-----------------|-------------------------|-----------|-------------|-----------|
| | | | Nornal Encode Decode | On Off | On Off | On Off |
| | | | Nornal Encode Decode | On Off | On Off | On Off |
| | | | Nornal Encode Decode | On Off | On Off | On Off |
| | | | Nornal Encode Decode | On Off | On Off | On Off |
| | | | Nornal Encode Decode | On Off | On Off | On Off |
| | | | Nornal Encode Decode | On Off | On Off | On Off |
| | | | Nornal Encode Decode | On Off | On Off | On Off |
| | | | Nornal Encode Decode | On Off | On Off | On Off |

APPENDIX G
WORK SHEET FOLDER
MTD EDACS
Work Sheet G
Group Set Options

Group Set Name: _____

| |
|-------------------|
| HOME GROUP: _____ |
|-------------------|

APPENDIX G
WORK SHEET FOLDER
MTD EDACS
Work Sheet H
Special Call Sets

Special Call Set Name: _____

| CALL | NAME | TYPE | | KNOB SELECT | | NUMBER |
|------|------|--------------|-------------|----------------|-----|--------|
| | | TELE CAL1 | DTMF ALL | ON | OFF | |
| | | TELE CAL1 | DTMF ALL | ON | OFF | |
| | | TELE CAL1 | DTMF ALL | ON | OFF | |
| | | TELE CAL1 | DTMF ALL | ON | OFF | |
| | | TELE CAL1 | DTMF ALL | ON | OFF | |
| | | TELE CAL1 | DTMF ALL | ON | OFF | |
| | | TELE CAL1 | DTMF ALL | ON | OFF | |
| | | TELE CAL1 | DTMF ALL | ON | OFF | |
| | | TELE CAL1 | DTMF ALL | ON | OFF | |

APPENDIX G
WORK SHEET FOLDER
MTD EDACS

Work Sheet I
Keypad Limit Options

Special Call Set Name: _____

| | |
|-------------------------|-----------------------------------------------------------|
| KEYPAD LIMIT | |
| Range | IF RANGE, THEN: ID's Allowed Lower Limit: _____ |
| None | ID's Allowed Upper Limit: _____ |

APPENDIX G
WORK SHEET FOLDER
MTD EDACS
Work Sheet J
Radio Personalities
Sheet 1

Personality Name: _____

| SYSTEM NUMBER (1-48) | SYSTEM DISPLAY NAME | FREQ. SET | TYPE (T/C) | SITE ID (1-32) | UNIT NUMBER (1-16382) |
|----------------------------|------------------------|--------------|---------------|----------------------|-----------------------------|
| | | | T C | | |
| | | | T C | | |
| | | | T C | | |
| | | | T C | | |
| | | | T C | | |
| | | | T C | | |
| | | | T C | | |
| | | | T C | | |
| | | | T C | | |
| | | | T C | | |

APPENDIX G
WORK SHEET FOLDER
MTD EDACS
Work Sheet J
Radio Personalities
Sheet 2

Personality Name: _____

| SYS NO. (1-48) | GROUP SET | SPECIAL CALL SET | EMERGENCY EMERG AUDIO (On/Off) | EMERGENCY DISPLAY (On/Off) | COL TIME |
|-------------------|-----------|------------------|-----------------------------------|-------------------------------|----------|
| | | | On Off | On Off | |
| | | | On Off | On Off | |
| | | | On Off | On Off | |
| | | | On Off | On Off | |
| | | | On Off | On Off | |
| | | | On Off | On Off | |
| | | | On Off | On Off | |
| | | | On Off | On Off | |
| | | | On Off | On Off | |

APPENDIX G
WORK SHEET FOLDER
MTD EDACS
Work Sheet K
Mobile Radio Options

| FAILSOFT DISPLAY | | SUPER- VISORY | | TIMEOUTS | | | | |
|--------------------------|--|-------------------|--|--------------------|-----------|-------------------|-----------|--|
| CARRIER CTRL | | DISPLAY | | INDIVID. CALL | | SPECIAL CALL | | |
| Yes No | | Yes No | | | | | | |
| TIMEOUTS | | | | ADDITIONAL OPTIONS | | | | |
| DATA LOCKOUT | | SCAN LOCKOUT | | TEST SET | | RAMP WRAP | | |
| AUTO LOGIN | | HOOK- SWITCH | | | On Off | | On Off | |
| Inverted Normal | | | | | | | | |
| OFF HOOK FUNCTION | | CALLER DISPLAY | | | | HOME SYSTEM | | |
| INDIVID. ID | | GROUP ID | | ALPHA MAPPING | | MINIMUM VOLUME | | |
| Yes No | | Yes No | | Yes No | | Yes No | | |
| | | | | | | | | |
| EMERGENCY/HOME BUTTON | | | | | | | | |
| EMERG. | | HOME | | | | | | |
| Enable Disable | | Enable Disable | | | | | | |

APPENDIX G
WORK SHEET FOLDER
MTD EDACS
Work Sheet L
Menu Options

| MENU 1 | MENU 2 | MENU 3 |
|--------------|--------------|--------------|
| Special | Special | Special |
| Scan On/Off | Scan On/Off | Scan On/Off |
| Scan Add/Del | Scan Add/Del | Scan Add/Del |
| Ext Alarm | Ext Alarm | Ext Alarm |
| Status | Status | Status |
| Message | Message | Message |
| Disabled | Disabled | Disabled |

| MENU 4 | MENU 5 | MENU 6 |
|--------------|--------------|--------------|
| Special | Special | Special |
| Scan On/Off | Scan On/Off | Scan On/Off |
| Scan Add/Del | Scan Add/Del | Scan Add/Del |
| Ext Alarm | Ext Alarm | Ext Alarm |
| Status | Status | Status |
| Message | Message | Message |
| Disabled | Disabled | Disabled |

APPENDIX G
WORK SHEET FOLDER
MTD EDACS
Work Sheet M
Initial Settings

| POWER UP SYSTEM/ GROUP | SYSTEM | GROUP | POWER UP VOL. STATE | VOL. | POWER UP SCAN | SCAN STATE |
|---------------------------------|--------|-------|---------------------------|------|---------------------|---------------------|
| Enabled Disabled | | | Enabled Disabled | | Enabled Disabled | Enabled Disabled |

APPENDIX G
WORK SHEET FOLDER
MTD EDACS
Work Sheet N
Radio Parameters

| CHANNEL SET EXPANSION | ALARM POWER UP STATE | EXTERNAL ALARM TYPE | RADIO OPERATION | TEST UNIT |
|-----------------------|----------------------|---------------------|-----------------|-----------|
| On | Enabled | Call | Normal | |
| Off | Disabled | 1 Pulse | Test Unit | |
| | | 3 Pulse | Stand Alone | |
| | | | CC Mon | |

| DATA ONLY RADIO | DATA HOST RADIO | QUEUED MESSAGE BEEP | CONVENTIONAL TRANSMIT BEEP |
|-----------------|-----------------|---------------------|----------------------------|
| On | Enabled | Call | Normal |
| Off | Disabled | 1 Pulse | Test Unit |
| | | 3 Pulse | Stand Alone |
| | | | CC Mon |

APPENDIX G
WORK SHEET FOLDER
MTD EDACS
 Work Sheet O
 User Control Options

| RADIO ALERT TONES | AUDIO | | |
|----------------------|---------------------|-------------|------------------------|
| | AUD. RANGE ALERT | PWR-UP TONE | TONE ON WORK. CHAN. |
| Single | Disable | Disable | Disable |
| Continuous | Enable | Enable | Enable |

| AUDIO | | DISPLAY ICON LOCATION | DISPLAY DELIMITER |
|--------------------------|-----------------------------|--------------------------|----------------------|
| BASE MOBILE OPERATION | RECEIVE CALL ALERT TONES | | |
| Enable | Disable | Left | |
| Disable | Enable | Right | |

APPENDIX G
WORK SHEET FOLDER
MTD EDACS
Work Sheet P
Scan Options

| | | | |
|----------------------------|------------------------|------------|--------------------|
| SCAN TRANSMIT SELECT | SCAN AFTER TRANSMIT | HANG DELAY | HOME GROUP SCAN |
| SELECTED AUTOSELECT | ACTIVE OFF | | AUTO DECODED |

APPENDIX G
WORK SHEET FOLDER
MTD EDACS
Work Sheet Q
Desk Top Options

| | | | |
|----------------------------------------------------------------------------------------|---------------|---|--------------|
| | REMOTE SYSTEM | | REMOTE GROUP |
| 1 | | 1 | |
| 2 | | 2 | |
| 3 | | 3 | |
| 4 | | 4 | |
| 5 | | 5 | |
| FIXED VOLUME: Yes or No | | | |

APPENDIX G
WORK SHEET FOLDER
MTD EDACS
Work Sheet R
Status Keypad Definitions

| | NAME | ID |
|---|------|----|
| 1 | | |
| 2 | | |
| 3 | | |
| 4 | | |
| 5 | | |
| 6 | | |
| 7 | | |
| 8 | | |

| | NAME | ID |
|----|------|----|
| 9 | | |
| 10 | | |
| 11 | | |
| 12 | | |
| 13 | | |
| 14 | | |
| 15 | | |
| 16 | | |

APPENDIX G
WORK SHEET FOLDER
MTD EDACS
Work Sheet S
Message Keypad Definitions

| | NAME | ID |
|---|------|----|
| 1 | | |
| 2 | | |
| 3 | | |
| 4 | | |
| 5 | | |
| 6 | | |
| 7 | | |
| 8 | | |

| | NAME | ID |
|----|------|----|
| 9 | | |
| 10 | | |
| 11 | | |
| 12 | | |
| 13 | | |
| 14 | | |
| 15 | | |
| 16 | | |

APPENDIX G
WORK SHEET FOLDER
MTD EDACS
Work Sheet T
Wide Area Scan

| CC LOOP COUNT | | | | PRIORITY WIDE SCAN TIMER | | | |
|-----------------|------|-------------------------------------------------------|-------------------------------------------------------|-------------------------------------------------------|-------------------------------------------------------|--|--|
| 2 6 10 15 | | | | 1.1 2.2 3.3 4.3 | | | |
| SYS | NAME | | | | | | |
| | | ----- -- On -- -- Off - -- Pri - -- N/A - | ----- -- On -- -- Off - -- Pri - -- N/A - | ----- -- On -- -- Off - -- Pri - -- N/A - | ----- -- On -- -- Off - -- Pri - -- N/A - | | |
| | | ----- -- On -- -- Off - -- Pri - -- N/A - | ----- -- On -- -- Off - -- Pri - -- N/A - | ----- -- On -- -- Off - -- Pri - -- N/A - | ----- -- On -- -- Off - -- Pri - -- N/A - | | |
| | | ----- -- On -- -- Off - -- Pri - -- N/A - | ----- -- On -- -- Off - -- Pri - -- N/A - | ----- -- On -- -- Off - -- Pri - -- N/A - | ----- -- On -- -- Off - -- Pri - -- N/A - | | |

