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TECHNICAL MANUAL

USER'S GUIDE
RADAR DATA ACQUISITION (RDA)

DOPPLER METEOROLOGICAL RADAR
WSR-88D

UNISYS CORPORATION
CONTRACT 50-DMNW-8-00032

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FOREWORD

This technical manual provides operators with an overview of Doppler Meteorological Radar WSR-88D RDA Group. It describes the purpose, structure, and functions of the UCP and discusses the operating concepts. This manual was prepared in accordance with the content requirements of MIL-M-38798B and the format requirements of MIL-M-38784B, as amended by TMCR AF TM-86-01/ NEXRAD (June 1987). It consists of four chapters and Appendices.

Chapter 1 Use of the Man Machine Interface (MMI) Terminal. This chapter describes the purpose, structure, capabilities, and itemization of the Man Machine Interface (MMI) Terminal.

Chapter 2 Parameter Defaults. This chapter describes all of the commands that accept parameters defaults.

Chapter 3 Summary RDA Status Area. This chapter provides included in the RDA Status Area.

Chapter 4 System Console Messages. This chapter describes the error messages the System Console may display.

Appendix A. MENUS. Includes sample RDA menus.

Appensix B. Parameter Defaults. Includes a list of Parameter Defaults.

Appendix C. Alpanumeric Keyboard. Sample of Alpanumeric Keyboard.

Appendix D. Valid RDASC Commands. Includes a list of RDASC Commands.

Appendix E. Parameter Values. Includes a list of Parameter values.

Appendix F. Field Identities for Performance/Maintenance Display Menus. Includes a list of Field Identities for Performance/Maintenance Display Menus.

Appendix G. Units for Performance/Maintenance Display Menus. Includes a list of units for Performance/Maintenance Display Menus.

Appendix H. Alarm Messages. Includes a list of Alarm Messages.

Appendix I. System Console Messages. Includes a list of System Cosole Messages,

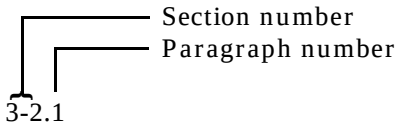
This manual is one of a family of technical manuals which provide various levels of description, operation, maintenance, and logistics information on the WSR-88D. Refer to TO 31-1-141, Basic Electronic Technology and Testing Practices, for any basic electronic technology or testing practice that is not fully described in these documents. The WSR-88D technical manual family is defined and discussed in the System Manual, NWS EHB 6 500, Section 1-4.

The format of this technical manual is as follows:

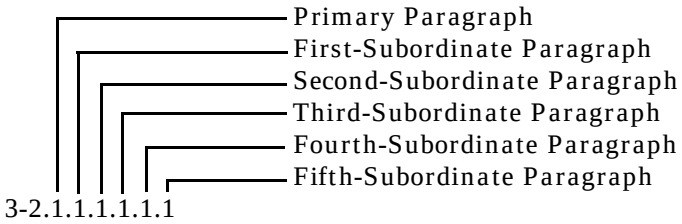
- Since sections represent the major content divisions of the chapter, they are formatted as physically-separate standalone elements.
- Sections are numbered as subdivisions of the chapter or appendix. The section numbering system consists of two digits separated by a hyphen. The first digit

indicates the chapter, the second digit indicates the section. Thus, Section 3-2 represents the second section of Chapter 3.

- Paragraph numbering is by section rather than by chapter. The basic numbering system consists of three digits, where the first two digits identify the section



- A decimal paragraph number system is used to identify paragraph subordination



- Pages, tables, and figures are numbered by chapter. The number consists of two digits separated by a hyphen. The first digit identifies the chapter. The second digit identifies the page, table, or figure.

SAFETY SUMMARY

GENERAL SAFETY

The following are general safety precautions that are not related to specific procedures and therefore do not appear elsewhere in this publication. These are recommended precautions that personnel must understand and apply during many phases of operation and maintenance.

KEEP AWAY FROM LIVE CIRCUITS

Maintenance personnel must at all times observe all safety regulations. Do not replace components or make adjustments inside the equipment with the high voltage supply turned on. Under certain conditions, dangerous potentials may exist when the power control is in the off position, due to charges retained by capacitors. To avoid casualties, always remove power and discharge by grounding a circuit before touching it.

DO NOT SERVICE OR ADJUST ALONE

Under no circumstances should any person reach into or enter an enclosure for the purpose of servicing or adjusting the equipment except in the presence of some one who is capable of rendering aid.

RESUSCITATION

Personnel working with or near high voltage should be familiar with modern methods of resuscitation. Such information may be obtained from the Red Cross or Heart Association. This knowledge may save a life.

PERFORM WORK EFFICIENTLY

When working in areas designated as hazardous, perform work using the proper safety procedure. Be thoroughly familiar with the procedures required for the task before entering the area.

SECURE ALL MATERIAL WHEN NOT IN USE

Secure all tools, chassis, and covers before operating equipment.

RESTORE ALL INTERLOCKS

Restore all interlock switches to normal operating condition immediately upon completion of work on the unit involved.

DO NOT USE METAL TOOLS NEAR EXPOSED PARTS

Do not use brushes, brooms, or other tools that have exposed metal parts within four feet of any electrical equipment having exposed current-carrying parts.

ELECTRICAL SHOCK HAZARDS

Prime power voltages and high voltages within cabinets can cause death or severe injury. These voltages are contained in the RPG area. Warning signs and labels are located on the guards and barriers to alert personnel of the potential hazard. DO NOT DISREGARD THESE WARNINGS.

Ensure that safety interlocks, barriers, and guards are not bypassed.

Extremely high voltages are present in the UCP CRT that can cause death or severe injury. Warning labels and interlocks are present to prevent electrical shock. DO NOT BYPASS INTERLOCKS.

The following warnings appear in the text of this manual and are repeated here for emphasis:

WARNINGS

Lethal voltages (from commercial power, CRT high-voltage power supplies and low-voltage high current power supplies) exist in many RPG Group equipments. Observe appropriate safety precautions at all times to ensure personnel safety.

AC power is still applied to the RPG cabinet power supplies. Observe appropriate safety precautions at all times to ensure personnel safety.

The following caution appears in the text of this manual and is repeated here for emphasis:

CAUTIONS

This procedure will erase all existing files from the disk prior to the introduction of the new software. Disk backups must be mode prior to the execution of these instructions.

The volume mnemonic must not be a previously defined logical unit name OPT0, SYS0, DSC0 etc. Do not name any two disks the same.

Chapter 1
Use of Man Machine Interface (MMI) Terminal

The MMI terminal and its associated keyboard provide the operator with the capability to perform four major functions: monitor system status, inspect and/ or alter system operational parameters, communicate with RPG and other users, and enter, retrieve, and write onto tape, the maintenance log data.

MMI commands are entered by typing in a valid command string and depressing the SEND key or RETURN key, by depressing the SEND key or RETURN key when the cursor is positioned in one of the edit fields, or by depressing a FUNCTION key. These commands provide the operator with a wide variety of actions, including capabilities to select various menus to be displayed on the MMI terminal screen, alter system operational parameters in the system, perform archive functions, send messages to the RPG and/or USER, request help text for display, and enter, retrieve, and write onto tape the maintenance log data, and reinitialize the MMI.

The screen on the MMI terminal is used to display text which has been requested by the operator or automatically generated based on conditions detected by the Radar Data Acquisition Status and Control Program (RDASC). The operator may request the display of menus (to display system status information, to inspect/change adaptation data, to send/display messages, to display help text for information on the commands, and to perform archive functions), or the alteration of system operational parameters. Several sections of the screen are dedicated to notifying the operator of internally detected conditions: feedback from operator commands, active equipment alerts and alarms, NEXRAD system status, and status of equipment communications.

Section 1-1. Screen Format

The MMI screen is divided into nine fields, each used for the display of particular types of information. Refer to Figure 1-1. MMI Screen Format for the screen locations of the fields.

Fields on the screen can be subdivided into "unprotected" and "protected" sections. When the cursor is located in an unprotected portion of a field, the depression of an alphanumeric character key see paragraph 1-2.1 Alphanumeric and Special Character Keys. will cause the corresponding character to appear on the screen at the location of the cursor. In this way the operator can enter commands and data for execution by the MMI. On the other hand, when the cursor is located in a protected area, depression of an alphanumeric character key will not change the character currently displayed at the cursor location. The MMI utilizes protection of screen areas in order to prevent the operator from accidentally destroying displays and instructions.

Upon initialization of the program, the Main Menu will be displayed and the cursor will be automatically placed in the Command Entry field area on the screen.

1-1.1 Summary RDA Status Area.

The first four lines of the screen comprise the Summary RDA Status Area, a protected area which contains a general indication of the current status of the RDA Functional Area. This area of the MMI terminal screen is updated approximately every second. If the system is configured for Redundant Channel processing, information is displayed on the fourth line of the first column. If the system is configured for Single Channel processing, the fourth line of the first column is blank.

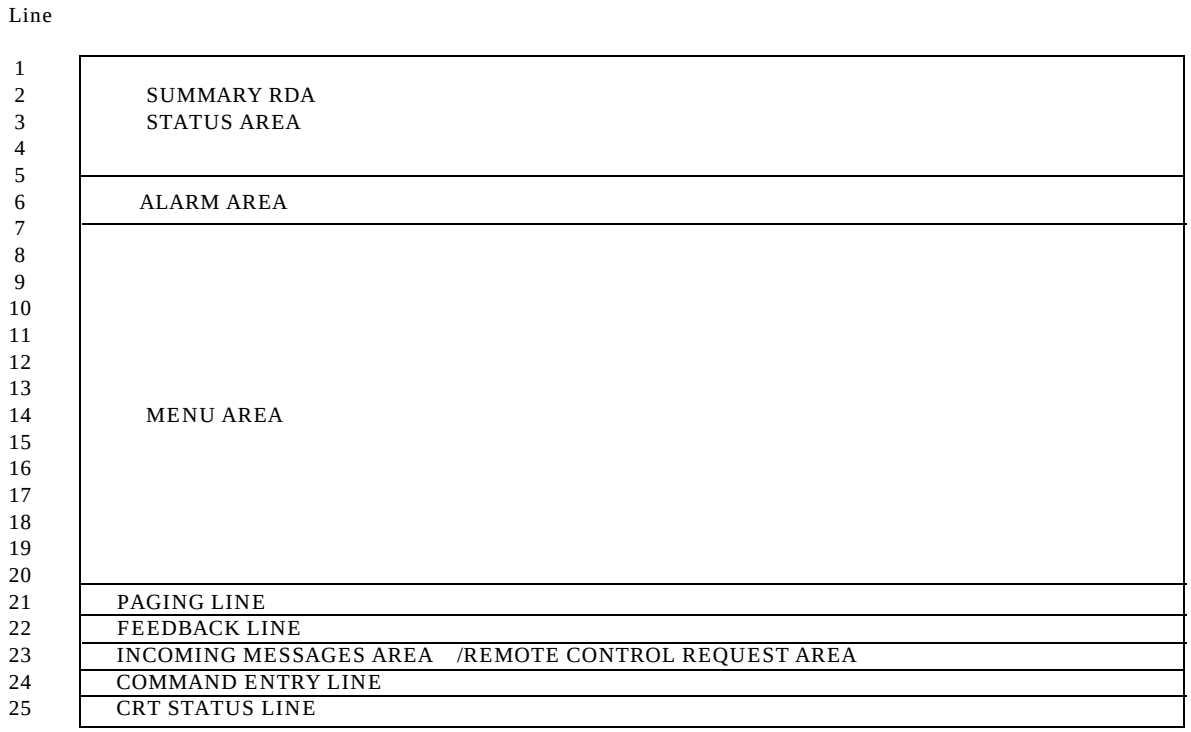


Figure 1-1. MMI Screen Format

See Chapter 3 Summary RDA Status Area. for a detailed description of each field.

1-1.2 Alarm Area.

Lines 5-6 of the screen comprise the Alarm Area, a protected area which contains NEXRAD alarm messages (see APPENDIX H for a list of all alarms). If any NEXRAD alarms are detected by RDASC, an appropriate error message is displayed on the MMI terminal. These messages, if any, are displayed in this area in reverse video as they occur provided there is sufficient room to display them.

The Alarm Area is further divided into an "Edge Detected" Alarm Area and an Occurrence Alarm Area. The "Edge Detected" Alarm Area consists of the left half and right half of line 5 and the left half of line 6, allowing for a maximum of three "Edge Detected" Alarms to be displayed. These alarms are displayed as they are detected and removed when the alarm condition disappears. If more than three "Edge Detected" Alarms exist at any time, the latest three will be displayed with the remaining being kept by the software in a push down stack. When any of the three visible alarms are removed from the screen because the alarm condition disappears, the most current hidden alarm will then be displayed in its place.

The Occurrence Alarm Area consists of the right half of line 6 allowing for one Occurrence Alarm to be displayed. Occurrence Alarms are displayed when detected and not removed from the screen. The most current Occurrence Alarm will be displayed in this area.

In addition to the alarm being displayed in the Alarm Area whenever an alarm is detected, the Summary RDA Status Area will indicate the appropriate State of the RDA (MNT MAN, MNT REQ, INOP) and appropriate status (ALRM/FAIL, READY/OK) of the individual hardware equipments (ARCH2, XMTR, ANT/PED, RDA CTL, TWR UTIL, RCVR/SP, RPG LINK, USR LINK).

1-1.3 Menu Area.

Lines 7-20 of the MMI terminal screen comprise the Menu Area. This area is used by all the MMI menus for their display area. For those menus that are capable of receiving input, unprotected fields exist to receive that input. Refer to paragraph Section 1-4. Menus for more information regarding the usage of edit screens. Refer to paragraph Section 1-3. Commands for more information regarding usage of the Menu Area.

1-1.4 Paging Line.

Line 21 of the screen is the Paging Line, a protected line with an unprotected area for each valid entry that is permitted on this line. The four possible selections on this line are MAIN MENU, HELP MENU, PAGE FORWARD, and PAGE BACKWARD. Which of these four selections is included is dependent upon the menu currently being displayed. The Paging Line is not applicable for all Adaptation Data Modification menus.

1-1.5 Feedback Line.

Line 22 of the screen is the Feedback Line, a protected line which displays command acknowledgments, entry errors, illegal entries, and warnings to the operator in response to commands entered at the MMI terminal.

The line is divided into three parts. The first field indicates which command this message references. The second field indicates whether the message was accepted, rejected, or ignored. The third field contains a message describing why a message was rejected. The only exception to this is the Maintenance Log File overload warning message. This messages does not contain any data in the second field.

1-1.6 Incoming Messages Area.

The left half of line 23 of the screen is the Incoming Messages Area, a protected area which indicates the absence or presence of a message from the operator at the RPG or USER site.

1-1.7 Remote Control Request Area.
The right half of Line 23 of the screen is the Remote Control Request Area, a protected area which indicates that the RPG has requested remote control of the RDA.

1-1.8 Command Entry Line.
Line 24 of the screen is the Command Entry Line, a protected line with one or two unprotected areas used in entering commands and their associated parameters, if any.

1-1.9 CRT Status Line.
Line 25 of the screen is the CRT Status Line. It is a protected area of the MMI screen which contains a brief summary of the current status of the MMI terminal. The following discussion provides information which will be helpful to the operator in the use of the MMI terminal. However, for more detailed information regarding the contents of the CRT Status Line, refer to Chapter 4 of NWS EHB 6-510.
The content of this line includes the current position of the cursor, beginning in column 33, in the format Lyy Cxxx, where yy is the line number and xxx is the column number of the cursor position.

The MMI terminal automatically detects certain CRT conditions and notifies the operator by displaying a message in the error indicator subfield, located in columns 45 to 52, and by ringing the CRT bell. Normal operation continues on depression of the RESET key by the operator. The most common error indicator messages are:

KBD LOCK	Indicates the keyboard is locked (i.e., unusable). The MMI locks the keyboard to prevent the operator from altering the contents of the screen while operator input is being processed.
FLD PROT	Indicates that the operator attempted to type while the cursor was in a protected area of the screen.
ON ATTR	Indicates that the operator has attempted to enter data over an attribute character.
INPUT ER	Indicates that the operator attempted an invalid insertion operation within an unprotected field.

Section 1-2. Keyboard Usage

The alphanumeric keyboard has a number of different types of keys used to enter and/or manipulate alphanumeric data at the MMI. These key types are described in the following sections. Refer to Figure 1-2. Keyboard Schematic for the general layout of the keyboard and "APPENDIX C" on page 1 for the specific location of each key type mentioned. For a more comprehensive description of the keys, see Chapter 4 of NWS EHB 6-510.

1-2.1 Alphanumeric and Special Character Keys.

The alphanumeric and special characters keys include those keys labeled as such in Figure 1-2. Keyboard Schematic (see APPENDIX C also), as well as the space bar.

When the cursor is positioned within an unprotected field, depression of an alphanumeric or special character key will cause the corresponding character to replace any character currently at that location. The cursor will then be automatically repositioned at the next unprotected character on the screen, tabbing to the next subfield if necessary. On the keyboard, the numeric and special character keys each contain two symbols. The lower symbol is the character displayed by simply depressing the key. The upper symbol is the character displayed by depressing the key in conjunction with either one of the two SHIFT keys. Uppercase alphabetics are always displayed regardless of the SHIFT keys or the CAP LOCK key. Normally, when entering commands and using edit screens, the SHIFT keys can be ignored. They are useful when entering text messages.

Note that while the alphanumeric and special keys operate in a manner very similar to the regular typewriter, there is an important exception. The space bar actually produces a blank character which replaces whatever is currently at the cursor location. Therefore, the cursor control keys (paragraph1-2.4 Cursor Control.) must be used to nondestructively skip over screen data.

1-2.2 RETURN Key/SEND Key.

The RETURN or SEND key (see APPENDIX C) causes the MMI to process the command string or edit screen currently displayed on the alphanumeric screen. Prior to depressing the RETURN or SEND key the operator can use the alphanumeric and special character keys, as well as the editing keys (paragraph 1-2.5 Editing Keys.), the numeric keypad (paragraph 1-2.6 Numeric Keypad.), and certain dedicated control keys (paragraph 1-2.7 Dedicated Control Keys.) to enter/alter characters in the unprotected areas of the screen in order to format the command or data.

Upon completion of such enter/alter operations, depression of RETURN or SEND causes the MMI to interpret the data on the screen. Refer to paragraph Section 1-3. Commands for specific information about the RETURN or SEND key as it applies to commands and menus.

The SEND key, which is located in the Dedicated Control Keys area, performs identically to the RETURN key.

1-2.3 Function Keys.

The general function keys are the row of 16 keys at the top of the keyboard. Depressing Function key 1 (F1) will force a reinitialization of the MMI and will result in the Main Menu being displayed in the Menu Area, and, the Summary RDA Status Area, the Alarm Area, the Paging Line, the Message Line, and Command Line will be repainted on the screen. If Function keys 2 through 32 (F2 - F32) are depressed, the operator will be alerted with a message on the feedback line that the function is not available for use.

1-2.4 Cursor Control.

Certain keys facilitate the movement of the cursor without intervention by software, and without altering the contents of the MMI screen. These cursor control keys include those keys identified in Figure 1-2. Keyboard Schematic as Cursor Movement, TAB, BACKTAB, HOME (see APPENDIX C),

and BACK SPACE.

The Cursor Movement portion of the keyboard consists of the HOME key, and four keys labeled with arrows, hereinafter referred to as Cursor Up, Cursor Down, Cursor Left, and Cursor Right. All cursor control keys except for HOME have the auto repeat feature.

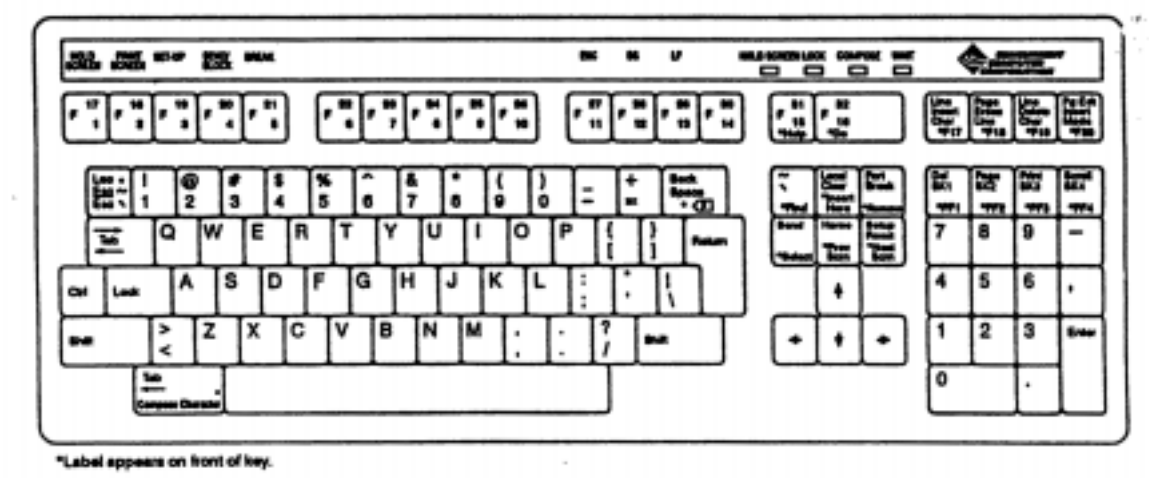


Figure 1-2. Keyboard Schematic

The HOME key moves the cursor to the leftmost position of the first unprotected area of the screen. The Cursor Up key moves the cursor up one line. If the cursor is at line 1, it is moved to the same column in line 24. The Cursor Down key moves the cursor down one line. If it is positioned on line 24, it is moved to the same column of line 1. The Cursor Left key moves the cursor one column to the left. If the cursor is in column 1, it is moved to column 80 of the previous line. If the cursor is in column 1 of line 1, it does not move at all. The Cursor Right key moves the cursor one column to the right. If the cursor is in the last position of an unprotected area, it will be moved to the first position of the next unprotected area. If the cursor is in column 80, it will be moved to column 1 of the next line. If the cursor is in column 80 of line 24, it will be moved to column 1 of line 1.

The TAB key can be operated unshifted or in conjunction with the SHIFT key. When the TAB key is depressed unshifted, the cursor moves to the first position of the next unprotected area of the screen. If there are no unprotected areas between the current cursor location and the end of the screen, the cursor is moved to the first position of the first unprotected area on the screen. When the TAB key is depressed in conjunction with the SHIFT key, or if the BACKTAB key (TAB _) is depressed, the cursor moves to the first position of the previous unprotected field. If the cursor is currently located in the first position of the first unprotected field, it is moved to column 1 of line 1. If the cursor is currently in column 1 of line 1, shifted TAB depression has no effect.

The BACK SPACE key has the same effect as the Cursor Left key.

1-2.5 Editing Keys.

The editing keys are the four keys grouped together at the upper right of the keyboard and labeled as such in Figure 1-2. Keyboard Schematic. These keys can be useful for entering and modifying alphanumeric and special characters in unprotected areas of the screen. The operations performed by these keys are handled completely by the MMI terminal, so that their usage is not detected and not controlled by MMI software.

1-2.6 Numeric Keypad.
The numeric keypad is located in the lower right portion of the keyboard and consists of the ENTER key and a full set of numeric keys, including a minus sign, a comma, and a decimal point. This keypad is provided to facilitate numeric data entry. The SHIFT key has no effect on the operation of the numeric keypad. The number keys on this keypad operate the same as the unshifted number keys at the top of the alphanumeric and special character keys portion of the keyboard. The decimal point key operates the same as the unshifted period. The comma operates the same as the unshifted comma, and the minus sign operates the same as the unshifted hyphen. The ENTER key operates identically to an unshifted TAB. All keys on the numeric keypad have the auto repeat feature.

1-2.7 Dedicated Control Keys.
The dedicated control keys include the PRINT, PAGE, DEL, CLEAR/LOCAL, SCROLL, SHIFT, LOCK, ESC/LOC ESC, RESET/SETUP, and BREAK/PORT keys. These keys are used as follows:

a. PRINT: This key performs no function for the MMI.

b. PAGE: This key performs no function for the MMI.

c. DEL: This key performs no function for the MMI.

d. CLEAR/LOCAL: DO NOT USE THIS FUNCTION. The unshifted CLEAR/LOCAL key clears all data on the screen and in display memory and returns the cursor to the Home position. Depression of the unshifted CLEAR key will cause loss of control of the MMI terminal. Used in conjunction with the SHIFT key, the LOCAL key causes the terminal to go off-line (local). Depression of the SHIFT key in conjunction with the LOCAL key again returns the terminal to its previous on-line condition and the MMI reinitializes. While under local control, do not type data in, depress the RETURN or SEND key and return to the on-line condition, because the terminal will lock up and control will be lost.

e. SCROLL: DO NOT USE THIS FUNCTION. Depression of this key in conjunction with the SHIFT key causes the terminal to toggle between normal operation and a paused state in which the MMI cannot send data to the terminal. The terminal displays HLD in columns 74 through 76 of the status line and lights the hold screen indicator on the keyboard.

f. SHIFT: There are two SHIFT keys, one on either side of the alphanumeric and special character key portion of the keyboard. These keys do nothing by themselves, but are used in conjunction with other keys to increase the number of actions which a single key can perform. Depression of this key causes the terminal to translate all alphabetic characters to uppercase and all numeric and punctuation characters to the characters indicated on the upper halves of the key caps. The SHIFT key does not affect the characters in the numeric keypad area of the keyboard.

g. LOCK: This key has no useful function in the MMI context and should not be used, although, it is not prohibited. This key normally causes the terminal to toggle between normal mode and a capitalization mode.

h. ESC/LOC ESC: This key is not used for normal operation of the MMI. This key has no useful function in the MMI context and should not be used.

i. RESET/SETUP: Depression of the RESET key while the terminal is on-line causes the terminal to clear the error conditions in the status line (line 25). Depression of the SHIFT key in conjunction with the RESET key causes the terminal to force the screen

off-line and enter setup configuration mode in which a full screen editable menu of terminal options is displayed for modification. Depression of the RESET key while the terminal is in setup configuration mode causes the terminal to exit setup configuration mode and go on-line after asking if you wish to save changes. When the screen is returned to the on-line position, the MMI Main Menu is displayed on the screen. This is because the MMI reinitializes itself due to error statuses being sent to the MMI from the Common Terminal Driver while the screen is off-line. If the operator changes any of the configuration settings and returns the screen to on-line, the MMI will reconfigure the screen, which in essence disregards any operator changes, and then displays the Main Menu.

j. BREAK/PORT: The unshifted depression of the BREAK key locks the keyboard and the MMI reinitializes. Depression of the SHIFT key in conjunction with the PORT key activates communications with the alternate port, and the screen display switches to the new active port. Depression of the PORT key when the terminal is set to the split option with a 50-line display screen causes the top 24 lines to display the main port (System Console), while lines 26 through 49 display the auxiliary port (MMI terminal). Lines 25 and 50 are the respective port status lines. Communication to the host computer remains active on both ports as long as the terminal is powered-up, on-line, and not in setup configuration mode.

Section 1-3. Commands

The MMI command language provides a user friendly method for performing the functions available at the MMI operational position. Experienced operators may bypass the use of the Main Menu and Paging Line (see paragraph 1-1.4 Paging Line.) and enter commands directly onto the Command Line (line 24) (see paragraph 1-3.3 Command Mnemonics.).

1-3.1 Command Execution.

There are four ways to cause a command to be executed on the MMI: 1) depress the RETURN or SEND key after entering the command string on the command line 24, and entering a parameter if required; 2) depress the RETURN or SEND key after positioning the cursor at the command desired in the Menu Area and entering a parameter if required (see paragraph Section 1-4. Menus and paragraph 1-3.2 Command Syntax.); 3) depress the RETURN or SEND key after positioning the cursor in the Paging Line, or 4) depress a Function Key (see paragraph 1-2.3 Function Keys.).

Depression of the RETURN or SEND key effectively tells the MMI to read the contents of the command and perform the indicated action. However, if the MMI detects an error in the command string, it will not perform the desired action; instead, it will flag the error by displaying a feedback message and placing the cursor over the first position of the command or parameter which triggered the error.

When any Adaptation Data Modification menu is displayed, only those commands shown in the Menu Area are allowed to be entered.

1-3.2 Command Syntax.

A command issued from the Command Line consists of a mnemonic associated with the desired command in the command field, and any parameter associated with the command in the parameter field.

A command issued from the Menu Area or Paging Line consists of an unprotected field followed by a protected command string followed by an unprotected parameter associated with a command in the parameter field (see paragraph Section 1-4. Menus).

While it is physically possible to select multiple commands in the Menu Area, on the Paging Line, and issue a command from the Command Line, it should be avoided. If multiple entries are made, all entries are ignored and an illegal entry message is displayed on the Feedback Line. One means of accidentally issuing multiple commands is by using the space bar in lieu of the cursor control keys (see paragraphs 1-2.1 Alphanumeric and Special Character Keys. and 1-2.4 Cursor Control.). Commands (both the mnemonic command field and the parameter field) should contain neither preceding spaces nor imbedded spaces (i.e., IO not I O, RW not R W) (see paragraph 1-2.1 Alphanumeric and Special Character Keys.). When the RETURN key is depressed, the cursor must be in a field associated with the selected command, rather than another command.

The HELP command may be issued for assistance in determining command syntax.

1-3.2.1 Commands Issued from the Command Line.

Most commands that are available to the MMI operator are capable of being entered from the Command Line, except for certain cases of Display Log Data (DILD) (see paragraph 1-3.3.2 DILD - Display Log Data.) and Adaptation Data Modification (see paragraph 1-4.8 Adaptation Data Modification.). Commands may be issued from the Command Line without regard to the menu currently being displayed in the Menu Area (except in the two cases noted above). If commands are issued while certain menus are displayed which require input (i.e., Log Data Entry, Send Message) and all of the input requirements are not satisfied, then the work done in the menu area(s) will be lost. If an error is detected by MMI when it tries to interpret or execute the command, then a rejection message will be displayed on the Feedback Line indicating the reason for rejection, and the command line's unprotected areas will be cleared with the cursor positioned at the beginning of the

command mnemonics field.

1-3.2.2 Commands Issued from the Main Menu.
The cursor method of entering commands may only be used when the main menu or paging line is displayed in the menu area. The cursor should be moved to the desired command using any combination of the cursor control keys (see paragraph 1-2.4 Cursor Control.). The space bar should not be used when issuing a command from the Main Menu on a line other than the command line. Use of the space bar in this context not only replaces whatever is at the cursor position (see paragraph 1-2.1 Alphanumeric and Special Character Keys.), but also selects the command over which each space passes.

For those commands that have no associated parameter(s), the cursor is placed just to the left of the command on the unprotected underscore provided for command selection. The command is selected when the cursor is in this position. The command is issued when the RETURN or SEND key is depressed. If the command is rejected by MMI, a rejection message is displayed (see paragraph 1-1.5 Feedback Line.) and the cursor is left where it was when the RETURN or SEND key was depressed.

For those commands that have associated parameters, commands may be issued in one of three ways. The command may be issued identically to those commands that have no associated parameter(s). If this happens, MMI will select the default parameter(s) (see Section 2 Parameter Defaults. and APPENDIX B).

An alternate way to issue a command with the default parameter selected is to position the cursor somewhere in the parameter field of the command and depress the RETURN or SEND key without making an entry in the parameter field. If MMI rejects the command, a rejection message is displayed (see paragraph 1-1.5 Feedback Line.) and the cursor is positioned at the beginning of the parameter field in which it was located at the time the RETURN or SEND key was depressed.

The last method of issuing a command is to position the cursor at the beginning of the command parameter field and enter an appropriate parameter before the RETURN or SEND key is depressed. The cursor must remain with the command to be issued, either in the parameter field or on the unprotected underscore immediately to the left of the command string. An accepted or rejected message will be displayed (see paragraph 1-1.5 Feedback Line.) dependent upon MMI's evaluation of the command. If the command was accepted, the cursor will be positioned at the beginning of the parameter field on the line or at the beginning of the command mnemonic field of the command line when going to a sub-menu. If the message was rejected, the cursor will be positioned at the beginning of the parameter field ready to accept a corrected entry.
If invalid entries are made on the Main Menu, the Main Menu will be rewritten on the screen.

NOTE: This method of selecting commands is not applicable to all of the Adaptation Data Modification menus. (See paragraph 1-4.8 Adaptation Data Modification.)

1-3.3 Command Mnemonics.
There are 32 commands available to the operator whenever the Adaptation Data Modification menus are not displayed. From the Command Line, each must be represented by its associated four-letter command mnemonic. The command mnemonics are described in the following sections.

1-3.3.1 ARCH - Archive II.
This command is used to start and stop archiving of data to the Archive II device. When this command is entered without a parameter and the archive is disabled, this command enables archiving; when archiving is disabled, this command disables it. The optional parameter field is to be used when enabling archive and a fixed number of Volume Coverage Scans are desired to be archived. The valid range for this parameter is 1-99. If no value is entered in this parameter field, then archiving continues until the operator disables it with another ARCH Command. To archive a fixed number of Vol-

ume Coverage Scans, enter E XX in the parameter field, where XX is the number of Scans to archive.

1-3.3.1.1 CONC - Controlling Channel.
This command provides the operator with the mechanism to set this channel to the controlling channel. This command must have an explicit parameter (password) entered. This password is part of Adaptation Data. If the password is incorrect, the command will be rejected. If the command is accepted, it does not mean that the channel will automatically be placed in control. It simply means that this will be forwarded for further processing. This command is invalid when the system is configured for single channel processing.

1-3.3.2 DILD - Display Log Data.
DILD allows an operator to inspect an entry or entries from the log data disk file, LOGDATA.DTA. This file contains information about maintenance actions which were entered by an operator on a series of log entry menus. The data is retrieved by date from the disk file, formatted, and displayed on log request menus which are displayed on the menu area.

This command is unique in that the request to display a log data entry or entries can be made from four different lines. Line 18, which is the Display Log Data line, line 19, which is the 'from' log date line, line 20, which is the 'to' log date line, and line 24 which is the command line. The following is a list of what entries will be viewed when the operator enters or depresses the cursor on one of the lines.

CONDITION	ENTRIES TO BE VIEWED
Cursor depressed on line 18 or DILD entered on the command line	All entries with the latest date
Cursor depressed on line 19 or line 20 without changing dates entered	All entries between the dates listed on the Main Menu
Cursor depressed on line 19 with a new date entered	All entries between entered date and latest date
Cursor depressed on line 20 with a new date entered	All entries between earliest date and date entered
Cursor depressed on line 20 with new dates entered on lines 19 and 20	All entries between entered dates
Cursor depressed on line 20 with a new date entered on line 19 or without changing date entered on line 19 and blanks entered on line 20	All entries for date entered or listed on line 19
All other situations	No entries viewed, a rejected message is displayed on the feedback line

Inspection of the log data is accomplished through repeated issuances of the Page Forward or Page Backward command on the Command line or the Paging line.

1-3.3.3 DIPD - Display Performance Data.
DIPD enables the operator to inspect the operational performance of the NEXRAD system. There are nine three-letter parameters associated with this command, and a total of 13 menus of information available from them. The nine parameters are ANT - Antenna/Pedestal, REC - Receiver/Signal Processor, TOW - Tower/Utilities, WID - Wideband Communications, XMT - Transmitter, CAL - Calibration, CHK - Calibration Check, DFS - Disk File Status, and DVC - Device Status. Four of the parameters, TOW, DVC, CAL and XMT, have second screens associated with them. These second screens are available from the first screen when the PAGF - Page Forward command is issued.

If the DIPD command is issued without a parameter, then TOW is the default. Whether or not the parameter is implicitly expressed in this manner, or is explicitly expressed as an input, the associated menu for the performance data is displayed in the Menu Area. The information is displayed upon the issuance of the command and is not updated, even though the menu remains displayed.

All of the DIPD menus may be shown in this manner, i.e., issuing multiple DIPD commands with the different parameters, or may be cycled through by using either the PAGF (Page Forward) or PAGB (Page Backward) commands.

For more information on the performance data menus see paragraph 1-4.5 Performance Data.

1-3.3.4 DISI - Disable ISU.
Execution of this command causes the Interference Suppression Unit (ISU) to be disabled. The ISU no longer removes the unwanted returns caused by neighboring radar transmitters.

1-3.3.5 DISM - Display Message.
On occasions the operator will receive messages from the RPG or perhaps Other Users. An indication that a message is available for inspection is in the Incoming Messages Area. If there is no message available for the operator, then a message indicating that there is no message will be present in the Incoming Messages Area. When the DISM command is issued, the waiting message will be displayed in the Menu Area. If no message exists, a blank display message menu will be displayed. After the message is displayed, it is erased from the system.

1-3.3.6 ENAC - Enable Auto Calibration.
ENAC enables the operator to cause the system to calculate the system lump calibration factor (SYSCAL). If the operator wishes to override this feature he uses the OVAC command. (See paragraph 1-3.3.16 OVAC - Override Auto Calibration..)

1-3.3.7 ENAI - Enable ISU.
Execution of ENAI causes the Interference Suppression Unit (ISU) to be enabled. The ISU removes the unwanted returns caused by neighboring radar transmitters.

1-3.3.8 ENDT - Enable Data Transmission.
ENDT enables the operator to select what types of radar data are sent from the RDA to the RPG. The operator chooses from the following available parameters:

a. Any combination of "R" - reflectivity data, "V" - velocity data, and "W" - spectral width data

b. "A" - an abbreviated form to include all the options listed in a above (i.e., this is the same as "RVW")

c. "N" - no data is to be sent to the RPG.

If no explicit parameter is specified, parameter "A" is assumed.

1-3.3.9 ENLD - Enter Log Data.

ENLD enables the operator to enter pertinent information about a maintenance action on a series of log data menus displayed in the menu area. When entry is complete, this data is entered into the LOGDATA.DTA file on disk as one record. If the LOGDATA.DTA disk file contains 90 to 99 records, a warning message is displayed on the feedback line, but the operator will be allowed to enter another record. If the number of records in the LOGDATA.DTA disk file is at capacity (equal to 100), a rejection message is displayed on the feedback line. At this point, the operator is not allowed to put any more entries in the log data file until the current data in the disk file is written to SCSI tape via the Write Log Data to Tape function (WLDT) (see paragraph 1-3.3.30 WLDT - Write Log Data to Tape.).

When the ENLD command is entered, the first log data menu is displayed and the cursor is positioned on the first field of entry which is the Time of Maintenance Action. As information is entered on a line, the cursor will automatically be positioned to the next field if the data entered fills up the allotted space, or the operator may depress the RETURN or SEND key when he/she has completed that entry for that line. If the RETURN or SEND key is depressed, the cursor is positioned on the next line of the next entry. The only mandatory field on this menu is the Date of Maintenance Action. Data must be entered in the month, day, and year slots before the operator is allowed to progress to the second page. The only fields which are validated are the time and date fields. Valid entries for these fields are as follows:

	FIELD	VALID ENTRY
TIME	Hours	00 - 23
	Minutes	00 - 59
DATE	Month	1 - 12
	Day	1 - 31
	Year	00 - 99

Depression of the RETURN or SEND key on the second line of the Conditions field will cause the second page of the log data menus to be displayed.

The cursor will automatically be positioned on the Description of Failure/Corrective Action field when the second page is displayed. As with the first page, the cursor is automatically positioned as data is entered in the fields or the RETURN or SEND key is depressed. The only mandatory field on this page is the Parts Replaced field. A 'Y' for yes must be entered before progressing to the third page, or an 'N" for no must be entered which will end this session, the entered data will be written to the disk file, and the Main Menu will be displayed. The only fields which are validated are the time fields. The valid entries are 0 to 999 for the hours slot and 0 to 99 for the minutes slot. Upon valid entry of 'Y' and depression of the RETURN or SEND key on the Parts Replaced field will cause the third page of the log data entry menus to be displayed.

The cursor will automatically be positioned on the Part Identification field when the third page is displayed. This page contains information on parts replaced, and is unique in that it may be displayed up to eight times to allow the operator to enter data on eight parts replaced. As with the first page, the cursor is automatically positioned as data is entered in the fields or the RETURN or SEND key is depressed. The only mandatory field on this page is the 'Was Another Part Replaced' field. A 'Y' for yes must be entered before progressing to another blank template of the third page for more information to be entered or an 'N' for no must be entered which will end this session, the entered data will be written to the disk file, and the Main Menu will be displayed. The only fields which are validated are the time fields. The valid entries are 0 to 999 for the hours slot and 0 to 99 for the minutes slot. Upon valid entry of 'Y' and depression of the RETURN of SEND key on the 'Was Another Part Replaced' field will cause the third page of the log data entry menus to be displayed again.

1-3.3.10 ENRC - Enable Remote Control.
ENRC provides the operator with a mechanism to enable remote control of the RDA by the RPG. If the ENRC command is accepted, it does not mean that the RDA is now being controlled remotely from the RPG. ENRC command acceptance only means a request for the remote control of the RDA by the RPG has been recognized. To actually switch from LOCAL to REMOTE control requires that the RPG additionally request remote control and accept remote control. If the RPG requests remote control this will be indicated in the Remote Control Request Area. If the operator has not enabled remote control the "ENABLE REMOTE CTL" field on the Main Menu will be in reverse video as a reminder to do so.

1-3.3.11 HELP - Help Menu.
Execution of the HELP command causes MMI to display the first of three help menus in the Menu Area. Access to the other help menus is achieved through multiple Page Forward or Page Backward commands. The help menus are organized in a circular manner. From help menu one, multiple Page Forward commands will produce the following menus: help menu one, help menu two, help menu three, help menu one.... The help menus may be used by the operator to verify command mnemonics and possible parameter ranges or values.

1-3.3.12 ICRA - Inspect/Change RDA Adaptation Data.
This function causes the Adaptation Control menu to be displayed and allows the operator to inspect and/or change adaptation data. When this command is entered without a password in the parameter field, the operator will be allowed to view adaptation data. If entered with either the "low" or "high" level password, the operator will be allowed to change data associated with the level of the password. (See paragraph 1-4.8 Adaptation Data Modification.)

1-3.3.13 MAIN - Main Menu.
The Main Menu is displayed any time the MAIN command is issued or when selected from any of the Adaptation Data Modification menus. This is the only menu from which commands may be issued in the Menu Area. Commands are issued when the cursor is placed in the appropriate unprotected area(s) for each command, a parameter entered if allowed, and the RETURN or SEND key depressed.

1-3.3.13.1 NONC - Non-Controlling Channel.
This command provides the operator with the mechanism to set this channel to the non-controlling channel. This command must have an explicit parameter (password) entered. This password is part of Adaptation Data. If the password is incorrect, the command will be rejected. If the command is accepted, it does not mean that control will be released. It simply means that this channel is currently on line or in control and the request will be forwarded for further processing. This command is invalid when the system is configured for single channel processing or if the channel number of the system is one.

1-3.3.14 OLOP - Off-line Operate.
OLOP allows the operator to command the RDA into the Off-line Operate state from the Standby, Operate, or Playback states. In the Off-Line Operate state, the transmitter waveguide switch is switched to the dummy-load position, and the transmitter high voltage is turned on. Functionally, this state is similar to the Standby state, except that the Reflectivity Calibration Check, Clutter Suppression Check, and Monitor Transmitter Power functions are also executed periodically. This command is not allowed when the RDA is in the remote control mode.

1-3.3.15 OPER - Operate.
OPER allows the operator to change the status of RDA from standby, playback, or off-line operate to the operate state in which a Volume Coverage Pattern is executed. The operate state is required to collect weather data and pass it on to the RPG. This command is not allowed when the RDA is in remote control, the channel is off-line, or the channel is not in control.

1-3.3.16 OVAC - Override Auto Calibration.
OVAC allows the operator to change the useful system calibration's value. The parameter accepted by OVAC can range from -10.0 to 10.0. This value is an increment that is combined with the system lump calibration value that provides a useful system calibration value. If the operator wishes to have automatic calibration performed he uses the ENAC command. (See paragraph 1-3.3.6 ENAC - Enable Auto Calibration.)

1-3.3.17 OVRI - Override Radiate Inhibit.
This function is currently not implemented, and it will not be available until search light patterns have been implemented. When implemented, OVRI will allow the operator to affect the automatic shutdown of transmitter power if the antenna has remained motionless for a period of time. The two parameters associated with this command are the default parameter "D" - disables the radiation inhibit override and prevents the transmitter from radiating if it is motionless for a period of time, and "E" - enables the radiation inhibit override and permits the transmitter to radiate even if it has remained motionless for a relatively long period of time.

1-3.3.18 PAGB - Page Backward.
The PAGB command is used to display a preceding page for those menu groups that are designed as a circular group. The groups are currently limited to DILD - Display Log Data, DIPD - Display Performance Data, HELP - Help Menu, and the Inspect and Change Menus. When the PAGB command is allowed to be issued, it will be included in the Paging Line; otherwise, it will be rejected. If the first menu of a list is displayed and the PAGB command is issued, then the last menu of the group will be displayed.

1-3.3.19 PAGF - Page Forward.
The PAGF command is used to display a succeeding page for those menu groups that are designed as a circular group. These groups are currently limited to DILD - Display Log Data, DIPD - Display Performance Data, and HELP - Help Menu. When the PAGF command is allowed to be issued, it will be included in the Paging Line; otherwise, it will be rejected. If the last menu of a list is displayed and the PAGF command is issued, then the first menu of the group will be displayed.

1-3.3.20 PLAY - Playback.
PLAY allows the operator to playback radial data from the Archive II device. If there is no Archive II device installed, a message to this effect will be displayed on the Feedback Line. When selected, playback will cause data from the Archive II device to be sent to the RPG beginning with the oldest data to the most current data. Playback continues until another operating state is selected or until all archived data is sent to the RPG.

1-3.3.21 RELC - Request Local Control.
RELC allows the operator to request of the RPG to be in local control of the RDA. To actually switch from REMOTE to LOCAL control requires that the RPG additionally Enable Local Control. The sequence of the two commands is irrelevant.

1-3.3.22 REST - Restart.
REST is issued when the operator needs to reinitialize the NEXRAD program by reloading the software including the operating system. This is performed by using the automatic reboot feature of the computer's LSU (Loader Storage Unit).

1-3.3.23 SELM - Select Mode.
SELM allows the operator to put the system into the Maintenance mode using parameter "M" or the Operational mode using parameter "O", used when collecting weather data. If no parameter is specified, "O" is assumed. When in the Maintenance mode, all operational volume coverage patterns as well as any maintenance volume coverage patterns may be executed. Maintenance volume coverage patterns can only be executed when in the Maintenance mode. In the event a "SELM O" command is

received while the RDA is executing a maintenance volume coverage pattern, the command is rejected.

1-3.3.24 SELP - Select Pattern.
SELP allows the operator to select one of the various local volume coverage patterns. Valid parameters are 300, 11, 21, 31, and 32. If no parameter is specified, 21 is assumed. Pattern 300 is not valid when in the Operational mode. All of the patterns are valid in the Maintenance mode. Patterns 11 and 21 are used for convective weather, patterns 31 and 32 are used for clear air, and pattern 300 is to be used by maintenance personnel for hardware testing only.

1-3.3.25 SENM - Send Message.
SENM is issued when the operator desires to send a message to the RPG and/or Other User. This command causes MMI to display a blank send message template and position the cursor at the first available position for message entry. Up to five lines of message may be entered. The cursor control keys, editing keys, carriage return, and line feed keys may be used in the body of the message. The RETURN or SEND key should not be used to get from line to line within the body of the message. The RETURN or SEND key is only depressed when a message has been entered and the cursor is located just to the left of the destination (RPG, USER, or ALL) desired in its unprotected underscore, provided for this purpose. If an error occurs during the message preparation, the message body need not be reentered. Whatever is displayed in the message edit area will be transmitted. The condition that caused the error must be fixed before message transmission can occur. Message transmission takes place when the cursor is in a destination field when the RETURN or SEND key is depressed and there are no rejected messages in the FEEDBACK line.

1-3.3.26 STAP - Switch to Auxiliary Power.
STAP allows the operator to request that electrical power be obtained from the generator local to the tower, rather than the utility power source. Switchover to generator power will be accomplished as soon as the power becomes stable which is normally a few seconds. Power source switchover will not be instantaneous; there will be a momentary loss of power in the RDA functional area. When commercial power returns and remains within proper tolerances for a period without dropping out, a message recommending switch to utility power will be displayed in the Alarm Area.

1-3.3.27 STBY - Standby.
STBY takes the system from an off-line operate or operate state and places it into a standby state. The standby state is used for calibration (other than high voltage), status monitoring, and bit processing. No weather radar data is produced in this state.

1-3.3.28 STUP - Switch to Utility Power.
STUP allows the operator to request that power be obtained from the utility power source, rather than the generator local to the tower. Switchover will be accomplished if Utility power is stable. Power source switchover will not be instantaneous; there will be a momentary loss of power in the RDA functional area.

1-3.3.29 TERP - Terminate Program.
TERP provides an orderly shutdown of the RDASC software. This command must have an explicit parameter (password) expressed. If the password is incorrect, the command will be rejected.

1-3.3.30 WLDT - Write Log Data to Tape.
WLDT allows the operator to transfer the Maintenance Log data file from disk to magnetic tape. The operator must ensure that a tape is properly mounted in the tape drive before executing this command. All Maintenance Log records will be written to tape and the record pointers reset to begin the next operator Maintenance Log data entry to be written into the first record of the Maintenance Log file on disk.

Section 1-4. Menus

There are several distinct menus that are displayed in the Menu Area. These menus are logically broken down into seven major functions: Main Menu, Help menu, log data functions, performance data displays, message origin, message reception, and Adaptation Data Modification. The menus are displayed when they are selected by a valid command. See APPENDIX A for the displays associated with each menu.

1-4.1 Main Menu.

The Main Menu is the only menu from which all commands may be issued. If the operator does not have the Main Menu displayed in the Menu Area, commands must be issued through the Command Line (see paragraph Section 1-3. Commands). The normal/reverse video display of the Enable Remote Control field and the ARCHIVE II enable/disable parameter field data are the only two fields which are automatically updated as required (see paragraphs 1-3.3.1 ARCH - Archive II. and 1-3.3.10 ENRC - Enable Remote Control.).

1-4.2 Help Menu.

The Help menu may be displayed by issuing the Help command. There are three menus used in the help function. These menus assist the operator in determining the correct command syntax. All the parameters and command mnemonics are found in these displays. Menus subsequent to display of the first menu when the Help command is issued are obtained by issuing multiple Page Forward or Page Backward commands. The Help menus are arranged as a circular group.

1-4.2.1 Help Menu (Screen 1).

Screen 1 of the Help menu shows the command mnemonics and parameters of the following commands:

CONC
DISI
DISM
ENAC
ENAI
ENLD
ENRC
HELP
ICRA
MAIN
NONC
OLOP
OPER
PAGB
PAGF
PLAY
RELC
REST
STBY
SENM
STAP
STUP
TERP
WLDT

1-4.2.2 Help Menu (Screen 2).
Screen 2 of the Help menu shows the command mnemonics and parameters of the following commands:

ARCH
DILD
DIPD
ENDT

1-4.2.3 Help Menu (Screen 3).
Screen 3 of the Help menu shows the command mnemonics and parameters of the following commands:

OVAC
OVRI
SELM
SELP

1-4.3 Log Data Input.
Log data is input after the ENLD command has been issued. (See paragraph 1-3.3.9 ENLD - Enter Log Data.). The ENLD command causes the first of three different menu templates to be displayed in the Menu Area. As an input log data menu is completed, another is automatically presented until all the logging requirements are satisfied.

1-4.3.1 Log Data Input (Menu 1).
The first of the three log data menus requests the following:

a. Time and date of maintenance action

b. Time and date technician notified

c. Time and date maintenance action completed

d. Identification of maintenance personnel

e. Response priority

f. Station identifier

g. Equipment identifier

h. Serial number

i. Type of maintenance action (Preventive or Remedial)

j. Symptoms of failure

k. Conditions (Op Mode, Environment).

See paragraph 1-3.3.9 ENLD - Enter Log Data. for information on how to enter data for this menu.

1-4.3.2 Log Data Input (Menu 2).
The second of the three possible log data menus requests the following:

a. Description of failure or corrective action

b. Cause of failure

c. Repair time, total

d. Repair time, delay

e. Repair time, travel

f. Repair time, parts not available

g. Repair time, technician not on duty

h. Repair time, weather

i. Repair time, other priorities

j. Repair time, requested delay

k. Repair time, other (specify)

l. Diagnostics run.

m. Parts replaced (Y/N).

See paragraph 1-3.3.9 ENLD - Enter Log Data. for information on how to enter data for this menu.

1-4.3.3 Log Data Input (Menu 3).
The third of the three possible log data menus requests the following:

a. Part Identification

b. Part Federal Stock Number

c. Part Serial Number

d. Card slot number

e. Logic Unit Number

f. Logistics delay in securing part

g. Disposition of part

h. Was another part replaced (eight Maximum) (Y/N).

See paragraph 1-3.3.9 ENLD - Enter Log Data. for information on how to enter data for the menu.

1-4.4 Log Data Output.
Review of previously entered log data occurs as a result of the Display Log Data command (DILD). The display of the requested log data is treated as a circular report. A Page Forward command from the first menu will display the second menu. Multiple Page Forwards will display succeeding menu(s) for the dates selected. A Page Backward command issued from the initial first log menu will display

the last (third) log menu for the dates requested.

1-4.4.1 Log Data Output (Menu 1).
The first of three possible log data menus displays the following:

a. Time and date of maintenance action

b. Time and date technician notified

c. Time and date maintenance action completed

d. Identification of maintenance personnel

e. Response priority

f. Station identifier

g. Equipment identifier

h. Serial number

i. Type of maintenance action

j. Symptoms of failure

k. Conditions.

1-4.4.2 Log Data Output (Menu 2).
The second of three possible log data menus displays the following:

a. Description of failure or corrective action

b. Cause of failure

c. Repair time, total

d. Repair time, delay

e. Repair time, travel

f. Repair time, parts not available

g. Repair time, technician not on duty

h. Repair time, weather

i. Repair time, other priorities

j. Repair time, requested delay

k. Repair time, other (specify)

l. Diagnostics run

m. Parts replaced.

1-4.4.3 Log Data Output (Menu 3).
The third of the three possible log data menus displays the following:

a. Part Identification

b. Part Federal Stock Number

c. Part Serial Number

d. Card slot number

e. Logic Unit Number

f. Logistics delay in securing part

g. Disposition of part

h. Was another part replaced (eight Maximum).

1-4.5 Performance Data.
The performance data menus consist of the 9 following areas: Tower/Utilities, Wideband Communications, Transmitter, Antenna/Pedestal, Receiver/Signal Processor, Calibration, 8 HR Calibration Check, Disk File Status, and Device Status. These areas are displayed on 13 menus, one menu for each area, except Tower, Transmitter, DVC, and CAL, which have two. These menus will be displayed when the operator issues a Display Performance Data command with a valid parameter. The displayed performance data is current at the time of display. The display is not automatically updated. To view new data re-enter the command.

These menus may be displayed by first issuing a valid Display Performance Data command to request their corresponding first menu, then issuing a Page Forward command to display their second menu for those areas which have two menus.

Once a Performance Data menu is displayed, all other Performance Data menus may be displayed by repeatedly issuing either a Page Forward or Page Backward command, since these menus are treated as a circular structure. The order of the display of the menus using the Page Forward command follows: Tower/Utilities, Tower/Utilities (second menu), Wideband Communication, Transmitter, Transmitter (second menu), Antenna/Pedestal, Receiver/Signal Processor, Calibration, Calibration (second menu), Calibration Check, Device Status, Device Status (second menu), and Disk File Status. A Page Forward command issued with the Disk File Status menu displayed will cause the first Tower/Utilities menu to be displayed.

1-4.5.1 Tower/Utilities.
The Tower/Utilities menus display information relating to the tower in general. They provide a broad overview of the tower utilities status. See the following sections on the tower menu displays.

1-4.5.1.1 Tower Utilities (Menu)
Tower Utilities Menu 1 contains data for the following items:

ITEM (ALWAYS DISPLAYED)	ALL POSSIBLE STATES
AC#1 COMPRESSOR	OK/SHUTOFF
AC#2 COMPRESSOR	OK/SHUTOFF
TRANS PWR SOURCE	OK/OFF

AC#1 AIR TEMP	__._Deg C
AC#2 AIR TEMP	__._Deg C
AC#1 FILTER	OK/DIRTY
AC#2 FILTER	OK/DIRTY
PWR XFER SWITCH	AUTO/MAN
PWR SOURCE	UTIL/GEN
GEN BATTERY VOLTAGE	OK/LOW
GEN ENGINE	OK/FAIL
GEN VOLT/FREQ	AVAIL/NOT AVAIL
UTIL VOLT/FREQ	AVAIL/NOT AVAIL
GEN SHELTER	OK/FIRE
GEN SH FIRE SYS	OK/FAIL
GEN SHELTER TEMP	__._Deg C
GEN FUEL LEVEL	___PERCENT
GEN MAINT REQD	YES/NO
EQUIP SHELTER	OK/FIRE
EQUIP SH FIRE SYS	OK/FAIL
EQUIP SH TEMP	__._Deg C
RADOME HATCH	OPEN/CLOSED
RADOME AIR TEMP	+/-__._Deg C
OUTSIDE TEMP	+/-__._Deg C
XMTR AIR TEMP	+/-__._Deg C
AIRCRAFT LIGHTING	OK/FAIL
SITE SECURITY	OK/ALARM
SECURITY EQUIP	OK/DISABLED
SECURITY SYS	OK/DISABLED

1-4.5.1.2 Tower/Utilities (Menu 2).

Tower Utilities Menu 2 contains data for the following items:

ITEM (ALWAYS DISPLAYED)	ALL POSSIBLE STATES
DAU TEST 0	___ Range of 0-255, acceptable range, 7-11
DAU TEST 1	___ Range of 0-255, acceptable range, 118-136
DAU TEST 2	___ Range of 0-255, acceptable range, 221-252
UART	OK/FAIL
MC +28V PS (V)	__.__V
MC +15V PS (V)	__.__V
MC + 5V PS (V)	__.__V
MC -15V PS (V)	__.__V
CHAN IN CONTROL	YES/NO/NA - YES = this is a redundant system and the channel is in control NO= this is a redundant system and the channel is not in control N/A= this is a single channel system
INT PROC RESPONSE	YES/NO/NA - YES= this is a redundant system and there was an interprocessor channel response NO= this is a redundant system and there was not an interprocessor channel response N/A = this is a single channel system

1-4.5.2 Wideband Communications.
The Wideband Communication menu contains data for the following items:

RPG LINK
DCU STATUS
GENERAL ERROR CODE
SVC 15 ERROR CODE
OUTGOING FRAMES
FRAMES WITH FCS ERRORS
RETRANSMITTED I-FRAMES
POLLS SENT AND RECEIVED
POLL TIME-OUTS
MIN BUFFERS IN READ-POOL
MAX BUFFERS IN READ-DONE LIST
LOOP-BACK TEST PASS/FAIL/TIMEOUT/NOTCNFG*/NO**
*"NOTCNFG" is applicable only to user.
**"NO" is not tested.

USER LINK
DCU STATUS
GENERAL ERROR CODE
SVC 15 ERROR CODE
OUTGOING FRAMES
FRAMES WITH FCS ERRORS
RETRANSMITTED I-FRAMES
POLLS SENT AND RECEIVED
POLL TIME-OUTS
MIN BUFFERS IN READ-POOL
MAX BUFFERS IN READ-DONE LIST
LOOP-BACK TEST PASS/FAIL/TIMEOUT/NOTCNFG*/NO**
*"NOTCNFG" is applicable only to user.
**"NO" is not tested.

1-4.5.3 Transmitter.
The Transmitter menus display information relating to the transmitter. See the following sections on the Transmitter menu displays.

1-4.5.3.1 Transmitter (Menu 1).
Transmitter Menu 1 contains data for the following items:

ITEM (ALWAYS DISPLAYED)	ALL POSSIBLE STATES
SUMMARY	OK/FAIL/MAINT/RECYC
XMTR INOP	OK/INOP
XMTR AVAILABLE	YES/NO
MAINT MODE	YES/NO
MAINT REQD	REQD/NO
ANT PK PWR	____KW
XMTR PK PWR	____KW
ANT AVG PWR	____W
XMTR AVG PWR	____W
M/WAVE LOSS	+/-__._Db
ANT PWR METER ZERO	___._ LSB of the power meter output
XMTR PWR METER ZERO	___._ LSB of the power meter output
XMTR AIR FILTER	OK/DIRTY

HIGH VOLTAGE	OFF/ON
XMTR RECYCLE COUNT	_____ Specific number of times transmitter has recycled since last reload of CPCI 01
KYLSTRON WARMUP	0=NORM/1=PRHEAT
WG SWITCH POS	ANT/DUM LD
PFN SWITCH POS	LONG/SHORT
KLYS CURRENT	OK/OVER
KLYS FILAMENT CUR	OK/FAIL
KLYS VACION CUR	OK/FAIL
KLYS AIR TEMP	OK/FAIL
KLYS AIRFLOW	OK/FAIL
FOCUS COIL AIRFLOW	OK/FAIL
FOCUS COIL PS	OK/FAIL
FOCUS COIL CUR	OK/FAIL
WG/PFN XFER INTLK	OK/OPEN
CIRCULATOR TEMP	OK/FAIL
FILAMENT PS	OK/FAIL
FILAMENT PS VOLT	OK/FAIL
+ 5V PS	OK/FAIL
+15V PS	OK/FAIL
-15V PS	OK/FAIL
+28V PS	OK/FAIL
+45V PS	OK/FAIL
VAC PUMP PS	OK/FAIL
WG ARC/VSWR	OK/FAIL
WG PRESS/HMD	OK/FAIL
SPECT FLTR PRESS	OK/FAIL

1-4.5.3.2 Transmitter (Menu 2).

Transmitter Menu 2 contains data for the following items:

ITEM (ALWAYS DISPLAYED)	ALL POSSIBLE STATES	
CABINET INTLK	OK/OPEN	
CABINET AIR TEMP	OK/FAIL	
CABINET AIR FLOW	OK/FAIL	
MOD OVERLOAD	OK/FAIL	
MOD INV CURRENT	OK/FAIL	
MOD SWITCH FAIL	OK/FAIL	
MOD SWITCH MAINT	OK/REQD	
MAIN PWR VOLTAGE	OK/OVER	OK=Voltage is within limits OVER=Voltage is over the limit
XMTR OVERVOLTAGE	OK/OVER	
XMTR OVERCURRENT	OK/OVER	
XMTR BATTERY CHRG	YES/NO	YES=Battery charging NO=Battery not charging
FLYBACK CHARGER	OK/FAIL	
INV DIODE CURR	OK/FAIL	
TRIGGER AMP	OK/FAIL	
PRF LIMIT	OK/FAIL	
DAU INTERFACE	OK/FAIL	OK='Zero' and 'one' test bits are good FAIL='Zero' and/or 'one' test bit(s) failed bit check
OIL TEMP	OK/FAIL	

OIL LEVEL	OK/FAIL	
POST CHG REG	OK/MAINT	OK=No maintenance required MAINT=Maintenance required
TEST BIT 0	OK/FAIL	OK='Zero' test bit = 0, 'one' test bit = 1 FAIL='Zero' test bit ≠ 0, and/or 'one' test bit ≠ 1
TEST BIT 1	OK/FAIL	
TEST BIT 2	OK/FAIL	
TEST BIT 3	OK/FAIL	
TEST BIT 4	OK/FAIL	
TEST BIT 5	OK/FAIL	
TEST BIT 6	OK/FAIL	
TEST BIT 7	OK/FAIL	

1-4.5.4 Antenna/Pedestal.

The Antenna/Pedestal menu contains data for the following items:

ITEM (ALWAYS DISPLAYED)	ALL POSSIBLE STATES	
PED +150V	OK/UNDRVOLT/OVRVOLT	
EL AMP	OK/INHIBIT/SHT CKT/OVR TMP	
EL MOTOR	OK/OVR TMP	
EL STOW PIN	OPER/ENGAGE	
EL PCU PARITY	OK/FAIL	
EL DEAD LIMIT	OK/IN LIM	
EL + LIMIT	OK/IN LIM	
EL - LIMIT	OK/IN LIM	
EL ENCODER LIGHT	OK/FAIL	
EL GEARBOX OIL	OK/LOW	
EL HANDWHEEL	OPER/ENGAGE	
EL AMP PS	OK/FAIL	
EL POS CORR	___.__ Deg	
SERVO	ON/OFF	
AZ AMP	OK/INHIBIT/SHT CKT/OVR TMP UPON INITIALIZATION	
AZ MOTOR	OK/OVR TMP	
AZ STOW PIN	OPER/ENGAGE	
AZ PCU PARITY	OK/FAIL	
AZ BULLGEAR OIL	OK/LOW	
AZ ENCODER LIGHT	OK/FAIL	
AZ GEARBOX OIL	OK/FAIL	
AZ HANDWHEEL	OPER/ENGAGE	
AZ AMP PS	OK/FAIL	
AZ POS CORR	___.___ Deg	
+28V PS	__.__V	
+15V PS	__.__V	
+5V PS	__.__V	
-15V PS	-__.__V	
ENCODER +5V PS	__.__V	
SELF TST 1 STATUS	NO/OK/FAIL	NO=I/O error occurred during a self-test 1 check and all patterns have passed up to the error. OK=I/O error occurred when receiving Bit data and all self-test 1 patterns have passed. Position/Rate or

		Bit data are not aligned, all test patterns passed. No I/O error occurred, all test patterns passed, all data aligned.
		FAIL=I/O error occurred during a self-test 1 check and one or more patterns have failed before an I/O error occurred. Self-test 1 pattern fails.
SELF TST 2 STATUS	NO/OK/FAIL	NO=I/O error occurred. Position/Rate data or Bit data not aligned.
		OK=No I/O error occurred, no timeout occurred, self-test data is zero.
		FAIL=Timeout occurred while waiting for the self-test 2 data. Self-test 2 data is non-zero.
SELF TST 2 DATA	____(HEX) See ICD 1208311, Table VI	
PED INTLK SWITCH	OPER/SAFE	

1-4.5.5 Receiver/Signal Processor.

The Receiver/Signal Processor menu contains data for the following items:

ITEM (ALWAYS DISPLAYED)	ALL POSSIBLE STATES (SOME SAMPLING RATES SPECIFIED)
RF GEN FREQ SEL OSC	OK/FAIL
RF GEN RF/STALO	OK/FAIL
PHASE SHIFTED COHO	OK/FAIL
COHO CLOCK	OK/FAIL - once per ½ second
PARITY CF1	OK/FAIL
PARITY CF2	OK/FAIL
PARITY CF3	OK/FAIL - performed once per volume scan
PARITY CF4	OK/FAIL
PARITY CF5	OK/FAIL
PARITY CF6	OK/FAIL
PARITY TEST GEN RAM	OK/FAIL
SYSTEM NOISE TEMP	____ Deg K - once per volume scan
PRT INTERVAL 1	_____ (9.6 MHZ clock counts)
PRT INTERVAL 2	_____ (9.6 MHZ clock counts)
SIG PROC +5V PS	_.__V - upon status request
SHORT PULSE, LIN CHAN NOISE	_.___E+/-__ - once per volume scan
SHORT PULSE, LOG CHAN NOISE	_.___E+/-__ - once per volume scan
LONG PULSE, LIN CHAN NOISE	_.___E+/-__ - once per volume scan
LONG PULSE, LOG CHAN NOISE	_.___E+/-__ - once per volume scan
IDU TST DETECTION	____ Counts - upon detection of the processing of the fourth radial
+ 5V RECEIVER PS	OK/FAIL
±18V RECEIVER PS	OK/FAIL
- 9V RECEIVER PS	OK/FAIL
+ 9V RECEIVER PS	OK/FAIL

±15V A/D CONV PS	OK/FAIL
+ 5V A/D CONV PS	OK/FAIL
-5.2V A/D CONV PS	OK/FAIL
+ 5V REC PROT PS	OK/FAIL

1-4.5.6 Calibration.
The Calibration menus display information relating to calibration tests performed on the hardware. See the following sections on the Calibration menu displays.

1-4.5.6.1 Calibration (Menu 1).
Calibration Menu 1 contains data for the following items:

ITEM (ALWAYS DISPLAYED)	ALL POSSIBLE STATES
CW LIN TGT EXPECTED AMP	+/-__._dBZ
CW LIN TGT MEASURED AMP	+/-__._dBZ
RFD1 LIN TGT EXPECTED AMP	+/-__._dBZ
RFD1 LIN TGT MEASURED AMP	+/-__._dBZ
RFD2 LIN TGT EXPECTED AMP	+/-__._dBZ
RFD2 LIN TGT MEASURED AMP	+/-__._dBZ
RFD3 LIN TGT EXPECTED AMP	+/-__._dBZ
RFD3 LIN TGT MEASURED AMP	+/-__._dBZ
CW LOG TGT EXPECTED AMP	+/-__._dBZ
CW LOG TGT MEASURED AMP	+/-__._dBZ
RFD1 LOG TGT EXPECTED AMP	+/-__._dBZ
RFD1 LOG TGT MEASURED AMP	+/-__._dBZ
PHASE RAM1 EXPECTED VEL	+/-__._m/s
PHASE RAM1 MEASURED VEL	+/-__._m/s
PHASE RAM2 EXPECTED VEL	+/-__._m/s
PHASE RAM2 MEASURED VEL	+/-__._m/s
PHASE RAM3 EXPECTED VEL	+/-__._m/s
PHASE RAM3 MEASURED VEL	+/-__._m/s
PHASE RAM4 EXPECTED VEL	+/-__._m/s
PHASE RAM4 MEASURED VEL	+/-__._m/s
PHASE RAM1 EXPECTED WIDTH	+/-__._m/s
PHASE RAM1 MEASURED WIDTH	+/-__._m/s
PHASE RAM2 EXPECTED WIDTH	+/-__._m/s
PHASE RAM2 MEASURED WIDTH	+/-__._m/s

1-4.5.6.2 Calibration (Menu 2).
Calibration Menu 2 contains data for the following items:

ITEM (ALWAYS DISPLAYED)	ALL POSSIBLE STATES
RFD2 LOG TGT EXPECTED AMP	+/-__._dBZ
RFD2 LOG TGT MEASURED AMP	+/-__._dBZ
RFD3 LOG TGT EXPECTED AMP	+/-__._dBZ
RFD3 LOG TGT MEASURED AMP	+/-__._dBZ
SHORT PULSE, LIN CHAN SYSCAL	+/-__._db
SHORT PULSE, LOG CHAN SYSCAL	+/-__._db
LONG PULSE, LIN CHAN SYSCAL	+/-__._db
LONG PULSE, LOG CHAN SYSCAL	+/-__._db
AGC STEP 1 AMP	+/-__.__db
AGC STEP 1 PHASE	+/-___.__Deg
AGC STEP 2 AMP	+/-__.__d
AGC STEP 2 PHASE	+/-___.__Deg

AGC I/Q AMP BAL	_.___ Ratio of the I and Q channel amplitudes
PHASE RAM3 EXPECTED WIDTH	+/-__._m/s
PHASE RAM3 MEASURED WIDTH	+/-__._m/s
PHASE RAM4 EXPECTED WIDTH	+/-__._m/s
PHASE RAM4 MEASURED WIDTH	+/-__._m/s
AGC STEP 3 AMP	+/-__.__dB
AGC STEP 3 PHASE	+/-___.__Deg
AGC STEP 4 AMP	+/-__._m/s
AGC STEP 4 PHASE	+/-___.__Deg
AGC STEP 5 AMP	+/-__._m/s
AGC STEP 5 PHASE	+/-___.__Deg
AGC STEP 6 AMP	+/-__._m/s
AGC STEP 6 PHASE	+/-___.__Deg
AGC I/Q PH BAL	+/-___.__Deg

1-4.5.7 Calibration Check.
The Calibration Check menu contains data for the following items:

ITEMS (ALWAYS DISPLAYED)	ALL POSSIBLE STATES
REFLECTIVITY	
KD1 LIN TGT EXPECTED AMP	+/-__._dBZ
KD1 LIN TGT MEASURED AMP	+/-__._dBZ
KD2 LIN TGT EXPECTED AMP	+/-__._dBZ
KD2 LIN TGT MEASURED AMP	+/-__._dBZ
KD3 LIN TGT EXPECTED AMP	+/-__._dBZ
KD3 LIN TGT MEASURED AMP	+/-__._dBZ
KD1 LOG TGT EXPECTED AMP	+/-__._dBZ
KD1 LOG TGT MEASURED AMP	+/-__._dBZ
KD2 LOG TGT EXPECTED AMP	+/-__._dBZ
KD2 LOG TGT MEASURED AMP	+/-__._dBZ
KD3 LOG TGT EXPECTED AMP	+/-__._dBZ
KD3 LOG TGT MEASURED AMP	+/-__._dBZ
CLUTTER SUPPRESSION	
UNFILTERED LIN CHAN PWR	+/-__._dB
FILTERED LIN CHAN PWR	+/-__._dB
UNFILTERED LOG CHAN PWR	+/-__._dB
FILTERED LOG CHAN PWR	+/-__._dB

1-4.5.8 Device Status.
The Device Status menus display information relating to hardware I/O status. See the following sections on the Device Status menu displays.

1-4.5.8.1 Device Status (Menu 1).
Device Status Menu 1 contains data for the following items:

ITEM (ALWAYS DISPLAYED)	ALL POSSIBLE STATES
DEVICE INITIALIZATION	
DAU INIT STATUS	NO/OK/FAIL Upon initialization
MAINT CSL INIT STATUS	NO/OK/FAIL Upon initialization
PEDESTAL INIT STATUS	NO/OK/FAIL Upon initialization
SPS INIT STATUS	NO/OK/FAIL Upon initialization
SPS DOWNLOAD STATUS	NO/OK/FAIL Upon change

SPS DIM LOOP TST STATUS	NO/OK/FAIL Upon change
SPS SMI LOOP TST STATUS	NO/OK/FAIL - upon change of Bit patterns in SMI bus check
SPS HSP LOOP TST STATUS	NO/OK/FAIL - upon change of HSP end around test bytes
DEVICE I/O ERROR	
DAU I/O ERROR STATUS	_____(HEX) - updated every I/O transfer
DATE	MM/DD/YY - updated every I/O transfer
TIME	HH:MM:SS - updated every I/O transfer
MC I/O ERROR STATUS	_____(HEX) - updated every I/O transfer
DATE	MM/DD/YY - updated every I/O transfer
TIME	HH:MM:SS - updated every I/O transfer
PED I/O ERROR STATUS	_____(HEX) - updated every I/O transfer
DATE	MM/DD/YY - updated every I/O transfer
TIME	HH:MM:SS - updated every I/O transfer
SPS I/O ERROR STATUS	_____(HEX) - updated every I/O transfer
DATE	MM/DD/YY - updated every I/O transfer
TIME	HH:MM:SS - updated every I/O transfer

1-4.5.8.2 Device Status (Menu 2).
Device Status Menu 2 contains data for the following items:

ITEM (ALWAYS DISPLAYED)	ALL POSSIBLE STATES
DEVICE INITIALIZATION	
RPG LINK INIT STATUS	NO/OK/FAIL
USER LINK INIT STATUS	NO/OK/FAIL
DEVICE I/O ERROR	
DISK I/O ERROR STATUS	_____(HEX) - updated every I/O transfer
DATE	MM/DD/YY - updated every I/O transfer
TIME	HH:MM:SS - updated every I/O transfer
ARCH II SUMMARY ERROR STATUS	_____(INTEGER) - upon changes
I/O ERROR STATUS	_____(HEX) - updated every I/O transfer
DATE	MM/DD/YY - updated every I/O transfer
TIME	HH:MM:SS - updated every I/O transfer
REDUN CHAN I/O ERROR STATUS	_____(HEX) - updated every I/O transfer
DATE	MM/DD/YY - updated every I/O transfer
TIME	HH:MM:SS - updated every I/O transfer

1-4.5.9 Disk File Status.
The Disk File Status menu contains data for the following items:

ITEM (ALWAYS DISPLAYED)	ALL POSSIBLE STATES
STATE FILE RD STATUS	OK/ERROR
STATE FILE WR STATUS	OK/ERROR
BYPASS MAP FILE RD STATUS	OK/ERROR
BYPASS MAP FILE WR STATUS	OK/ERROR
RDASC CAL DATA FILE RD STATUS	OK/ERROR
RDASC CAL DATA FILE WR STATUS	OK/ERROR
RDASOT CAL DATA FILE RD STATUS	OK/ERROR
MOD ADAPT FILE RD STATUS	OK/ERROR
CENSOR ZONE FILE RD STATUS	OK/ERROR

CENSOR ZONE FILE WR STATUS	OK/ERROR
REMOTE VCP FILE RD STATUS	OK/ERROR
REMOTE VCP FILE WR STATUS	OK/ERROR

1-4.6 Send Message.
The Send Message menu is an empty template used to send messages to the RPG and/or Other Users. The message entry area is five 80-character lines. Destination choices are RPG, USER, or ALL.

1-4.7 Display Message.
The Display Message menu is displayed when the Display Message command has been issued after the operator is alerted by a message displayed in the Incoming Messages Area that a message has been sent to the RDA. After viewing the message, it is removed from the database.

1-4.8 Adaptation Data Modification.
The Adaptation Data Modification menus allow the operator to inspect and/or change adaptation data used by the RDASC and the RDASOT. When the Inspect/Change RDA Adaptation Data command is selected without a password, inspection of the data is allowed but no changes are allowed. When the command is selected with the high access level password, the operator is allowed to change all of the adaptation data. When selected with the low access level password, the operator is allowed to change only a restricted subset of the adaptation data. When the operator selects an adaptation data parameter the current data value along with an allowable range is displayed. A new value, if within the allowable range, may be substituted if editing is allowed based on password previously entered. Changes to the data will not occur immediately to the working program, but may be written to disk and selected by the operator for implementation upon the next restart of the RDA program. Two sets of adaptation data will be maintained on disk by the program: A "baseline" version which will never change after being delivered to the site and a "current" version which may be updated by those with the proper password authorization. The operator may make editing changes to either version, but the edited version will always be written into the "current" version on disk. Selection of a different version for next restart will not be allowed unless the proper password has been entered.

Line 7 of most Adaptation Modification menus will show the adaptation data file in use - either BASELINE or CURRENT. This will be the file presently being used to run CPCI 01 software. This line will also show the adaptation data file currently selected by the operator for Inspect/Change - BASELINE, CURRENT or, if no file selected, all blanks.

1-4.8.1 Adaptation Control Menu.
This menu is displayed after the ICRA command has been issued. (See paragraph 1-3.3.12 ICRA - Inspect/Change RDA Adaptation Data..) The ICRA command causes this first level Adaptation Data Modification menu to be displayed in the Menu Area. The following selections may be made by the operator:

a. (CF) Choose File for Next Restart (see paragraph 1-4.8.2 Choose File for Next Restart Menu.) - Only allowed if a proper password has been entered.

b. (SF) Select File for Inspect/Change (see paragraph 1-4.8.3 Select File for Modification Menu.) - Only allowed if a file is not currently selected.

c. (A) Adaptation Edit Control (see paragraph 1-4.8.4 Adaptation Edit Control Menu.) - Only allowed after a file has been selected for Inspect/Change. This is indicated by line 7 which displays the file currently selected by the operator for Inspect/Change.

d. (M) Main Menu (see paragraph 1-4.1 Main Menu.) - Always allowed. The present environment of the Adaptation Data Modification is saved. Any changes made to data will remain pending in memory until canceled or saved to disk by use of the Adapta-

tion Edit Control menu (see paragraph 1-4.8.4 Adaptation Edit Control Menu.).

1-4.8.2 Choose File for Next Restart Menu.
This second level Adaptation Data Modification menu is displayed when the CF, Choose File, command has been issued from the Adaptation Control menu (see paragraph 1-4.8.1 Adaptation Control Menu.). The following selections may be made by the operator:

a. (B) Baseline Version - When Baseline Version is selected, the RDA State file on disk is changed so that upon next restart or cold start of the RDA, the unedited Baseline version of adaptation data will be used by CPCI 01.

b. (C) Current Version - When Current Version is selected, the RDA State file on disk is changed so that upon next restart or cold start of the RDA, the edited Current version of adaptation data will be used by CPCI 01. If a Current version does not exist, no change is made to the RDA State file and an error message is displayed on the feedback line.

c. (AC) Adaptation Control Menu (see paragraph 1-4.8.1 Adaptation Control Menu.) - May be selected in order to exit this menu.

d. (M) Main Menu (see paragraph 1-4.1 Main Menu.) - May be selected in order to exit this menu.

1-4.8.3 Select File for Modification Menu.
This second level Adaptation Data Modification menu is displayed when the SF, Select File, command has been issued from the Adaptation Control menu (see paragraph 1-4.8.1 Adaptation Control Menu.). The following selections may be made by the operator:

a. (B) Baseline Version - When Baseline Version is selected, the program reads the Baseline version of the adaptation data from disk into memory, updates line 7 to indicate that the file being modified is Baseline, and then displays the Adaptation Edit Control menu (see paragraph 1-4.8.4 Adaptation Edit Control Menu.).

b. (C) Current Version - When Current Version is selected, the program verifies the existence of and then reads the Current version of the adaptation data from disk into memory, updates line 7 to indicate that the file being modified is Current, and then displays the Adaptation Edit Control menu (see paragraph 1-4.8.4 Adaptation Edit Control Menu.). If a Current version does not exist the operator will be notified of this on the feedback line.

c. (AC) Adaptation Control Menu (see paragraph 1-4.8.1 Adaptation Control Menu.) - Always selectable and will result in no changes to the Adaptation Data Modification environment.

d. (M) Main Menu (see paragraph 1-4.1 Main Menu.) - Always selectable and will result in no changes to the Adaptation Data Modification environment.

1-4.8.4 Adaptation Edit Control Menu.
This third level Adaptation Data Modification menu is displayed when selected from the Adaptation Control menu (see paragraph 1-4.8.1 Adaptation Control Menu.) when a file version is selected from the Select File for Modification menu (see paragraph "Select File for Modification Menu." on page 32), or when selected from any level 4 menu (inspecting or changing a data1-4.8.1 Adaptation Control Menu. item). There are two different types of selections that may be made from this menu - Adaptation type or Function. Adaptation type selections are as follows:

a. (T) Tower
b. (A) Antenna
c. (S) SPS
d. (TR) Transmitter
e. (R) Receiver
f. (W) Wideband
g. (SO) SOT
h. (P) Password.

Selection of any of these types will bring up the first page of the selected data type for Inspection (see paragraph 1-4.8.5 Inspect Menus.) if the operator is allowed to inspect only, or the first page of the selected data type for Change if the operator is allowed to modify data.

Functions selectable are as follows:

a. (CE) Cancel Edit - When Cancel Edit is selected, any pending changes in memory are terminated, the file being modified on line 7 is cleared and the Adaptation Control menu (see paragraph 1-4.8.1 Adaptation Control Menu.) is displayed. This selection prevents any changes, previously entered during the present change session, from being written to the Current version of Adaptation Data on disk.

b. (SC) Save Changes - When Save Changes is selected, all pending changes in memory are written to the Current version of Adaptation Data on disk, the file being modified on line 7 is cleared, and the Adaptation Control menu (see paragraph 1-4.8.1 Adaptation Control Menu.) is displayed. This selection is only valid if ICRA was entered with a valid password.

c. (AC) Adaptation Control Menu (see paragraph 1-4.8.1 Adaptation Control Menu.) - Always selectable and will result in no changes to the Adaptation Data Modification environment.

d. (M) Main Menu (see paragraph 1-4.1 Main Menu.) - Always selectable and will result in no changes to the Adaptation Data Modification environment.

1-4.8.5 Inspect Menus.
These fourth level Adaptation Data Modification menus are displayed when an Adaptation type (i.e., Tower, Antenna, etc.) is selected from the Adaptation Edit Control menu (see paragraph 1-4.8.4 Adaptation Edit Control Menu.). The first page of a type will be displayed listing up to 10 separate data items. For each data item the following will be displayed: line number, English text description, present value, and units. The following selections may be made by the operator:

a. (A) Adaptation Edit Control Menu (see paragraph 1-4.8.4 Adaptation Edit Control Menu.) - Used to exit the Inspect menus.

b. (M) Main Menu (see paragraph 1-4.1 Main Menu.) - Used to exit the Inspect menus.

c. (F) Forward Page - Allows the operator to inspect the next page of up to 10 data items of this data type. Selecting Forward Page from the last page will display the first page of this data type.

d. (B) Back Page - Allows the operator to inspect the previous page of up to 10 data items of this data type. Selecting Back Page from the first page will display the last page of

this data type.

1-4.8.6 Change Menus.

These fourth level Adaptation Data Modification menus are displayed when an Adaptation type (i.e., Tower, Antenna, etc.) is selected from the Adaptation Edit Control menu (see paragraph 1-4.8.5 Inspect Menus.). The first page of a type will be displayed listing up to 10 separate data items. For each data item the following will be displayed: line number, English text description, present value, and units. The following selections may be made by the operator:

a. (C) Change <line #> - When the operator desires to change a value, he must enter a "C" and the line number of the data item. Only those data items listed on the displayed page which also correspond to the previously entered password level will be allowed to be selected.

b. (A) Adaptation Edit Control Menu (see paragraph 1-4.8.4 Adaptation Edit Control Menu.) - Used to exit the Change menus.

c. (M) Main Menu (see paragraph 1-4.1 Main Menu.) - Used to exit the Change menus.

d. (F) Forward Page - Allows the operator to observe the next page of up to 10 data items of this data type. Selecting Forward Page from the last page will display the first page of this data type.

e. (B) Back Page - Allows the operator to observe the previous page of up to 10 data items of this data type. Selecting Back Page from the first page will display the last page of this data type.

1-4.8.7 Enter New Data Value Menus.

These fifth level Adaptation Data Modification menus are displayed when a valid change line number is selected from a Change menu (see paragraph 1-4.8.6 Change Menus.). Lines 7 through 17 of the Main Area remain unchanged. Line 24, the Command Line, will be cleared. Line 20 will list the allowable range of values that may be entered for the selected data item. Line 21 will display the selected adaptation data line as displayed in the Main Area but with the cursor positioned on the leftmost character of the data value ready for operator entry of the new value. Entries may be terminated with one or more spaces after at least one valid character has been entered. For example, to change [-1.234567] to [+1], enter 1, space, SEND key. The field will look as such: [1 .234567]. It is not necessary to space over the remaining characters in the field. Other ways to enter a [+1] are: enter +,1,space,SEND key; enter +,1,.,0,space,SEND key; enter space,1,space,SEND key. All proper entries will result in the new value being displayed in the Menu Area, and lines 20 and 21 to be overwritten to show the allowable selections now valid (see paragraph 1-4.8.6 Change Menus.). All improper values (non-numeric characters or values not within the displayed allowable range) will result in an illegal entry message displayed on the feedback line, line 21 being rewritten with the previous value displayed, and the cursor repositioned on the leftmost character again. If the operator wishes to make no change to the value, he may enter only the SEND key or may enter spaces over all the characters then enter the SEND key, or reenter the existing characters and the SEND key. Lines 20 and 21 will be overwritten to show the allowable selections now valid. (See paragraph 1-4.8.6 Change Menus..)

Section 1-5. Error Recovery

There are very few situations that will result in an error condition. However, if an error condition exists, the MMI will be reinitialized and the screen will be repainted with the Main Menu.

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Chapter 2
Parameter Defaults

All of the commands that accept parameters have associated parameter defaults. The defaults for these commands are listed in APPENDIX B.

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Chapter 3
Summary RDA Status Area

The following information is updated periodically in the Summary RDA Status Area:

Field	Possible Values
MODE	LOC/REM/(L/R)/MMI/RMS; OPER/MAINT
STATE	SHTDN/INOP/MNT MAN/MNT REQ/ON LINE
STAT	STUP/STBY/RSTUP/OPER/PLYBK/OLOPER; L/R; ____(Integer)
REDUNDANT	C/N-C; ____(Integer) (Redundant Channel System Only)
ISU	D/E; +/-____(Integer)
CAL#	+/-__.__(real)DB; A/M (real is inverse when M is displayed)
ARCH 2	NA/RECORD/LOADED/SEARCH/PLAYBACK/CK LABEL/FST FWD/TAPE XFR/INST
CAP	___VOL (Integer)
TAPE	NA/#01/#02/#03/#04/#05/#06/#07/#08/#09/#10
XMTR	ALRM/WARMUP/STBY/READY (ALRM and WARMUP are inverse video)
AVG PWR	____W (Integer)
SWITCH	ANT/DUM LD
PRF #	-,- (one or two Integers)
ANT/PED	OK/ALRM/(N/C) (ALRM is inverse video)
AZ	___.__DEG
EL	___.__DEG
RDA CTL	OK/ALRM (ALRM is inverse video)
TWR UTIL	OK/ALRM (ALRM is inverse video)
RCVR/SP	OK/ALRM (ALRM is inverse video)
RPG LINK	NONE/R/V/W/FAIL/OFF (Combinations of R,V, and W are allowed; FAIL is inverse video)
USR LINK	NONE/R/V/W/FAIL/OFF (Combinations of R,V, and W are allowed; FAIL is inverse video)

Section 3-1. Mode

The Mode field displays both the Control State and the Operating Mode of the RDA. Possible values for the Control State are as follows: LOC, indicating Local control of the RDA; REM, indicating Remote control of the RDA; and L/R, indicating Either control of the RDA. When in Local control, the RDA can be commanded only from the RDA MMI operational position or the RMS (Remote Monitoring System) on FAA redundant sites. When in Remote control, the RDA can be commanded only from the RPG UCP position. When in Either control, the RDA can be commanded from either the RDA or RPG. When in RMS control, the RDA can be commanded only from the FAA RMS; or when in MMI control, only form the MMI on FAA RMS. For a detailed list of which commands are accepted in the different Control States, see Appendix D.

Possible values for the Operating Mode are OPER, indicating Operational mode; and MAINT, indicating Maintenance mode. The Maintenance mode is used to execute maintenance volume coverage patterns (those with a number greater than 255).

Section 3-2. State

The State field displays the Operability Status of the RDA. Possible values for the Operability Status are as follows: SHTDN, indicating the RDA is in the process of performing a commanded shutdown; INOP, indicating the RDA is inoperable and unable to produce radar data; MNT MAN, indicating Maintenance Action Mandatory requiring corrective action to be taken as soon as possible. Failure to take timely action may result in the RDA becoming inoperable; MNT REQ, indicating Maintenance Action Indicated requiring corrective action to be taken at a convenient time. Failure to correct the problem may result in the RDA reaching a Maintenance Action Mandatory state; ON LINE, indicating the RDA is fully capable of operating to produce good radar data.

Section 3-3. STAT

The Status field displays both the Operating State of the RDA and the Volume Coverage Pattern information when applicable. Possible values for the Operating State are as follows: STUP, indicating Startup of the RDA is in progress. This condition continues until all hardware and software initialization has completed; STBY, indicating Standby state which means all software and hardware is initialized and performing periodic calibrations; RSTUP, indicating Restart of the RDA is in progress; OPER, indicating Operate state which means the RDA is currently executing a Volume Coverage Pattern to produce radar data; PLYBK, indicating Playback state which means the RDA is playing back data from the Archive II device; OLOPER, indicating Offline Operate state which allows test of the non-controlling channel of a dual channel configured RDA.

Section 3-4. Redundant

When the operating state of the RDA is Operate, Volume Coverage Pattern information is displayed. An "L" is displayed if the pattern is a remote pattern (requested from the RPG). The number of the executing pattern is also displayed. If the operator has not specifically selected a VCP number, the RDA will execute the default VCP number which is specified in Adaptation Data. If a new VCP number is requested to execute, the presently executing VCP will be allowed to complete before the change to the new VCP number is made. VCP numbers greater than 255 are Maintenance/Test patterns and may only be selected when the RDA is in the Maintenance Mode (Mode field indicates MAINT).

Section 3-5. ISU

The ISU field displays information about the Interference Suppression Unit. This field will have a "D" or an "E" indicating the ISU is Disabled or Enabled followed by an integer field indicating the interference detection rate (Interference Detection Tag Count, (defined in ICD 1208300E) divided by Time (secs) Elapsed Disabling the Elevation Cut). This number is updated after every elevation cut.

Section 3-6. CAL#

The CAL # field displays the System Reflectivity Calibration (SYSCAL) number of units of biased dBZ. This number is used by the PSP to calculate reflectivity from signal power. This number is calculated from reflectivity calibration measurements and represents the difference in the SYSCAL value sent to the PSP and the SYSCAL value in Adaptation Data, and is expressed in dBZ. This number is shown in inverse video whenever the operator has chosen to Override Auto Calibration, in which case this is the operator-selected offset increment value for SYSCAL. The second item displayed in this field is an "A" indicating Automatic Calibration of SYSCAL is performed by the program or an "M" indicating Manual or Override Auto Calibration in which case the operator has specified the offset increment to be applied to the Adaptation Data Calibration parameter.

Section 3-7. ARCH 2

The ARCH 2 field displays the summary status of the Archive II device. Possible values for the ARCH 2 field are as follows: NA, indicating that the archive device is not installed and therefore not available for selection; RECORD, indicating that the archive device is recording; LOADED, indicating the Archive II device is currently loaded; SEARCH, indicating that the Archive II device is doing a binary search for a selected file; PLAYBACK, indicating the Archive II device is playing back data; CK LABEL, indicating the Archive II device is checking for a tape label; FST FWD, indicating fast-forwarding of the tape to end-of-data; TAPE XFR, indicating a tape transfer is in progress; INST, indicating that the archive device is installed per the Adaptation Data variable.

Section 3-8. CAP

The CAP field displays the remaining capacity, in volumes, of the Archive II device. This number reflects the worst case condition (most data in least amount of time). If the worst case Volume Coverage Pattern is not selected, then the capacity will be greater than the number displayed.

Section 3-9. XMTR

The XMTR field displays the summary status of the transmitter. Possible values for the XMTR field are as follows: ALRM (inverse video), indicating there is an alarm condition of the transmitter; WARMUP (inverse video), indicating that the klystron is in a preheat condition; STBY, indicating that the heater and ion pump are active and the klystron cathode is warmed up and the transmitter high voltage is off; READY, indicating the transmitter high voltage is on and no alarm conditions exist with the transmitter. Detailed information concerning the transmitter is available by selecting to display the transmitter performance data menus (DIPD TOW).

If the RDA has been configured to support spot blanking, the XMTR field also displays the RDA spot blanking status. When spot blanking is enabled, the letters 'SB' will appear one space to the right of XMTR.

Section 3-10. AVG PWR

The AVG PWR field displays the computed average transmitter power in watts. This value is updated at the end of every elevation cut.

Section 3-11. Switch

The SWITCH field displays the reported position of the wave guide switch. Possible values for the SWITCH field are as follows: DUM LD, indicating that the wave guide switch is in the dummy load position; ANT, indicating that the wave guide switch is in the antenna position. When in the dummy load position, the transmitter power does not radiate through the antenna.

Section 3-12. PRF

The PRF # field displays the PRF number(s) that are associated with the elevation cut in progress. There are two fields separated by a comma. The first value indicates the surveillance PRF number and the second value indicates the doppler PRF number. Batch cuts will display both a surveillance and a doppler PRF number. Blanks in both fields indicate that the system is not presently running an elevation cut (transmitter is not on).

Section 3-13. ANT/PED

The ANT/PED field displays the summary status of the antenna pedestal. Possible values for the ANT/PED field are as follows: ALRM (inverse video), indicating there is an alarm condition in the antenna/pedestal; OK, indicating there are presently no alarm conditions present in the antenna/pedestal; N-C, indicating that the DAU indicates that this RDA is not the controlling one in a redundant system. Detailed information concerning the antenna/pedestal is available by selecting to display the antenna/pedestal performance data menu (DIPD ANT).

Section 3-14. AZ

The AZ field displays the current azimuth position of the antenna reported by the pedestal electronics. The values range from 0 DEG to 359.96 DEG. with 0 DEG indicating North. This value is updated approximately every one second.

Section 3-15. EL

The EL field displays the current elevation position of the antenna reported by the pedestal electronics. The values range from approximately -2 DEG to approximately +60 DEG. This range is limited by the physical stops on the pedestal.

Section 3-16. RDA CTL

The RDA CTL field displays the summary status of the Control RDA function. Possible values for the RDA CTL field are as follows: ALRM (inverse video), indicating there is an alarm condition related to the Control RDA function; OK, indicating there are presently no alarm conditions present in this function. Alarm types that cause ALRM to be displayed in this field include UART failures, maintenance console power supply failures, A/D out of tolerance, and DAU initialization errors.

Section 3-17. TWR UTIL

The TWR UTIL field displays the summary status of the tower/utilities. Possible values for the TWR UTIL field are as follows: ALRM (inverse video), indicating there is an alarm condition present tower/utility hardware; OK, indicating there are no alarm conditions present in the tower/utility hardware. Detailed information concerning the tower/utility hardware is available by selecting to display the tower/utility performance data menus (DIPD TOW).

Section 3-18. RCVR/SP

The RCVR/SP field displays the summary status of receiver and signal processor subsystem. Possible values for the RCVR/SP field are as follows: ALRM (inverse video), indicating that an alarm condition is present in the receiver or signal processor subsystem; OK, indicating there are no alarm conditions present in the receiver or signal processor subsystem. Detailed information concerning the receiver and signal processor is available by selecting to display the Receiver/Signal Processor performance data menus (DIPD REC).

Section 3-19. RPG LINK

The RPG LINK field displays the summary status of the RPG Wideband Communication link. Possible values for the RPG LINK field are as follows: OFF, indicating that a wideband link with the RPG has not been established since CPCI 01 was last restarted; FAIL (inverse video), indicating that a wideband link connection has been established with the RPG but that the link is presently disconnected; (R,V,W) any one or any combination of these three letters, indicating that reflectivity (R), velocity (V), or spectrum width (W) data is being generated and sent to the RPG; NONE, indicating that a wideband link with the RPG is established but no data has been selected by the operator (ENDT N).

Section 3-20. USR LINK

The USR LINK field displays the summary status of the USR Wideband Communication link. Possible values for the USR LINK field are as follows: OFF, indicating that a wideband link with the USR has not been established since CPCI 01 was last restarted; FAIL (inverse video), indicating that a wideband link connection has been established with the USR but that the link is presently disconnected; (R,V,W) any one or any combination of these three letters, indicating that reflectivity (R), velocity (V), or spectrum width (W) data is being generated and sent to the USR; NONE, indicating that a wideband link with the USR is established but no data has been selected by the operator (ENDT N).

Section 3-21. TAPE

The TAPE field displays the current tape in use if an Archive II Subsystem (Jukebox) is installed and the RECORD function is active. Possible values are: NA - Archive II not active, and the numbers 1 through 10 for the current tape in use.

Note: When 10 tapes are first installed (After taking the software down via 'TERP FLOYD' command), or when all 10 tapes are full (and the 10th tape has completed recording), the tape value will be NA.

Chapter 4
System Console Messages

During Cold Startup, the RDASC may display one of five error messages (See APPENDIX I) at the System Console. These error types are all detected before the RDASC is able to bring the MMI screen up to a useable state. These error types can only occur during Cold Startup and will result in the Cold Startup being aborted. One possible cause of these alarms may be that the disk files have been corrupted. If this is the case, an appropriate action would be to reload all CPCI 01 software from tape to disk. For a comprehensive list of all other error messages displayed at the System Console, refer to Concurrent Computer Corporation (CCUR) OS/32 System Messages Reference Manual, 48-471 F00 R00.

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APPENDIX A

MENUS

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           1111111111222222222233333333334444444444555555555566666666667777777778
  12345678901234567890123456789012345678901234567890123456789012345678901234567890
 +--------------------------------------------------------------------------------+
01|MODE           |ISU             |XMTR           |ANT/PED        |TWR UTIL       |
02|STATE          |CAL#        DB  | AVG PWR      W| AZ         DEG|RCVR/SP        |
03|STAT           |ARCH 2          | SWITCH        | EL         DEG|RPG LINK       |
04|               |CAP         TAPE|PRF #       ,  |RDA CTL        |USR LINK       |
05|                                  ALARM                                         |
06|                                  AREA                                          |
07|                                  MAIN MENU                                     |
08| _ REQUEST LOCAL CTL      _ ENABLE DATA TRANSMISSION ____                        |
09| _ ENABLE REMOTE CTL      _ ARCHIVE II __  ___                                   |
10|                          _ OVERRIDE RADIATE INHIBIT __                          |
11| _ OPERATE     _ STBY     _ OVERRIDE AUTO CALIB ______ DB  _ SWITCH TO AUX PWR  |
12| _ OL OPERATE  _RSTRT     _ ENABLE AUTO CALIB              _ SWITCH TO UTIL PWR |
13| _ PLAYBACK                                                                      |
14| _ SELECT MODE (M/O) __   _ DISPLAY PERFORMANCE DATA ____  _ SEND MESSAGE       |
15| _ SELECT PATTERN ____    _ I/C RDA ADAPT DATA ______      _ DISPLAY MESSAGE    |
16|   CONT CHAN              _ WRITE LOG DATA TO TAPE                               |
17|   NON-CONT CHAN          _ ENTER LOG DATA                                       |
18| _ ENABLE ISU             _ DISPLAY LOG DATA:                TERM PROGRAM _____ |
19| _ DISABLE ISU                              __ / __ / ___                        |
20|                                       TO  __ / __ / ___                        |
21|                       _ HELP MENU                                               |
22|<FEEDBACK LINE>                                                                  |
23|<MESSAGE STATUS LINE>                                                            |
24|                         COMMAND: _____           PARAMETER(S): ______          |
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Main Menu/Summary RDA Status Lines (Single Channel System)

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          1111111111222222222233333333334444444444555555555566666666667777777778
  12345678901234567890123456789012345678901234567890123456789012345678901234567890
 +--------------------------------------------------------------------------------+
01|MODE           |ISU             |XMTR           |ANT/PED        |TWR UTIL       |
02|STATE          |CAL#        DB  | AVG PWR      W| AZ         DEG|RCVR/SP        |
03|STAT           |ARCH 2          | SWITCH        | EL         DEG|RPG LINK       |
04|REDUNDANT      |CAP         TAPE|PRF #       ,  |RDA CTL        |USR LINK       |
05|                                 ALARM                                          |
06|                                 AREA                                           |
07|                                 MAIN MENU                                      |
08| _ REQUEST LOCAL CTL      _ ENABLE DATA TRANSMISSION ____                        |
09| _ ENABLE REMOTE CTL      _ ARCHIVE II __  ___                                   |
10|                          _ OVERRIDE RADIATE INHIBIT __                          |
11| _ OPERATE     _ STBY     _ OVERRIDE AUTO CALIB ______ DB  _ SWITCH TO AUX PWR  |
12| _ OL OPERATE  _RSTRT     _ ENABLE AUTO CALIB              _ SWITCH TO UTIL PWR |
13| _ PLAYBACK                                                                      |
14| _ SELECT MODE (M/O) __   _ DISPLAY PERFORMANCE DATA ____  _ SEND MESSAGE       |
15| _ SELECT PATTERN ____    _ I/C RDA ADAPT DATA ______      _ DISPLAY MESSAGE    |
16|   CONT CHAN _____        _ WRITE LOG DATA TO TAPE                               |
17|   NON-CONT CHAN _____    _ ENTER LOG DATA                                       |
18| _ ENABLE ISU             _ DISPLAY LOG DATA:                TERM PROGRAM _____ |
19| _ DISABLE ISU                              __ / __ / ___                        |
20|                                       TO  __ / __ / ___                        |
21|                       _ HELP MENU                                               |
22|<FEEDBACK LINE>                                                                  |
23|<MESSAGE STATUS LINE>                                                            |
24|                         COMMAND: _____           PARAMETER(S): ______          |
 +--------------------------------------------------------------------------------+
```

Main Menu/Summary RDA Status Lines (Redundant Channel System)

```
           1111111111222222222233333333334444444444555555555566666666667777777778
  12345678901234567890123456789012345678901234567890123456789012345678901234567890
 +--------------------------------------------------------------------------------+
01|                                                                                |
02|                                                                                |
03|                                STATUS LINES                                    |
04|                                                                                |
 |--------------------------------------------------------------------------------|
05|                                    ALARM                                       |
06|                                    AREA                                        |
07|                                MNEMONIC DEFINITION                             |
08|CONTROLLING CHANNEL - (CONC)          OPERATE - (OPER)                          |
09|DISABLE ISU - (DISI)                  PAGE BACKWARD - (PAGB)                    |
10|DISPLAY MESSAGE - (DISM)              PAGE FORWARD - (PAGF)                     |
11|ENABLE AUTO CALIBRATION - (ENAC)      PLAYBACK - (PLAY)                         |
12|ENABLE ISU - (ENAI)                   REQUEST LOCAL CONTROL - (RELC)            |
13|ENABLE REMOTE CONTROL - (ENRC)        RESTART - (REST)                          |
14|ENTER LOG DATA - (ENLD)               SEND MESSAGE - (SENM)                     |
15|HELP - (HELP)                         STANDBY - (SDBY)                          |
16|INSPECT/CHANGE RDA ADAPT DATA - (ICRA) SWITCH TO AUX POWER - (STAP)             |
17|MAIN - (MAIN)                         SWITCH TO UTILITY POWER - (STUP)          |
18|NON-CONTROLLING CHANNEL - (NONC)      TERMINATE PROGRAM - (TERP)                |
19|OFFLINE OPERATE - (OLOP)              TERMINATE PROGRAM - (TERP)                |
20|                                                                                |
21|     _ MAIN MENU       _ HELP MENU         _ PAGE FORWARD      _ PAGE BACKWARD  |
22|          NO MESSAGE                                                            |
23|                                                                                |
24|                        COMMAND: _____           PARAMETER(S): ______          |
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```

Help - Screen 1

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  12345678901234567890123456789012345678901234567890123456789012345678901234567890
 +--------------------------------------------------------------------------------+
01|                                                                                |
02|                                                                                |
03|                                 STATUS LINES                                   |
04|                                                                                |
 |--------------------------------------------------------------------------------|
05|                                     ALARM                                      |
06|                                     AREA                                       |
07|                                MNEMONIC DEFINITION                             |
08|ARCHIVE II  -  (ARCH)                                                           |
09|   PARAMETERS: E [NN]-ENABLE [NUMBER OF SCANS]                                  |
10|               D-DISABLE                                                        |
11|DISPLAY LOG DATA  MM/DD/YY  -  (DILD)                                           |
12|   PARAMETERS: M-MONTH  D-DAY  Y-YEAR                                           |
13|DISPLAY PERFORMANCE DATA  -  (DIPD)                                             |
14|   PARAMETERS: ANT-ANTENNA/PEDESTAL   REC-RECEIVER SIGNAL       WID-WIDEBAND COM|
15|               TOW-TOWER UTILITIES    XMT-TRANSMITTER           CAL-CALIBRATION |
16|               CHK-CALIBRATION CHECK  DFS-DISK FILE STATUS      DVC-DEVICE STAT |
17|                                                                                |
18|ENABLE DATA TRANSMISSION  -  (ENDT)                                             |
19|   PARAMETERS: R-REFLECTIVITY  V-VELOCITY  W-WIDTH  A-ALL  N-NONE               |
20|                                                                                |
21|     _ MAIN MENU       _ HELP MENU         _ PAGE FORWARD     _ PAGE BACKWARD  |
22|<FEEDBACK LINE>                                                                 |
23|<MESSAGE STATUS LINE>                                                           |
24|                         COMMAND: _____           PARAMETER(S): ______          |
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```

Help - Screen 2

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01|                                                                                |
02|                                                                                |
03|                                 STATUS LINES                                   |
04|                                                                                |
 |--------------------------------------------------------------------------------|
05|                                     ALARM                                      |
06|                                     AREA                                       |
07|                                MNEMONIC DEFINITION                             |
08|                                                                                |
09|                                                                                |
10|                                                                                |
11|OVERRIDE AUTO CALIBRATION  -  (OVAC)                                            |
12|   PARAMETERS: -10.0 TO 10.0                                                    |
13|OVERRIDE RADIATE INHIBIT  -  (OVRI)                                             |
14|   PARAMETERS: E-ENABLE  D-DISABLE                                              |
15|SELECT MODE  -  (SELM)                                                          |
16|   PARAMETERS: M-MAINTENANCE  O-OPERATE                                         |
17|SELECT PATTERN  -  (SELP)                                                       |
18|   PARAMETERS: PATTERN NUMBER FROM 0 TO 999                                     |
19|               (NUMBERS GREATER THAN 255 REPRESENT MAINTENANCE PATTERNS)        |
20|                                                                                |
21|     _ MAIN MENU      _ HELP MENU         _ PAGE FORWARD     _ PAGE BACKWARD    |
22|<FEEDBACK LINE>                                                                 |
23|<MESSAGE STATUS LINE>                                                           |
24|                         COMMAND: _____           PARAMETER(S): ______          |
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```

Help - Screen 3

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   12345678901234567890123456789012345678901234567890123456789012345678901234567890
  +--------------------------------------------------------------------------------+
01|                                                                                |
02|                                                                                |
03|                                STATUS LINES                                    |
04|                                                                                |
  |--------------------------------------------------------------------------------|
05|                                    ALARM                                       |
06|                                    AREA                                        |
07|                                LOG DATA ENTRY                                  |
08|TIME AND DATE OF MAINTENANCE ACTION       :         /    /     (HH:MM  MM/DD/YY)|
09|TIME AND DATE TECHNICIAN NOTIFIED         :         /    /     (HH:MM  MM/DD/YY)|
10|TIME AND DATE MAINT ACTION COMPLETE       :         /    /     (HH:MM  MM/DD/YY)|
11|IDENTIFICATION OF MAINTENANCE PERSONNEL:                                        |
12|                                                                                |
13|RESPONSE PRIORITY:                                                              |
14|STATION IDENT:                        EQUIPMENT IDENT:                          |
15|SERIAL NUMBER:                                                                  |
16|TYPE OF MAINT ACTION (PREVENTIVE OR REMEDIAL):                                  |
17| SYMPTOMS OF FAILURE:                                                           |
18|                                                                                |
19| CONDITIONS (OP MODE, ENVIRONMENT):                                             |
20|                                                                                |
21|     _ MAIN MENU       _ HELP MENU                                              |
22|<FEEDBACK LINE>                                                                 |
23|<MESSAGE STATUS LINE>                                                           |
24|                        COMMAND: _____           PARAMETER(S): ______          |
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```

Log Data Input Menu 1

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           1111111111222222222233333333334444444444555555555566666666667777777778
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 +--------------------------------------------------------------------------------+
01|                                                                                |
02|                                                                                |
03|                                STATUS LINES                                    |
04|                                                                                |
 |--------------------------------------------------------------------------------|
05|                                    ALARM                                       |
06|                                    AREA                                        |
07|                                LOG DATA ENTRY                                  |
08|DESCRIPTION OF FAILURE/CORRECTIVE ACTION:                                       |
09|                                                                                |
10|                                                                                |
11|CAUSE OF FAILURE:                                                               |
12|                                                                                |
13|                                                                                |
14|REPAIR TIME (BY CAUSE) (HHH:MM) TOTAL     :    DELAY     :    TRAVEL     :      |
15| PARTS NOT AVAIL      :       TECH NOT ON DUTY     :         WEATHER     :      |
16| OTHER PRIORITIES     :       REQUESTED DELAY      :                             |
17| OTHER (SPECIFY):                                                       :      |
18|DIAGNOSTICS RUN:                                                                |
19|                                                                                |
20|PARTS REPLACED (Y/N): __                                                        |
21|     _ MAIN MENU       _ HELP MENU                                              |
22|<FEEDBACK LINE>                                                                 |
23|<MESSAGE STATUS LINE>                                                           |
24|                         COMMAND: _____           PARAMETER(S): ______          |
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```

Log Data Input Menu 2

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01|                                                                                |
02|                                                                                |
03|                                STATUS LINES                                    |
04|                                                                                |
 |--------------------------------------------------------------------------------|
05|                                    ALARM                                       |
06|                                    AREA                                        |
07|                                LOG DATA ENTRY                                  |
08|PART REPLACED                                                                   |
09| PART IDENTIFICATION:                                                           |
10| PART FEDERAL STOCK NUMBER:                                                     |
11| PART SERIAL NUMBER (OR N/A):                                                   |
12| CARD SLOT NUMBER (OR N/A):                                                     |
13| LOGIC UNIT NUMBER (OR N/A):                                                    |
14| LOGISTICS DELAY IN SECURING PART (HHH:MM)          :                           |
15| DISPOSITION OF PART:                                                           |
16|                                                                                |
17|WAS ANOTHER PART REPLACED (8 MAXIMUM) (Y/N): __                                 |
18|                                                                                |
19|                                                                                |
20|                                                                                |
21|     _ MAIN MENU       _ HELP MENU                                              |
22|<FEEDBACK LINE>                                                                 |
23|<MESSAGE STATUS LINE>                                                           |
24|                         COMMAND: _____           PARAMETER(S): ______          |
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```

Log Data Input Menu 3

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01|                                                                                |
02|                                                                                |
03|                                STATUS LINES                                    |
04|                                                                                |
 |--------------------------------------------------------------------------------|
05|                                     ALARM                                      |
06|                                     AREA                                       |
07|                        REQUEST LOG DATA  <DATE OF ENTRY>                       |
08|TIME AND DATE OF MAINTENANCE ACTION    :      /  /                              |
09|TIME AND DATE TECHNICIAN NOTIFIED      :      /  /                              |
10|TIME AND DATE MAINT ACTION COMPLETE    :      /  /                              |
11|IDENTIFICATION OF MAINTENANCE PERSONNEL:                                        |
12|                                                                                |
13|RESPONSE PRIORITY:                                                              |
14|STATION IDENT:                        EQUIPMENT IDENT:                          |
15|SERIAL NUMBER:                                                                  |
16|TYPE OF MAINT ACTION (PREVENTIVE OR REMEDIAL):                                  |
17| SYMPTOMS OF FAILURE:                                                           |
18|                                                                                |
19| CONDITIONS (OP MODE, ENVIRONMENT):                                             |
20|                                                                                |
21|     _ MAIN MENU       _ HELP MENU          _ PAGE FORWARD    _ PAGE BACKWARD   |
22|<FEEDBACK LINE>                                                                 |
23|<MESSAGE STATUS LINE>                                                           |
24|                         COMMAND: _____           PARAMETER(S): ______          |
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Log Data Output Menu 1

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 +--------------------------------------------------------------------------------+
01|                                                                                |
02|                                                                                |
03|                                 STATUS LINES                                   |
04|                                                                                |
 |--------------------------------------------------------------------------------|
05|                                     ALARM                                      |
06|                                     AREA                                       |
07|                        REQUEST LOG DATA  <DATE OF ENTRY>                       |
08|DESCRIPTION OF FAILURE/CORRECTIVE ACTION:                                       |
09|                                                                                |
10|                                                                                |
11|CAUSE OF FAILURE:                                                               |
12|                                                                                |
13|                                                                                |
14|REPAIR TIME (BY CAUSE)      TOTAL     :      DELAY     :      TRAVEL     :      |
15| PARTS NOT AVAIL      :     TECH NOT ON DUTY     :           WEATHER     :      |
16| OTHER PRIORITIES     :     REQUESTED DELAY      :                               |
17| OTHER (SPECIFY):                                                       :      |
18|DIAGNOSTICS RUN:                                                                |
19|                                                                                |
20|PARTS REPLACED:                                                                 |
21|     _ MAIN MENU       _ HELP MENU          _ PAGE FORWARD    _ PAGE BACKWARD   |
22|<FEEDBACK LINE>                                                                 |
23|<MESSAGE STATUS LINE>                                                           |
24|                         COMMAND: _____           PARAMETER(S): ______          |
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```

Log Data Output Menu 2

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           1111111111222222222233333333334444444444555555555566666666667777777778
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 +--------------------------------------------------------------------------------+
01|                                                                                |
02|                                                                                |
03|                                STATUS LINES                                    |
04|                                                                                |
 |--------------------------------------------------------------------------------|
05|                                     ALARM                                      |
06|                                     AREA                                       |
07|                        REQUEST LOG DATA  <DATE OF ENTRY>                       |
08|PART REPLACED                                                                   |
09| PART IDENTIFICATION:                                                           |
10| PART FEDERAL STOCK NUMBER:                                                     |
11| PART SERIAL NUMBER:                                                            |
12| CARD SLOT NUMBER:                                                              |
13| LOGIC UNIT NUMBER:                                                             |
14| LOGISTICS DELAY IN SECURING PART:           :                                  |
15| DISPOSITION OF PART:                                                           |
16|                                                                                |
17|WAS ANOTHER PART REPLACED (8 MAXIMUM):                                          |
18|                                                                                |
19|                                                                                |
20|                                                                                |
21|     _ MAIN MENU       _ HELP MENU          _ PAGE FORWARD    _ PAGE BACKWARD   |
22|<FEEDBACK LINE>                                                                 |
23|<MESSAGE STATUS LINE>                                                           |
24|                         COMMAND: _____           PARAMETER(S): ______          |
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```

Log Data Output Menu 3

```
          1111111111222222222233333333334444444444555555555566666666667777777778
  12345678901234567890123456789012345678901234567890123456789012345678901234567890
 +--------------------------------------------------------------------------------+
01|                                                                                |
02|                                                                                |
03|                                 STATUS LINES                                   |
04|                                                                                |
 |--------------------------------------------------------------------------------|
05|                                     ALARM                                      |
06|                                     AREA                                       |
07|                DISPLAY PERFORMANCE DATA -- TOWER UTILITIES (TOW)  (PG 1 OF 2)  |
08|AC #1 COMPRESSOR   ZZZZZZZ| PWR XFER SWITCH      LLLL| EQUIP SHELTER        KKKK|
09|AC #2 COMPRESSOR   ZZZZZZZ| PWR SOURCE           MMMM| EQUIP SH FIRE SYS    XXXX|
10|TRANS PWR SOURCE   ZZZZZZZ| GEN BATTERY VOLTAGE   TTT| EQUIP SH TEMP   NN.N DEGC|
11|                          | GEN ENGINE           JJJJ| RADOME HATCH       PPPPPP|
12|AC #1 AIR TEMP   NN.N DEGC| GEN VOLT/FREQ   OOOOOOOOO| RADOME AIR TEMP+NN.N DEGC|
13|AC #2 AIR TEMP   NN.N DEGC| UTIL VOLT/FREQ  OOOOOOOOO| OUTSIDE TEMP   +NN.N DEGC|
14|                          | GEN SHELTER          KKKK| XMTR AIR TEMP  +NN.N DEGC|
15|                          | GEN SH FIRE SYS      XXXX| AIRCRAFT LIGHTING    JJJJ|
16|AC #1 FILTER         BBBBB| GEN SHLTER TEMP NN.N DEGC| SITE SECURITY       QQQQQ|
17|AC #2 FILTER         BBBBB| GEN FUEL LEVEL      NNN %| SECURITY EQUIP       JJJJ|
18|                          | GEN MAINT REQD        XXX| SECURITY SYS     DDDDDDDD|
19|                          |                          |                          |
20|                          |                          |                          |
21|     _ MAIN MENU       _ HELP MENU          _ PAGE FORWARD    _ PAGE BACKWARD   |
22|<FEEDBACK LINE>                                                                 |
23|<MESSAGE STATUS LINE>                                                           |
24|                         COMMAND: _____           PARAMETER(S): ______          |
 +--------------------------------------------------------------------------------+
```

Tower Utilities Menu 1

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           1111111111222222222233333333334444444444555555555566666666667777777778
  12345678901234567890123456789012345678901234567890123456789012345678901234567890
 +-------------------------------------------------------------------------------+
01|                                                                               |
02|                                                                               |
03|                                STATUS LINES                                   |
04|                                                                               |
 |-------------------------------------------------------------------------------|
05|                                     ALARM                                     |
06|                                     AREA                                      |
07|                DISPLAY PERFORMANCE DATA -- TOWER UTILITIES (TOW)  (PG 2 OF 2) |
08|         RDA CNTL         |                          |                         |
09|DAU TEST 0            NNN|                          |                         |
10|DAU TEST 1            NNN|                          |                         |
11|DAU TEST 2            NNN|                          |                         |
12|UART                 XXXX|                          |                         |
13|MC +28V PS         NN.NN V|                          |                         |
14|MC +15V PS         NN.NN V|                          |                         |
15|MC + 5V PS         NN.NN V|                          |                         |
16|MC -15V PS        -NN.NN V|                          |                         |
17|CHAN IN CONTROL        ZZZ|                          |                         |
18|INT PROC RESPONSE      ZZZ|                          |                         |
19|                          |                          |                         |
20|                          |                          |                         |
21|     _ MAIN MENU       _ HELP MENU          _ PAGE FORWARD    _ PAGE BACKWARD  |
22|<FEEDBACK LINE>                                                                |
23|<MESSAGE STATUS LINE>                                                          |
24|                         COMMAND: _____           PARAMETER(S): ______         |
 +-------------------------------------------------------------------------------+
```

Tower Utilities Menu 2

```
          1111111111222222222233333333334444444444555555555566666666667777777778
  12345678901234567890123456789012345678901234567890123456789012345678901234567890
 +--------------------------------------------------------------------------------+
01|                                                                                |
02|                                                                                |
03|                                STATUS LINES                                    |
04|                                                                                |
 |--------------------------------------------------------------------------------|
05|                                    ALARM                                       |
06|                                    AREA                                        |
07|         DISPLAY PERFORMANCE DATA -- WIDEBAND COMMUNICATIONS (WID) (PG 1 OF 1)  |
08|           RPG LINK                    |              USER LINK                |
09|DCU STATUS                        HHHH| DCU STATUS                      HHHH  |
10|GENERAL ERROR CODE                  HH| GENERAL ERROR CODE                HH  |
11|SVC 15  ERROR CODE                  HH| SVC 15  ERROR CODE                HH  |
12|OUTGOING FRAMES                  NNNNN| OUTGOING FRAMES                 NNNNN  |
13|FRAMES WITH FCS ERRORS           NNNNN| FRAMES WITH FCS ERRORS          NNNNN  |
14|RETRANSMITTED I-FRAMES           NNNNN| RETRANSMITTED I-FRAMES          NNNNN  |
15|POLLS SENT AND RECEIVED          NNNNN| POLLS SENT AND RECEIVED         NNNNN  |
16|POLL TIME-OUTS                   NNNNN| POLL TIME-OUTS                  NNNNN  |
17|MIN BUFFERS IN READ-POOL         NNNNN| MIN BUFFERS IN READ-POOL        NNNNN  |
18|MAX BUFFERS IN READ-DONE LIST    NNNNN| MAX BUFFERS IN READ-DONE LIST   NNNNN  |
19|LOOP-BACK TEST                 XXXXXXX| LOOP-BACK TEST                XXXXXXX  |
20|                                       |                                        |
21|     _ MAIN MENU       _ HELP MENU          _ PAGE FORWARD    _ PAGE BACKWARD   |
22|<FEEDBACK LINE>                                                                 |
23|<MESSAGE STATUS LINE>                                                           |
24|                        COMMAND: _____           PARAMETER(S): ______          |
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```

Wideband

```
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 +--------------------------------------------------------------------------------+
01|                                                                                |
02|                                                                                |
03|                                STATUS LINES                                    |
04|                                                                                |
 |--------------------------------------------------------------------------------|
05|                                     ALARM                                      |
06|                                     AREA                                       |
07|                   DISPLAY PERFORMANCE DATA -- TRANSMITTER (XMT)   (PG 1 OF 2)  |
08|SUMMARY              AAAAA| HIGH VOLTAGE          DDD| WG/PFN XFER INTLK  GGGG  |
09|XMTR INOP             AAAA| XMTR RECYCLE COUNT NNNNNN| CIRCULATOR TEMP    XXXX  |
10|XMTR AVAILABLE         XXX| KLYSTRON WARMUP    DDDDDD| FILAMENT PS         DDD  |
11|MAINT MODE             PPP| WG SWITCH POS      EEEEEE| FILAMENT PS VOLT   XXXX  |
12|MAINT REQD            IIII| PFN SWITCH POS      FFFFF| + 5V PS            XXXX  |
13|ANT  PK PWR        NNNN KW| KLYS CURRENT         TTTT| +15V PS            XXXX  |
14|XMTR PK PWR        NNNN KW| KLYS FILAMENT CUR    XXXX| -15V PS            XXXX  |
15|ANT AVG PWR         NNNN W| KLYS VACION CUR      XXXX| +28V PS            XXXX  |
16|XMTR AVG PWR        NNNN W| KLYS AIR TEMP        XXXX| +45V PS            XXXX  |
17|M/WAVE LOSS       +NN.N DB| KLYS AIRFLOW         XXXX| VAC PUMP PS        XXXX  |
18|ANT  PWR METER ZERO  NNN.N| FOCUS COIL AIRFLOW   XXXX| WG ARC/VSWR        XXXX  |
19|XMTR PWR METER ZERO  NNN.N| FOCUS COIL PS        XXXX| WG PRESS/HMD       XXXX  |
20|XMTR AIR FILTER      BBBBB| FOCUS COIL CUR       XXXX| SPECT FLTR PRESS   XXXX  |
21|     _ MAIN MENU       _ HELP MENU          _ PAGE FORWARD    _ PAGE BACKWARD   |
22|<FEEDBACK LINE>                                                                 |
23|<MESSAGE STATUS LINE>                                                           |
24|                         COMMAND: _____           PARAMETER(S): ______          |
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```

Transmitter Menu 1

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          1111111111222222222233333333334444444444555555555566666666667777777778
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01|                                                                                |
02|                                                                                |
03|                                STATUS LINES                                    |
04|                                                                                |
 |--------------------------------------------------------------------------------|
05|                                    ALARM                                       |
06|                                    AREA                                        |
07|                  DISPLAY PERFORMANCE DATA -- TRANSMITTER (XMT)   (PG 2 OF 2)  |
08|CABINET INTLK         GGGG| FLYBACK CHARGER      XXXX| OIL TEMP           XXXX  |
09|CABINET AIR TEMP      XXXX| INV DIODE CURR       XXXX| OIL LEVEL          XXXX  |
10|CABINET AIR FLOW      XXXX| TRIGGER AMP          XXXX| POST CHG REG      CCCCC  |
11|MOD OVERLOAD          XXXX| PRF LIMIT            XXXX| TEST BIT 0         XXXX  |
12|MOD INV CURRENT       XXXX| DAU INTERFACE        JJJJ| TEST BIT 1         XXXX  |
13|MOD SWITCH FAIL       XXXX|                          | TEST BIT 2         XXXX  |
14|MOD SWITCH MAINT      YYYY|                          | TEST BIT 3         XXXX  |
15|MAIN PWR VOLTAGE      BBBB|                          | TEST BIT 4         XXXX  |
16|XMTR OVERVOLTAGE      BBBB|                          | TEST BIT 5         XXXX  |
17|XMTR OVERCURRENT      BBBB|                          | TEST BIT 6         XXXX  |
18|                          |                          | TEST BIT 7         XXXX  |
19|XMTR BATTERY CHRG      XXX|                          |                          |
20|                          |                          |                          |
21|     _ MAIN MENU       _ HELP MENU          _ PAGE FORWARD    _ PAGE BACKWARD   |
22|<FEEDBACK LINE>                                                                 |
23|<MESSAGE STATUS LINE>                                                           |
24|                         COMMAND: _____           PARAMETER(S): ______          |
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Transmitter Menu 2

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           1111111111222222222233333333334444444444555555555566666666667777777778
  12345678901234567890123456789012345678901234567890123456789012345678901234567890
 +--------------------------------------------------------------------------------+
01|                                                                                |
02|                                                                                |
03|                                STATUS LINES                                    |
04|                                                                                |
 |--------------------------------------------------------------------------------|
05|                                    ALARM                                       |
06|                                    AREA                                        |
07|                DISPLAY PERFORMANCE DATA -- ANTENNA/PEDESTAL (ANT) (PG 1 OF 1)  |
08|PED +150V         WWWWWWWW| SERVO                DDD| +28V PS         NN.NN V  |
09|EL AMP             YYYYYYY| AZ AMP            YYYYYYY| +15V PS         NN.NN V  |
10|EL MOTOR           GGGGGGG| AZ MOTOR          GGGGGGG| + 5V PS         NN.NN V  |
11|EL STOW PIN         RRRRRR| AZ STOW PIN        RRRRRR| -15V PS        -NN.NN V  |
12|EL PCU PARITY         XXXX| AZ PCU PARITY        XXXX| ENCODER +5V PS NN.NN V   |
13|EL DEAD LIMIT       SSSSSS| AZ BULLGEAR OIL       OOO| SELF TST 1 STATUS  VVVV  |
14|EL + LIMIT          SSSSSS|                          | SELF TST 2 STATUS  VVVV  |
15|EL - LIMIT          SSSSSS|                          | SELF TST 2 DATA    hhhh  |
16|EL ENCODER LIGHT      XXXX| AZ ENCODER LIGHT     XXXX| PED INTLK SWITCH   UUUU  |
17|EL GEARBOX OIL         OOO| AZ GEARBOX OIL        OOO|                          |
18|EL HANDWHEEL        RRRRRR| AZ HANDWHEEL       RRRRRR|                          |
19|EL AMP PS             XXXX| AZ AMP PS            XXXX|                          |
20|EL POS CORR     NNN.NN DEG| AZ POS CORR    NNN.NN DEG|                          |
21|     _ MAIN MENU       _ HELP MENU          _ PAGE FORWARD    _ PAGE BACKWARD   |
22|<FEEDBACK LINE>                                                                 |
23|<MESSAGE STATUS LINE>                                                           |
24|                         COMMAND: _____           PARAMETER(S): ______          |
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Antenna/Pedestal

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01|                                                                                |
02|                                                                                |
03|                                STATUS LINES                                    |
04|                                                                                |
 |--------------------------------------------------------------------------------|
05|                                     ALARM                                      |
06|                                     AREA                                       |
07|                DISPLAY PERFORMANCE DATA -- RCVR/SIGNAL PROC (REC) (PG 1 OF 1)  |
08|RF GEN FREQ SEL OSC   XXXX|                          | IDU TST DETECTION  NNNN  |
09|RF GEN RF/STALO       XXXX| PRT INTERVAL 1      NNNNN| +  5V RECEIVER PS  XXXX  |
10|PHASE SHIFTED COHO    XXXX| PRT INTERVAL 2      NNNNN| + 18V RECEIVER PS  XXXX  |
11|COHO/CLOCK            XXXX| SIG PROC +5V PS    N.NN V| -  9V RECEIVER PS  XXXX  |
12|                          |                          | +  9V RECEIVER PS  XXXX  |
13|PARITY CF1            XXXX| SHORT PULSE,             | + 15V A/D CONV PS  XXXX  |
14|PARITY CF2            XXXX| LIN CHAN NOISE  N.NNNE+NN| +  5V A/D CONV PS  XXXX  |
15|PARITY CF3            XXXX| SHORT PULSE,             | -5.2V A/D CONV PS  XXXX  |
16|PARITY CF4            XXXX| LOG CHAN NOISE  N.NNNE+NN| +  5V REC PROT PS  XXXX  |
17|PARITY CF5            XXXX| LONG PULSE,              |                          |
18|PARITY CF6            XXXX| LIN CHAN NOISE  N.NNNE+NN|                          |
19|PARITY TST GEN RAM    XXXX| LONG PULSE,              |                          |
20|SYSTEM NOISE TEMP   NNNN K| LOG CHAN NOISE  N.NNNE+NN|                          |
21|     _ MAIN MENU       _ HELP MENU          _ PAGE FORWARD    _ PAGE BACKWARD   |
22|<FEEDBACK LINE>                                                                 |
23|<MESSAGE STATUS LINE>                                                           |
24|                         COMMAND: _____           PARAMETER(S): ______          |
 +--------------------------------------------------------------------------------+
```

Receiver/Signal Processor

```
           1111111111222222222233333333334444444444555555555566666666667777777778
  12345678901234567890123456789012345678901234567890123456789012345678901234567890
 +--------------------------------------------------------------------------------+
01|                                                                                |
02|                                                                                |
03|                                STATUS LINES                                    |
04|                                                                                |
 |--------------------------------------------------------------------------------|
05|                                    ALARM                                       |
06|                                    AREA                                        |
07|                   DISPLAY CALIBRATION -- (CAL)                   (PG 1 OF 2)   |
08|  CW LIN TGT EXPECTED AMP     +NN.N DBZ| PHASE RAM1 EXPECTED VEL    +NN.N M/S   |
09|  CW LIN TGT MEASURED AMP     +NN.N DBZ| PHASE RAM1 MEASURED VEL    +NN.N M/S   |
10|RFD1 LIN TGT EXPECTED AMP     +NN.N DBZ| PHASE RAM2 EXPECTED VEL    +NN.N M/S   |
11|RFD1 LIN TGT MEASURED AMP     +NN.N DBZ| PHASE RAM2 MEASURED VEL    +NN.N M/S   |
12|RFD2 LIN TGT EXPECTED AMP     +NN.N DBZ| PHASE RAM3 EXPECTED VEL    +NN.N M/S   |
13|RDF2 LIN TGT MEASURED AMP     +NN.N DBZ| PHASE RAM3 MEASURED VEL    +NN.N M/S   |
14|RFD3 LIN TGT EXPECTED AMP     +NN.N DBZ| PHASE RAM4 EXPECTED VEL    +NN.N M/S   |
15|RFD3 LIN TGT MEASURED AMP     +NN.N DBZ| PHASE RAM4 MEASURED VEL    +NN.N M/S   |
16|  CW LOG TGT EXPECTED AMP     +NN.N DBZ| PHASE RAM1 EXPECTED WIDTH  +NN.N M/S   |
17|  CW LOG TGT MEASURED AMP     +NN.N DBZ| PHASE RAM1 MEASURED WIDTH  +NN.N M/S   |
18|RFD1 LOG TGT EXPECTED AMP     +NN.N DBZ| PHASE RAM2 EXPECTED WIDTH  +NN.N M/S   |
19|RFD1 LOG TGT MEASURED AMP     +NN.N DBZ| PHASE RAM2 MEASURED WIDTH  +NN.N M/S   |
20|                                       |                                        |
21|     _ MAIN MENU       _ HELP MENU          _ PAGE FORWARD    _ PAGE BACKWARD   |
22|<FEEDBACK LINE>                                                                 |
23|<MESSAGE STATUS LINE>                                                           |
24|                         COMMAND: _____           PARAMETER(S): ______          |
 +--------------------------------------------------------------------------------+
```

Calibration Menu 1

```
          1111111111222222222233333333334444444444555555555566666666667777777778
  12345678901234567890123456789012345678901234567890123456789012345678901234567890
 +--------------------------------------------------------------------------------+
01|                                                                                |
02|                                                                                |
03|                                STATUS LINES                                    |
04|                                                                                |
 |--------------------------------------------------------------------------------|
05|                                    ALARM                                       |
06|                                    AREA                                        |
07|                   DISPLAY CALIBRATION -- (CAL)                  (PG 2 OF 2)   |
08|RFD2 LOG TGT EXPECTED AMP     +NN.N DBZ| PHASE RAM3 EXPECTED WIDTH  +NN.N M/S   |
09|RFD2 LOG TGT MEASURED AMP     +NN.N DBZ| PHASE RAM3 MEASURED WIDTH  +NN.N M/S   |
10|RFD3 LOG TGT EXPECTED AMP     +NN.N DBZ| PHASE RAM4 EXPECTED WIDTH  +NN.N M/S   |
11|RFD3 LOG TGT MEASURED AMP     +NN.N DBZ| PHASE RAM4 MEASURED WIDTH  +NN.N M/S   |
12|SHORT PULSE, LIN CHAN SYSCAL  +NN.N  DB| AGC STEP 3 AMP            +NN.NN  DB   |
13|SHORT PULSE, LOG CHAN SYSCAL  +NN.N  DB| AGC STEP 3 PHASE         +NNN.NN DEG   |
14|LONG  PULSE, LIN CHAN SYSCAL  +NN.N  DB| AGC STEP 4 AMP            +NN.NN  DB   |
15|LONG  PULSE, LOG CHAN SYSCAL  +NN.N  DB| AGC STEP 4 PHASE         +NNN.NN DEG   |
16|AGC STEP 1 AMP              +NN.NN  DB| AGC STEP 5 AMP            +NN.NN  DB   |
17|AGC STEP 1 PHASE           +NNN.NN DEG| AGC STEP 5 PHASE         +NNN.NN DEG   |
18|AGC STEP 2 AMP              +NN.NN DBZ| AGC STEP 6 AMP            +NN.NN  DB   |
19|AGC STEP 2 PHASE           +NNN.NN DEG| AGC STEP 6 PHASE         +NNN.NN DEG   |
20|AGC I/Q AMP BAL                 N.NNN| AGC I/Q PH BAL           +NNN.NN DEG   |
21|     _ MAIN MENU       _ HELP MENU          _ PAGE FORWARD    _ PAGE BACKWARD   |
22|<FEEDBACK LINE>                                                                 |
23|<MESSAGE STATUS LINE>                                                           |
24|                         COMMAND: _____           PARAMETER(S): ______          |
 +--------------------------------------------------------------------------------+
```

Calibration Menu 2

```
           1111111111222222222233333333334444444444555555555566666666667777777778
  12345678901234567890123456789012345678901234567890123456789012345678901234567890
 +--------------------------------------------------------------------------------+
01|                                                                                |
02|                                                                                |
03|                                STATUS LINES                                    |
04|                                                                                |
 |--------------------------------------------------------------------------------|
05|                                    ALARM                                       |
06|                                    AREA                                        |
07|                   DISPLAY CALIBRATION CHECK -- (8HR CHK)         (PG 1 OF 1)  |
08|              REFLECTIVITY             |         CLUTTER SUPPRESSION            |
09|KD1 LIN TGT EXPECTED AMP      +NN.N DBZ| UNFILTERED LIN CHAN PWR     +NN.N DB  |
10|KD1 LIN TGT MEASURED AMP      +NN.N DBZ| FILTERED   LIN CHAN PWR     +NN.N DB  |
11|KD2 LIN TGT EXPECTED AMP      +NN.N DBZ| UNFILTERED LOG CHAN PWR     +NN.N DB  |
12|KD2 LIN TGT MEASURED AMP      +NN.N DBZ| FILTERED   LOG CHAN PWR     +NN.N DB  |
13|KD3 LIN TGT EXPECTED AMP      +NN.N DBZ|                                        |
14|KD3 LIN TGT MEASURED AMP      +NN.N DBZ|                                        |
15|KD1 LOG TGT EXPECTED AMP      +NN.N DBZ|                                        |
16|KD1 LOG TGT MEASURED AMP      +NN.N DBZ|                                        |
17|KD2 LOG TGT EXPECTED AMP      +NN.N DBZ|                                        |
18|KD2 LOG TGT MEASURED AMP      +NN.N DBZ|                                        |
19|KD3 LOG TGT EXPECTED AMP      +NN.N DBZ|                                        |
20|KD3 LOG TGT MEASURED AMP      +NN.N DBZ|                                        |
21|     _ MAIN MENU       _ HELP MENU          _ PAGE FORWARD    _ PAGE BACKWARD  |
22|<FEEDBACK LINE>                                                                 |
23|<MESSAGE STATUS LINE>                                                           |
24|                         COMMAND: _____           PARAMETER(S): ______          |
 +--------------------------------------------------------------------------------+
```

8-Hour Check

```
          1111111111222222222233333333334444444444555555555566666666667777777778
  12345678901234567890123456789012345678901234567890123456789012345678901234567890
 +--------------------------------------------------------------------------------+
01|                                                                                |
02|                                                                                |
03|                                 STATUS LINES                                   |
04|                                                                                |
 |--------------------------------------------------------------------------------|
05|                                     ALARM                                      |
06|                                     AREA                                       |
07|                   DISPLAY DEVICE STATUS -- (DVC)                 (PG 1 OF 2)   |
08|         DEVICE INITIALIZATION         |           DEVICE I/O ERROR             |
09|DAU INIT STATUS                    VVVV| DAU I/O ERROR STATUS        hhhhhhhh   |
10|MAINT CSL INIT STATUS              VVVV|     DATE                    MM:DD:YY   |
11|PEDESTAL  INIT STATUS              VVVV|     TIME                    HH:MM:SS   |
12|SPS INIT STATUS                    VVVV| MC  I/O ERROR STATUS        hhhhhhhh   |
13|SPS DOWNLOAD STATUS                VVVV|     DATE                    MM:DD:YY   |
14|SPS DIM LOOP TST STATUS            VVVV|     TIME                    HH:MM:SS   |
15|SPS SMI LOOP TST STATUS            VVVV| PED I/O ERROR STATUS        hhhhhhhh   |
16|SPS HSP LOOP TST STATUS            VVVV|     DATE                    MM:DD:YY   |
17|                                       |     TIME                    HH:MM:SS   |
18|                                       | SPS I/O ERROR STATUS        hhhhhhhh   |
19|                                       |     DATE                    MM:DD:YY   |
20|                                       |     TIME                    HH:MM:SS   |
21|     _ MAIN MENU       _ HELP MENU          _ PAGE FORWARD    _ PAGE BACKWARD   |
22|<FEEDBACK LINE>                                                                 |
23|<MESSAGE STATUS LINE>                                                           |
24|                         COMMAND: _____           PARAMETER(S): ______          |
 +--------------------------------------------------------------------------------+
```

Device Status Menu 1

```
           1111111111222222222233333333334444444444555555555566666666667777777778
  12345678901234567890123456789012345678901234567890123456789012345678901234567890
 +--------------------------------------------------------------------------------+
01|                                                                                |
02|                                                                                |
03|                                 STATUS LINES                                   |
04|                                                                                |
 |--------------------------------------------------------------------------------|
05|                                     ALARM                                      |
06|                                     AREA                                       |
07|                   DISPLAY DEVICE STATUS -- (DVC)                 (PG 2 OF 2)   |
08|         DEVICE INITIALIZATION         |           DEVICE I/O ERROR             |
09|RPG  LINK INIT STATUS              VVVV| DISK I/O ERROR STATUS       hhhhhhhh   |
10|USER LINK INIT STATUS              VVVV|     DATE                    MM:DD:YY   |
11|                                       |     TIME                    HH:MM:SS   |
12|                                       | ARCH II SUMMARY ERROR STATUS      NN   |
13|                                       |     I/O ERROR STATUS        hhhhhhhh   |
14|                                       |     DATE                    MM:DD:YY   |
15|                                       |     TIME                    HH:MM:SS   |
16|                                       | REDUN CHAN I/O ERROR STATUS hhhhhhhh   |
17|                                       |     DATE                    MM:DD:YY   |
18|                                       |     TIME                    HH:MM:SS   |
19|                                       |                                        |
20|                                       |                                        |
21|     _ MAIN MENU       _ HELP MENU          _ PAGE FORWARD    _ PAGE BACKWARD   |
22|<FEEDBACK LINE>                                                                 |
23|<MESSAGE STATUS LINE>                                                           |
24|                         COMMAND: _____           PARAMETER(S): ______          |
 +--------------------------------------------------------------------------------+
```

Device Status Menu 2

```
           1111111111222222222233333333334444444444555555555566666666667777777778
  12345678901234567890123456789012345678901234567890123456789012345678901234567890
 +--------------------------------------------------------------------------------+
01|                                                                                |
02|                                                                                |
03|                                 STATUS LINES                                   |
04|                                                                                |
 |--------------------------------------------------------------------------------|
05|                                     ALARM                                      |
06|                                     AREA                                       |
07|                   DISPLAY DISK FILE STATUS -- (DFS)                 (PG 1 OF 1)|
08|STATE FILE RD STATUS              WWWWW|                                       |
09|STATE FILE WR STATUS              WWWWW|                                       |
10|BYPASS MAP FILE RD STATUS         WWWWW|                                       |
11|BYPASS MAP FILE WR STATUS         WWWWW|                                       |
12|RDASC CAL DATA FILE RD STATUS     WWWWW|                                       |
13|RDASC CAL DATA FILE WR STATUS     WWWWW|                                       |
14|RDASOT CAL DATA FILE RD STATUS    WWWWW|                                       |
15|MOD ADAPT FILE RD STATUS          WWWWW|                                       |
16|CENSOR ZONE FILE RD STATUS        WWWWW|                                       |
17|CENSOR ZONE FILE WR STATUS        WWWWW|                                       |
18|REMOTE VCP FILE RD STATUS         WWWWW|                                       |
19|REMOTE VCP FILE WR STATUS         WWWWW|                                       |
20|                                                                                |
21|     _ MAIN MENU       _ HELP MENU          _ PAGE FORWARD    _ PAGE BACKWARD  |
22|<FEEDBACK LINE>                                                                 |
23|<MESSAGE STATUS LINE>                                                           |
24|                         COMMAND: _____           PARAMETER(S): ______          |
 +--------------------------------------------------------------------------------+
```

Disk File Status

```
           1111111111222222222233333333334444444444555555555566666666667777777778
  12345678901234567890123456789012345678901234567890123456789012345678901234567890
 +--------------------------------------------------------------------------------+
01|                                                                                |
02|                                                                                |
03|                                STATUS LINES                                    |
04|                                                                                |
 |--------------------------------------------------------------------------------|
05|                                     ALARM                                      |
06|                                     AREA                                       |
07|                              SEND MESSAGE                                      |
08|                                                                                |
09|   MESSAGE (UP TO 5 LINES:)                                                     |
10|                                                                                |
11|                                                                                |
12|                                                                                |
13|                                                                                |
14|                                                                                |
15|                                                                                |
16|                                                                                |
17|  DESTINATIONS                                                                  |
18|        _ RPG       _ USER           _ ALL                                      |
19|                                                                                |
20|                                                                                |
21|     _ MAIN MENU       _ HELP MENU                                              |
22|<FEEDBACK LINE>                                                                 |
23|<MESSAGE STATUS LINE>                                                           |
24|                         COMMAND: _____           PARAMETER(S): ______          |
 +--------------------------------------------------------------------------------+
```

Send Message

```
          1111111111222222222233333333334444444444555555555566666666667777777778
   12345678901234567890123456789012345678901234567890123456789012345678901234567890
  +--------------------------------------------------------------------------------+
01|                                                                                |
02|                                                                                |
03|                                STATUS LINES                                    |
04|                                                                                |
  |--------------------------------------------------------------------------------|
05|                                     ALARM                                      |
06|                                     AREA                                       |
07|                      CONSOLE MESSAGE FROM                                      |
08|                                                                                |
09|                                                                                |
10|                                                                                |
11|                                                                                |
12|                                                                                |
13|                                                                                |
14|                                                                                |
15|                                                                                |
16|                                                                                |
17|                                                                                |
18|                                                                                |
19|                                                                                |
20|                                                                                |
21|     _ MAIN MENU       _ HELP MENU                                              |
22|<FEEDBACK LINE>                                                                 |
23|<MESSAGE STATUS LINE>                                                           |
24|                          COMMAND: _____           PARAMETER(S): ______         |
  +--------------------------------------------------------------------------------+
```

Display Message

```
           1111111111222222222233333333334444444444555555555566666666667777777778
  12345678901234567890123456789012345678901234567890123456789012345678901234567890
 +--------------------------------------------------------------------------------+
01|                                                                                |
02|                                                                                |
03|                                 STATUS LINES                                   |
04|                                                                                |
 |--------------------------------------------------------------------------------|
05|                                    ALARM                                       |
06|                                    AREA                                        |
07|FILE IN USE:<BASELINE OR CURRENT>       FILE BEING MODIFIED:<BASELINE OR CURRENT>
08|                              ADAPTATION CONTROL                     (PG 1 OF 1)|
09|              FUNCTION                     ADAPTATION FILES IDENTIFICATION      |
10|(C)HOOSE (F)ILE FOR NEXT RESTART       |BASELINE: (NAME OF BASELINE FILE   )    |
11|(S)ELECT (F)ILE FOR INSPECT/CHANGE     |     INTERNAL NAME : ADAAA001.DAT       |
12|(A)DAPTATION EDIT CONTROL MENU         |            FORMAT : 0001               |
13|(M)AIN MENU                            |          REVISION : 0001               |
14|                                       |         DATE/TIME : 12/15/89 - 10:12:00|
15|                                       |                                        |
16|                                       |CURRENT:  (NAME OF CURRENT FILE    )    |
17|                                       |     INTERNAL NAME : ADAAA001.DAT       |
18|                                       |            FORMAT : 0001               |
19|                                       |          REVISION : M001               |
20|                                       |         DATE/TIME : 01/10/90 - 12:10:00|
21|                                       |                                        |
22|<FEEDBACK LINE>                                                                 |
23|<MESSAGE STATUS LINE>                                                           |
24|COMMAND: ___                                                                    |
 +--------------------------------------------------------------------------------+
```

Adaptation Control

```
          1111111111222222222233333333334444444444555555555566666666667777777778
   12345678901234567890123456789012345678901234567890123456789012345678901234567890
  +--------------------------------------------------------------------------------+
01|                                                                                |
02|                                                                                |
03|                                 STATUS LINES                                   |
04|                                                                                |
  |--------------------------------------------------------------------------------|
05|                                     ALARM                                      |
06|                                     AREA                                       |
07|FILE IN USE:<BASELINE OR CURRENT>       FILE BEING MODIFIED:<BASELINE OR CURRENT>
08|                        CHOOSE FILE FOR NEXT RESTART                (PG 1 OF 1)|
09|(B)ASELINE                              |(A)DAPTATION (C)ONTROL MENU            |
10|(C)URRENT                               |(M)AIN MENU                            |
11|                                                                                |
12|                                                                                |
13|                                                                                |
14|                                                                                |
15|                                                                                |
16|                                                                                |
17|                                                                                |
18|                                                                                |
19|                                                                                |
20|                                                                                |
21|                                                                                |
22|<FEEDBACK LINE>                                                                 |
23|<MESSAGE STATUS LINE>                                                           |
24|COMMAND: ___                                                                    |
  +--------------------------------------------------------------------------------+
```

Choose File for Next Restart

```
           1111111111222222222233333333334444444444555555555566666666667777777778
  12345678901234567890123456789012345678901234567890123456789012345678901234567890
 +--------------------------------------------------------------------------------+
01|                                                                                |
02|                                                                                |
03|                                STATUS LINES                                    |
04|                                                                                |
 |--------------------------------------------------------------------------------|
05|                                    ALARM                                       |
06|                                    AREA                                        |
07|FILE IN USE:<BASELINE OR CURRENT>       FILE BEING MODIFIED:<BASELINE OR CURRENT>
08|                        SELECT FILE FOR MODIFICATION                (PG 1 OF 1)|
09|(B)ASELINE                             |(A)DAPTATION (C)ONTROL MENU             |
10|(C)URRENT                              |(M)AIN MENU                             |
11|                                                                                |
12|                                                                                |
13|                                                                                |
14|                                                                                |
15|                                                                                |
16|                                                                                |
17|                                                                                |
18|                                                                                |
19|                                                                                |
20|                                                                                |
21|                                                                                |
22|<FEEDBACK LINE>                                                                 |
23|<MESSAGE STATUS LINE>                                                           |
24|COMMAND: ___                                                                    |
 +--------------------------------------------------------------------------------+
```

Select File for Modification

```
          1111111111222222222233333333334444444444555555555566666666667777777778
   12345678901234567890123456789012345678901234567890123456789012345678901234567890
  +--------------------------------------------------------------------------------+
01|                                                                                |
02|                                                                                |
03|                                 STATUS LINES                                   |
04|                                                                                |
  |--------------------------------------------------------------------------------|
05|                                     ALARM                                      |
06|                                     AREA                                       |
07|FILE IN USE:<BASELINE OR CURRENT>       FILE BEING MODIFIED:<BASELINE OR CURRENT>
08|                           ADAPTATION EDIT CONTROL                   (PG 1 OF 1)|
09|         ADAPTATION TYPE                |             FUNCTIONS                 |
10|(T)OWER                                 |(C)ANCEL (E)DIT <CHANGES NOT SAVED>    |
11|(A)NTENNA                               |(S)AVE (C)HANGES <TO DISK>             |
12|(S)PS                                   |(A)DAPTATION (C)ONTROL MENU            |
13|(TR)ANSMITTER                           |(M)AIN MENU                            |
14|(R)ECEIVER                              |                                       |
15|(W)IDEBAND                              |                                       |
16|(SO)T                                   |                                       |
17|(P)ASSWORD                              |                                       |
18|                                        |                                       |
19|                                        |                                       |
20|                                        |                                       |
21|                                                                                |
22|<FEEDBACK LINE>                                                                 |
23|<MESSAGE STATUS LINE>                                                           |
24|COMMAND: ___                                                                    |
  +--------------------------------------------------------------------------------+
```

Adaptation Edit Control

```
           1111111111222222222233333333334444444444555555555566666666667777777778
  12345678901234567890123456789012345678901234567890123456789012345678901234567890
 +--------------------------------------------------------------------------------+
01|                                                                                |
02|                                                                                |
03|                                 STATUS LINES                                   |
04|                                                                                |
 |--------------------------------------------------------------------------------|
05|                                     ALARM                                      |
06|                                     AREA                                       |
07|                              RECEIVER ADAPTATION                  (PG  1 OF 25)|
08|  1. ISU CONFIGURED                                                L            |
09|  2. REFLECTIVITY AND CLUTTER SUPPR TEST INTERVAL                 NN  HOURS     |
10|  3. NORMAL LINEAR CHANNEL LONG PULSE SMPLG PHASE                 NN  CLOCK CNTS|
11|  4. KLYSTR OUT TGT LIN CHAN LNG PULSE SMPLG PHASE                NN  CLOCK CNTS|
12|  5. RF DRIVE TGT LIN CHAN LONG PULSE SMPLG PHASE                 NN  CLOCK CNTS|
13|  6. NORMAL LINEAR CHANNEL SHORT PULSE SMPLG PHASE                NN  CLOCK CNTS|
14|  7. KLYSTR OUT TGT LIN CHAN SHT PULSE SMPLG PHASE                NN  CLOCK CNTS|
15|  8. RF DRIVE TGT LIN CHAN SHORT PULSE SMPLG PHASE                NN  CLOCK CNTS|
16|  9. NORMAL LOG CHANNEL LONG PULSE SAMPLING PHASE                 NN  CLOCK CNTS|
17| 10. KLYSTR OUT TGT LOG CHAN LNG PULSE SMPLG PHASE                 NN  CLOCK CNTS|
18|                                                                                |
19|                                                                                |
20|                        (A)DAPTATION EDIT CONTROL MENU       (F)ORWARD PAGE    |
21|                        (M)AIN MENU                          (B)ACK PAGE       |
22|<FEEDBACK LINE>                                                                 |
23|<MESSAGE STATUS LINE>                                                           |
24|COMMAND: __                                                                     |
 +--------------------------------------------------------------------------------+
```

Example of Inspect Menu

```
           1111111111222222222233333333334444444444555555555566666666667777777778
  12345678901234567890123456789012345678901234567890123456789012345678901234567890
 +--------------------------------------------------------------------------------+
01|                                                                                |
02|                                                                                |
03|                                 STATUS LINES                                   |
04|                                                                                |
 |--------------------------------------------------------------------------------|
05|                                     ALARM                                      |
06|                                     AREA                                       |
07|                              RECEIVER ADAPTATION                  (PG  1 OF 25)|
08|  1. ISU CONFIGURED                                                L            |
09|  2. REFLECTIVITY AND CLUTTER SUPPR TEST INTERVAL                 NN  HOURS     |
10|  3. NORMAL LINEAR CHANNEL LONG PULSE SMPLG PHASE                 NN  CLOCK CNTS|
11|  4. KLYSTR OUT TGT LIN CHAN LNG PULSE SMPLG PHASE                NN  CLOCK CNTS|
12|  5. RF DRIVE TGT LIN CHAN LONG PULSE SMPLG PHASE                 NN  CLOCK CNTS|
13|  6. NORMAL LINEAR CHANNEL SHORT PULSE SMPLG PHASE                NN  CLOCK CNTS|
14|  7. KLYSTR OUT TGT LIN CHAN SHT PULSE SMPLG PHASE                NN  CLOCK CNTS|
15|  8. RF DRIVE TGT LIN CHAN SHORT PULSE SMPLG PHASE                NN  CLOCK CNTS|
16|  9. NORMAL LOG CHANNEL LONG PULSE SAMPLING PHASE                 NN  CLOCK CNTS|
17| 10. KLYSTR OUT TGT LOG CHAN LNG PULSE SMPLG PHASE                 NN  CLOCK CNTS|
18|                                                                                |
19|                                                                                |
20|(C)HANGE                 (A)DAPTATION EDIT CONTROL MENU       (F)ORWARD PAGE    |
21|                         (M)AIN MENU                          (B)ACK PAGE       |
22|<FEEDBACK LINE>                                                                 |
23|<MESSAGE STATUS LINE>                                                           |
24|COMMAND: __ LINE: ____                                                          |
 +--------------------------------------------------------------------------------+
```

Example of Change Menu

```
           1111111111222222222233333333334444444444555555555566666666667777777778
  12345678901234567890123456789012345678901234567890123456789012345678901234567890
 +--------------------------------------------------------------------------------+
01|                                                                                |
02|                                 STATUS LINES                                   |
03|                                                                                |
04|--------------------------------------------------------------------------------|
05|                                     ALARM                                      |
06|                                     AREA                                       |
07|                              RECEIVER ADAPTATION                  (PG  1 OF 25)|
08|  1. ISU CONFIGURED                                                L            |
09|  2. REFLECTIVITY AND CLUTTER SUPPR TEST INTERVAL                 NN  HOURS     |
10|  3. NORMAL LINEAR CHANNEL LONG PULSE SMPLG PHASE                 NN  CLOCK CNTS|
11|  4. KLYSTR OUT TGT LIN CHAN LNG PULSE SMPLG PHASE                NN  CLOCK CNTS|
12|  5. RF DRIVE TGT LIN CHAN LONG PULSE SMPLG PHASE                 NN  CLOCK CNTS|
13|  6. NORMAL LINEAR CHANNEL SHORT PULSE SMPLG PHASE                NN  CLOCK CNTS|
14|  7. KLYSTR OUT TGT LIN CHAN SHT PULSE SMPLG PHASE                NN  CLOCK CNTS|
15|  8. RF DRIVE TGT LIN CHAN SHORT PULSE SMPLG PHASE                NN  CLOCK CNTS|
16|  9. NORMAL LOG CHANNEL LONG PULSE SAMPLING PHASE                 NN  CLOCK CNTS|
17| 10. KLYSTR OUT TGT LOG CHAN LNG PULSE SMPLG PHASE                NN  CLOCK CNTS|
18|                                                                                |
19|                                                                                |
20|ALLOWABLE RANGE:<DISPLAY RANGES ETC. FOR SELECTED LINE>                         |
21|<DISPLAY SELECTED ADAPT DATA LINE: DESCRIPTION & VALUE WITH CURSOR POSITIONED>  |
22|                                                                                |
23|                                                                                |
24|                                                                                |
 +--------------------------------------------------------------------------------+
```

Example of Enter New Data Value

```
          1111111111222222222233333333334444444444555555555566666666667777777778
  12345678901234567890123456789012345678901234567890123456789012345678901234567890
 +--------------------------------------------------------------------------------+
01|                                                                                |
02|                                                                                |
03|                                 STATUS LINES                                   |
04|                                                                                |
 |--------------------------------------------------------------------------------|
05|                                     ALARM                                      |
06|                                     AREA                                       |
07|                         ANTENNA/PEDESTAL ADAPTATION              (PG  1 OF  2)|
08|  1. ANTENNA GAIN INCLUDING RADOME                              NN.NN  DB       |
09|  2. ANTENNA BEAMWIDTH                                           N.NN  DEGREES  |
10|  3. AZIMUTH POSITION GAIN FACTOR (K1)                           N.NN  RATIO    |
11|  4. AZIMUTH DRIVE GAIN FACTOR (K2)                              N.NN  RATIO    |
12|  5. ELEVATION POSITION GAIN FACTOR (K3)                         N.NN  RATIO    |
13|  6. ELEVATION DRIVE GAIN FACTOR (K4)                            N.NN  RATIO    |
14|  7. PEDESTAL PARK POSITION IN AZIMUTH                         NNN.NN  DEGREES  |
15|  8. PEDESTAL 5 VOLT POWER SUPPLY TOLERANCE                      NN.N  PERCENT  |
16|  9. PEDESTAL +/-15 VOLT POWER SUPPLY TOLERANCE                  NN.N  PERCENT  |
17| 10. PEDESTAL 28 VOLT POWER SUPPLY TOLERANCE                     NN.N  PERCENT  |
18|                                                                                |
19|                                                                                |
20|(C)HANGE <LINE #>        (A)DAPTATION EDIT CONTROL MENU                         |
21|                         (M)AIN MENU                                            |
22|<FEEDBACK LINE>                                                                 |
23|<MESSAGE STATUS LINE>                                                           |
24|COMMAND: __ LINE: ____                                                          |
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```

Antenna/Pedestal Adaptation Change Menu

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           1111111111222222222233333333334444444444555555555566666666667777777778
  12345678901234567890123456789012345678901234567890123456789012345678901234567890
 +--------------------------------------------------------------------------------+
01|                                                                                |
02|                                                                                |
03|                                STATUS LINES                                    |
04|                                                                                |
 |--------------------------------------------------------------------------------|
05|                                    ALARM                                       |
06|                                    AREA                                        |
07|                         ANTENNA/PEDESTAL ADAPTATION              (PG  2 OF  2)|
08|  11. ENCODER 5 VOLT POWER SUPPLY TOLERANCE                     NN.NN  PERCENT  |
09|  12. ENCODER 5 VOLT POWER SUPPLY NOMINAL VOLTAGE                N.NN  VOLTS    |
10|                                                                                |
11|                                                                                |
12|                                                                                |
13|                                                                                |
14|                                                                                |
15|                                                                                |
16|                                                                                |
17|                                                                                |
18|                                                                                |
19|                                                                                |
20|(C)HANGE <LINE #>        (A)DAPTATION EDIT CONTROL MENU                         |
21|                         (M)AIN MENU                                            |
22|<FEEDBACK LINE>                                                                 |
23|<MESSAGE STATUS LINE>                                                           |
24|COMMAND: __ LINE: ____                                                          |
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Antenna/Pedestal Adaptation Change Menu (cont)

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          1111111111222222222233333333334444444444555555555566666666667777777778
  12345678901234567890123456789012345678901234567890123456789012345678901234567890
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01|                                                                                |
02|                                                                                |
03|                                 STATUS LINES                                   |
04|                                                                                |
 |--------------------------------------------------------------------------------|
05|                                     ALARM                                      |
06|                                     AREA                                       |
07|                               PASSWORD ADAPTATION                  (PG  1 OF  1)|
08|  1. LOW ACCESS LEVEL ADAPTATION DATA PASSWORD                                  |
09|  2. HIGH ACCESS LEVEL ADAPTATION DATA PASSWORD                                 |
10|  3. TERMINATE PROGRAM PASSWORD                                                 |
11|  4. REDUNDANT CHANNEL COMMAND PASSWORD                                         |
12|                                                                                |
13|                                                                                |
14|                                                                                |
15|                                                                                |
16|                                                                                |
17|                                                                                |
18|                                                                                |
19|                                                                                |
20|(C)HANGE                 (A)DAPTATION EDIT CONTROL MENU                         |
21|                         (M)AIN MENU                                            |
22|<FEEDBACK LINE>                                                                 |
23|<MESSAGE STATUS LINE>                                                           |
24|COMMAND: __ LINE: ____                                                          |
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Password Adaptation Change Menu

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           1111111111222222222233333333334444444444555555555566666666667777777778
  12345678901234567890123456789012345678901234567890123456789012345678901234567890
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01|                                                                                |
02|                                                                                |
03|                                 STATUS LINES                                   |
04|                                                                                |
 |--------------------------------------------------------------------------------|
05|                                     ALARM                                      |
06|                                     AREA                                       |
07|                               PASSWORD ADAPTATION                  (PG  1 OF  1)|
08|  1. LOW ACCESS LEVEL ADAPTATION DATA PASSWORD                                  |
09|  2. HIGH ACCESS LEVEL ADAPTATION DATA PASSWORD                                 |
10|  3. TERMINATE PROGRAM PASSWORD                                                 |
11|  4. REDUNDANT CHANNEL COMMAND PASSWORD                                         |
12|                                                                                |
13|                                                                                |
14|                                                                                |
15|                                                                                |
16|                                                                                |
17|                                                                                |
18|                                                                                |
19|                                                                                |
20| ALLOWABLE RANGE: ENTER UP TO FIVE CHARACTERS (A-Z, 0-9)                        |
21|  3. TERMINATE PROGRAM PASSWORD ______                                          |
22|<FEEDBACK LINE>                                                                 |
23|<MESSAGE STATUS LINE>                                                           |
24|                                                                                |
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Password Adaptation Enter New Data Value Menu

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          1111111111222222222233333333334444444444555555555566666666667777777778
   12345678901234567890123456789012345678901234567890123456789012345678901234567890
  +--------------------------------------------------------------------------------+
01|                                                                                |
02|                                                                                |
03|                                 STATUS LINES                                   |
04|                                                                                |
  |--------------------------------------------------------------------------------|
05|                                     ALARM                                      |
06|                                     AREA                                       |
07|                               PASSWORD ADAPTATION                  (PG  1 OF  1)|
08|  1. LOW ACCESS LEVEL ADAPTATION DATA PASSWORD                                  |
09|  2. HIGH ACCESS LEVEL ADAPTATION DATA PASSWORD                                 |
10|  3. TERMINATE PROGRAM PASSWORD                                                 |
11|  4. REDUNDANT CHANNEL COMMAND PASSWORD                                         |
12|                                                                                |
13|                                                                                |
14|                                                                                |
15|                                                                                |
16|                                                                                |
17|                                                                                |
18|                                                                                |
19|                                                                                |
20| PASSWORD ENTERED IS XXXXX                                                      |
21| VERIFY MODIFIED PASSWORD BY ENTERING Y/N __                                    |
22|<FEEDBACK LINE>                                                                 |
23|<MESSAGE STATUS LINE>                                                           |
24|                                                                                |
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```

Password Adaptation Verify New Data Value Menu

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           1111111111222222222233333333334444444444555555555566666666667777777778
  12345678901234567890123456789012345678901234567890123456789012345678901234567890
 +--------------------------------------------------------------------------------+
01|                                                                                |
02|                                                                                |
03|                                 STATUS LINES                                   |
04|                                                                                |
 |--------------------------------------------------------------------------------|
05|                                     ALARM                                      |
06|                                     AREA                                       |
07|                              RECEIVER ADAPTATION                  (PG  1 OF 25)|
08|  1. ISU CONFIGURED                                                L            |
09|  2. REFLECTIVITY AND CLUTTER SUPPR TEST INTERVAL                 NN  HOURS     |
10|  3. NORMAL LINEAR CHANNEL LONG PULSE SMPLG PHASE                 NN  CLOCK CNTS|
11|  4. KLYSTR OUT TGT LIN CHAN LNG PULSE SMPLG PHASE                NN  CLOCK CNTS|
12|  5. RF DRIVE TGT LIN CHAN LONG PULSE SMPLG PHASE                 NN  CLOCK CNTS|
13|  6. NORMAL LINEAR CHANNEL SHORT PULSE SMPLG PHASE                NN  CLOCK CNTS|
14|  7. KLYSTR OUT TGT LIN CHAN SHT PULSE SMPLG PHASE                NN  CLOCK CNTS|
15|  8. RF DRIVE TGT LIN CHAN SHORT PULSE SMPLG PHASE                NN  CLOCK CNTS|
16|  9. NORMAL LOG CHANNEL LONG PULSE SAMPLING PHASE                 NN  CLOCK CNTS|
17| 10. KLYSTR OUT TGT LOG CHAN LNG PULSE SMPLG PHASE                 NN  CLOCK CNTS|
18|                                                                                |
19|                                                                                |
20|(C)HANGE                 (A)DAPTATION EDIT CONTROL MENU       (F)ORWARD PAGE    |
21|                         (M)AIN MENU                          (B)ACK PAGE       |
22|<FEEDBACK LINE>                                                                 |
23|<MESSAGE STATUS LINE>                                                           |
24|COMMAND: __ LINE: ____                                                          |
  +--------------------------------------------------------------------------------+
```

Receiver Adaptation Change Menu (Page 1-25)

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          1111111111222222222233333333334444444444555555555566666666667777777778
  12345678901234567890123456789012345678901234567890123456789012345678901234567890
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01|                                                                                |
02|                                                                                |
03|                                 STATUS LINES                                   |
04|                                                                                |
 |--------------------------------------------------------------------------------|
05|                                     ALARM                                      |
06|                                     AREA                                       |
07|                              RECEIVER ADAPTATION                  (PG  2 OF 25)|
08| 11. RF DRIVE TGT LOG CHAN LONG PULSE SMPLG PHASE                 NN  CLOCK CNTS|
09| 12. NORMAL LOG CHANNEL SHORT PULSE SAMPLING PHASE                NN  CLOCK CNTS|
10| 13. KLYSTR OUT TGT LOG CHAN SHT PULSE SMPLG PHASE                NN  CLOCK CNTS|
11| 14. RF DRIVE TGT LOG CHAN SHORT PULSE SMPLG PHASE                NN  CLOCK CNTS|
12| 15. BIN NUMBER FOR KLYSTRON OUT TARGET LONG PULSE                NN  1/4 KM BIN|
13| 16. BIN NUMBER FOR KLYSTRON OUT TARGET SHT PULSE                 NN  1/4 KM BIN|
14| 17. TRUE RANGE AT START OF FIRST RANGE BIN                  NN.NNN  KM        |
15| 18. RECEIVER TEST A/D SCALE FACTOR                          N.NNNN  VOLTS     |
16| 19. A12 MAIN LOG AMPLIFIER DETECTOR SCALE                  N.NNNNN  VOLTS/DBM |
17| 20. A30 IF LOG DETECTOR SCALE                              N.NNNNN  VOLTS/DBM |
18|                                                                                |
19|                                                                                |
20|(C)HANGE                 (A)DAPTATION EDIT CONTROL MENU       (F)ORWARD PAGE    |
21|                         (M)AIN MENU                          (B)ACK PAGE       |
22|<FEEDBACK LINE>                                                                 |
23|<MESSAGE STATUS LINE>                                                           |
24|COMMAND: __ LINE: ____                                                          |
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Receiver Adaptation Change Menu (Page 2)

```
           1111111111222222222233333333334444444444555555555566666666667777777778
  12345678901234567890123456789012345678901234567890123456789012345678901234567890
 +--------------------------------------------------------------------------------+
01|                                                                                |
02|                                                                                |
03|                                STATUS LINES                                    |
04|                                                                                |
 |--------------------------------------------------------------------------------|
05|                                    ALARM                                       |
06|                                    AREA                                        |
07|                              RECEIVER ADAPTATION                 (PG  3 OF 25)|
08| 21. A29 RF DETECTOR LOG AMPLIFIER SCALE                     N.NNNNN  VOLTS/DBM |
09| 22. A18 GUARD + LOG AMPLIFIER DETECTOR SCALE                N.NNNNN  VOLTS/DBM |
10| 23. A17 GUARD - LOG AMPLIFIER DETECTOR SCALE                N.NNNNN  VOLTS/DBM |
11| 24. BIAS FOR A12 MAIN LOG AMPLIFIER DETECTOR                N.NNNNN  VOLTS     |
12| 25. BIAS FOR A30 IF LOG DETECTOR                            N.NNNNN  VOLTS     |
13| 26. BIAS FOR A29 RF DETECTOR LOG AMPLIFIER                  N.NNNNN  VOLTS     |
14| 27. BIAS FOR A18 GUARD + LOG AMPLIFIER DETECTOR             N.NNNNN  VOLTS     |
15| 28. BIAS FOR A17 GUARD - LOG AMPLIFIER DETECTOR             N.NNNNN  VOLTS     |
16| 29. GAIN FOR A12 MAIN LOG AMPLIFIER DETECTOR                N.NNNNN  RATIO     |
17| 30. GAIN FOR A30 IF LOG DETECTOR                            N.NNNNN  RATIO     |
18|                                                                                |
19|                                                                                |
20|(C)HANGE                 (A)DAPTATION EDIT CONTROL MENU       (F)ORWARD PAGE    |
21|                         (M)AIN MENU                          (B)ACK PAGE       |
22|<FEEDBACK LINE>                                                                 |
23|<MESSAGE STATUS LINE>                                                           |
24|COMMAND: __ LINE: ____                                                          |
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Receiver Adaptation Change Menu (Page 3)

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          1111111111222222222233333333334444444444555555555566666666667777777778
  12345678901234567890123456789012345678901234567890123456789012345678901234567890
 +--------------------------------------------------------------------------------+
01|                                                                                |
02|                                                                                |
03|                                STATUS LINES                                    |
04|                                                                                |
 |--------------------------------------------------------------------------------|
05|                                    ALARM                                       |
06|                                    AREA                                        |
07|                              RECEIVER ADAPTATION                 (PG  4 OF 25)|
08| 31. GAIN FOR A29 RF DETECTOR LOG AMPLIFIER                 N.NNNNN  RATIO     |
09| 32. GAIN FOR A18 GUARD + LOG AMPLIFIER DETECTOR            N.NNNNN  RATIO     |
10| 33. GAIN FOR A17 GUARD - LOG AMPLIFIER DETECTOR            N.NNNNN  RATIO     |
11| 34. CW TEST SIGNAL AT A22J3                                  NN.NN  DBM       |
12| 35. RF NOISE TEST SIGNAL ENR AT A22J4                        NN.NN  DB        |
13| 36. RF DRIVE TEST SIGNAL LONG PULSE AT A22J2                 NN.NN  DBM       |
14| 37. RF DRIVE TEST SIGNAL SHORT PULSE AT A22J2                NN.NN  DBM       |
15| 38. COHO POWER AT A10J2                                      NN.NN  DBM       |
16| 39. STALO POWER AT A5J2                                      NN.NN  DBM       |
17| 40. MATCHED FILTER LOSS FOR LONG PULSE                       NN.NN  DB        |
18|                                                                                |
19|                                                                                |
20|(C)HANGE                 (A)DAPTATION EDIT CONTROL MENU       (F)ORWARD PAGE    |
21|                         (M)AIN MENU                          (B)ACK PAGE       |
22|<FEEDBACK LINE>                                                                 |
23|<MESSAGE STATUS LINE>                                                           |
24|COMMAND: __ LINE: ____                                                          |
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Receiver Adaptation Change Menu (Page 4)

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           1111111111222222222233333333334444444444555555555566666666667777777778
  12345678901234567890123456789012345678901234567890123456789012345678901234567890
 +--------------------------------------------------------------------------------+
01|                                                                                |
02|                                                                                |
03|                                 STATUS LINES                                   |
04|                                                                                |
 |--------------------------------------------------------------------------------|
05|                                     ALARM                                      |
06|                                     AREA                                       |
07|                              RECEIVER ADAPTATION                 (PG  5 OF 25)|
08| 41. MATCHED FILTER LOSS FOR SHORT PULSE                        NN.NN  DB       |
09| 42. MISC CALIBRATION LOSS LONG PULSE CW TARGET                NNN.NN  DB       |
10| 43. MISC CAL LOSS LONG PULSE RF DRIVE TARGET                  NNN.NN  DB       |
11| 44. MISC CAL LOSS LONG PULSE KLYSTRON OUT TARGET              NNN.NN  DB       |
12| 45. MISC CALIBRATION LOSS SHORT PULSE CW TARGET               NNN.NN  DB       |
13| 46. MISC CAL LOSS SHORT PULSE RF DRIVE TARGET                 NNN.NN  DB       |
14| 47. MISC CAL LOSS SHORT PULSE KLYSTRON OUT TARGET             NNN.NN  DB       |
15| 48. PATH LOSS - COAX XMTR RF SAMPLE TO A33 PAD                NNN.NN  DB       |
16| 49. PATH LOSS - A33 PAD                                       NNN.NN  DB       |
17| 50. PATH LOSS - A20J1_2 POWER SPLITTER                        NNN.NN  DB       |
18|                                                                                |
19|                                                                                |
20|(C)HANGE                 (A)DAPTATION EDIT CONTROL MENU       (F)ORWARD PAGE    |
21|                         (M)AIN MENU                          (B)ACK PAGE       |
22|<FEEDBACK LINE>                                                                 |
23|<MESSAGE STATUS LINE>                                                           |
24|COMMAND: __ LINE: ____                                                          |
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Receiver Adaptation Change Menu (Page 5)

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          1111111111222222222233333333334444444444555555555566666666667777777778
  12345678901234567890123456789012345678901234567890123456789012345678901234567890
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01|                                                                                |
02|                                                                                |
03|                                STATUS LINES                                    |
04|                                                                                |
 |--------------------------------------------------------------------------------|
05|                                    ALARM                                       |
06|                                    AREA                                        |
07|                              RECEIVER ADAPTATION                 (PG  6 OF 25)|
08| 51. PATH LOSS - A20J1_3 POWER SPLITTER                       NNN.NN  DB        |
09| 52. PATH LOSS - A20J1_4 POWER SPLITTER                       NNN.NN  DB        |
10| 53. PATH LOSS - A34 PAD                                      NNN.NN  DB        |
11| 54. PATH LOSS - DC1 DIRECTIONAL COUPLER                      NNN.NN  DB        |
12| 55. PATH LOSS - A21 RF DELAY LINE                            NNN.NN  DB        |
13| 56. PATH LOSS - COAX XMTR RF DRIVE TO A22J2                  NNN.NN  DB        |
14| 57. PATH LOSS - A22J1_5 FOUR POSITION TEST SWITCH            NNN.NN  DB        |
15| 58. PATH LOSS - A22J2_5 FOUR POSITION TEST SWITCH            NNN.NN  DB        |
16| 59. PATH LOSS - A22J3_5 FOUR POSITION TEST SWITCH            NNN.NN  DB        |
17| 60. PATH LOSS - A22J4_5 FOUR POSITION TEST SWITCH            NNN.NN  DB        |
18|                                                                                |
19|                                                                                |
20|(C)HANGE                 (A)DAPTATION EDIT CONTROL MENU       (F)ORWARD PAGE    |
21|                         (M)AIN MENU                          (B)ACK PAGE       |
22|<FEEDBACK LINE>                                                                 |
23|<MESSAGE STATUS LINE>                                                           |
24|COMMAND: __ LINE: ____                                                          |
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Receiver Adaptation Change Menu (Page 6)

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           1111111111222222222233333333334444444444555555555566666666667777777778
  12345678901234567890123456789012345678901234567890123456789012345678901234567890
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01|                                                                                |
02|                                                                                |
03|                                STATUS LINES                                    |
04|                                                                                |
 |--------------------------------------------------------------------------------|
05|                                    ALARM                                       |
06|                                    AREA                                        |
07|                              RECEIVER ADAPTATION                 (PG  7 OF 25)|
08| 61. PATH LOSS - A22J2_6 FOUR POSITION TEST SWITCH            NNN.NN  DB        |
09| 62. PATH LOSS - A22J3_7 FOUR POSITION TEST SWITCH            NNN.NN  DB        |
10| 63. PATH LOSS - A23J1_2 TEST ATTENUATOR                      NNN.NN  DB        |
11| 64. PATH LOSS - A23J1_3 TEST ATTENUATOR                      NNN.NN  DB        |
12| 65. PATH LOSS - A23J1_4 TEST ATTENUATOR                      NNN.NN  DB        |
13| 66. PATH LOSS - A24J1_2 TWO POSITION TEST SWITCH             NNN.NN  DB        |
14| 67. PATH LOSS - A24J1_3 TWO POSITION TEST SWITCH             NNN.NN  DB        |
15| 68. PATH LOSS - A24J1_4 TWO POSITION TEST SWITCH             NNN.NN  DB        |
16| 69. PATH LOSS - TEST COAX TO PED AZ ROTARY JOINT             NNN.NN  DB        |
17| 70. PATH LOSS - 2A1A4 AZ ROTARY JOINT CHAN 2 OR 4            NNN.NN  DB        |
18|                                                                                |
19|                                                                                |
20|(C)HANGE                 (A)DAPTATION EDIT CONTROL MENU       (F)ORWARD PAGE    |
21|                         (M)AIN MENU                          (B)ACK PAGE       |
22|<FEEDBACK LINE>                                                                 |
23|<MESSAGE STATUS LINE>                                                           |
24|COMMAND: __ LINE: ____                                                          |
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Receiver Adaptation Change Menu (Page 7)

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          1111111111222222222233333333334444444444555555555566666666667777777778
  12345678901234567890123456789012345678901234567890123456789012345678901234567890
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01|                                                                                |
02|                                                                                |
03|                                 STATUS LINES                                   |
04|                                                                                |
 |--------------------------------------------------------------------------------|
05|                                     ALARM                                      |
06|                                     AREA                                       |
07|                              RECEIVER ADAPTATION                 (PG  8 OF 25)|
08| 71. PATH LOSS - TEST COAX AZ ROTARY JOINT TO RFE             NNN.NN  DB        |
09| 72. PATH LOSS - 2A3J3/2A7J3 RCVR PROTR TEST CPLR             NNN.NN  DB        |
10| 73. PATH LOSS - 2A3J1_2/2A7J1_2 RCVR PROTECTOR               NNN.NN  DB        |
11| 74. PATH LOSS - 2A4J1_2/2A8J1_2 LOW NOISE AMPL               NNN.NN  DB        |
12| 75. PATH LOSS - RECEIVE COAX LNA TO AZ RTRY JOINT            NNN.NN  DB        |
13| 76. PATH LOSS - 2A1A4 AZ ROTARY JOINT CHAN 3 OR 5            NNN.NN  DB        |
14| 77. PATH LOSS - RCV COAX AZ RTRY JOINT TO A36 PAD            NNN.NN  DB        |
15| 78. PATH LOSS - A36 PAD                                      NNN.NN  DB        |
16| 79. PATH LOSS - W103 COAX A24J3 to DC2                       NNN.NN  DB        |
17| 80. PATH LOSS - DC2 DIRECTIONAL COUPLER                      NNN.NN  DB        |
18|                                                                                |
19|                                                                                |
20|(C)HANGE                 (A)DAPTATION EDIT CONTROL MENU       (F)ORWARD PAGE    |
21|                         (M)AIN MENU                          (B)ACK PAGE       |
22|<FEEDBACK LINE>                                                                 |
23|<MESSAGE STATUS LINE>                                                           |
24|COMMAND: __ LINE: ____                                                          |
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Receiver Adaptation Change Menu (Page 8)

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           1111111111222222222233333333334444444444555555555566666666667777777778
  12345678901234567890123456789012345678901234567890123456789012345678901234567890
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01|                                                                                |
02|                                                                                |
03|                                STATUS LINES                                    |
04|                                                                                |
 |--------------------------------------------------------------------------------|
05|                                     ALARM                                      |
06|                                     AREA                                       |
07|                              RECEIVER ADAPTATION                 (PG  9 OF 25)|
08| 81. PATH LOSS - A4 PRESELECT BANDPASS FILTER                NNN.NN  DB        |
09| 82. PATH LOSS - W102 RECEIVE COAX A4 TO A5                  NNN.NN  DB        |
10| 83. PATH LOSS - A5J1_3 MIXER PREAMPLIFIER                   NNN.NN  DB        |
11| 84. PATH LOSS - A5J1_4 MIXER PREAMPLIFIER                   NNN.NN  DB        |
12| 85. PATH LOSS - A5J1_5 MIXER PREAMPLIFIER                   NNN.NN  DB        |
13| 86. PATH LOSS - A5J1_7 MIXER PREAMPLIFIER                   NNN.NN  DB        |
14| 87. PATH LOSS - A5J2_6 MIXER PREAMPLIFIER                   NNN.NN  DB        |
15| 88. PATH LOSS - A6J1_2 RECEIVER MATCHED FILTER              NNN.NN  DB        |
16| 89. PATH LOSS - A6J1_3 RECEIVER MATCHED FILTER              NNN.NN  DB        |
17| 90. PATH LOSS - A6J1_4 RECEIVER MATCHED FILTER              NNN.NN  DB        |
18|                                                                                |
19|                                                                                |
20|(C)HANGE                 (A)DAPTATION EDIT CONTROL MENU       (F)ORWARD PAGE    |
21|                         (M)AIN MENU                          (B)ACK PAGE       |
22|<FEEDBACK LINE>                                                                 |
23|<MESSAGE STATUS LINE>                                                           |
24|COMMAND: __ LINE: ____                                                          |
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Receiver Adaptation Change Menu (Page 9)

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  12345678901234567890123456789012345678901234567890123456789012345678901234567890
 +--------------------------------------------------------------------------------+
01|                                                                                |
02|                                                                                |
03|                                 STATUS LINES                                   |
04|                                                                                |
 |--------------------------------------------------------------------------------|
05|                                     ALARM                                      |
06|                                     AREA                                       |
07|                              RECEIVER ADAPTATION                 (PG 10 OF 25)|
08| 91. PATH LOSS - A7 IF DELAY LINE                              NNN.NN  DB       |
09| 92. PATH LOSS - A8J1_2 IF ATTENUATOR                          NNN.NN  DB       |
10| 93. PATH LOSS - A8J1_3 IF ATTENUATOR                          NNN.NN  DB       |
11| 94. PATH LOSS - A9J1_2 IF AMPLIFIER/LIMITER                   NNN.NN  DB       |
12| 95. PATH LOSS - A9J1_3 IF AMPLIFIER/LIMITER                   NNN.NN  DB       |
13| 96. PATH LOSS - A9J1_4 IF AMPLIFIER/LIMITER                   NNN.NN  DB       |
14| 97. PATH LOSS - A10J2_3 I/Q PHASE DETECTOR                    NNN.NN  DB       |
15| 98. PATH LOSS - PHASE DETECTOR INPUT TO A/D OUT               NNN.NN  DB       |
16| 99. PATH LOSS - A14J1_2 GRD BAND IF AMPL ASSEMBLY             NNN.NN  DB       |
17|100. PATH LOSS - A14J1_3 GRD BAND IF AMPL ASSEMBLY             NNN.NN  DB       |
18|                                                                                |
19|                                                                                |
20|(C)HANGE                 (A)DAPTATION EDIT CONTROL MENU       (F)ORWARD PAGE    |
21|                         (M)AIN MENU                          (B)ACK PAGE       |
22|<FEEDBACK LINE>                                                                 |
23|<MESSAGE STATUS LINE>                                                           |
24|COMMAND: __ LINE: ____                                                          |
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Receiver Adaptation Change Menu (Page 10)

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           1111111111222222222233333333334444444444555555555566666666667777777778
  12345678901234567890123456789012345678901234567890123456789012345678901234567890
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01|                                                                                |
02|                                                                                |
03|                                 STATUS LINES                                   |
04|                                                                                |
 |--------------------------------------------------------------------------------|
05|                                     ALARM                                      |
06|                                     AREA                                       |
07|                              RECEIVER ADAPTATION                 (PG 11 OF 25)|
08|101. PATH LOSS - A14J1_4 GRD BAND IF AMPL ASSEMBLY            NNN.NN  DB       |
09|102. PATH LOSS - A14J1_5 GRD BAND IF AMPL ASSEMBLY            NNN.NN  DB       |
10|103. PATH LOSS - A15J1_2 - GUARD BAND FILTER                  NNN.NN  DB       |
11|104. PATH LOSS - A15J1_3 - GUARD BAND FILTER                  NNN.NN  DB       |
12|105. PATH LOSS - A16J1_2 + GUARD BAND FILTER                  NNN.NN  DB       |
13|106. PATH LOSS - A16J1_3 + GUARD BAND FILTER                  NNN.NN  DB       |
14|107. PATH LOSS - A27 MULTI POS RF SELECT SWITCH               NNN.NN  DB       |
15|108. PATH LOSS - A28 MULTI POS IF SELECT SWITCH               NNN.NN  DB       |
16|109. PATH LOSS - A31_A RF/IF TEST MONITOR                     NNN.NN  DB       |
17|110. PATH LOSS - A31_B RF/IF TEST MONITOR                     NNN.NN  DB       |
18|                                                                                |
19|                                                                                |
20|(C)HANGE                 (A)DAPTATION EDIT CONTROL MENU       (F)ORWARD PAGE    |
21|                         (M)AIN MENU                          (B)ACK PAGE       |
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24|COMMAND: __ LINE: ____                                                          |
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Receiver Adaptation Change Menu (Page 11)

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01|                                                                                |
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03|                                 STATUS LINES                                   |
04|                                                                                |
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05|                                     ALARM                                      |
06|                                     AREA                                       |
07|                              RECEIVER ADAPTATION                 (PG 12 OF 25)|
08|111. PATH LOSS - A31_C RF/IF TEST MONITOR                     NNN.NN  DB       |
09|112. PATH LOSS - A31_D RF/IF TEST MONITOR                     NNN.NN  DB       |
10|113. PATH LOSS - A31_E RF/IF TEST MONITOR                     NNN.NN  DB       |
11|114. TEST SIGNAL ATTENUATOR (STEP 0)                           NN.NN  DB       |
12|115. TEST SIGNAL ATTENUATOR (STEP 1)                           NN.NN  DB       |
13|116. TEST SIGNAL ATTENUATOR (STEP 2)                           NN.NN  DB       |
14|117. TEST SIGNAL ATTENUATOR (STEP 3)                           NN.NN  DB       |
15|118. TEST SIGNAL ATTENUATOR (STEP 4)                           NN.NN  DB       |
16|119. TEST SIGNAL ATTENUATOR (STEP 5)                           NN.NN  DB       |
17|120. TEST SIGNAL ATTENUATOR (STEP 6)                           NN.NN  DB       |
18|                                                                                |
19|                                                                                |
20|(C)HANGE                 (A)DAPTATION EDIT CONTROL MENU       (F)ORWARD PAGE    |
21|                         (M)AIN MENU                          (B)ACK PAGE       |
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Receiver Adaptation Change Menu (Page 12)

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03|                                 STATUS LINES                                   |
04|                                                                                |
  |--------------------------------------------------------------------------------|
05|                                     ALARM                                      |
06|                                     AREA                                       |
07|                              RECEIVER ADAPTATION                 (PG 13 OF 25)|
08|121. TEST SIGNAL ATTENUATOR (STEP 7)                            NN.NN  DB      |
09|122. TEST SIGNAL ATTENUATOR (STEP 8)                            NN.NN  DB      |
10|123. TEST SIGNAL ATTENUATOR (STEP 9)                            NN.NN  DB      |
11|124. TEST SIGNAL ATTENUATOR (STEP 10)                          NNN.NN  DB      |
12|125. TEST SIGNAL ATTENUATOR (STEP 11)                          NNN.NN  DB      |
13|126. TEST SIGNAL ATTENUATOR (STEP 12)                          NNN.NN  DB      |
14|127. TEST SIGNAL ATTENUATOR (STEP 13)                          NNN.NN  DB      |
15|128. TEST SIGNAL ATTENUATOR (STEP 14)                          NNN.NN  DB      |
16|129. TEST SIGNAL ATTENUATOR (STEP 15)                          NNN.NN  DB      |
17|130. TEST SIGNAL ATTENUATOR (STEP 16)                          NNN.NN  DB      |
18|                                                                                |
19|                                                                                |
20|(C)HANGE                 (A)DAPTATION EDIT CONTROL MENU       (F)ORWARD PAGE    |
21|                         (M)AIN MENU                          (B)ACK PAGE       |
22|<FEEDBACK LINE>                                                                 |
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24|COMMAND: __ LINE: ____                                                          |
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Receiver Adaptation Change Menu (Page 13)

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03|                                 STATUS LINES                                   |
04|                                                                                |
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05|                                     ALARM                                      |
06|                                     AREA                                       |
07|                              RECEIVER ADAPTATION                 (PG 14 OF 25)|
08|131. TEST SIGNAL ATTENUATOR (STEP 17)                        NNN.NN  DB        |
09|132. TEST SIGNAL ATTENUATOR (STEP 18)                        NNN.NN  DB        |
10|133. TEST SIGNAL ATTENUATOR (STEP 19)                        NNN.NN  DB        |
11|134. TEST SIGNAL ATTENUATOR (STEP 20)                        NNN.NN  DB        |
12|135. TEST SIGNAL ATTENUATOR (STEP 21)                        NNN.NN  DB        |
13|136. TEST SIGNAL ATTENUATOR (STEP 22)                        NNN.NN  DB        |
14|137. TEST SIGNAL ATTENUATOR (STEP 23)                        NNN.NN  DB        |
15|138. TEST SIGNAL ATTENUATOR (STEP 24)                        NNN.NN  DB        |
16|139. TEST SIGNAL ATTENUATOR (STEP 25)                        NNN.NN  DB        |
17|140. TEST SIGNAL ATTENUATOR (STEP 26)                        NNN.NN  DB        |
18|                                                                                |
19|                                                                                |
20|(C)HANGE                 (A)DAPTATION EDIT CONTROL MENU       (F)ORWARD PAGE    |
21|                         (M)AIN MENU                          (B)ACK PAGE       |
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Receiver Adaptation Change Menu (Page 14)

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03|                                 STATUS LINES                                   |
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05|                                     ALARM                                      |
06|                                     AREA                                       |
07|                              RECEIVER ADAPTATION                 (PG 15 OF 25)|
08|141. TEST SIGNAL ATTENUATOR (STEP 27)                        NNN.NN  DB        |
09|142. TEST SIGNAL ATTENUATOR (STEP 28)                        NNN.NN  DB        |
10|143. TEST SIGNAL ATTENUATOR (STEP 29)                        NNN.NN  DB        |
11|144. TEST SIGNAL ATTENUATOR (STEP 30)                        NNN.NN  DB        |
12|145. TEST SIGNAL ATTENUATOR (STEP 31)                        NNN.NN  DB        |
13|146. TEST SIGNAL ATTENUATOR (STEP 32)                        NNN.NN  DB        |
14|147. TEST SIGNAL ATTENUATOR (STEP 33)                        NNN.NN  DB        |
15|148. TEST SIGNAL ATTENUATOR (STEP 34)                        NNN.NN  DB        |
16|149. TEST SIGNAL ATTENUATOR (STEP 35)                        NNN.NN  DB        |
17|150. TEST SIGNAL ATTENUATOR (STEP 36)                        NNN.NN  DB        |
18|                                                                                |
19|                                                                                |
20|(C)HANGE                 (A)DAPTATION EDIT CONTROL MENU       (F)ORWARD PAGE    |
21|                         (M)AIN MENU                          (B)ACK PAGE       |
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Receiver Adaptation Change Menu (Page 15)

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03|                                 STATUS LINES                                   |
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05|                                     ALARM                                      |
06|                                     AREA                                       |
07|                              RECEIVER ADAPTATION                 (PG 16 OF 25)|
08|151. TEST SIGNAL ATTENUATOR (STEP 37)                        NNN.NN  DB        |
09|152. TEST SIGNAL ATTENUATOR (STEP 38)                        NNN.NN  DB        |
10|153. TEST SIGNAL ATTENUATOR (STEP 39)                        NNN.NN  DB        |
11|154. TEST SIGNAL ATTENUATOR (STEP 40)                        NNN.NN  DB        |
12|155. TEST SIGNAL ATTENUATOR (STEP 41)                        NNN.NN  DB        |
13|156. TEST SIGNAL ATTENUATOR (STEP 42)                        NNN.NN  DB        |
14|157. TEST SIGNAL ATTENUATOR (STEP 43)                        NNN.NN  DB        |
15|158. TEST SIGNAL ATTENUATOR (STEP 44)                        NNN.NN  DB        |
16|159. TEST SIGNAL ATTENUATOR (STEP 45)                        NNN.NN  DB        |
17|160. TEST SIGNAL ATTENUATOR (STEP 46)                        NNN.NN  DB        |
18|                                                                                |
19|                                                                                |
20|(C)HANGE                 (A)DAPTATION EDIT CONTROL MENU       (F)ORWARD PAGE    |
21|                         (M)AIN MENU                          (B)ACK PAGE       |
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Receiver Adaptation Change Menu (Page 16)

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03|                                 STATUS LINES                                   |
04|                                                                                |
 |--------------------------------------------------------------------------------|
05|                                     ALARM                                      |
06|                                     AREA                                       |
07|                              RECEIVER ADAPTATION                 (PG 17 OF 25)|
08|161. TEST SIGNAL ATTENUATOR (STEP 47)                        NNN.NN  DB        |
09|162. TEST SIGNAL ATTENUATOR (STEP 48)                        NNN.NN  DB        |
10|163. TEST SIGNAL ATTENUATOR (STEP 49)                        NNN.NN  DB        |
11|164. TEST SIGNAL ATTENUATOR (STEP 50)                        NNN.NN  DB        |
12|165. TEST SIGNAL ATTENUATOR (STEP 51)                        NNN.NN  DB        |
13|166. TEST SIGNAL ATTENUATOR (STEP 52)                        NNN.NN  DB        |
14|167. TEST SIGNAL ATTENUATOR (STEP 53)                        NNN.NN  DB        |
15|168. TEST SIGNAL ATTENUATOR (STEP 54)                        NNN.NN  DB        |
16|169. TEST SIGNAL ATTENUATOR (STEP 55)                        NNN.NN  DB        |
17|170. TEST SIGNAL ATTENUATOR (STEP 56)                        NNN.NN  DB        |
18|                                                                                |
19|                                                                                |
20|(C)HANGE                 (A)DAPTATION EDIT CONTROL MENU       (F)ORWARD PAGE    |
21|                         (M)AIN MENU                          (B)ACK PAGE       |
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24|COMMAND: __ LINE: ____                                                          |
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Receiver Adaptation Change Menu (Page 17)

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03|                                 STATUS LINES                                   |
04|                                                                                |
 |--------------------------------------------------------------------------------|
05|                                     ALARM                                      |
06|                                     AREA                                       |
07|                              RECEIVER ADAPTATION                 (PG 18 OF 25)|
08|171. TEST SIGNAL ATTENUATOR (STEP 57)                        NNN.NN  DB        |
09|172. TEST SIGNAL ATTENUATOR (STEP 58)                        NNN.NN  DB        |
10|173. TEST SIGNAL ATTENUATOR (STEP 59)                        NNN.NN  DB        |
11|174. TEST SIGNAL ATTENUATOR (STEP 60)                        NNN.NN  DB        |
12|175. TEST SIGNAL ATTENUATOR (STEP 61)                        NNN.NN  DB        |
13|176. TEST SIGNAL ATTENUATOR (STEP 62)                        NNN.NN  DB        |
14|177. TEST SIGNAL ATTENUATOR (STEP 63)                        NNN.NN  DB        |
15|178. TEST SIGNAL ATTENUATOR (STEP 64)                        NNN.NN  DB        |
16|179. TEST SIGNAL ATTENUATOR (STEP 65)                        NNN.NN  DB        |
17|180. TEST SIGNAL ATTENUATOR (STEP 66)                        NNN.NN  DB        |
18|                                                                                |
19|                                                                                |
20|(C)HANGE                 (A)DAPTATION EDIT CONTROL MENU       (F)ORWARD PAGE    |
21|                         (M)AIN MENU                          (B)ACK PAGE       |
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24|COMMAND: __ LINE: ____                                                          |
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Receiver Adaptation Change Menu (Page 18)

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03|                                 STATUS LINES                                   |
04|                                                                                |
  |--------------------------------------------------------------------------------|
05|                                     ALARM                                      |
06|                                     AREA                                       |
07|                              RECEIVER ADAPTATION                 (PG 19 OF 25)|
08|181. TEST SIGNAL ATTENUATOR (STEP 67)                        NNN.NN  DB        |
09|182. TEST SIGNAL ATTENUATOR (STEP 68)                        NNN.NN  DB        |
10|183. TEST SIGNAL ATTENUATOR (STEP 69)                        NNN.NN  DB        |
11|184. TEST SIGNAL ATTENUATOR (STEP 70)                        NNN.NN  DB        |
12|185. TEST SIGNAL ATTENUATOR (STEP 71)                        NNN.NN  DB        |
13|186. TEST SIGNAL ATTENUATOR (STEP 72)                        NNN.NN  DB        |
14|187. TEST SIGNAL ATTENUATOR (STEP 73)                        NNN.NN  DB        |
15|188. TEST SIGNAL ATTENUATOR (STEP 74)                        NNN.NN  DB        |
16|189. TEST SIGNAL ATTENUATOR (STEP 75)                        NNN.NN  DB        |
17|190. TEST SIGNAL ATTENUATOR (STEP 76)                        NNN.NN  DB        |
18|                                                                                |
19|                                                                                |
20|(C)HANGE                 (A)DAPTATION EDIT CONTROL MENU       (F)ORWARD PAGE    |
21|                         (M)AIN MENU                          (B)ACK PAGE       |
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24|COMMAND: __ LINE: ____                                                          |
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Receiver Adaptation Change Menu (Page 19)

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01|                                                                                |
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03|                                 STATUS LINES                                   |
04|                                                                                |
 |--------------------------------------------------------------------------------|
05|                                     ALARM                                      |
06|                                     AREA                                       |
07|                              RECEIVER ADAPTATION                 (PG 20 OF 25)|
08|191. TEST SIGNAL ATTENUATOR (STEP 77)                        NNN.NN  DB        |
09|192. TEST SIGNAL ATTENUATOR (STEP 78)                        NNN.NN  DB        |
10|193. TEST SIGNAL ATTENUATOR (STEP 79)                        NNN.NN  DB        |
11|194. TEST SIGNAL ATTENUATOR (STEP 80)                        NNN.NN  DB        |
12|195. TEST SIGNAL ATTENUATOR (STEP 81)                        NNN.NN  DB        |
13|196. TEST SIGNAL ATTENUATOR (STEP 82)                        NNN.NN  DB        |
14|197. TEST SIGNAL ATTENUATOR (STEP 83)                        NNN.NN  DB        |
15|198. TEST SIGNAL ATTENUATOR (STEP 84)                        NNN.NN  DB        |
16|199. TEST SIGNAL ATTENUATOR (STEP 85)                        NNN.NN  DB        |
17|200. TEST SIGNAL ATTENUATOR (STEP 86)                        NNN.NN  DB        |
18|                                                                                |
19|                                                                                |
20|(C)HANGE                 (A)DAPTATION EDIT CONTROL MENU       (F)ORWARD PAGE    |
21|                         (M)AIN MENU                          (B)ACK PAGE       |
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24|COMMAND: __ LINE: ____                                                          |
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Receiver Adaptation Change Menu (Page 20)

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01|                                                                                |
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03|                                 STATUS LINES                                   |
04|                                                                                |
 |--------------------------------------------------------------------------------|
05|                                     ALARM                                      |
06|                                     AREA                                       |
07|                              RECEIVER ADAPTATION                 (PG 21 OF 25)|
08|201. TEST SIGNAL ATTENUATOR (STEP 87)                        NNN.NN  DB        |
09|202. TEST SIGNAL ATTENUATOR (STEP 88)                        NNN.NN  DB        |
10|203. TEST SIGNAL ATTENUATOR (STEP 89)                        NNN.NN  DB        |
11|204. TEST SIGNAL ATTENUATOR (STEP 90)                        NNN.NN  DB        |
12|205. TEST SIGNAL ATTENUATOR (STEP 91)                        NNN.NN  DB        |
13|206. TEST SIGNAL ATTENUATOR (STEP 92)                        NNN.NN  DB        |
14|207. TEST SIGNAL ATTENUATOR (STEP 93)                        NNN.NN  DB        |
15|208. TEST SIGNAL ATTENUATOR (STEP 94)                        NNN.NN  DB        |
16|209. TEST SIGNAL ATTENUATOR (STEP 95)                        NNN.NN  DB        |
17|210. TEST SIGNAL ATTENUATOR (STEP 96)                        NNN.NN  DB        |
18|                                                                                |
19|                                                                                |
20|(C)HANGE                 (A)DAPTATION EDIT CONTROL MENU       (F)ORWARD PAGE    |
21|                         (M)AIN MENU                          (B)ACK PAGE       |
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Receiver Adaptation Change Menu (Page 21)

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03|                                STATUS LINES                                    |
04|                                                                                |
 |--------------------------------------------------------------------------------|
05|                                    ALARM                                       |
06|                                    AREA                                        |
07|                              RECEIVER ADAPTATION                 (PG 22 OF 25)|
08|211. TEST SIGNAL ATTENUATOR (STEP 97)                        NNN.NN  DB        |
09|212. TEST SIGNAL ATTENUATOR (STEP 98)                        NNN.NN  DB        |
10|213. TEST SIGNAL ATTENUATOR (STEP 99)                       NNNN.NN  DB        |
11|214. TEST SIGNAL ATTENUATOR (STEP 100)                      NNNN.NN  DB        |
12|215. TEST SIGNAL ATTENUATOR (STEP 101)                      NNNN.NN  DB        |
13|216. TEST SIGNAL ATTENUATOR (STEP 102)                      NNNN.NN  DB        |
14|217. TEST SIGNAL ATTENUATOR (STEP 103)                      NNNN.NN  DB        |
15|218. CVRSN FACTOR TO COMPUTE A/D BIAS CORRECTIONS            N.NNNN  RATIO     |
16|219. RCVR NOISE CALIBRATION SMOOTHING COEFFICIENT              N.NN  RATIO     |
17|220. LIN CHANNEL LP/SP RECEIVER NOISE RATIO                   N.NNN  RATIO     |
18|                                                                                |
19|                                                                                |
20|(C)HANGE                 (A)DAPTATION EDIT CONTROL MENU       (F)ORWARD PAGE    |
21|                         (M)AIN MENU                          (B)ACK PAGE       |
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Receiver Adaptation Change Menu (Page 22)

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01|                                                                                |
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03|                                STATUS LINES                                    |
04|                                                                                |
 |--------------------------------------------------------------------------------|
05|                                    ALARM                                       |
06|                                    AREA                                        |
07|                              RECEIVER ADAPTATION                 (PG 23 OF 25)|
08|221. LOG CHANNEL LP/SP RECEIVER NOISE RATIO                   N.NNN  RATIO     |
09|222. RECEIVER NOISE LIN CHANNEL LOWER LIMIT                  N.NNENN  POWER     |
10|223. RECEIVER NOISE LIN CHANNEL UPPER LIMIT                  N.NNENN  POWER     |
11|224. RECEIVER NOISE LOG CHANNEL LOWER LIMIT                  N.NNENN  POWER     |
12|225. RECEIVER NOISE LOG CHANNEL UPPER LIMIT                  N.NNENN  POWER     |
13|226. IDU NOISE TEST DEGRADE LIMIT                               NNNN  DET EVENTS|
14|227. SYSTEM NOISE TEMP DEGRADE LIMIT FOR CTRL CHAN             NNNN.  DEG KELVIN|
15|228. SYSTEM NOISE TEMP MAINT LIMIT FOR CTRL CHAN               NNNN.  DEG KELVIN|
16|229. SYSTEM NOISE TEMP DEGRADE LIMIT NON-CTRL CHAN             NNNN.  DEG KELVIN|
17|230. SYSTEM NOISE TEMP MAINT LIMIT NON-CTRL CHAN               NNNN.  DEG KELVIN|
18|                                                                                |
19|                                                                                |
20|(C)HANGE                 (A)DAPTATION EDIT CONTROL MENU       (F)ORWARD PAGE    |
21|                         (M)AIN MENU                          (B)ACK PAGE       |
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Receiver Adaptation Change Menu (Page 23)

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01|                                                                                |
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03|                                 STATUS LINES                                   |
04|                                                                                |
 |--------------------------------------------------------------------------------|
05|                                     ALARM                                      |
06|                                     AREA                                       |
07|                              RECEIVER ADAPTATION                  (PG 24 OF 25)|
08|231. TOLERANCE FOR AGC CALIBRATION SIGNALS                      NN.N  DB       |
09|232. IF ATTENUATOR STEP DEGRADE TOLERANCE                        N.N  DB       |
10|233. IF ATTENUATOR STEP MAINT REQUIRED TOLERANCE                 N.N  DB       |
11|234. TARGET SYSCAL CONSTANT SHORT PULSE LIN CHAN               NN.NN  DB       |
12|235. TARGET SYSCAL CONSTANT SHORT PULSE LOG CHAN              NNN.NN  DB       |
13|236. TARGET SYSCAL INCREMENT IN LONG PULSE MODE               NNN.NN  DB       |
14|237. LIN CHAN TEST TGT CONSISTENCY DEGRADE LIMIT                NN.N  DB       |
15|238. LIMIT FOR (COMPUTED - TGT) LINEAR CHAN SYSCAL              NN.N  DB       |
16|239. LIN CHAN KLYSTR OUT TGT CONSISTENCY DEGR LIM               NN.N  DB       |
17|240. LIN CHAN REFL CALIBRATION CHECK DEGRADE LIMIT              NN.N  DB       |
18|                                                                                |
19|                                                                                |
20|(C)HANGE                 (A)DAPTATION EDIT CONTROL MENU       (F)ORWARD PAGE    |
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Receiver Adaptation Change Menu (Page 24)

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01|                                                                                |
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03|                                 STATUS LINES                                   |
04|                                                                                |
 |--------------------------------------------------------------------------------|
05|                                     ALARM                                      |
06|                                     AREA                                       |
07|                              RECEIVER ADAPTATION                  (PG 25 OF 25)|
08|241. LIN CHAN REFL CALIBRATION CHECK MAINT LIMIT                NN.N  DB        |
09|242. LOG CHAN TEST TGT CONSISTENCY DEGRADE LIMIT                NN.N  DB        |
10|243. LIMIT FOR (COMPUTED - TGT) LOG CHAN SYSCAL                 NN.N  DB        |
11|244. LOG CHAN KLYSTR OUT TGT CONSISTENCY DEGR LIM               NN.N  DB        |
12|245. LOG CHAN REFL CALIBRATION CHECK DEGRADE LIMIT              NN.N  DB        |
13|246. LOG CHAN REFL CALIBRATION CHECK MAINT LIMIT                NN.N  DB        |
14|247.  PATH LOSS - 2FL1/2FL2 EMI FILTER                          NNN.NN  DB      |
15|248. PATH LOSS - W900/W901 COAX TO EMI FILTER                   NNN.NN  DB      |
16|                                                                                |
17|                                                                                |
18|                                                                                |
19|                                                                                |
20|(C)HANGE                 (A)DAPTATION EDIT CONTROL MENU       (F)ORWARD PAGE    |
21|                         (M)AIN MENU                          (B)ACK PAGE       |
22|<FEEDBACK LINE>                                                                 |
23|<MESSAGE STATUS LINE>                                                           |
24|COMMAND: __ LINE: ____                                                          |
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Receiver Adaptation Change Menu (Page 25)

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  12345678901234567890123456789012345678901234567890123456789012345678901234567890
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01|                                                                                |
02|                                                                                |
03|                                STATUS LINES                                    |
04|                                                                                |
 |--------------------------------------------------------------------------------|
05|                                    ALARM                                       |
06|                                    AREA                                        |
07|                                SOT ADAPTATION                   (PG  1 OF  2)|
08|  1. BYPASS MAP GENERATION ELEVATION ANGLE 1                   NN.N  DEGREES   |
09|  2. BYPASS MAP GENERATION ELEVATION ANGLE 2                   NN.N  DEGREES   |
10|  3. BYPASS MAP GENERATION ELEVATION ANGLE 3                   NN.N  DEGREES   |
11|  4. BYPASS MAP GENERATION ELEVATION ANGLE 4                   NN.N  DEGREES   |
12|  5. BYPASS MAP GENERATION ELEVATION ANGLE 5                   NN.N  DEGREES   |
13|  6. BYPASS MAP GENERATION ELEVATION ANGLE 6                   NN.N  DEGREES   |
14|  7. BYPASS MAP GENERATION ELEVATION ANGLE 7                   NN.N  DEGREES   |
15|  8. BYPASS MAP GENERATION ELEVATION ANGLE 8                   NN.N  DEGREES   |
16|  9. BYPASS MAP GENERATION ELEVATION ANGLE 9                   NN.N  DEGREES   |
17| 10. BYPASS MAP GENERATION ELEVATION ANGLE 10                  NN.N  DEGREES   |
18|                                                                                |
19|                                                                                |
20|(C)HANGE                 (A)DAPTATION EDIT CONTROL MENU       (F)ORWARD PAGE    |
21|                         (M)AIN MENU                          (B)ACK PAGE       |
22|<FEEDBACK LINE>                                                                 |
23|<MESSAGE STATUS LINE>                                                           |
24|COMMAND: __ LINE: ____                                                          |
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SOT Adaptation Change Menu (Page 1-2)

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01|                                                                                |
02|                                                                                |
03|                                STATUS LINES                                    |
04|                                                                                |
 |--------------------------------------------------------------------------------|
05|                                    ALARM                                       |
06|                                    AREA                                        |
07|                                SOT ADAPTATION                   (PG  2 OF  2)|
08| 11. BYPASS MAP GENERATION ELEVATION ANGLE 11                  NN.N  DEGREES   |
09| 12. BYPASS MAP GENERATION ELEVATION ANGLE 12                  NN.N  DEGREES   |
10| 13. BYPASS MAP GENERATION NOTCH WIDTH                         N.NN  M/SEC     |
11| 14. BYPASS MAP GENERATION NOISE THRESHOLD                     NN.N  DB        |
12| 15. BYPASS MAP GEN REJECTION RATIO THRESHOLD                  NN.N  DB        |
13|                                                                                |
14|                                                                                |
15|                                                                                |
16|                                                                                |
17|                                                                                |
18|                                                                                |
19|                                                                                |
20|(C)HANGE                 (A)DAPTATION EDIT CONTROL MENU       (F)ORWARD PAGE    |
21|                         (M)AIN MENU                          (B)ACK PAGE       |
22|<FEEDBACK LINE>                                                                 |
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24|COMMAND: __ LINE: ____                                                          |
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SOT Adaptation Change Menu (Page 2)

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01|                                                                                |
02|                                                                                |
03|                                STATUS LINES                                    |
04|                                                                                |
 |--------------------------------------------------------------------------------|
05|                                    ALARM                                       |
06|                                    AREA                                        |
07|                                SPS ADAPTATION                    (PG  1 OF 18)|
08|  1. NUMBER OF PSP ARITHMETIC UNITS INSTALLED                     N  UNITS     |
09|  2. NUMBER OF CLUTTER FILTER CHANNELS INSTALLED                  N            |
10|  3. MICROCODE DOWNLOAD MODE (0=ROM,1=RAM)                        N            |
11|  4. (QUIES NOISE) LEVEL FOR CLUTTER DEPENDENT THR          N.NNNENN  POWER     |
12|  5. TWO PULSE CANCELLOR GAIN                                   NN.N  DB        |
13|  6. |K|**2 HYDROMETEOR REFRACTIVITY FACTOR                     N.NN  RATIO     |
14|  7. SYSTEM NOISE TEMP LIMIT PARAMETER MULTIPLIER               NN.N  RATIO     |
15|  8. POINT CLUTTER SUPPRESSION THRESHOLD (TCN)            N.NNNNNENN  RATIO     |
16|  9. RANGE UNFOLDING OVERLAY THRESHOLD (TOVER)                  NN.N  DB        |
17| 10. NUMBER 1/4KM BINS CORRUPTED DATA AT END SWEEP                NN  BINS      |
18|                                                                                |
19|                                                                                |
20|(C)HANGE                 (A)DAPTATION EDIT CONTROL MENU       (F)ORWARD PAGE    |
21|                         (M)AIN MENU                          (B)ACK PAGE       |
22|<FEEDBACK LINE>                                                                 |
23|<MESSAGE STATUS LINE>                                                           |
24|COMMAND: __ LINE: ____                                                          |
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SPS Adaptation Change Menu (Page 1-18)

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01|                                                                                |
02|                                                                                |
03|                                STATUS LINES                                    |
04|                                                                                |
 |--------------------------------------------------------------------------------|
05|                                    ALARM                                       |
06|                                    AREA                                        |
07|                                SPS ADAPTATION                   (PG  2 OF 18)|
08| 11. TWO WAY ATMOSPHERIC LOSS/KM (-1.0 TO -.5 DEG)           NN.NNNN  DB/KM     |
09| 12. TWO WAY ATMOSPHERIC LOSS/KM (-0.5 TO 0.0 DEG)           NN.NNNN  DB/KM     |
10| 13. TWO WAY ATMOSPHERIC LOSS/KM ( 0.0 TO 0.5 DEG)           NN.NNNN  DB/KM     |
11| 14. TWO WAY ATMOSPHERIC LOSS/KM ( 0.5 TO 1.0 DEG)           NN.NNNN  DB/KM     |
12| 15. TWO WAY ATMOSPHERIC LOSS/KM ( 1.0 TO 1.5 DEG)           NN.NNNN  DB/KM     |
13| 16. TWO WAY ATMOSPHERIC LOSS/KM ( 1.5 TO 2.0 DEG)           NN.NNNN  DB/KM     |
14| 17. TWO WAY ATMOSPHERIC LOSS/KM ( 2.0 TO 2.5 DEG)           NN.NNNN  DB/KM     |
15| 18. TWO WAY ATMOSPHERIC LOSS/KM ( 2.5 TO 3.0 DEG)           NN.NNNN  DB/KM     |
16| 19. TWO WAY ATMOSPHERIC LOSS/KM ( 3.0 TO 3.5 DEG)           NN.NNNN  DB/KM     |
17| 20. TWO WAY ATMOSPHERIC LOSS/KM ( 3.5 TO 4.0 DEG)           NN.NNNN  DB/KM     |
18|                                                                                |
19|                                                                                |
20|(C)HANGE                 (A)DAPTATION EDIT CONTROL MENU       (F)ORWARD PAGE    |
21|                         (M)AIN MENU                          (B)ACK PAGE       |
22|<FEEDBACK LINE>                                                                 |
23|<MESSAGE STATUS LINE>                                                           |
24|COMMAND: __ LINE: ____                                                          |
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SPS Adaptation Change Menu (Page 2)

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  12345678901234567890123456789012345678901234567890123456789012345678901234567890
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01|                                                                                |
02|                                                                                |
03|                                STATUS LINES                                    |
04|                                                                                |
 |--------------------------------------------------------------------------------|
05|                                    ALARM                                       |
06|                                    AREA                                        |
07|                                SPS ADAPTATION                   (PG  3 OF 18)|
08| 21. TWO WAY ATMOSPHERIC LOSS/KM ( 4.0 TO 4.5 DEG)           NN.NNNN  DB/KM     |
09| 22. TWO WAY ATMOSPHERIC LOSS/KM ( 4.5 TO 5.0 DEG)           NN.NNNN  DB/KM     |
10| 23. TWO WAY ATMOSPHERIC LOSS/KM (      > 5.0 DEG)           NN.NNNN  DB/KM     |
11| 24. RCVR NOISE NORMALIZATION (-1.0 TO -.5 DEG)                N.NNN  RATIO     |
12| 25. RCVR NOISE NORMALIZATION (-0.5 TO 0.0 DEG)                N.NNN  RATIO     |
13| 26. RCVR NOISE NORMALIZATION ( 0.0 TO 0.5 DEG)                N.NNN  RATIO     |
14| 27. RCVR NOISE NORMALIZATION ( 0.5 TO 1.0 DEG)                N.NNN  RATIO     |
15| 28. RCVR NOISE NORMALIZATION ( 1.0 TO 1.5 DEG)                N.NNN  RATIO     |
16| 29. RCVR NOISE NORMALIZATION ( 1.5 TO 2.0 DEG)                N.NNN  RATIO     |
17| 30. RCVR NOISE NORMALIZATION ( 2.0 TO 2.5 DEG)                N.NNN  RATIO     |
18|                                                                                |
19|                                                                                |
20|(C)HANGE                 (A)DAPTATION EDIT CONTROL MENU       (F)ORWARD PAGE    |
21|                         (M)AIN MENU                          (B)ACK PAGE       |
22|<FEEDBACK LINE>                                                                 |
23|<MESSAGE STATUS LINE>                                                           |
24|COMMAND: __ LINE: ____                                                          |
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SPS Adaptation Change Menu (Page 3)

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           1111111111222222222233333333334444444444555555555566666666667777777778
  12345678901234567890123456789012345678901234567890123456789012345678901234567890
 +--------------------------------------------------------------------------------+
01|                                                                                |
02|                                                                                |
03|                                STATUS LINES                                    |
04|                                                                                |
 |--------------------------------------------------------------------------------|
05|                                    ALARM                                       |
06|                                    AREA                                        |
07|                                SPS ADAPTATION                   (PG  4 OF 18)|
08| 31. RCVR NOISE NORMALIZATION ( 2.5 TO 3.0 DEG)                N.NNN  RATIO     |
09| 32. RCVR NOISE NORMALIZATION ( 3.0 TO 3.5 DEG)                N.NNN  RATIO     |
10| 33. RCVR NOISE NORMALIZATION ( 3.5 TO 4.0 DEG)                N.NNN  RATIO     |
11| 34. RCVR NOISE NORMALIZATION ( 4.0 TO 4.5 DEG)                N.NNN  RATIO     |
12| 35. RCVR NOISE NORMALIZATION ( 4.5 TO 5.0 DEG)                N.NNN  RATIO     |
13| 36. RCVR NOISE NORMALIZATION (      > 5.0 DEG)                N.NNN  RATIO     |
14| 37. DPLR CLTR FLTR NCHWD LOW SUPPR(  <= 4 DEG/S)             N.NNNN  M/SEC     |
15| 38. DPLR CLTR FLTR NCHWD LOW SUPPR(> 4, 6 DEG/S)             N.NNNN  M/SEC     |
16| 39. DPLR CLTR FLTR NCHWD LOW SUPPR(> 6, 8 DEG/S)             N.NNNN  M/SEC     |
17| 40. DPLR CLTR FLTR NCHWD LOW SUPPR(> 8,10 DEG/S)             N.NNNN  M/SEC     |
18|                                                                                |
19|                                                                                |
20|(C)HANGE                 (A)DAPTATION EDIT CONTROL MENU       (F)ORWARD PAGE    |
21|                         (M)AIN MENU                          (B)ACK PAGE       |
22|<FEEDBACK LINE>                                                                 |
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24|COMMAND: __ LINE: ____                                                          |
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SPS Adaptation Change Menu (Page 4)

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   12345678901234567890123456789012345678901234567890123456789012345678901234567890
  +--------------------------------------------------------------------------------+
01|                                                                                |
02|                                                                                |
03|                                STATUS LINES                                    |
04|                                                                                |
  |--------------------------------------------------------------------------------|
05|                                    ALARM                                       |
06|                                    AREA                                        |
07|                                SPS ADAPTATION                   (PG  5 OF 18)|
08| 41. DPLR CLTR FLTR NCHWD LOW SUPPR(>10,12 DEG/S)             N.NNNN  M/SEC     |
09| 42. DPLR CLTR FLTR NCHWD LOW SUPPR(>12,14 DEG/S)             N.NNNN  M/SEC     |
10| 43. DPLR CLTR FLTR NCHWD LOW SUPPR(>14,16 DEG/S)             N.NNNN  M/SEC     |
11| 44. DPLR CLTR FLTR NCHWD LOW SUPPR(>16,18 DEG/S)             N.NNNN  M/SEC     |
12| 45. DPLR CLTR FLTR NCHWD LOW SUPPR(>18,20 DEG/S)             N.NNNN  M/SEC     |
13| 46. DPLR CLTR FLTR NCHWD LOW SUPPR(>20,22 DEG/S)             N.NNNN  M/SEC     |
14| 47. DPLR CLTR FLTR NCHWD LOW SUPPR(>22,24 DEG/S)             N.NNNN  M/SEC     |
15| 48. DPLR CLTR FLTR NCHWD LOW SUPPR(>24,26 DEG/S)             N.NNNN  M/SEC     |
16| 49. DPLR CLTR FLTR NCHWD LOW SUPPR(>26,28 DEG/S)             N.NNNN  M/SEC     |
17| 50. DPLR CLTR FLTR NCHWD LOW SUPPR(>28,30 DEG/S)             N.NNNN  M/SEC     |
18|                                                                                |
19|                                                                                |
20|(C)HANGE                 (A)DAPTATION EDIT CONTROL MENU       (F)ORWARD PAGE    |
21|                         (M)AIN MENU                          (B)ACK PAGE       |
22|<FEEDBACK LINE>                                                                 |
23|<MESSAGE STATUS LINE>                                                           |
24|COMMAND: __ LINE: ____                                                          |
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SPS Adaptation Change Menu (Page 5)

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  12345678901234567890123456789012345678901234567890123456789012345678901234567890
 +--------------------------------------------------------------------------------+
01|                                                                                |
02|                                                                                |
03|                                STATUS LINES                                    |
04|                                                                                |
 |--------------------------------------------------------------------------------|
05|                                    ALARM                                       |
06|                                    AREA                                        |
07|                                SPS ADAPTATION                   (PG  6 OF 18)|
08| 51. DPLR CLTR FLTR NCHWD LOW SUPPR(>30,32 DEG/S)             N.NNNN  M/SEC     |
09| 52. DPLR CLTR FLTR NCHWD LOW SUPPR(>32,34 DEG/S)             N.NNNN  M/SEC     |
10| 53. DPLR CLTR FLTR NCHWD LOW SUPPR(  > 34 DEG/S)             N.NNNN  M/SEC     |
11| 54. DPLR CLTR FLTR NCHWD MED SUPPR(  <= 4 DEG/S)             N.NNNN  M/SEC     |
12| 55. DPLR CLTR FLTR NCHWD MED SUPPR(> 4, 6 DEG/S)             N.NNNN  M/SEC     |
13| 56. DPLR CLTR FLTR NCHWD MED SUPPR(> 6, 8 DEG/S)             N.NNNN  M/SEC     |
14| 57. DPLR CLTR FLTR NCHWD MED SUPPR(> 8,10 DEG/S)             N.NNNN  M/SEC     |
15| 58. DPLR CLTR FLTR NCHWD MED SUPPR(>10,12 DEG/S)             N.NNNN  M/SEC     |
16| 59. DPLR CLTR FLTR NCHWD MED SUPPR(>12,14 DEG/S)             N.NNNN  M/SEC     |
17| 60. DPLR CLTR FLTR NCHWD MED SUPPR(>14,16 DEG/S)             N.NNNN  M/SEC     |
18|                                                                                |
19|                                                                                |
20|(C)HANGE                 (A)DAPTATION EDIT CONTROL MENU       (F)ORWARD PAGE    |
21|                         (M)AIN MENU                          (B)ACK PAGE       |
22|<FEEDBACK LINE>                                                                 |
23|<MESSAGE STATUS LINE>                                                           |
24|COMMAND: __ LINE: ____                                                          |
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SPS Adaptation Change Menu (Page 6)

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01|                                                                                |
02|                                                                                |
03|                                STATUS LINES                                    |
04|                                                                                |
 |--------------------------------------------------------------------------------|
05|                                    ALARM                                       |
06|                                    AREA                                        |
07|                                SPS ADAPTATION                   (PG  7 OF 18)|
08| 61. DPLR CLTR FLTR NCHWD MED SUPPR(>16,18 DEG/S)             N.NNNN  M/SEC     |
09| 62. DPLR CLTR FLTR NCHWD MED SUPPR(>18,20 DEG/S)             N.NNNN  M/SEC     |
10| 63. DPLR CLTR FLTR NCHWD MED SUPPR(>20,22 DEG/S)             N.NNNN  M/SEC     |
11| 64. DPLR CLTR FLTR NCHWD MED SUPPR(>22,24 DEG/S)             N.NNNN  M/SEC     |
12| 65. DPLR CLTR FLTR NCHWD MED SUPPR(>24,26 DEG/S)             N.NNNN  M/SEC     |
13| 66. DPLR CLTR FLTR NCHWD MED SUPPR(>26,28 DEG/S)             N.NNNN  M/SEC     |
14| 67. DPLR CLTR FLTR NCHWD MED SUPPR(>28,30 DEG/S)             N.NNNN  M/SEC     |
15| 68. DPLR CLTR FLTR NCHWD MED SUPPR(>30,32 DEG/S)             N.NNNN  M/SEC     |
16| 69. DPLR CLTR FLTR NCHWD MED SUPPR(>32,34 DEG/S)             N.NNNN  M/SEC     |
17| 70. DPLR CLTR FLTR NCHWD MED SUPPR(  > 34 DEG/S)             N.NNNN  M/SEC     |
18|                                                                                |
19|                                                                                |
20|(C)HANGE                 (A)DAPTATION EDIT CONTROL MENU       (F)ORWARD PAGE    |
21|                         (M)AIN MENU                          (B)ACK PAGE       |
22|<FEEDBACK LINE>                                                                 |
23|<MESSAGE STATUS LINE>                                                           |
24|COMMAND: __ LINE: ____                                                          |
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SPS Adaptation Change Menu (Page 7)

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01|                                                                                |
02|                                                                                |
03|                                STATUS LINES                                    |
04|                                                                                |
 |--------------------------------------------------------------------------------|
05|                                    ALARM                                       |
06|                                    AREA                                        |
07|                                SPS ADAPTATION                   (PG  8 OF 18)|
08| 71. DPLR CLTR FLTR NCHWD HIGH SUPPR(  <= 4 DEG/S)            N.NNNN  M/SEC     |
09| 72. DPLR CLTR FLTR NCHWD HIGH SUPPR(> 4, 6 DEG/S)            N.NNNN  M/SEC     |
10| 73. DPLR CLTR FLTR NCHWD HIGH SUPPR(> 6, 8 DEG/S)            N.NNNN  M/SEC     |
11| 74. DPLR CLTR FLTR NCHWD HIGH SUPPR(> 8,10 DEG/S)            N.NNNN  M/SEC     |
12| 75. DPLR CLTR FLTR NCHWD HIGH SUPPR(>10,12 DEG/S)            N.NNNN  M/SEC     |
13| 76. DPLR CLTR FLTR NCHWD HIGH SUPPR(>12,14 DEG/S)            N.NNNN  M/SEC     |
14| 77. DPLR CLTR FLTR NCHWD HIGH SUPPR(>14,16 DEG/S)            N.NNNN  M/SEC     |
15| 78. DPLR CLTR FLTR NCHWD HIGH SUPPR(>16,18 DEG/S)            N.NNNN  M/SEC     |
16| 79. DPLR CLTR FLTR NCHWD HIGH SUPPR(>18,20 DEG/S)            N.NNNN  M/SEC     |
17| 80. DPLR CLTR FLTR NCHWD HIGH SUPPR(>20,22 DEG/S)            N.NNNN  M/SEC     |
18|                                                                                |
19|                                                                                |
20|(C)HANGE                 (A)DAPTATION EDIT CONTROL MENU       (F)ORWARD PAGE    |
21|                         (M)AIN MENU                          (B)ACK PAGE       |
22|<FEEDBACK LINE>                                                                 |
23|<MESSAGE STATUS LINE>                                                           |
24|COMMAND: __ LINE: ____                                                          |
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SPS Adaptation Change Menu (Page 8)

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01|                                                                                |
02|                                                                                |
03|                                STATUS LINES                                    |
04|                                                                                |
 |--------------------------------------------------------------------------------|
05|                                    ALARM                                       |
06|                                    AREA                                        |
07|                                SPS ADAPTATION                   (PG  9 OF 18)|
08| 81. DPLR CLTR FLTR NCHWD HIGH SUPPR(>22,24 DEG/S)            N.NNNN  M/SEC     |
09| 82. DPLR CLTR FLTR NCHWD HIGH SUPPR(>24,26 DEG/S)            N.NNNN  M/SEC     |
10| 83. DPLR CLTR FLTR NCHWD HIGH SUPPR(>26,28 DEG/S)            N.NNNN  M/SEC     |
11| 84. DPLR CLTR FLTR NCHWD HIGH SUPPR(>28,30 DEG/S)            N.NNNN  M/SEC     |
12| 85. DPLR CLTR FLTR NCHWD HIGH SUPPR(>30,32 DEG/S)            N.NNNN  M/SEC     |
13| 86. DPLR CLTR FLTR NCHWD HIGH SUPPR(>32,34 DEG/S)            N.NNNN  M/SEC     |
14| 87. DPLR CLTR FLTR NCHWD HIGH SUPPR(  > 34 DEG/S)            N.NNNN  M/SEC     |
15| 88. REFL CLTR FLTR NCHWD LOW SUPPR(  <= 4 DEG/S)             N.NNNN  M/SEC     |
16| 89. REFL CLTR FLTR NCHWD LOW SUPPR(> 4, 6 DEG/S)             N.NNNN  M/SEC     |
17| 90. REFL CLTR FLTR NCHWD LOW SUPPR(> 6, 8 DEG/S)             N.NNNN  M/SEC     |
18|                                                                                |
19|                                                                                |
20|(C)HANGE                 (A)DAPTATION EDIT CONTROL MENU       (F)ORWARD PAGE    |
21|                         (M)AIN MENU                          (B)ACK PAGE       |
22|<FEEDBACK LINE>                                                                 |
23|<MESSAGE STATUS LINE>                                                           |
24|COMMAND: __ LINE: ____                                                          |
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SPS Adaptation Change Menu (Page 9)

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01|                                                                                |
02|                                                                                |
03|                                STATUS LINES                                    |
04|                                                                                |
 |--------------------------------------------------------------------------------|
05|                                    ALARM                                       |
06|                                    AREA                                        |
07|                                SPS ADAPTATION                   (PG 10 OF 18)|
08| 91. REFL CLTR FLTR NCHWD LOW SUPPR(> 8,10 DEG/S)             N.NNNN  M/SEC     |
09| 92. REFL CLTR FLTR NCHWD LOW SUPPR(>10,12 DEG/S)             N.NNNN  M/SEC     |
10| 93. REFL CLTR FLTR NCHWD LOW SUPPR(>12,14 DEG/S)             N.NNNN  M/SEC     |
11| 94. REFL CLTR FLTR NCHWD LOW SUPPR(>14,16 DEG/S)             N.NNNN  M/SEC     |
12| 95. REFL CLTR FLTR NCHWD LOW SUPPR(>16,18 DEG/S)             N.NNNN  M/SEC     |
13| 96. REFL CLTR FLTR NCHWD LOW SUPPR(>18,20 DEG/S)             N.NNNN  M/SEC     |
14| 97. REFL CLTR FLTR NCHWD LOW SUPPR(>20,22 DEG/S)             N.NNNN  M/SEC     |
15| 98. REFL CLTR FLTR NCHWD LOW SUPPR(>22,24 DEG/S)             N.NNNN  M/SEC     |
16| 99. REFL CLTR FLTR NCHWD LOW SUPPR(>24,26 DEG/S)             N.NNNN  M/SEC     |
17|100. REFL CLTR FLTR NCHWD LOW SUPPR(>26,28 DEG/S)             N.NNNN  M/SEC     |
18|                                                                                |
19|                                                                                |
20|(C)HANGE                 (A)DAPTATION EDIT CONTROL MENU       (F)ORWARD PAGE    |
21|                         (M)AIN MENU                          (B)ACK PAGE       |
22|<FEEDBACK LINE>                                                                 |
23|<MESSAGE STATUS LINE>                                                           |
24|COMMAND: __ LINE: ____                                                          |
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SPS Adaptation Change Menu (Page 10)

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  12345678901234567890123456789012345678901234567890123456789012345678901234567890
 +--------------------------------------------------------------------------------+
01|                                                                                |
02|                                                                                |
03|                                STATUS LINES                                    |
04|                                                                                |
 |--------------------------------------------------------------------------------|
05|                                    ALARM                                       |
06|                                    AREA                                        |
07|                                SPS ADAPTATION                   (PG 11 OF 18)|
08|101. REFL CLTR FLTR NCHWD LOW SUPPR(>28,30 DEG/S)             N.NNNN  M/SEC     |
09|102. REFL CLTR FLTR NCHWD LOW SUPPR(>30,32 DEG/S)             N.NNNN  M/SEC     |
10|103. REFL CLTR FLTR NCHWD LOW SUPPR(>32,34 DEG/S)             N.NNNN  M/SEC     |
11|104. REFL CLTR FLTR NCHWD LOW SUPPR(  > 34 DEG/S)             N.NNNN  M/SEC     |
12|105. REFL CLTR FLTR NCHWD MED SUPPR(  <= 4 DEG/S)             N.NNNN  M/SEC     |
13|106. REFL CLTR FLTR NCHWD MED SUPPR(> 4, 6 DEG/S)             N.NNNN  M/SEC     |
14|107. REFL CLTR FLTR NCHWD MED SUPPR(> 6, 8 DEG/S)             N.NNNN  M/SEC     |
15|108. REFL CLTR FLTR NCHWD MED SUPPR(> 8,10 DEG/S)             N.NNNN  M/SEC     |
16|109. REFL CLTR FLTR NCHWD MED SUPPR(>10,12 DEG/S)             N.NNNN  M/SEC     |
17|110. REFL CLTR FLTR NCHWD MED SUPPR(>12,14 DEG/S)             N.NNNN  M/SEC     |
18|                                                                                |
19|                                                                                |
20|(C)HANGE                 (A)DAPTATION EDIT CONTROL MENU       (F)ORWARD PAGE    |
21|                         (M)AIN MENU                          (B)ACK PAGE       |
22|<FEEDBACK LINE>                                                                 |
23|<MESSAGE STATUS LINE>                                                           |
24|COMMAND: __ LINE: ____                                                          |
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SPS Adaptation Change Menu (Page 11)

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01|                                                                                |
02|                                                                                |
03|                                STATUS LINES                                    |
04|                                                                                |
 |--------------------------------------------------------------------------------|
05|                                    ALARM                                       |
06|                                    AREA                                        |
07|                                SPS ADAPTATION                   (PG 12 OF 18)|
08|111. REFL CLTR FLTR NCHWD MED SUPPR(>14,16 DEG/S)             N.NNNN  M/SEC     |
09|112. REFL CLTR FLTR NCHWD MED SUPPR(>16,18 DEG/S)             N.NNNN  M/SEC     |
10|113. REFL CLTR FLTR NCHWD MED SUPPR(>18,20 DEG/S)             N.NNNN  M/SEC     |
11|114. REFL CLTR FLTR NCHWD MED SUPPR(>20,22 DEG/S)             N.NNNN  M/SEC     |
12|115. REFL CLTR FLTR NCHWD MED SUPPR(>22,24 DEG/S)             N.NNNN  M/SEC     |
13|116. REFL CLTR FLTR NCHWD MED SUPPR(>24,26 DEG/S)             N.NNNN  M/SEC     |
14|117. REFL CLTR FLTR NCHWD MED SUPPR(>26,28 DEG/S)             N.NNNN  M/SEC     |
15|118. REFL CLTR FLTR NCHWD MED SUPPR(>28,30 DEG/S)             N.NNNN  M/SEC     |
16|119. REFL CLTR FLTR NCHWD MED SUPPR(>30,32 DEG/S)             N.NNNN  M/SEC     |
17|120. REFL CLTR FLTR NCHWD MED SUPPR(>32,34 DEG/S)             N.NNNN  M/SEC     |
18|                                                                                |
19|                                                                                |
20|(C)HANGE                 (A)DAPTATION EDIT CONTROL MENU       (F)ORWARD PAGE    |
21|                         (M)AIN MENU                          (B)ACK PAGE       |
22|<FEEDBACK LINE>                                                                 |
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24|COMMAND: __ LINE: ____                                                          |
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SPS Adaptation Change Menu (Page 12)

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01|                                                                                |
02|                                                                                |
03|                                STATUS LINES                                    |
04|                                                                                |
 |--------------------------------------------------------------------------------|
05|                                    ALARM                                       |
06|                                    AREA                                        |
07|                                SPS ADAPTATION                   (PG 13 OF 18)|
08|121. REFL CLTR FLTR NCHWD MED SUPPR(  > 34 DEG/S)             N.NNNN  M/SEC     |
09|122. REFL CLTR FLTR NCHWD HIGH SUPPR(  <= 4 DEG/S)            N.NNNN  M/SEC     |
10|123. REFL CLTR FLTR NCHWD HIGH SUPPR(> 4, 6 DEG/S)            N.NNNN  M/SEC     |
11|124. REFL CLTR FLTR NCHWD HIGH SUPPR(> 6, 8 DEG/S)            N.NNNN  M/SEC     |
12|125. REFL CLTR FLTR NCHWD HIGH SUPPR(> 8,10 DEG/S)            N.NNNN  M/SEC     |
13|126. REFL CLTR FLTR NCHWD HIGH SUPPR(>10,12 DEG/S)            N.NNNN  M/SEC     |
14|127. REFL CLTR FLTR NCHWD HIGH SUPPR(>12,14 DEG/S)            N.NNNN  M/SEC     |
15|128. REFL CLTR FLTR NCHWD HIGH SUPPR(>14,16 DEG/S)            N.NNNN  M/SEC     |
16|129. REFL CLTR FLTR NCHWD HIGH SUPPR(>16,18 DEG/S)            N.NNNN  M/SEC     |
17|130. REFL CLTR FLTR NCHWD HIGH SUPPR(>18,20 DEG/S)            N.NNNN  M/SEC     |
18|                                                                                |
19|                                                                                |
20|(C)HANGE                 (A)DAPTATION EDIT CONTROL MENU       (F)ORWARD PAGE    |
21|                         (M)AIN MENU                          (B)ACK PAGE       |
22|<FEEDBACK LINE>                                                                 |
23|<MESSAGE STATUS LINE>                                                           |
24|COMMAND: __ LINE: ____                                                          |
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SPS Adaptation Change Menu (Page 13)

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01|                                                                                |
02|                                                                                |
03|                                STATUS LINES                                    |
04|                                                                                |
 |--------------------------------------------------------------------------------|
05|                                    ALARM                                       |
06|                                    AREA                                        |
07|                                SPS ADAPTATION                   (PG 14 OF 18)|
08|131. REFL CLTR FLTR NCHWD HIGH SUPPR(>20,22 DEG/S)            N.NNNN  M/SEC     |
09|132. REFL CLTR FLTR NCHWD HIGH SUPPR(>22,24 DEG/S)            N.NNNN  M/SEC     |
10|133. REFL CLTR FLTR NCHWD HIGH SUPPR(>24,26 DEG/S)            N.NNNN  M/SEC     |
11|134. REFL CLTR FLTR NCHWD HIGH SUPPR(>26,28 DEG/S)            N.NNNN  M/SEC     |
12|135. REFL CLTR FLTR NCHWD HIGH SUPPR(>28,30 DEG/S)            N.NNNN  M/SEC     |
13|136. REFL CLTR FLTR NCHWD HIGH SUPPR(>30,32 DEG/S)            N.NNNN  M/SEC     |
14|137. REFL CLTR FLTR NCHWD HIGH SUPPR(>32,34 DEG/S)            N.NNNN  M/SEC     |
15|138. REFL CLTR FLTR NCHWD HIGH SUPPR(  > 34 DEG/S)            N.NNNN  M/SEC     |
16|139. HIGH/LOW CLUTTER MAP BOUNDARY ELEVATION                     N.N  DEGREES   |
17|140. NCHWD MAP NUMBER OF RANGE ZONES IN EL SEG 1                   N  ZONES     |
18|                                                                                |
19|                                                                                |
20|(C)HANGE                 (A)DAPTATION EDIT CONTROL MENU       (F)ORWARD PAGE    |
21|                         (M)AIN MENU                          (B)ACK PAGE       |
22|<FEEDBACK LINE>                                                                 |
23|<MESSAGE STATUS LINE>                                                           |
24|COMMAND: __ LINE: ____                                                          |
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SPS Adaptation Change Menu (Page 14)

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01|                                                                                |
02|                                                                                |
03|                                STATUS LINES                                    |
04|                                                                                |
 |--------------------------------------------------------------------------------|
05|                                    ALARM                                       |
06|                                    AREA                                        |
07|                                SPS ADAPTATION                    (PG 15 OF 18)|
08|141. SEG1,Z1 OPR SEL CODE (0=BYPFL,1=BYPMAP,2=FFL)                N            |
09|142. NOTCH WIDTH MAP SEG1, ZONE1 STOP RANGE                     NNN  KM        |
10|143. SEG1, Z1 DPLR DATA SUPPR LEVEL (1=L,2=M,3=H)                 N            |
11|144. SEG1, Z1 SURV DATA SUPPR LEVEL (1=L,2=M,3=H)                 N            |
12|145. SEG1,Z2 OPR SEL CODE (0=BYPFL,1=BYPMAP,2=FFL)                N            |
13|146. NOTCH WIDTH MAP SEG1, ZONE2 STOP RANGE                     NNN  KM        |
14|147. SEG1, Z2 DPLR DATA SUPPR LEVEL (1=L,2=M,3=H)                 N            |
15|148. SEG1, Z2 SURV DATA SUPPR LEVEL (1=L,2=M,3=H)                 N            |
16|149. SEG1,Z3 OPR SEL CODE (0=BYPFL,1=BYPMAP,2=FFL)                N            |
17|150. NOTCH WIDTH MAP SEG1, ZONE3 STOP RANGE                     NNN  KM        |
18|                                                                                |
19|                                                                                |
20|(C)HANGE                 (A)DAPTATION EDIT CONTROL MENU       (F)ORWARD PAGE    |
21|                         (M)AIN MENU                          (B)ACK PAGE       |
22|<FEEDBACK LINE>                                                                 |
23|<MESSAGE STATUS LINE>                                                           |
24|COMMAND: __ LINE: ____                                                          |
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SPS Adaptation Change Menu (Page 15)

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  12345678901234567890123456789012345678901234567890123456789012345678901234567890
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01|                                                                                |
02|                                                                                |
03|                                STATUS LINES                                    |
04|                                                                                |
 |--------------------------------------------------------------------------------|
05|                                    ALARM                                       |
06|                                    AREA                                        |
07|                                SPS ADAPTATION                    (PG 16 OF 18)|
08|151. SEG1, Z3 DPLR DATA SUPPR LEVEL (1=L,2=M,3=H)                  N            |
09|152. SEG1, Z3 SURV DATA SUPPR LEVEL (1=L,2=M,3=H)                  N            |
10|153. NCHWD MAP NUMBER OF RANGE ZONES IN EL SEG 2                   N  ZONES     |
11|154. SEG2,Z1 OPR SEL CODE (0=BYPFL,1=BYPMAP,2=FFL)                 N            |
12|155. NOTCH WIDTH MAP SEG2, ZONE1 STOP RANGE                      NNN  KM        |
13|156. SEG2, Z1 DPLR DATA SUPPR LEVEL (1=L,2=M,3=H)                  N            |
14|157. SEG2, Z1 SURV DATA SUPPR LEVEL (1=L,2=M,3=H)                  N            |
15|158. SEG2,Z2 OPR SEL CODE (0=BYPFL,1=BYPMAP,2=FFL)                 N            |
16|159. NOTCH WIDTH MAP SEG2, ZONE2 STOP RANGE                      NNN  KM        |
17|160. SEG2, Z2 DPLR DATA SUPPR LEVEL (1=L,2=M,3=H)                  N            |
18|                                                                                |
19|                                                                                |
20|(C)HANGE                 (A)DAPTATION EDIT CONTROL MENU       (F)ORWARD PAGE    |
21|                         (M)AIN MENU                          (B)ACK PAGE       |
22|<FEEDBACK LINE>                                                                 |
23|<MESSAGE STATUS LINE>                                                           |
24|COMMAND: __ LINE: ____                                                          |
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SPS Adaptation Change Menu (Page 16)

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 +--------------------------------------------------------------------------------+
01|                                                                                |
02|                                                                                |
03|                                STATUS LINES                                    |
04|                                                                                |
 |--------------------------------------------------------------------------------|
05|                                    ALARM                                       |
06|                                    AREA                                        |
07|                                SPS ADAPTATION                   (PG 17 OF 18)|
08|161. SEG2, Z2 SURV DATA SUPPR LEVEL(1=L,2=M,3=H)                  N            |
09|162. SEG2,Z3 OPR SEL CODE (0=BYPFL,1=BYPMAP,2=FFL)                N            |
10|163. NOTCH WIDTH MAP SEG2, ZONE3 STOP RANGE                     NNN  KM        |
11|164. SEG2, Z3 DPLR DATA SUPPR LEVEL(1=L,2=M,3=H)                  N            |
12|165. SEG2, Z3 SURV DATA SUPPR LEVEL(1=L,2=M,3=H)                  N            |
13|166. SIGNAL PROCESSOR 5 V POWER SUPPLY TOLERANCE               NN.N  PERCENT   |
14|167. LINEAR CHANNEL CLUTTER SUPPR DEGRADE LIMIT                NN.N  DB        |
15|168. LINEAR CHANNEL CLUTTER SUPPR MAINT LIMIT                  NN.N  DB        |
16|169. LOG CHANNEL CLUTTER SUPPR DEGRADE LIMIT                   NN.N  DB        |
17|170. LOG CHANNEL CLUTTER SUPPR MAINTENANCE LIMIT               NN.N  DB        |
18|                                                                                |
19|                                                                                |
20|(C)HANGE                 (A)DAPTATION EDIT CONTROL MENU       (F)ORWARD PAGE    |
21|                         (M)AIN MENU                          (B)ACK PAGE       |
22|<FEEDBACK LINE>                                                                 |
23|<MESSAGE STATUS LINE>                                                           |
24|COMMAND: __ LINE: ____                                                          |
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SPS Adaptation Change Menu (Page 17)

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01|                                                                                |
02|                                                                                |
03|                                STATUS LINES                                    |
04|                                                                                |
 |--------------------------------------------------------------------------------|
05|                                    ALARM                                       |
06|                                    AREA                                        |
07|                                SPS ADAPTATION                    (PG 18 OF 18)|
08|171. VELOCITY CHECK DELTA DEGRADE LIMIT                          N.N  M/SEC    |
09|172. VELOCITY CHECK DELTA MAINTENANCE LIMIT                      N.N  M/SEC    |
10|173. SPECTRUM WIDTH CHECK DELTA DEGRADE LIMIT                    N.N  M/SEC    |
11|174. SPECTRUM WIDTH CHECK DELTA MAINTENANCE LIMIT                N.N  M/SEC    |
12|175. NC KILL BATCH VALUE                                         NN   CELLS    |
13|176. NC KILL DOPPLER W/AMBIGUITY VALUE                           NN   CELLS    |
14|                                                                                |
15|                                                                                |
16|                                                                                |
17|                                                                                |
18|                                                                                |
19|                                                                                |
20|(C)HANGE                 (A)DAPTATION EDIT CONTROL MENU       (F)ORWARD PAGE   |
21|                         (M)AIN MENU                          (B)ACK PAGE      |
22|<FEEDBACK LINE>                                                                 |
23|<MESSAGE STATUS LINE>                                                           |
24|COMMAND: __ LINE: ____                                                          |
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SPS Adaptation Change Menu (Page 18)

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01|                                                                                |
02|                                                                                |
03|                                STATUS LINES                                    |
04|                                                                                |
 |--------------------------------------------------------------------------------|
05|                                    ALARM                                       |
06|                                    AREA                                        |
07|                                TOWER ADAPTATION                  (PG  1 OF  5)|
08|  1. ARCHIVE II DRIVE INSTALLED                                   L            |
09|  2. ARCHIVE II PLAYBACK ENABLED                                  L            |
10|  3. ARCHIVE II CAPACITY LOW WARNING THRESHOLD                    N  VOL SCANS |
11|  4. REDUN CHAN CONFIG (1=SGL CHAN, 2=FAA, 3=NWS)                 N            |
12|  5. CONFIGURATION CHANNEL NUMBER                                 N            |
13|  6. RPG COLOCATED                                                L            |
14|  7. REQUIRED TIME INTERVAL FOR STABLE UTIL POWER                NN  MINUTES   |
15|  8. RECOMMEND SWITCH TO UTIL POWER TIME INTERVAL                NN  MINUTES   |
16|  9. MAINT CONSOLE 5 V POWER SUPPLY TOLERANCE                  NN.N  PERCENT   |
17| 10. MAINT CONSOLE +/-15 V POWER SUPPLY TOLERANCE              NN.N  PERCENT   |
18|                                                                                |
19|                                                                                |
20|(C)HANGE                 (A)DAPTATION EDIT CONTROL MENU       (F)ORWARD PAGE    |
21|                         (M)AIN MENU                          (B)ACK PAGE       |
22|<FEEDBACK LINE>                                                                 |
23|<MESSAGE STATUS LINE>                                                           |
24|COMMAND: __ LINE: ____                                                          |
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Tower Adaptation Change Menu (Page 1)

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  12345678901234567890123456789012345678901234567890123456789012345678901234567890
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01|                                                                                |
02|                                                                                |
03|                                STATUS LINES                                    |
04|                                                                                |
 |--------------------------------------------------------------------------------|
05|                                    ALARM                                       |
06|                                    AREA                                        |
07|                               TOWER ADAPTATION                   (PG  2 OF  5)|
08| 11. MAINT CONSOLE 28 V POWER SUPPLY TOLERANCE                  NN.N  PERCENT   |
09| 12. SITE LATITUDE - DIRECTION                                     C            |
10| 13. SITE LATITUDE - DEGREES                                      NN  DEGREES   |
11| 14. SITE LATITUDE - MINUTES                                      NN  MINUTES   |
12| 15. SITE LATITUDE - SECONDS                                  NN.NNNN  SECONDS   |
13| 16. SITE LONGITUDE - DIRECTION                                    C            |
14| 17. SITE LONGITUDE - DEGREES                                    NNN  DEGREES   |
15| 18. SITE LONGITUDE - MINUTES                                     NN  MINUTES   |
16| 19. SITE LONGITUDE - SECONDS                                 NN.NNNN  SECONDS   |
17| 20. MAX GENERATOR AUTOMATIC EXERCISE INTERVAL                   NNN  HOURS     |
18|                                                                                |
19|                                                                                |
20|(C)HANGE                 (A)DAPTATION EDIT CONTROL MENU       (F)ORWARD PAGE    |
21|                         (M)AIN MENU                          (B)ACK PAGE       |
22|<FEEDBACK LINE>                                                                 |
23|<MESSAGE STATUS LINE>                                                           |
24|COMMAND: __ LINE: ____                                                          |
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Tower Adaptation Change Menu (Page 2)

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01|                                                                                |
02|                                                                                |
03|                                STATUS LINES                                    |
04|                                                                                |
 |--------------------------------------------------------------------------------|
05|                                    ALARM                                       |
06|                                    AREA                                        |
07|                                TOWER ADAPTATION                  (PG  3 OF  5)|
08| 21. LOW FUEL TANK WARNING LEVEL                                  NNN  % CAPACITY|
09| 22. FUEL LVL HEIGHT/CAPACITY CONVERSION( 0% HGT)               NNN.N  % CAPACITY|
10| 23. FUEL LVL HEIGHT/CAPACITY CONVERSION(10% HGT)               NNN.N  % CAPACITY|
11| 24. FUEL LVL HEIGHT/CAPACITY CONVERSION(20% HGT)               NNN.N  % CAPACITY|
12| 25. FUEL LVL HEIGHT/CAPACITY CONVERSION(30% HGT)               NNN.N  % CAPACITY|
13| 26. FUEL LVL HEIGHT/CAPACITY CONVERSION(40% HGT)               NNN.N  % CAPACITY|
14| 27. FUEL LVL HEIGHT/CAPACITY CONVERSION(50% HGT)               NNN.N  % CAPACITY|
15| 28. FUEL LVL HEIGHT/CAPACITY CONVERSION(60% HGT)               NNN.N  % CAPACITY|
16| 29. FUEL LVL HEIGHT/CAPACITY CONVERSION(70% HGT)               NNN.N  % CAPACITY|
17| 30. FUEL LVL HEIGHT/CAPACITY CONVERSION(80% HGT)               NNN.N  % CAPACITY|
18|                                                                                |
19|                                                                                |
20|(C)HANGE                 (A)DAPTATION EDIT CONTROL MENU       (F)ORWARD PAGE    |
21|                         (M)AIN MENU                          (B)ACK PAGE       |
22|<FEEDBACK LINE>                                                                 |
23|<MESSAGE STATUS LINE>                                                           |
24|COMMAND: __ LINE: ____                                                          |
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Tower Adaptation Change Menu (Page 3)

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01|                                                                                |
02|                                                                                |
03|                                STATUS LINES                                    |
04|                                                                                |
 |--------------------------------------------------------------------------------|
05|                                    ALARM                                       |
06|                                    AREA                                        |
07|                               TOWER ADAPTATION                   (PG  4 OF  5)|
08| 31. FUEL LVL HEIGHT/CAPACITY CONVERSION(90% HGT)              NNN.N  % CAPACITY|
09| 32. FUEL LVL HEIGHT/CAPACITY CONVERSION(100% HGT)             NNN.N  % CAPACITY|
10| 33. MINIMUM GENERATOR SHELTER ALARM TEMPERATURE                NN.N  DEG C     |
11| 34. MAXIMUM GENERATOR SHELTER ALARM TEMPERATURE                NN.N  DEG C     |
12| 35. MINIMUM EQUIPMENT SHELTER ALARM TEMPERATURE                NN.N  DEG C     |
13| 36. MAXIMUM EQUIPMENT SHELTER ALARM TEMPERATURE                NN.N  DEG C     |
14| 37. MINIMUM AIR COND DISCHARGE AIR TEMP DIFF                   NN.N  DEG C     |
15| 38. MAXIMUM XMTR LEAVING AIR ALARM TEMPERATURE                 NN.N  DEG C     |
16| 39. MAXIMUM RADOME ALARM TEMPERATURE                           NN.N  DEG C     |
17| 40. MAXIMUM RADOME MINUS AMBIENT TEMPERATURE DIFF              NN.N  DEG C     |
18|                                                                                |
19|                                                                                |
20|(C)HANGE                 (A)DAPTATION EDIT CONTROL MENU       (F)ORWARD PAGE    |
21|                         (M)AIN MENU                          (B)ACK PAGE       |
22|<FEEDBACK LINE>                                                                 |
23|<MESSAGE STATUS LINE>                                                           |
24|COMMAND: __ LINE: ____                                                          |
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Tower Adaptation Change Menu (Page 4)

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01|                                                                                |
02|                                                                                |
03|                                 STATUS LINES                                   |
04|                                                                                |
 |--------------------------------------------------------------------------------|
05|                                     ALARM                                      |
06|                                     AREA                                       |
07|                              TRANSMITTER ADAPTATION                (PG  1 OF  4)|
08|  41. TRANSMISSION POWER SOURCE INSTALLED                           L           |
09|                                                                                |
10|                                                                                |
11|                                                                                |
12|                                                                                |
13|                                                                                |
14|                                                                                |
15|                                                                                |
16|                                                                                |
17|                                                                                |
18|                                                                                |
19|                                                                                |
20|(C)HANGE                 (A)DAPTATION EDIT CONTROL MENU       (F)ORWARD PAGE    |
21|                         (M)AIN MENU                          (B)ACK PAGE       |
22|<FEEDBACK LINE>                                                                 |
23|<MESSAGE STATUS LINE>                                                           |
24|COMMAND: __ LINE: ____                                                          |
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Transmitter Adaptation Change Menu (Page 1)

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  12345678901234567890123456789012345678901234567890123456789012345678901234567890
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01|                                                                                |
02|                                                                                |
03|                                 STATUS LINES                                   |
04|                                                                                |
 |--------------------------------------------------------------------------------|
05|                                     ALARM                                      |
06|                                     AREA                                       |
07|                             TRANSMITTER ADAPTATION                (PG  2 OF  4)|
08| 11. TOLERANCE FOR CHECKING XMTR/ANT POWER RATIO                 N.N  DB        |
09| 12. RF POWER MEASUREMENT SMOOTHING COEFFICIENT                 N.NN  RATIO     |
10| 13. MINIMUM TRANSMITTER PEAK POWER ALARM LEVEL                 NNN.  KW        |
11| 14. MAXIMUM TRANSMITTER PEAK POWER ALARM LEVEL                 NNN.  KW        |
12| 15. MINIMUM ANTENNA PEAK POWER ALARM LEVEL                     NNN.  KW        |
13| 16. MAXIMUM ANTENNA PEAK POWER ALARM LEVEL                     NNN.  KW        |
14| 17. PATH LOSS - A6 ARC DETECTOR                              NNN.NN  DB        |
15| 18. PATH LOSS - WG02 HARMONIC FILTER                         NNN.NN  DB        |
16| 19. PATH LOSS - WG04 CIRCULATOR                              NNN.NN  DB        |
17| 20. PATH LOSS - WG06 SPECTRUM FILTER                         NNN.NN  DB        |
18|                                                                                |
19|                                                                                |
20|(C)HANGE                 (A)DAPTATION EDIT CONTROL MENU       (F)ORWARD PAGE    |
21|                         (M)AIN MENU                          (B)ACK PAGE       |
22|<FEEDBACK LINE>                                                                 |
23|<MESSAGE STATUS LINE>                                                           |
24|COMMAND: __ LINE: ____                                                          |
 +--------------------------------------------------------------------------------+
```

Transmitter Adaptation Change Menu (Page 2)

```
          1111111111222222222233333333334444444444555555555566666666667777777778
  12345678901234567890123456789012345678901234567890123456789012345678901234567890
 +--------------------------------------------------------------------------------+
01|                                                                                |
02|                                                                                |
03|                                 STATUS LINES                                   |
04|                                                                                |
 |--------------------------------------------------------------------------------|
05|                                     ALARM                                      |
06|                                     AREA                                       |
07|                              TRANSMITTER ADAPTATION                (PG  3 OF  4)|
08| 21. PATH LOSS - WAVEGUIDE KLYSTRON TO SWITCH                 NNN.NN  DB        |
09| 22. PATH LOSS - 1DC1 XMTR COUPLER STRAIGHT THRU              NNN.NN  DB        |
10| 23. PATH LOSS - 1DC1 XMTR COUPLER COUPLING                   NNN.NN  DB        |
11| 24. PATH LOSS - WAVEGUIDE SWITCH                             NNN.NN  DB        |
12| 25. PATH LOSS - WG SWITCH TO AZ ROTARY JOINT                 NNN.NN  DB        |
13| 26. PATH LOSS - 2A1A4 WG CHANNEL AZ ROTARY JOINT             NNN.NN  DB        |
14| 27. PATH LOSS - WAVEGUIDE AZ JOINT TO EL JOINT               NNN.NN  DB        |
15| 28. PATH LOSS - A5 ELEVATION ROTARY JOINT                    NNN.NN  DB        |
16| 29. PATH LOSS - 2DC1 ANT COUPLER STRAIGHT THRU               NNN.NN  DB        |
17| 30. PATH LOSS - 2DC1 ANT COUPLER COUPLING                    NNN.NN  DB        |
18|                                                                                |
19|                                                                                |
20|(C)HANGE                 (A)DAPTATION EDIT CONTROL MENU       (F)ORWARD PAGE    |
21|                         (M)AIN MENU                          (B)ACK PAGE       |
22|<FEEDBACK LINE>                                                                 |
23|<MESSAGE STATUS LINE>                                                           |
24|COMMAND: __ LINE: ____                                                          |
 +--------------------------------------------------------------------------------+
```

Transmitter Adaptation Change Menu (Page 3)

```
           1111111111222222222233333333334444444444555555555566666666667777777778
  12345678901234567890123456789012345678901234567890123456789012345678901234567890
 +--------------------------------------------------------------------------------+
01|                                                                                |
02|                                                                                |
03|                                 STATUS LINES                                   |
04|                                                                                |
 |--------------------------------------------------------------------------------|
05|                                     ALARM                                      |
06|                                     AREA                                       |
07|                              TRANSMITTER ADAPTATION                (PG  4 OF  4)|
08| 31. PATH LOSS - WAVEGUIDE COUPLER TO ANTENNA                 NNN.NN  DB        |
09| 32. PATH LOSS - 1AT4 TRANSMITTER COUPLER PAD                 NNN.NN  DB        |
10| 33. PATH LOSS - 2AT1 ANTENNA COUPLER PAD                     NNN.NN  DB        |
11| 34. PATH LOSS - T/R CIRCULATOR - PORT 2 TO PORT 3            NNN.NN  DB         |
12|                                                                                |
13|                                                                                |
14|                                                                                |
15|                                                                                |
16|                                                                                |
17|                                                                                |
18|                                                                                |
19|                                                                                |
20|(C)HANGE                 (A)DAPTATION EDIT CONTROL MENU       (F)ORWARD PAGE    |
21|                         (M)AIN MENU                          (B)ACK PAGE       |
22|<FEEDBACK LINE>                                                                 |
23|<MESSAGE STATUS LINE>                                                           |
24|COMMAND: __ LINE: ____                                                          |
 +--------------------------------------------------------------------------------+
```

Transmitter Adaptation Change Menu (Page 4)

```
          1111111111222222222233333333334444444444555555555566666666667777777778
  12345678901234567890123456789012345678901234567890123456789012345678901234567890
 +--------------------------------------------------------------------------------+
01|                                                                                |
02|                                                                                |
03|                                 STATUS LINES                                   |
04|                                                                                |
 |--------------------------------------------------------------------------------|
05|                                     ALARM                                      |
06|                                     AREA                                       |
07|                               WIDEBAND ADAPTATION                  (PG  1 OF  1)|
08|  1. RPG WB LINK TYPE(0=DIR,1=MWAVE,2=FBR OPT)                      N           |
09|  2. RPG LOOP TEST INTERVAL                                        NN  MINUTES   |
10|  3. USER WIDEBAND LINK INSTALLED                                   L           |
11|  4. USER WB LINK TYPE(0=DIR,1=MWAVE,2=FBR OPT)                     N           |
12|  5. USER LOOP TEST SUPPORTED                                       L           |
13|  6. USER CONSOLE MESSAGE SUPPORTED                                 L           |
14|  7. ARCHIVE II JUKEBOX INSTALLED                                   L           |
15|  8. FAA RMS INSTALLED                                              L           |
16|                                                                                |
17|                                                                                |
18|                                                                                |
19|                                                                                |
20|(C)HANGE                 (A)DAPTATION EDIT CONTROL MENU       (F)ORWARD PAGE    |
21|                         (M)AIN MENU                          (B)ACK PAGE       |
22|<FEEDBACK LINE>                                                                 |
23|<MESSAGE STATUS LINE>                                                           |
24|COMMAND: __ LINE: ____                                                          |
 +--------------------------------------------------------------------------------+
```

Wideband Adaptation Change Menu

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APPENDIX B

PARAMETER DEFAULTS

ARCH	E (when not enabled),D (when enabled), and 00 meaning archive until disable entered.
DILD	Most recent log entry, or blanks if none previously entered.
DIPD	TOW
ENDT	A
ICRA	Allows inspect only of adaptation data.
OVAC	0.0
OVRI	D
SELM	O
SELP	21

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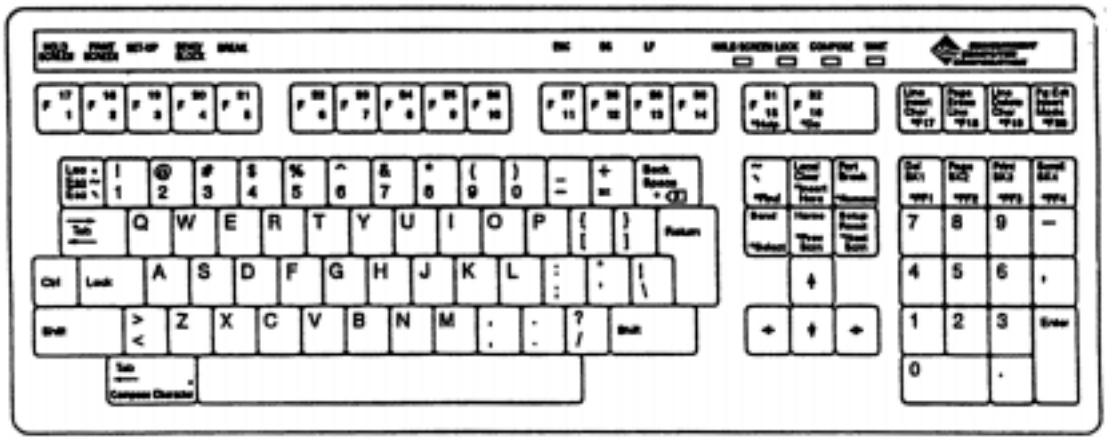
APPENDIX C

ALPHANUMERIC KEYBOARD



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APPENDIX D

VALID RDASC COMMANDS

		EITHER CONTROL	LOCAL CONTROL	REMOTE CONTROL
ARCH	Archive II	X	X	
CONC	Controlling Channel	X	X	
DILD	Display Log Data	X	X	X
DIPD	Display Performance Data	X	X	X
DISI	Disable ISU	X	X	
DISM	Display Message	X	X	X
ENAC	Enable Auto Calibration	X	X	
ENAI	Enable ISU	X	X	
ENDT	Enable Data Transmission	X	X	
ENLD	Enter Log Data	X	X	X
ENRC	Enable Remote Control		X	
HELP	Help Menu	X	X	X
ICRA	Inspect/Change RDA Adapt Data	X	X	X
MAIN	Main Menu	X	X	X
NONC	Non-Controlling Channel	X	X	
OLOP	Off-line Operate	X	X	
OPER	Operate	X	X	
OVAC	Override Auto Calibration	X	X	
OVRI	Override Radiate Inhibit		X	
PAGB	Page Backward	X	X	X
PAGF	Page Forward	X	X	X
PLAY	Playback	X	X	
RELC	Request Local Control	X		X
REST	Restart	X	X	
STBY	Standby	X	X	
SELM	Select Mode	X	X	
SELP	Select Pattern	X	X	
SENM	Send Message	X	X	X
STAP	Switch to Auxiliary Power	X	X	
STUP	Switch to Utility Power	X	X	
TERP	Terminate Program	X	X	
WLDT	Write Log Data to Tape	X	X	X

Local Control signifies commands will be accepted from the RDA maintenance console. This control state is effective in the Standby, Offline Operate, Operate and Playback operational states.

Remote Control signifies commands will be accepted when the RPG is in control. This control state is effective in the Operate and Playback operational states.

Either Control signifies commands will be accepted from either the RDA maintenance console or from the RPG. This control state is effective in the Standby and Offline Operate operational states.

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APPENDIX E

PARAMETER VALUES

ARCH	D/E, 00-99 (00 means run until disabled)
CONC	Password
DILD	MM/DD/YY MM/DD/YY (from date, to date)
DIPD	ANT, REC, TOW, WID, XMT, CAL, CHK, DFS, DVC, ARC, SWI
ENDT	A,N any combination (R, V, W)
ICRA	Blank, low level password, high level password
NONC	Password
OVAC	-10.0 to 10.0
OVRI	D, E
SELM	M, O
SELP	11, 21, 31, 32, 300
TERP	Password

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APPENDIX F

FIELD IDENTITIES FOR PERFORMANCE/MAINTENANCE DISPLAY MENUS

AAAA	=	OK/INOP
AAAAA	=	OK/FAIL/MAINT/RECYC
BBBB	=	OK/OVER
BBBBB	=	DIRTY/OK
CCCCC	=	OK/MAINT
DDD	=	ON/OFF
DDDDDD	=	NORM/PRHEAT (normal/preheat)
DDDDDDDD	=	DISABLED/OK
EEEEEE	=	ANT/DUM LD (antenna/dummy load)
FFFFF	=	SHORT/LONG
GGGG	=	OK/OPEN
GGGGGGG	=	OK/OVR TMP
H's	=	Hex value
HH:MM:SS	=	Hours:Minutes:Seconds
h's	=	Hex value
IIII	=	NO/REQD
JJJJ	=	FAIL/OK
KKKK	=	OK/FIRE
LLLL	=	MAN/AUTO
MM:DD:YY	=	Month:Day:Year
MMMM	=	UTIL/GEN
N's	=	Numeric value (Integer and Real)
OOO	=	OK/LOW
OOOOOOOOO	=	NOT AVAIL/AVAIL
PPP	=	NO/YES
PPPPPP	=	OPEN/CLOSED
QQQQQ	=	ALARM/OK
RRRRRR	=	OPER/ENGAGE
SSSSSS	=	OK/IN LIM
TTT	=	LOW/OK
TTTT	=	OK/OVER
UUUU	=	OPER/SAFE
VVVV	=	NO/OK/FAIL
WWWWW	=	OK/ERROR
WWWWWWWW	=	OK/OVRVOLT/UNDRVOLT
XXX	=	YES/NO
XXXX	=	OK/FAIL
XXXXXXX	=	PASS/FAIL/TIMEOUT
YYYY	=	OK/REQD
YYYYYYY	=	OK/INHIBIT/SHT CKT/OVR TMP
ZZZ	=	NA/NO/YES
ZZZZZZZ	=	OK/SHUTOFF

NOTE: ASTERISKS (*) DISPLAYED IN THE DATA FIELDS INDICATE DATA VALUES OUT OF RANGE.

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APPENDIX G

UNITS FOR PERFORMANCE/MAINTENANCE DISPLAY MENUS

DB	=	Decibels
DBZ	=	Decibels - reflectivity
DEG	=	Degrees
DEGC	=	Degrees Celcius
K	=	Degrees Kelvin
KW	=	Kilowatts
M/S	=	Meters/Second
V	=	Volts
W	=	Watts
%	=	Percentage

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APPENDIX H

ALARM MESSAGES

ALARM CODE	ALARM MESSAGE
0	NO ALARMS - BUILD 10.0
20	RGP LINK - GENERAL ERROR
21	RPG LINK - SVC 15 ERROR
22	RPG LINK - MAJOR XMTR ALARM
23	RPG LINK - MAJOR RCVR ALARM
24	RPG LINK - MINOR ALARM
25	RPG LINK - FUSE ALARM
26	RPG LINK - MAJOR ALARM
27	RPG LINK - REMOTE ALARM
30	USER LINK - GENERAL ERROR
31	USER LINK - SVC 15 ERROR
32	USER LINK - MAJOR XMTR ALARM
33	USER LINK - MAJOR RCVR ALARM
34	USER LINK - MINOR ALARM
35	USER LINK - FUSE ALARM
36	USER LINK - MAJOR ALARM
37	USER LINK - REMOTE ALARM
40	FILAMENT POWER SUPPLY OFF
43	WAVEGUIDE SWITCH FAILURE
44	WAVEGUIDE/PFW TRANSFER INTERLOCK
45	XMTR IN MAINTENANCE MODE
47	PFW/PW SWITCH FAILURE
48	XMTR +5VDC POWER SUPPLY 6 FAIL
49	XMTR +15VDC POWER SUPPLY 4 FAIL
50	XMTR +28VDC POWER SUPPLY 3 FAIL
51	XMTR -15VDC POWER SUPPLY 5 FAIL
52	XMTR +45VDC POWER SUPPLY 7 FAIL
53	FILAMENT POWER SUPPLY VOLTAGE FAIL
54	VACUUM PUMP POWER SUPPLY VOLTAGE FAIL
55	FOCUS COIL POWER SUPPLY VOLTAGE FAIL
56	CIRCULATOR OVERTEMP
57	SPECTRUM FILTER LOW PRESSURE
58	WAVEGUIDE ARC/VSWR
59	TRANSMITTER CABINET INTERLOCK OPEN
60	TRANSMITTER CABINET OVERTEMP
61	TRANSMITTER CABINET AIR FLOW FAIL
64	MODULATOR OVERLOAD
65	MODULATOR INVERSE CURRENT FAIL
66	MODULATOR SWITCH FAILURE
67	TRANSMITTER MAIN POWER OVERVOLTAGE
68	FLYBACK CHARGER FAILURE
69	INVERSE DIODE CURRENT UNDERVOLTAGE
70	TRIGGER AMPLIFIER FAILURE
72	TRANSMITTER OVERVOLTAGE
73	TRANSMITTER OVERCURRENT

ALARM CODE	ALARM MESSAGE
74	FOCUS COIL CURRENT FAILURE
75	FOCUS COIL AIRFLOW FAILURE
76	TRANSMITTER OIL OVERTEMP
77	PRF LIMIT
78	TRANSMITTER OIL LEVEL LOW
80	KLYSTRON OVERCURRENT
81	KLYSTRON FILAMENT CURRENT FAIL
82	KLYSTRON VACION CURRENT FAIL
83	KLYSTRON AIR OVERTEMP
84	KLYSTRON AIR FLOW FAILURE
93	XMTR MODULATOR SWITCH REQUIRES MAINT
94	XMTR POST CHARGE REG REQUIRES MAINT
95	WAVEGUIDE HUMIDITY/PRESSURE FAULT
96	TRANSMITTER HV SWITCH FAILURE
97	TRANSMITTER RECYCLING
98	TRANSMITTER INOPERATIVE
99	COHO/CLOCK FAILURE
100	DAU UART FAILURE
110	XMTR/DAU INTERFACE FAILURE
120	AC UNIT #1 COMPRESSOR SHUTOFF
121	AC UNIT #2 COMPRESSOR SHUTOFF
122	GENERATOR MAINTENANCE REQUIRED
124	GEN STARTING BATTERY VOLTAGE LOW
125	GENERATOR ENGINE MALFUNCTION
126	TPS IS OFF
128	POWER TRANSFER NOT ON AUTO
129	GENERATOR EXERCISE FAILURE
130	AIRCRAFT HAZARD LIGHTING FAILURE
131	EQUIP SHELTER HALON/DETECT SYS FAULT
132	RCVR +5V POWER SUPPLY 5 FAIL
133	FIRE/SMOKE IN EQUIP SHELTER
134	RCVR +/-18V POWER SUPPLY 1 FAIL
135	RCVR -9V POWER SUPPLY 4 FAIL
136	FIRE/SMOKE IN GENERATOR SHELTER
137	GEN SHELTER HALON/DETECTION SYS FAULT
139	RCVR +9V POWER SUPPLY 6 FAIL
140	A/D +/-15V POWER SUPPLY 8 FAIL
141	A/D +5V POWER SUPPLY 2 FAIL
143	A/D -5.2V POWER SUPPLY 7 FAIL
144	UNAUTHORIZED SITE ENTRY
145	SECURITY SYSTEM EQUIPMENT FAILURE
146	SECURITY SYSTEM DISABLED
147	RCVR PROT +5V POWER SUPPLY 9 FAIL
150	RDA CHANNEL CONTROL FAILURE
151	RADOME ACCESS HATCH OPEN
152	AC UNIT #1 FILTER DIRTY
153	AC UNIT #2 FILTER DIRTY
154	TRANSMITTER FILTER DIRTY
171	EQUIPMENT SHELTER TEMP EXTREME
172	AC UNIT #1 DISCHARGE TEMP EXTREME
173	TRANSMITTER LEAVING AIR TEMP EXTREME

ALARM CODE	ALARM MESSAGE
174	RADOME AIR TEMP EXTREME
175	GENERATOR SHELTER TEMP EXTREME
176	GENERATOR FUEL STORAGE TANK LEVEL LOW
184	AC UNIT #2 DISCHARGE TEMP EXTREME
200	TRANSMITTER PEAK POWER LOW
201	TRANSMITTER PEAK POWER HIGH
204	ANTENNA PEAK POWER LOW
205	ANTENNA PEAK POWER HIGH
206	XMTR POWER METER ZERO OUT OF LIMIT
207	ANTENNA POWER METER ZERO OUT OF LIMIT
208	XMTR/ANT PWR RATIO DEGRADED
209	TRANSMITTER POWER BITE FAIL
210	ANTENNA POWER BITE FAIL
241	SIGNAL PROC +5V POWER SUPPLY FAIL
250	MAINT CONSOLE +28V POWER SUPPLY FAIL
251	MAINT CONSOLE +15V POWER SUPPLY FAIL
252	MAINT CONSOLE +5V POWER SUPPLY FAIL
265	MAINT CONSOLE -15V POWER SUPPLY FAIL
266	DAU A/D LOW LEVEL OUT OF TOLERANCE
267	DAU A/D MID LEVEL OUT OF TOLERANCE
268	DAU A/D HIGH LEVEL OUT OF TOLERANCE
300	ELEVATION AMPLIFIER INHIBIT
301	ELEVATION AMPLIFIER CURRENT LIMIT
302	ELEVATION AMPLIFIER OVERTEMP
303	PEDESTAL +150V OVERVOLTAGE
304	PEDESTAL +150V UNDERVOLTAGE
305	ELEVATION MOTOR OVERTEMP
306	ELEVATION STOW PIN ENGAGED
307	ELEVATION PCU DATA PARITY FAULT
308	ELEVATION IN DEAD LIMIT
310	ELEVATION + NORMAL LIMIT
311	ELEVATION - NORMAL LIMIT
313	ELEVATION ENCODER LIGHT FAILURE
314	ELEVATION GEARBOX OIL LEVEL LOW
315	AZIMUTH AMPLIFIER INHIBIT
316	AZIMUTH AMPLIFIER CURRENT LIMIT
317	AZIMUTH AMPLIFIER OVERTEMP
320	AZIMUTH MOTOR OVERTEMP
321	AZIMUTH STOW PIN ENGAGED
322	AZIMUTH PCU DATA PARITY FAULT
324	AZIMUTH ENCODER LIGHT FAILURE
325	AZIMUTH GEARBOX OIL LEVEL LOW
326	BULL GEAR OIL LEVEL LOW
327	ENCODER +5 VOLT POWER SUPPLY
328	ELEVATION HANDWHEEL ENGAGED
329	AZIMUTH HANDWHEEL ENGAGED
330	PEDESTAL +15V POWER SUPPLY 1 FAIL
331	PEDESTAL -15V POWER SUPPLY 1 FAIL
332	PEDESTAL +5V POWER SUPPLY 1 FAIL
333	PEDESTAL +28V POWER SUPPLY 2 FAIL
334	AZIMUTH AMP POWER SUPPLY FAIL

ALARM CODE	ALARM MESSAGE
335	ELEVATION AMP POWER SUPPLY FAIL
336	PEDESTAL DYNAMIC FAULT
337	PEDESTAL INTERLOCK OPEN
338	PEDESTAL STOPPED
339	PEDESTAL UNABLE TO PARK
341	PED SERVO SWITCH FAILURE
360	RF GEN FREQ SELECT OSCILLATOR FAIL
361	RF GEN RF/STALO FAIL
362	RF GEN PHASE SHIFTED COHO FAIL
380	NOTCH WIDTH MAP GENERATION ERROR
381	PRT1 INTERVAL ERROR
382	PRT2 INTERVAL ERROR
383	RADIAL TIME INTERVAL ERROR
391	RPG LOOP TEST TIMED OUT
392	RPG LOOP TEST VERIFICATION ERROR
393	INVALID REMOTE VCP RECEIVED
394	REMOTE VCP NOT DOWNLOADED
395	INVALID RPG COMMAND RECEIVED
396	RADIAL DATA LOST
397	EXCESSIVE RADIALS IN A CUT
398	STANDBY FORCED BY INOP ALARM
400	DAU STATUS READ TIMED OUT
421	RECOMMEND SWITCH TO UTILITY POWER
439	MOD ADAP DATA FILE READ FAILED
441	BYPASS MAP FILE READ FAILED
442	RDASOT CAL DATA FILE READ FAILED
444	CENSOR ZONE FILE READ FAILED
448	DAU INITIALIZATION ERROR
449	MMI INITIALIZATION ERROR
450	PEDESTAL INITIALIZATION ERROR
451	SPS INITIALIZATION ERROR
452	RPG LINK INITIALIZATION ERROR
453	USER LINK INITIALIZATION ERROR
454	SYSTEM STATUS MONITOR INIT ERROR
455	DISABLE/ENAB/AUTO SWITCH NOT IN AUTO
456	USER LU ASSIGN ERROR
457	ARCH2 LU ASSIGN ERROR
460	MMI I/O STATUS ERROR
461	DAU I/O STATUS ERROR
462	SPS I/O STATUS ERROR
463	PEDESTAL I/O STATUS ERROR
464	REDUN CHAN INTERFACE I/O STATUS ERROR
465	MULT DAU I/O ERROR-RDA FORCED TO STBY
466	MULT SPS I/O ERROR-RDA FORCED TO STBY
467	MULT PED I/O ERROR-RDA FORCED TO STBY
469	LOG CHANNEL NOISE LEVEL DEGRADED
470	LIN CHANNEL NOISE LEVEL DEGRADED
471	SYSTEM NOISE TEMP DEGRADED
472	I/Q AMP BALANCE DEGRADED
473	I/Q PHASE BALANCE DEGRADED
474	IF ATTEN STEP SIZE DEGRADED

ALARM CODE	ALARM MESSAGE
476	IF ATTEN CAL INHIBITED - INVALID DATA
477	IF ATTEN CALIBRATION SIGNAL DEGRADED
479	LIN CHAN GAIN CAL CHECK - MAINT REQD
480	LIN CHAN GAIN CAL CHECK DEGRADED
481	LIN CHAN GAIN CAL CONSTANT DEGRADED
482	LOG CHAN GAIN CAL CONSTANT DEGRADED
483	VELOCITY/WIDTH CHECK DEGRADED
484	VELOCITY/WIDTH CHECK - MAINT REQUIRED
486	LIN CHAN CLUTTER REJECTION DEGRADED
487	LIN CHAN CLTR REJECT - MAINT REQUIRED
488	LOG CHAN CLUTTER REJECTION DEGRADED
489	LOG CHAN CLTR REJECT - MAINT REQUIRED
490	I CHANNEL BIAS OUT OF LIMIT
491	Q CHANNEL BIAS OUT OF LIMIT
503	IF ATTEN STEP SIZE - MAINT REQUIRED
505	I/Q AMP BALANCE - MAINT REQUIRED
507	I/Q PHASE BALANCE - MAINT REQUIRED
521	SYSTEM NOISE TEMP - MAINT REQUIRED
522	ISU PERFORMANCE DEGRADED
523	LIN CHAN RF DRIVE TST SIGNAL DEGRADED
524	LOG CHAN RF DRIVE TST SIGNAL DEGRADED
527	LIN CHAN TEST SIGNALS DEGRADED
528	LOG CHAN TEST SIGNALS DEGRADED
530	LOG CHAN CAL CHECK DEGRADED
532	LOG CHAN CAL CHK - MAINT REQUIRED
533	LIN CHAN KLY OUT TEST SIGNAL DEGRADED
534	LOG CHAN KLY OUT TEST SIGNAL DEGRADED
550	INTERPROCESSOR CONTROL CMD REJECTED
551	NO INTERPROCESSOR COMMAND RESPONSE
552	UNABLE TO CMD OPER -REDUN CHAN ONLINE
553	CHAN ALREADY CONTROLLING-CMD REJ
554	CHAN ALREADY NON-CONTROLLING-CMD REJ
555	CMD NOT VALID FROM CHANNEL 1-CMD REJ
580	SPS READ TIMING ERROR
581	SPS WRITE TIMING ERROR
582	AU0 PARITY ERROR
583	AU1 PARITY ERROR
584	AU2 PARITY ERROR
588	CLUTTER FILTER PARITY ERROR
589	HWSP END AROUND TEST ERROR
590	SPS MEMORY CLEAR ERROR
591	SPS MICRO/ECW DATA FILE READ FAIL
592	SPS MICROCODE/ECW VERIFY ERROR
593	SPS COEFFICIENT RAM LOAD ERROR
595	SPS AU RAM LOAD ERROR
603	SPS CLOCK/MICRO_P SET ERROR
604	PEDESTAL SELF TEST 1 ERROR
605	PEDESTAL SELF TEST 2 ERROR
620	MMI TASK PAUSED - RESTART INITIATED
621	DAU TASK PAUSED - RESTART INITIATE
622	SPS TASK PAUSED - RESTART INITIATED

ALARM CODE	ALARM MESSAGE
623	PED TASK PAUSED - RESTART INITIATED
624	WIDBND TASK PAUSED - RESTART INITIATED
625	ARCH II TASK PAUSED-RESTART INITIATED
626	REDUN CHAN TSK PAUSED-RSTRT INITIATED
627	WDOG TIMER TSK PAUSED-RSTRT INITIATED
650	SEND WINDBAND STATUS TIMED OUT
651	SEND DAU COMMAND TIMED OUT
654	MULT DAU CMD TOUTS -RESTART INITIATED
661	SPS DIM LOOP TEST ERROR
662	SPS SMI LOOP TEST ERROR
663	SPS MICROCODE/ECW LOAD ERROR
664	SPS RTD LOOP TEST ERROR
665	SPS HSP LOOP TEST ERROR
667	SPS HARDWARE INIT SELECT ERROR
671	USER LOOP TEST TIMED OUT
672	USER LOOP TEST VERIFICATION ERROR
679	INVALID CENSOR ZONE MESSAGE RECEIVED
687	REMOTE VCP FILE WRITE FAILED
689	CENSOR ZONE FILE WRITE FAILED
690	STATE FILE WRITE FAILED
691	BYPASS MAP FILE WRITE FAILED
692	RDASC CAL DATA FILE WRITE FAILED
700	INIT SEQ TIMEOUT - RESTART INITIATED
701	CONTROL SEQ TIMEOUT-RESTART INITIATED
751	ARCHIVE II I/O ERROR
752	ARCH II ALLOCATION/MEDIA FULL ERROR
753	ARCHIVE II FILE MANAGEMENT ERROR
754	ARCHIVE II LOAD ERROR
755	ARCH II PLAYBCK VOLUME SCAN NOT FOUND
756	ARCH II CAPACITY LOW
757	ARCH II NEW 8MM TAPE INSTALLED
758	ARCH II UNABLE TO LOAD NEW TAPE - MNT REQ
759	ARCH II WRITE PROTECTED TAPE ERROR
760	ARCH II TAPE HEAD CLEANING REQUIRED

APPENDIX I

SYSTEM CONSOLE MESSAGES

UNABLE TO LOAD SUBTASK
UNABLE TO LOAD TASK LOAD ARRAY
UNABLE TO LOAD TASK06 LOGICAL UNIT ASSIGNMENT ARRAY
UNABLE TO READ ADAPTATION DATA FROM DISK
SUBTASK SOFTWARE INITIALIZATION ERROR

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