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DESCRIPTION: **Combined Modification Document -
Modification Note 69
TCTO 31P1-4-108-625
EEM 6345.1 CHG 39, Chap 36
ITWS Modem Upgrade**

DATE OF ISSUE: July 2, 2004

QUANTITY OF ISSUE: EACH

ITWS MODEM UPGRADE

DOPPLER METEOROLOGICAL RADAR WSR-88D



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1. SUBJECT

Integrated Technical Weather System (ITWS) Modem Upgrade.

2. PURPOSE

Replace the existing codex 14.4 modem at sites connected to FAA ITWS facilities with a faster 33.6 codex modem and make line parameter changes. This will increase the NEXRAD connection bandwidth from 14.4 Kbps to 33.6 Kbps to support the products needed for ITWS algorithms. The authority for this modification is Radar Operations Center (ROC) Engineering Change Proposal (ECP) F0059R3, Continuous Power Source for WSR-88D Radars (TPMS) and ECP F0179, ITWS Modem Upgrade.

For additional information concerning this document, contact the ROC Hotline, Norman, OK; phone number: (800) 643-3363 or (405) 573-8900 or by e-mail at NEXRAD.Hotline@noaa.gov. An electronic copy of this document can be found at the following internet address: www.roc.noaa.gov/ssb/sysdoc/techman/tmlinks.asp

3. SITES AFFECTED

See [ATTACHMENT 2](#).

4. ESTIMATED COMPLETION DATE

This modification must be completed and reported no later than 60 days after the date the kit was shipped from the National Logistics Support Center (NLSC) and receipt of this document.

5. EQUIPMENT AFFECTED

Radar Product Generator Group.

6. SPARES AFFECTED

Not applicable.

7. MODIFICATION ACCOMPLISHED BY

Site electronics technicians will perform this modification. One technician is required to perform this action.

8. MATERIAL REQUIRED

The following items are required to perform the procedures in [ATTACHMENT 1](#).

Nomenclature	Part Number	NSN	Qty
Codex Modem (33.6 kbps)	1219739-210	5895-01-467-1607	1
Federal Express Label	FEDEXOSF	NWS9-62-750-0003	1

9. SOURCE OF MATERIALS

Kits are requisitioned by the ROC Retrofit Management Team and shipped at no cost to the site.

10. SPECIAL TOOLS AND TEST EQUIPMENT REQUIRED

Not applicable.

11. TIME AND PERSONNEL REQUIRED

Work Phases	Work-hours
Unpacking	.0
Disassembly	.25
Installation	.25
Assembly	.5
Operational Check	.0
Total Work-hours	1.0

12. DOCUMENTS AFFECTED

Not applicable.

13. VERIFICATION STATEMENT

This modification was successfully performed at WFO St. Louis, MO.

14. DISPOSITION OF REMOVED AND REPLACED PARTS/MATERIALS

Package the removed modem in the box the new 33.6 modem came in and ship to the National Reconditioning Center (NRC) using the supplied Federal Express label.

15. PROCEDURES

See [ATTACHMENT 1](#).

16. FAA DISTRIBUTION

This directive is distributed to selected offices and services within Washington headquarters, the William J. Hughes Technical Center, the Mike Monroney Aeronautical Center, regional Airway Facilities divisions, and Airway Facilities field offices having the following facilities/equipment: NXRAD.

17. CHANGES TO TABLE OF CONTENTS (FAA)

This chapter will be included in the next revision to the table of contents for FAA Order 6345.1, Electronic Equipment Modification Handbook - Next Generation Weather Radar (NEXRAD).

18. RECOMMENDATIONS FOR CHANGES (FAA)

Forward any recommendations for changes to this directive through normal channels to the National Airway Systems Engineering Division, AOS-200, Operational Support.

19. REPORTING INSTRUCTIONS

a. NWS

Report the completed modification using the Engineering Management Reporting System (EMRS) according to the instructions in NWS Instruction 30-2104, Maintenance Documentation, Part 4 and Appendix E. Include the following information on the EMRS report:

- (1) An Equipment Code of RPG in Block 7.
- (2) The appropriate serial number in Block 8.
- (3) A Mod No. of 69 in Block 17a.

A sample EMRS report is provided as ATTACHMENT 4.

NWS: EHB-6, Modification Note 69
DoD: TO 31P1-4-108-625
FAA: EEM Modification Handbook 6345.1 CHG 39, Chap 36

b. FAA

Enter this directive number, date, and chapter number on the appropriate FAA Form 6032-1, Airway Facilities Modification Record.

Use the Maintenance Management System (MMS) application Log Equipment Modification (LEM) function to report the completion of this modification. Verify N is in the REP COD field to ensure the log entry will be upward reportable to the national data base for access by AOS. This directive should be entered into the LEM fields as follows:

- (1) FAC/SERV: NXRAD
- (2) LOC/IDENT: 55 BA
- (3) Short Name: SYS
- (4) Order No.: 6345.1
- (5) Chapter: 36
- (6) Change: 39

c. DoD

Update the AFTO Form 95 to show TCTO compliance. Report TCTO compliance in accordance with TO 00-20-2, Table 3-10, Rule 9.

Complete [ATTACHMENT 3](#) and return the information to the ROC by one of the four methods below:

- (1) Mail Address: Program Branch, Retrofit Management Team
WSR-88D Radar Operations Center
3200 Marshall Ave., Suite 101
Norman, Oklahoma 73072-8028
- (2) Fax Number: (405) 573-3480
ATTN: Retrofit Management Team
- (3) E-mail Address: NEXRAD.Logistics@noaa.gov
- (4) Web Version: <http://www.roc.noaa.gov/ssb/logistics/complete/>

ATTACHMENT 1

MODEM INSTALLATION AND SETUP PROCEDURES

Equipment and Tools Required:

ESD Component Handling Kit
Ameritec AM-48 Personal Transmission Test Set, as necessary.
Floppy Disk (Provided by the site)

Initial Condition:

Contact the FAA ITWS site and coordinate the modem upgrade and adaptation data change. Both sides **MUST** complete the upgrade at the same time.

Contact the WSR-88D Hotline (1-800-643-3363) and retrieve the agency password:

Using [ATTACHMENT 2](#), identify the modem to be removed and replaced.

Obtain control of the RDA and notify all users, via a Free Text Message or by phone, that maintenance will be performed on the NEXRAD for approximately 1 hour with a brief outage near the end of this period.

1. Perform the following steps to annotate the existing transmit level of the modem being replaced. If you do not have an ITWS, proceed to step 2:
 - a. Open the RPGPCA cabinet doors and locate the Dedicated/Dial Modem Rack Assembly UD70A14.
 - b. Insert key into lock on modem rack door, turn key to unlock, and fully swing out modem rack door.

NOTES

In most cases, the modems sitting in slots 6 through 20 of the modem rack are standard 14.4 modems and will have the part number PC 21102 on the face plate. This modification will replace the existing modem with a PC 42703 modem only on ITWS slots.

At the front panel buttons (shown as they appear when facing the rack [i.e. rotated 90 degrees from the stand alone version]), perform the following functions:



Return key - when pressed within a branch of the menu, changes the LCD to the branch title screen (eg. **TERMINAL OPT'S**). When pressed at a branch title screen, changes the LCD to the home screen (eg. **DATA 14.4T/D?**).

ATTACHMENT 1 (Continued)

MODEM INSTALLATION AND SETUP PROCEDURES



Down key - moves from branch to branch from the main menu and selects individual setting options within the branches.



Across key - moves the screen along the branches of the modem menu tree. It also moves the cursor across data entry menus one character (or digit) at a time (eg. S-Reg menus).



Enter key - selects the item displayed on the LCD as the current setting (if the screen displayed an = sign, it was already the current setting), or initiates an action (as in Reinit Memory?).



c. Press the **<RETURN>** key twice (ensures beginning from the home screen).



d. Press the **<DOWN>** key, the display reads TELCO OPT'S



e. Press the **<ACROSS>** key until the display reads LL Tx Level=_____ If you do not have an existing line, use -15 db.

2. Perform the following modem removal and installation procedures:

ESD** CAUTION **ESD*

All WSR-88D printed circuit cards are electrostatic sensitive devices which require special handling.

a. Put ESD wrist strap on bare wrist and connect clip lead to chassis frame or proper ground.

NOTE

Modem cards can be removed and installed while power is On and software is running.

ATTACHMENT 1 (Continued)

MODEM INSTALLATION AND SETUP PROCEDURES

- b. Remove the modem card from the enclosure by rotating the card ejectors simultaneously at the top and bottom of each modem that hold the card in place and carefully sliding the card out from the enclosure as shown in [figure 1](#).

ATTACHMENT 1 (Continued)

MODEM INSTALLATION AND SETUP PROCEDURES

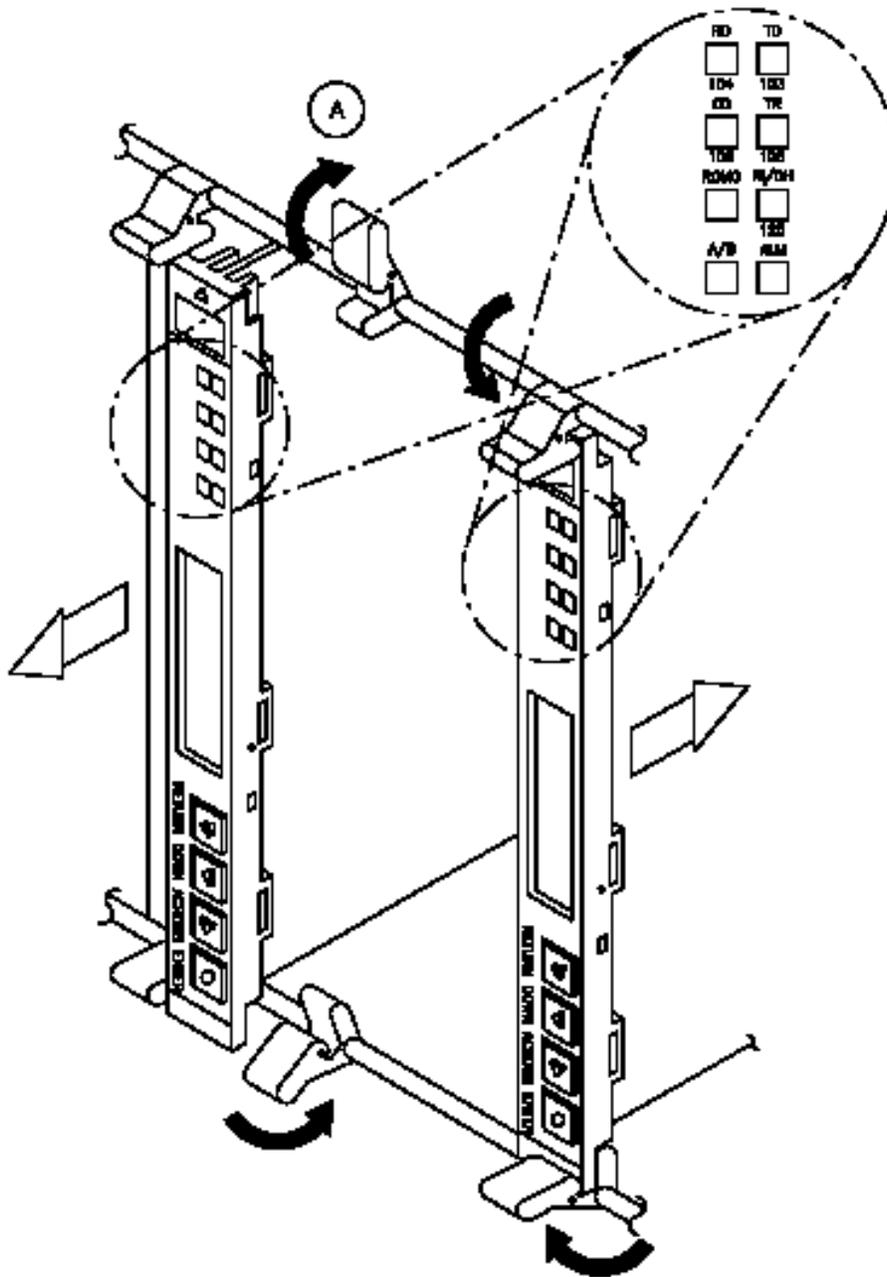


Figure 1. Modem Removal and Installation Example

ATTACHMENT 1 (Continued)

MODEM INSTALLATION AND SETUP PROCEDURES

- c. Check/set the DIP switches on the replacement modem as follows (see figure 2): 3263 Modem: 1 and 2 are On, all others are Off.

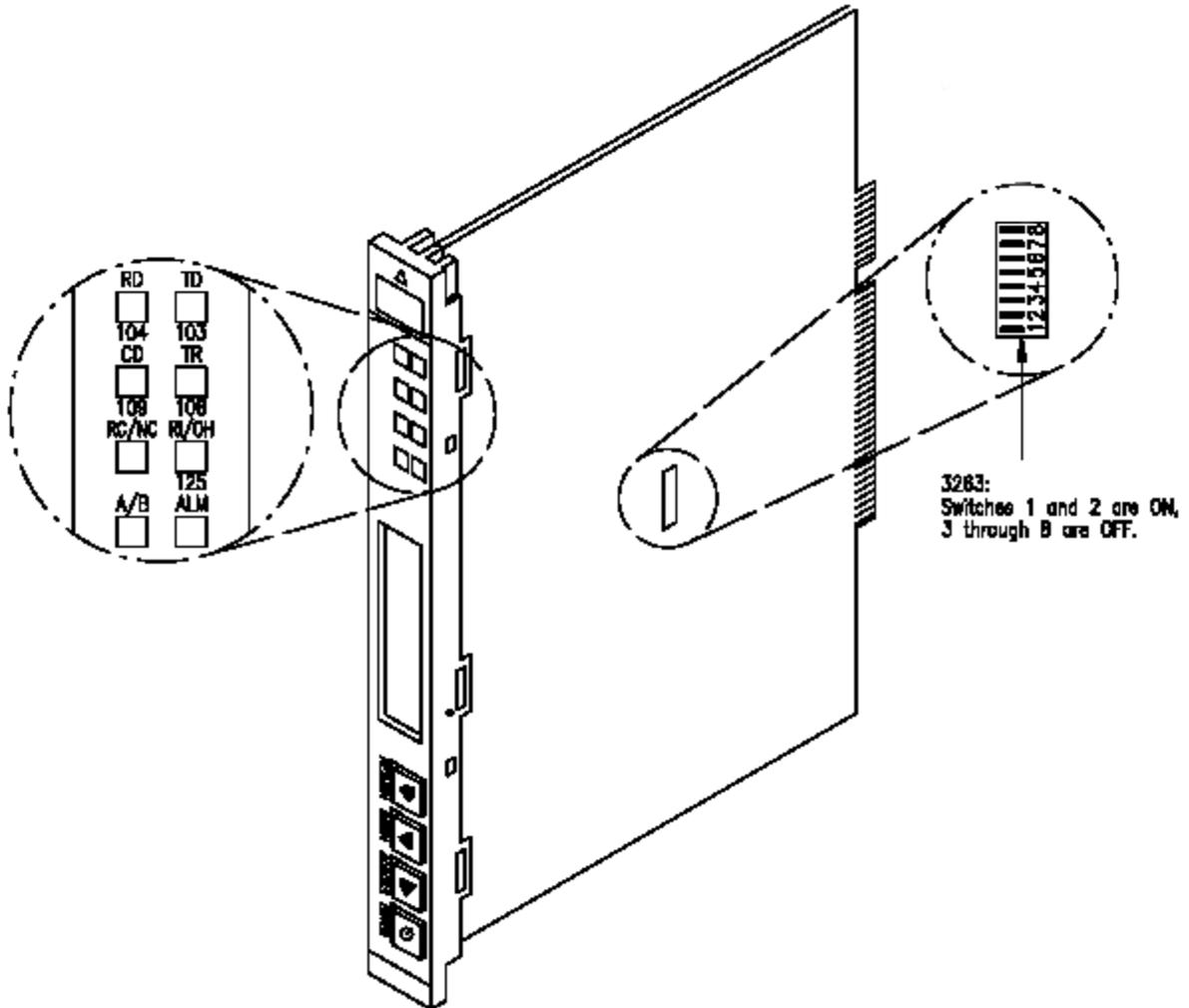


Figure 2. Modem Dip Switch Settings

ATTACHMENT 1 (Continued)

MODEM INSTALLATION AND SETUP PROCEDURES

- d. Install the replacement unit by sliding the card into the enclosure while the ejectors are in position A as shown in [figure 1](#). When the modem card makes contact with the ejectors, swing the ejectors inward toward the card and press to ensure proper seating of the card.
 - e. Place the old 14.4 kbps modem into the ESD bag and box the new 33.6 kbps modem came in.
3. Perform the following modem setup procedures:

NOTES

This procedure is used for configuring the 33.6 dedicated Synchronous Data Compression (SDC) modem in a slot of the modem rack used for an ITWS circuit. This 3263 modem will have a part number of PC 42703 stenciled near the top of the modem face plate. Refer to [ATTACHMENT 2](#) for slot locations at your site or replace the existing 14.4 kbps modem in the slot designated for the ITWS circuit.

Due to differences in modem models, some default display readings will vary between sites. Operators should carefully note desired modem settings and follow data input sequences until these settings are accomplished. (Example 1: While some systems default to a DTE Rate of 14.4, others default to 33.6. In the event the system defaults to 14.4, and the desired reading is 33.6, follow the key sequence until the display reading is 33.6. Example 2: While following procedures for the S-Reg reading, the system may begin with S-Reg = 030 or it may default to some other reading. If the desired reading is S-Reg = 180, perform the key sequence until this reading is achieved.)

- a. Press the  **<RETURN>** key twice (ensures beginning from the home screen).

- b. Press the  **<ACROSS>** key until the display reads `Reinit Memory?`

- c. Press the  **<ENTER>** key once, the display reads `Reinit All Mem?`

- d. Press the  **<ENTER>** key again, the display reads `3263 Fast Init`

ATTACHMENT 1 (Continued)

MODEM INSTALLATION AND SETUP PROCEDURES

- e. Press the  <RETURN> key, the display reads Disconnect T/D?
- f. Press the  <ACROSS> key until the display reads Select Options=1
- g. Press the  <DOWN> key until the display reads Select Options:3
- h. Press the  <ENTER> key, the display reads Select Complete!
- i. Press the  <ACROSS> key until the display reads Power Up In=Old
- j. Press the  <DOWN> key until the display reads Power Up In:3
- k. Press the  <ENTER> key, the display reads Power Up In=3

NOTE

The following step may take approximately 10 seconds to 1 minute before Disconnect T/D? is displayed.

- l. Press the  <RETURN> key, the display reads Disconnect T/D?
- m. Press the  <DOWN> key until the display reads MODULATION OPT'S
- n. Press the  <ACROSS> key, the display reads Line=Dial
- o. Press the  <DOWN> key until the display reads Line:4W Lease

ATTACHMENT 1 (Continued)

MODEM INSTALLATION AND SETUP PROCEDURES

- p. Press the  <ENTER> key, the display reads Line=4W Lease
- q. Press the  <ACROSS> key, until the display reads Max Rate=33.6
- r. Press the  <DOWN> key until the display reads Max Rate:33.6
- s. Press the  <ENTER> key, the display reads Max Rate=33.6
- t. Press the  <ACROSS> key, the display reads Min Rate=9600
- u. Press the  <DOWN> key until the display reads Min Rate:4800
- v. Press the  <ENTER> key, the display reads Min Rate=4800
- w. Press the  <ACROSS> key until the display reads Mode=Originate
- x. Press the  <DOWN> key, the display reads Mode:Answer
- y. Press the  <ENTER> key, the display reads Mode=Answer
- z. Press the  <ACROSS> key until the display reads Clock=Internal
- aa. Press the  <DOWN> key, the display reads Clock:Loopback

ATTACHMENT 1 (Continued)

MODEM INSTALLATION AND SETUP PROCEDURES

- ab. Press the  <ENTER> key, the display reads `Clock=Loopback`
- ac. Press the  <ACROSS> key until the display reads `PSTN=On`
- ad. Press the  <DOWN> key, the display reads `PSTN:Off`
- ae. Press the  <ENTER> key, the display reads `PSTN=Off`
- af. Press the  <RETURN> key, the display reads `MODULATION OPT'S`
- ag. Press the  <DOWN> key until the display reads `EC/DC OPTIONS`
- ah. Press the  <ACROSS> key, the display reads `Mode=Auto Rel`
- ai. Press the  <DOWN> key until the display reads `Mode:Direct`
- aj. Press the  <ENTER> key, the display reads `Mode=Direct`
- ak. Press the  <RETURN> key, the display reads `EC/DC OPTIONS`
- al. Press the  <DOWN> key until the display reads `TERMINAL OPT'S`
- am. Press the  <ACROSS> key, the display reads `DTE Rate=XX.X` (XX.XX is site specific)

ATTACHMENT 1 (Continued)

MODEM INSTALLATION AND SETUP PROCEDURES

- an. Press the  <DOWN> key until the display reads DTE Rate:33.6
- ao. Press the  <ENTER> key, the display reads DTE Rate=33.6
- ap. Press the  <ACROSS> key, the display reads Flow=Tx Clk
- aq. Press the  <DOWN> key until the display reads Flow:RTS/CTS
- ar. Press the  <ENTER> key, the display reads Flow=RTS/CTS
- as. Press the  <RETURN> key, the display reads TERMINAL OPT'S
- at. Press the  <DOWN> key, the display reads TELCO OPT'S
- au. Press the  <ACROSS> key until the display reads LL Tx Level=0
- av. Press the  <DOWN> key until the display reads LL Tx Level:(value annotated in step 1e, or -15 db if you have no ITWS line installed.
- aw. Press the  <ENTER> key, the display reads LL Tx Level=(value annotated in step 1e.
- ax. Press the  <RETURN> key twice to return to the home screen.

ATTACHMENT 1 (Continued)

MODEM INSTALLATION AND SETUP PROCEDURES

- ay. Press the  **<ACROSS>** key until the display reads `Save Changes=3`
- az. Press the  **<ENTER>** key, and wait until the display reads `Save Completed!`
- ba. Press the  **<RETURN>** key twice to return to the home screen.
4. Remove the ESD wrist strap and remove the clip lead from chassis frame.
 5. Close and lock the modem rack assembly door. Remove the key from the lock.
 6. Close the UD70 cabinet front door.
 7. This completes the replacement procedure.
 8. Perform the following steps to update the adaptable parameter for the newly installed modem:
 - a. At the RPG workstation within the RPGPCA cabinets, log into the CDE as a normal user.
 - b. In the `RPG Control/Status` window (see [figure 3](#)), directly to the right of the RPG icon is the Users icon that contains buttons labeled `Comms`, `Products`, and `Status`. In the Users Area of the Main Menu select **Comms**. Clicking on the `Comms` button within the Users icon opens the `Product Distribution Comms Status` window. (See [figure 4](#)). This window contains information about each narrowband line.

ATTACHMENT 1 (Continued)

MODEM INSTALLATION AND SETUP PROCEDURES

- c. In the upper right hand corner of the `Product Distribution Comms Status` window is a button containing a graphic of a black lock in the locked position indicating that this window contains password protected adaptable parameters. Click on the **lock** button to open the `Password` window. In the middle of the `Password` window is the `LOCA` area that contains a selection of the level of users that are permitted to edit the associated window.



- d. In the `Password` window, click on the **Agency** button. Click in the `Password` field and enter the *password* retrieved from the ROC Hotline followed by the **<Return>** key.
- e. When the correct password is entered, the `Password` window closes and you are returned to the `Product Distribution Comms Status` window where the adaptable parameters that can be changed are now highlighted in light blue. Also, the lock button now contains a graphic of a red lock in the unlocked position along with the Authority that unlocked it.

NOTE

When selecting the appropriate modem line in the `Product Distribution Comms Status` window, ensure that you add an extra four line numbers to the modem slot listed in [ATTACHMENT 2](#) for your site. Each dial modem consists of two sides for each modem. For instance, if you replaced the modem in slot 8 of the modem rack, you would select line 12 in the `Product Distribution Comms Status` window.

- f. In the `Product Distribution Comms Status` window, in the `Product Distribution Lines` portion of the window, select the line number corresponding to the modem replaced and **double click** on it and make the following changes:
- (1) In the `Line Management` portion of the window, change the `Baud Rate` from 14400 to **33600**
 - (2) In the `Line Management` portion of the window, ensure the `Comms Option` is set to **NO**.

ATTACHMENT 1 (Continued)

MODEM INSTALLATION AND SETUP PROCEDURES

- (3) In the `Line/User Info` portion of the window, change the `Class user` from `Class 1` to **RPGOP_50**.
 - (4) In the `Product Distribution Comms Status` window, click on the **Save** button in the upper left hand corner. A `warning_popup` window will appear.
 - (5) In the `warning_popup` window, click on the **Yes** button.
 - (6) In the `Product Distribution Comms Status` window, click on the **Update** button. A `warning_popup` window will appear.
 - (7) In the `warning_popup` window, click on the **Yes** button.
- g. Click on the **Close** button of the `Product Distribution Comms Status` window.
 - h. Perform the following steps to place the RDA in standby:
 - (1) At the `RPG Control/Status` window, at the RDA icon, click on the **Control** button.
 - (2) At the `RDA Control/Status` window, in the `RDA State` portion of the window, click on the **Standby** radial button. A `warning_popup` window will appear.
 - (3) In the `warning_popup` window, click on the **Yes** button.
 - i. Return to the `RPG Control/Status` window and under the RPG icon, click on the **Control** button.
 - j. Under the `RPG Control` window, in the `Restart` position of the window, select **Restart All task**. A `warning_popup` window will appear.
 - k. In the `warning_popup` window, click on the **Yes** button.
9. Perform the following steps to save the updated adaptation data:
 - a. At the `RPG Ultra 10` processor, insert a formatted floppy into the floppy drive. Ensure the floppy disk is NOT write protected and can be secured and retained for adaptation backup purposes. The floppy can be formatted using a standard DOS based PC format program or by using the Sun's UNIX format utility.

ATTACHMENT 1 (Continued)

MODEM INSTALLATION AND SETUP PROCEDURES

- b. Open a terminal window by clicking on the toggle above the `cpu disk` button on the CDE control panel, and then select **This Host**. A `Terminal` window will open. An example of opening a terminal window is shown to the right.



- c. At a normal user prompt, enter **save_adapt_floppy**<Return> to start the RPG adaptation data backup. For FAA Redundant systems, this must be done on both channels. `save_adapt_floppy` is a script program designed to backup the adaptation data to the floppy. The program will indicate :

```
-->Saving Adaptation Data  
-->Insert a new floppy into the floppy  
drive  
-->Hit return when ready
```

At this point press the <Return> key. The program will mount the floppy and performs all necessary backup actions. It will take approximately 30 seconds for the backup to complete. At the end of the backup, the program will display the adaptation backup file name which was made on the floppy. The program will also unmount the floppy.

- d. At the RPG(s), the adaptation data can also be backed up for an MSCF to the same floppy. This should be done to ensure redundancy of data should the prime floppy disk specifically made for a given unit becomes corrupted. At a normal user prompt, enter **save_adapt_floppy -o mscf**<Return> The backup is completed as indicated in step 9c above.
- e. When the backup is complete, remove the floppy from the drive and label the contents on its disk label. Ensure the disk label indicates the current system software build and current date at a minimum. Store the disk in a safe location.

10. At the `RPG Control` window, click on the **Close** button to close the `RPG Control` window.

NOTE

Wait for the software to complete its reboot before proceeding with the next step. The software reboot is complete when the state of the radar changed to `Standby` and the `Operate` button is no longer grayed out.

11. Return to the `RDA Control/Status` window and click on the **Operate** radial button to take the RDA out of standby mode. A `warning_popup` window will appear.

12. In the `warning_popup` window, click on the **Yes** button.

ATTACHMENT 1 (Continued)

MODEM INSTALLATION AND SETUP PROCEDURES

13. In the RDA Control/Status window, click on the **Close** button to close the RDA Control/Status window.
14. Proceed with normal operation.
15. Using the Federal Express label provided in the kit, ship the old 14.4 kbps modem to the NRC.

ATTACHMENT 1 (Continued)

MODEM INSTALLATION AND SETUP PROCEDURES

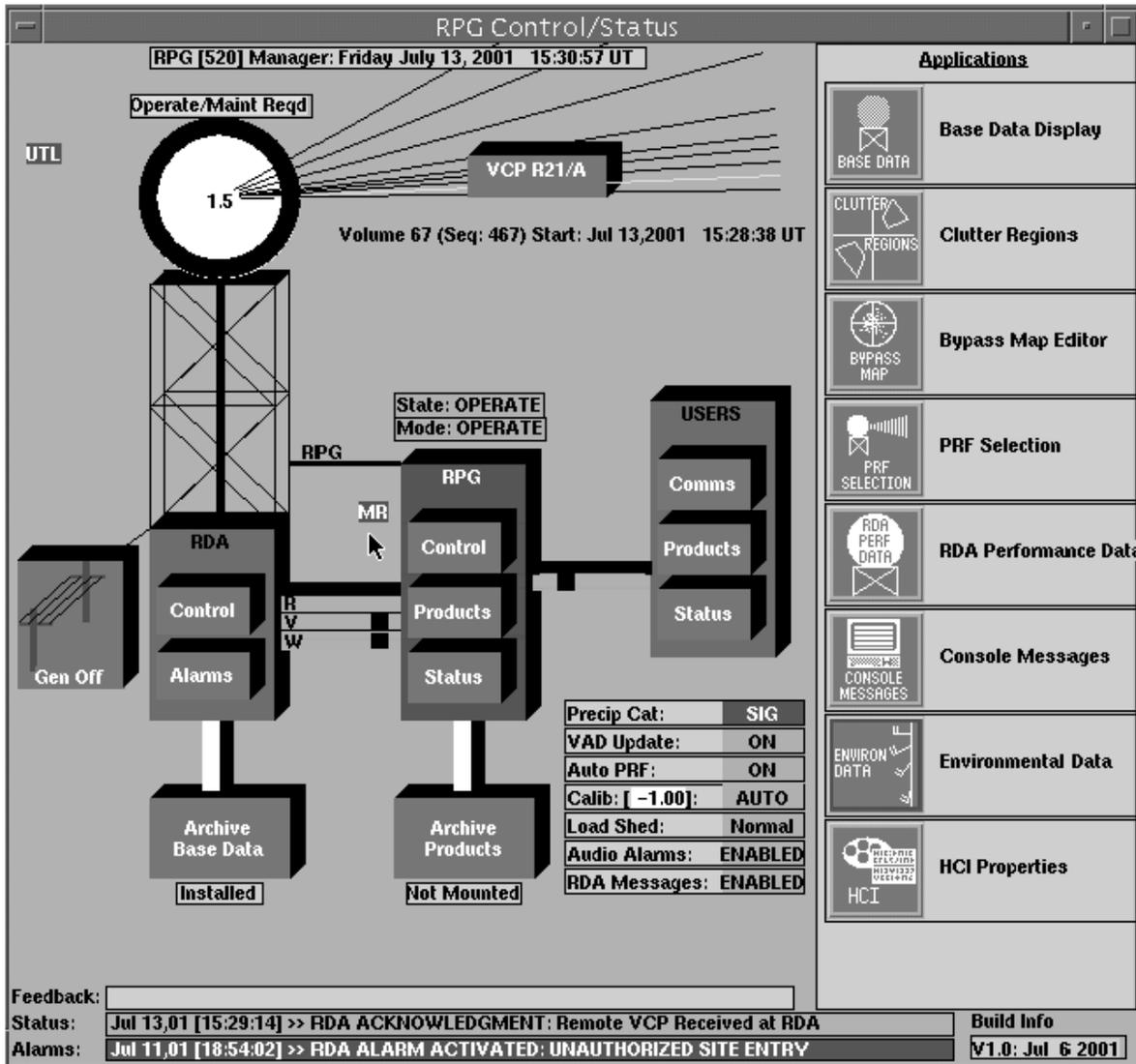


Figure 3. RPG Control/Status Menu Example

ATTACHMENT 1 (Continued)

MODEM INSTALLATION AND SETUP PROCEDURES

Product Distribution Comms Status

Close Save Backup Baseline: Restore Update

Product Distribution Lines

Line	Type	Enabled	Proto	ID	User Name	Class	Status	Util	Rate
1	DIALIN	Yes	X25			2	CON PEND	0%	0%
2	DIALIN	Yes	X25			2	CON PEND	0%	0%
3	DIALIN	Yes	X25			2	CON PEND	0%	0%
4	DIALIN	Yes	X25			2	CON PEND	0%	0%
5	DIALIN	Yes	X25			2	CON PEND	0%	0%
6	DIALIN	Yes	X25			2	CON PEND	0%	0%
7	DIALIN	Yes	X25			2	CON PEND	0%	0%
8	DIALIN	Yes	X25			2	CON PEND	0%	0%
9	DEDIC	Yes	X25		RP60P		CON PEND	0%	0%
10	DEDIC	Yes	X25			1	CON PEND	0%	0%
11	DEDIC	Yes	X25	408	rgop#2R0C-N	1	CONNECT	0%	78%
12	DEDIC	Yes	X25			1	CON PEND	0%	0%
13	DEDIC	Yes	X25	800	opw#R0C-N	1	CONNECT	1%	66%
14	DEDIC	Yes	X25			1	CON PEND	0%	0%
15	DEDIC	Yes	X25			1	CON PEND	0%	0%
16	DEDIC	Yes	X25			1	CON PEND	0%	0%
17	DEDIC	Yes	X25			1	CON PEND	0%	0%
18	DEDIC	Yes	X25			1	CON PEND	0%	0%
19	DEDIC	Yes	X25			1	CON PEND	0%	0%
20	DEDIC	Yes	X25			1	CON PEND	0%	0%
21	DEDIC	Yes	X25			1	CON PEND	0%	0%
22	DEDIC	Yes	X25			1	CON PEND	0%	0%
23	DEDIC	Yes	X25			1	CON PEND	0%	0%
24	DEDIC	Yes	X25			1	CON PEND	0%	0%

Line Management

Line # 11 Comm Mgr # 12

Type Dedicated PScvr # 12

Port Pswd Time Limit 10

Baud Rate 14400 Comm Option No

Line/User Info

User ID 408 Class 1

User Name rgop#2R0C-N Method N/A

Dial-in Users

Prev [Users 1 to 20 of 818] Next

User ID/Name	Pswd	Ovr	Class	Method
1 [ROUTINE]	OPENUP		2	N/A
2 [ADS_Dial]	OPENUP		2	N/A
3 [ADS_Dial]	OPENUP		2	N/A
4 [ADS_Dial]	OPENUP		2	N/A
5 [ADS_Dial]	OPENUP		2	N/A
6 [ADS_Dial]	OPENUP		2	N/A
7 [ADS_Dial]	OPENUP		2	N/A
8 [ADS_Dial]	OPENUP		2	N/A
9 [ADS_Dial]	OPENUP		2	N/A
10 [ADS_Dial]	OPENUP		2	N/A
11 [ADS_Dial]	OPENUP		2	N/A
12 [ADS_Dial]	OPENUP		2	N/A

Add Dial-in User Delete Dial-in User

Sorted By: Line Type Status

Line Control

Reset Disconnect Connect Deselect

General Parameters

Retries 3 Timeout 120 Alarm (%) 100 Warning (%) 95

Figure 4. Product Distribution Comms Status Main Menu

ATTACHMENT 2

EFFECTIVITY

NWS

NEXRAD Site Name	City, ST	EQP	SID	ORG Code	Modem Slot	ITWS Associated Site
Eastern Region						
BOSTON	TAUNTON, MA	RPG	BOX	WN9509	10	BOSTON
BROOKHAVEN	UPTON, NY	RPG	OKX	WN9912	8	NEW YORK
CINCINNATI	WILMINGTON, OH	RPG	ILN	WN9710	11 13 14	CINCINNATI, COLUMBUS, DAYTON
CLEVELAND	CLEVELAND, OH	RPG	CLE	WN9524	7	CLEVELAND
GREER	GREER, SC	RPG	GSP	WN9312	8	CHARLOTTE
PHILADELPHIA	MOUNT HOLLY, NJ	RPG	PHI	WN9950	10 13	NEW YORK, FAA TECH CENTER, PHILADELPHIA
PITTSBURGH	CORAOPOLIS, PA	RPG	PBZ	WN9917	8	PITTSBURGH
RALEIGH/DURHAM	RALEIGH, NC	RPG	RAH	WN9306	10	RALEIGH/ DURHAM
ROANOKE	BLACKSBURG, VA	RPG	RNK	WN9954	8	POTOMAC
STATE COLLEGE	STATE COLLEGE, PA	RPG	CTP	WN9925	7	NEW YORK
STERLING	STERLING, VA	RPG	LWX	WN9931	10	POTOMAC

NWS: EHB-6, Modification Note 69
 DoD: TO 31P1-4-108-625
 FAA: EEM Modification Handbook 6345.1 CHG 39, Chap 36

ATTACHMENT 2 (Continued)

EFFECTIVITY

NEXRAD Site Name	City, ST	EQP	SID	ORG Code	Modem Slot	ITWS Associated Site
Southern Region						
ATLANTA	PEACHTREE CITY, GA	RPG	FFC	WP9219	10	ATLANTA
DALLAS/FT WORTH	FORT WORTH, TX	RPG	FWD	WP9259	13	DALLAS/FT WORTH
HOUSTON	DICKINSON, TX	RPG	HGX	WP9935	10	HOUSTON
MELBOURNE	MELBOURNE, FL	RPG	MLB	WP9204	13	ORLANDO
MEMPHIS	MEMPHIS, TN	RPG	MEG	WP9334	9	MEMPHIS
MIAMI	MIAMI, FL	RPG	MFL	WP9918	10	MIAMI
NASHVILLE	OLD HICKORY, TN	RPG	OHX	WP9327	8	NASHVILLE
NORMAN	NORMAN, OK	RPG	OUN	WP9921	13	PSF,
					14	FAA ACADEMY,
					15	OKLAHOMA CITY
SLIDELL	SLIDELL, LA	RPG	LIX	WP9919	9	NEW ORLEANS
TAMPA	RUSKIN, FL	RPG	TBW	WP9961	9	ORLANDO
TULSA	TULSA, OK	RPG	TSA	WP9356	8	TULSA
Central Region						
CHICAGO	ROMEDEVILLE, IL	RPG	LOT	WR9969	9	CHICAGO

ATTACHMENT 2 (Continued)

EFFECTIVITY

NEXRAD Site Name	City, ST	EQP	SID	ORG Code	Modem Slot	ITWS Associated Site
DENVER	BOULDER, CO	RPG	BOU	WR9469	9	DENVER
DETROIT	WHITE LAKE, MI	RPG	DTX	WR9954	9	DETROIT/WAYNE
INDIANAPOLIS	INDIANAPOLIS, IN	RPG	IND	WR9438	9	INDIANAPOLIS
LOUISVILLE	LOUISVILLE, KY	RPG	LMK	WR9423	10	LOUISVILLE
MILWAUKEE	DOUSMAN, WI	RPG	MKX	WR9965	8	CHICAGO
MINNEAPOLIS	CHANHASSEN, MN	RPG	MPX	WR9658	8	MINNEAPOLIS/ST PAUL
PLEASANT HILL	PLEASANT HILL, MO	RPG	EAX	WR9446	14	KANSAS CITY
ST LOUIS	WELDON SPRING, MO	RPG	LSX	WR9971	10	ST LOUIS
TOPEKA	TOPEKA, KS	RPG	TOP	WR9456	8	KANSAS CITY
WICHITA	WICHITA, KS	RPG	ICT	WR9450	9	WICHITA
Western Region						
LAS VEGAS	LAS VEGAS, NV	RPG	VEF	WT9386	10	LAS VEGAS
PHOENIX	PHOENIX, AZ	RPG	PSR	WT9278	9	PHOENIX
SALT LAKE CITY	SALT LAKE CITY, UT	RPG	SLC	WT9932	10	SALT LAKE CITY

ATTACHMENT 2 (Continued)

EFFECTIVITY

NEXRAD Site Name	City, ST	EQP	SID	ORG Code	Modem Slot	ITWS Associated Site
DoD						
DOVER AFB	ELLENDALE STATE FOREST, DE	RPG	DOX	FE4497	9	PHILADELPHIA
VANCE AFB	CHEROKEE, OK	RPG	VNX	FE3029	10	PSF
FAA						
ROC FAA REDUNDANT (RPG 2)	NORMAN, OK	RPG	CRIO2	WG9410	?	
ROC FAA REDUNDANT (RPG 1)	NORMAN, OK	RPG	CRIO2	WG9410	?	
SAN JUAN FAA (RPG 2)	SAN JUAN, PR	RPG	JUA	69F362	9	SAN JUAN
SAN JUAN FAA (RPG 1)	SAN JUAN, PR	RPG	JUA	69F362	9	SAN JUAN

ATTACHMENT 3

ITWS MODEM UPGRADE COMPLETION FORM

***** **DoD Only will complete and return this form** *****
NWS report completion through EMRS
FAA report completion through LEM

Site Name: _____

Site Identifier: _____

Total Time to Complete this Modification Document: _____

Technician's Name(s): _____

Technician's Phone Number: _____

Date Completed: _____

Problem(s) Encountered:

Upon completion of this form, return the information to the ROC using one of the four methods below:

1. Mailing Address: Program Branch, Retrofit Management Team
WSR-88D Radar Operations Center
3200 Marshall Ave., Suite 101
Norman, OK 73072-8028
2. FAX Number: (405) 366-6553
ATTN: Retrofit Management Team
3. E-mail Address: NEXRAD.Logistics@noaa.gov
4. Web Version: <http://www.roc.noaa.gov/ssb/logistics/complete/>

Attachment 4 - Sample EMRS Report

GENERAL INFORMATION

NEW RECORD WFO* HGX Document No.* HGX40707000

1. Open Date	Open Time	2. Op Initials	3. Response Priority	4. Close Date	Close Time
07/07/2004	08:00	WSH	<input type="radio"/> Immediate <input type="radio"/> Low <input type="radio"/> Routine <input checked="" type="radio"/> Not Applicable	07/07/2004	09:00

5. Maintenance Description 482 characters left RADAR, WSR-88D

ITWS Modem Upgrade

EQUIPMENT INFORMATION

6. Station ID*	7. Equipment Code	8. Serial Number	9. TM	10. AT	11. How Mal
HGX	RPG	PR07199047	M	M	999

Alert: Time Remaining: 1:00
(For Block 12 use only)

12. EQUIPMENT OPERATIONAL STATUS TIMES

Partially Operational			Not Operational	
a. Fully Operational	b. Logistic Delay	c. All Other	d. Logistic Delay	e. All Other
Hours Minutes				
<input type="text"/> <input type="text"/>				

13. PARTS USAGE and CONFIGURATION MANAGEMENT REPORTING

ASN	Vendor Part No. <small>(New Part)</small>	Serial Number <small>(Old Part)</small>	Serial Number <small>(New Part)</small>	New Row
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	Delete Row

14. WORKLOAD INFORMATION

a. Routine	b. Non-Routine	c. Travel	d. Misc	e. Overtime
Hours Minutes	Hours Minutes	Hours Minutes	Hours Minutes	Hours Minutes
<input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/>	<input type="text"/> 1 <input type="text"/> 0	<input type="text"/> <input type="text"/>

MISCELLANEOUS INFORMATION

15. Maintenance Comments 667 characters left

Replaced existing 14.4 Kbps modem with a 33.6 Kbps modem, I.A.W. NEXRAD Mod Note 69

16. Tech Initials
MFK

17. SPECIAL PURPOSE REPORTING INFORMATION

a. Mod No.	b. Mod Act/Deact Date	c. Block C	d. Trouble Ticket No.	e. Block E
69	07/07/2004	<input type="text"/>	<input type="text"/>	<input type="text"/>

Done Internet

