

**OPEN PRINCIPAL USER PROCESSOR (OPUP) GROUP  
SOFTWARE BUILD 5.0**

**DOPPLER METEOROLOGICAL RADAR  
WSR-88D**



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COMMERCE, THE AIR FORCE, THE NAVY, AND TRANSPORTATION

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BY ORDER OF THE SECRETARY OF THE AIR FORCE

 **Ed Berkowitz**  
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valid

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Date: 2004.03.01  
13:14:40 -06'00'

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**Date** \_\_\_\_\_

**Edward L. Berkowitz, Chief**  
**Program Branch**  
**Radar Operations Center**  
**TOMA**

**1. SUBJECT**

Open Principal User Processor (OPUP) Group Software Build 5.0.

**2. PURPOSE**

This modification provides instructions and software for loading OPUP Build 5.0 software. This document is issued under Radar Operations Center (ROC) Engineering Change Proposal (ECP) 0198, OPUP Software Build 5.0.

For additional information concerning this document, contact the Radar Operations Center (ROC) Hotline, Norman, OK; phone number: (800) 643-3363 or (405) 573-8900 or by e-mail at [NEXRAD.Hotline@noaa.gov](mailto: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](http://www.roc.noaa.gov/ssb/sysdoc/techman/tmlinks.asp)

**3. SITES AFFECTED**

See [ATTACHMENT 5](#).

**4. ESTIMATED COMPLETION DATE**

This modification must be reported completed no later than 60 days after receipt of this document and the date the kit was shipped. It is the responsibility of the site to report the completion of the software load.

**5. EQUIPMENT AFFECTED**

Open Principal User Processor Group.

**6. SPARES AFFECTED**

Not applicable.

**7. MODIFICATION ACCOMPLISHED BY**

Site electronic systems analysts and/or electronics technicians will accomplish this task, and one technician is required to perform this procedure.

**8. MATERIAL REQUIRED**

The following kit will be required to install OPUP Software Build 5.0.

Nomenclature	Qty
CD-ROM, OPUP LOAD MEDIA Version 5.0	4
CD-ROM, OPUP PAM + XModem File Updates	1
Release Notes, OPUP Software Build 5.0	1

**9. SOURCE OF MATERIALS**

The items in paragraph 8 will be shipped to each site by the National Weather Service (NWS) ROC.

**10. SPECIAL TOOLS AND TEST EQUIPMENT REQUIRED**

Not applicable.

**11. TIME AND PERSONNEL REQUIRED**

Work Phases	Work-hours
Unpacking	.25
Disassembly	0.0
Installation	4.0
Assembly	0.0
Operational Check	.25
Total Work-hours	4.5

**12. DOCUMENTS AFFECTED**

**a. Maintenance Instructions, Open Principal User Processor (OPUP), dated 15 January 2004**

NWS: EHB 6-538, Change 1

AIR FORCE: AFTO 31P1-4-108-458-2, Change 1

NAVY: EM400-A3-MMO-010, Change 1

**b. Maintenance Instructions, Open Principal User Processor (OPUP), Medium/ Large, dated DRAFT. A final copy of this manual will be sent out at a later date.**

NWS: EHB 6-537

AIR FORCE: AFTO 31P1-4-108-459-2

NAVY: EM400-A4-MMO-010

**13. VERIFICATION STATEMENT**

This modification was successfully installed at Altus AFB, OK.

**14. DISPOSITION OF REMOVED AND REPLACED PARTS/MATERIALS**

Not applicable.

**15. PROCEDURES**

Perform the procedures that apply to your site:

- [ATTACHMENT 1](#), Small OPUP Software Build 5.0 Load Instructions.
- [ATTACHMENT 2](#), Medium OPUP Software Build 5.0 Load Instructions.
- [ATTACHMENT 3](#), Large OPUP Software Build 5.0 Load Instructions.
- [ATTACHMENT 4](#), Switch Configuration Instructions.

The NEXRAD site Unit Radar Committee (URC) chairman must coordinate downtime with all dedicated users in accordance with Interagency NEXRAD Operation Memorandum of Agreement (MOA).

**16. FAA DISTRIBUTION**

Not applicable.

**17. CHANGES TO TABLE OF CONTENTS (FAA)**

Not applicable.

**18. RECOMMENDATIONS FOR CHANGES (FAA)**

Not applicable.

**19. REPORTING INSTRUCTIONS**

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 6](#), and return the information to the ROC by one of the four methods below:

(1) Mail Address: Program Branch, Configuration Management Team  
WSR-88D Radar Operations Center  
3200 Marshall Ave., Suite 101  
Norman, Oklahoma 73072-8028

(2) Fax Number: (405) 573-3480  
ATTN: Configuration Management Team

(3) E-mail Address: [NEXRAD.CM.comments@noaa.gov](mailto:NEXRAD.CM.comments@noaa.gov)

(4) Web Version: <http://www.roc.noaa.gov/ssb/logistics/completion.asp>

ATTACHMENT 1

**SMALL OPUP SOFTWARE BUILD 5.0 INSTALLATION INSTRUCTIONS**

**Tool Required:**

Cisco Configuration Cable (P/N 72-3683-01)

**Initial Conditions:**

- Merging Adaptation Data from Software Build 4.0 to Software Build 5.0 is not possible; therefore, it is important that the adaptable parameter information is captured prior to loading Software Build 5.0. RELEASE NOTES are provided with this build to provide work-arounds to overcome this problem. Please take a few minutes to review the RELEASE NOTES provided with OPUP Software Build 5 prior to starting the Software Load Instructions.
- Ensure that all software input information described in step 2 is obtained **before** beginning with the Software Load Procedure. A software input parameter fill-in/checklist is provided for this purpose. Safeguard all IP-addresses and passwords used to complete the following software load procedure.
- Refer to NWS EHB 6-538, AFTO 31P1-4-108-458-2, Table 3-8, item number 5, for any Communication Router UD86A8 configuration failures that may be encountered during the software installation.
- The software installation process ends with checking and/or updating (if required) the Small OPUP system time. All time inputs are to be entered in GMT (UTC) format. Ensure that an accurate time source is available during these steps (recommended source: WWV at 303-499-7111).
- In the following procedures, when **<Return>** is printed in command lines, it means to press the **<Return>** or **<Enter>** key, whichever is appropriate.
- Use the **<Delete>** key to correct typographical errors.

Step	Action/Response	Comments
1.	Obtain the following items: <ul style="list-style-type: none"> <li>• OPUP LOAD MEDIA disks (4) provided in the kit and the software input configuration parameters.</li> <li>• OPUP PAM + XMODEM FILE UPDATES Disk</li> <li>• Cisco Configuration Cable (part number 72-3383-01)</li> </ul>	

ATTACHMENT 1 (Continued)

**SMALL OPUP SOFTWARE BUILD 5.0 INSTALLATION INSTRUCTIONS**

Step	Action/Response	Comments
2.	<p>Fill in the input parameter data listed below:</p> <p>Root_Password: _____</p> <p>opupmgr_Password: _____</p> <p>Security Level 1 Password: _____</p> <p>Security Level 2 Password: _____</p> <p>Security Level 3 Password: _____</p> <p>Number of Dial Phone Lines: _____</p> <p>Point of Contact Name: _____</p> <p>Point of Contact Phone Number: _____</p> <p>Current Router Password: _____</p> <p>New Router Password: _____</p> <p>Current Enable Password: _____</p> <p>New Enable Password: _____</p> <p>User_Name: _____</p> <p>User_Password: _____</p> <p>-----</p> <p>The following information will be displayed and is to be recorded during the software installation:</p> <p>System Type: _____</p> <p>Site Name: _____</p> <p>Network: _____</p> <p>OPUP Dataserver IP address: _____</p> <p>Cisco Router IP address: _____</p> <p>OPUP Base to Install: _____</p> <p>Select Base Installation: _____</p>	

## ATTACHMENT 1 (Continued)

## SMALL OPUP SOFTWARE BUILD 5.0 INSTALLATION INSTRUCTIONS

Step	Action/Response	Comments
3.	At the Server UD86A2, push and hold the power button located near the center left of the Server until the power LED turns off.	This takes approximately 5 to 10 seconds.
4.	<p>Ensure the following peripheral devices are connected and powered on:</p> <ul style="list-style-type: none"> <li>• Monitor UD86A1</li> <li>• Switch UD86A5</li> <li>• External Dedicated Modem UD86A6</li> <li>• Archive IV Device UD86A7</li> <li>• Communication Router UD86A8</li> <li>• Video Splitter UD86A9*</li> <li>• UPS UD86A10</li> <li>• Printer UD86A12*</li> <li>• External Dedicated Modem UD86A13*</li> </ul>	* If used.
5.	At the rear of the Server UD86A2, disconnect the UPS Serial Cable 86W4 from the server port labeled SERIAL.	
6.	At the rear of the Server UD86A2, connect the 9-pin connector end of the Cisco configuration cable (part number 72-3383-01) to the server port labeled SERIAL.	
7.	At the rear of the Communication Router UD86A8, connect the other end of the Cisco configuration cable into the CONSOLE port.	
<p><b>NOTES</b></p> <p>Prior to continuing to the next two steps, locate on the keyboard, the <b>&lt;Stop&gt;</b> key (far upper left side of keyboard) and the <b>&lt;A&gt;</b> key. These keys will be utilized to interrupt the boot process. If the system proceeds through the initial boot process before it is stopped, the software load process must be restarted from step 3.</p> <p>If a prompt, other than the <code>ok</code> is displayed, press the <b>&lt;Return&gt;</b> key until the <code>ok</code> prompt is displayed.</p>		
8.	At the Server UD86A2, push the power button located near the top left.	This applies power to the OPUP Server. This takes approximately 5 seconds.

## ATTACHMENT 1 (Continued)

## SMALL OPUP SOFTWARE BUILD 5.0 INSTALLATION INSTRUCTIONS

Step	Action/Response	Comments
9.	<p>When the system starts to boot, denoted by a spinning pin-wheel icon displayed on the monitor screen, press and hold the <b>&lt;Stop&gt;</b> key and simultaneously press the <b>&lt;A&gt;</b> key.</p> <p>This stops the Server boot sequence and displays an <code>ok</code> prompt.</p>	This takes approximately 1 minute.
10.	<p>At the Server UD86A2, open the CD-ROM drive door and place the first CD-ROM disk, labeled OPUP LOAD MEDIA Version 5.0 Disk 1, in the tray.</p> <p>Close the CD-ROM drive door.</p>	Version 5.0 is the most current version of software.
11.	<p>At the <code>ok</code> prompt, enter: <b>boot cdrom&lt;Return&gt;</b></p> <p>The boot process will take approximately 3 to 4 minutes.</p>	<p>When the <b>&lt;Return&gt;</b> key is pressed the boot process will begin.</p> <p style="text-align: center;"><b>NOTE</b></p> <p>If an <code>ok</code> prompt reappears, press <b>&lt;Return&gt;</b>, then repeat step 11.</p>
12.	<p>When the following message will appears:</p> <pre>Choose OPUP Site to Load:  1  Air_Force 2  Navy 3  Testbed 4  Overseas 5  Other  Enter Numeric Selection from Above, q to Quit, or ? for Help:  [?,??,q]:  <i>applicable # from above</i>&lt;Return&gt;</pre>	

ATTACHMENT 1 (Continued)

SMALL OPUP SOFTWARE BUILD 5.0 INSTALLATION INSTRUCTIONS

Step	Action/Response	Comments
13.	<p>When the following message appears:</p> <pre>Please enter the OPUP site system ID (type 'help' for list):  Enter: <b>help&lt;Return&gt;</b></pre> <p>Locate your six-letter OPUP site system ID and record it here: _____</p> <p>Once located: If -more- is displayed at the bottom of Site System ID list, press <b>q</b> to exit out of help mode and proceed to the next step. If the above message is displayed, proceed to the next step.</p>	
14.	<p>When the following message appears:</p> <pre>Please enter the OPUP site system ID (type 'help' for list):  Enter: <b>SITEID&lt;Return&gt;</b></pre>	<p>Ensure the OPUP site system ID is entered in uppercase.</p>
<p><b>NOTE</b></p> <p>The following information displayed in step 15 is an example of what a site may see during the OPUP software installation process. The actual system type, site name, and IP-address information for each site will be different. The third IP-address octet (i.e. 10.5.7.1) is site specific.</p>		
15.	<p>When a message similar to the following appears:</p> <pre>System Type is:  Air_Force Site Name   is:  LTSBWS Network is:  10.5.7.0 ----- OPUP Dataserver IP address is: 10.5.7.1 Cisco Router IP address is: 10.5.7.2</pre> <p>Record the five values in the space provided in step 2.</p>	

## ATTACHMENT 1 (Continued)

## SMALL OPUF SOFTWARE BUILD 5.0 INSTALLATION INSTRUCTIONS

Step	Action/Response	Comments
16.	When the following message appears:  Please Enter Password for root: Enter Password:  Enter: <i>root_password</i> <Return>	Entries will not be shown. Use assigned password from step 2.
17.	When the following message appears:  Re-Enter Password:  Enter: <i>root_password</i> <Return>	Password must be verified by entering the same password twice.  If the password entries do not match or are not valid, the request for a password will be made again.
18.	When the following message appears:  Please Enter Password for opupmgr: Enter Password:  Enter: <i>opupmgr_password</i> <Return>	Entries will not be shown. Use assigned password from step 2.
19.	When the following message appears:  Re-Enter Password:  Enter: <i>opupmgr_password</i> <Return>	Password must be verified by entering the same password twice.  If the password entries do not match or are not valid, the request for a password will be made again.
20.	When the following message appears:  Do you want to continue installation with selection? Yes or No [y,n,?,q]  If the inputs are correct, enter: <b>y</b> <Return>  If any information is incorrect, enter: <b>n</b> <Return>  The software load process will go back to step 12.	It is <u>critical</u> that all input information displayed in step 15 is recorded and accurate. Examine the inputs and ensure all entries are correct before proceeding to the next step.

ATTACHMENT 1 (Continued)

SMALL OPUP SOFTWARE BUILD 5.0 INSTALLATION INSTRUCTIONS

Step	Action/Response	Comments
21.	<p>The software installation process will now display the following information:</p> <p>Starting Installation.</p> <p>Beginning Installation Phase 1.....</p> <p>The software load process will take approximately 20 to 30 minutes</p>	<p>Additional information will continue to scroll on the display monitor.</p> <p>The following message will be displayed:</p> <p>Extracting /export/install Files.....</p> <p>Any information displayed after the string of periods indicate a defective disk. Call the ROC Hotline for assistance.</p>
22.	<p>When the following message appears:</p> <p>Installation Phase 1 complete.</p> <p>Press Return to reboot and start Phase 2.</p> <p>Press the &lt;Return&gt; key.</p> <p>The software load process will take approximately 3 to 4 minutes</p>	<p>Initially the screen will go blank for about 30 seconds.</p>
<p style="text-align: center;"><b>NOTE</b></p> <p>If the incorrect CD-ROM disk is inserted, the load process will display the message <code>Incorrect Disk. No default media available.</code> The software load process will then prompt for the correct CD-ROM.</p>		

ATTACHMENT 1 (Continued)

SMALL OPUP SOFTWARE BUILD 5.0 INSTALLATION INSTRUCTIONS

Step	Action/Response	Comments
23.	<p>When the following message appears:</p> <pre>Beginning Installation Phase 2...</pre> <p>Please Insert OPUP Installation Disk #2, and press Return.</p> <ul style="list-style-type: none"> <li>• Open the CD-ROM drive door.</li> <li>• Remove Disk 1 and place it in its protective sleeve.</li> <li>• Place Disk #2 into the tray.</li> <li>• Close the CD-ROM drive door.</li> <li>• Press the <b>&lt;Return&gt;</b> key.</li> <li>• This takes approximately 20 to 30 minutes.</li> </ul>	<p>The system installs the software from Disk 2, OPUP LOAD MEDIA Version 5.0.</p> <p>The following message will be displayed:</p> <pre>Extracting /export/install Files.....</pre> <p>Any information displayed after the string of periods indicate a defective disk. Call the ROC Hotline for assistance.</p>
24.	<p>When the following message appears:</p> <pre>Please Insert OPUP Installation Disk #3, and press Return.</pre> <ul style="list-style-type: none"> <li>• Open the CD-ROM drive door.</li> <li>• Remove Disk 2 and place it in its protective sleeve.</li> <li>• Place Disk 3 into the tray.</li> <li>• Close the CD-ROM drive door.</li> <li>• Press the <b>&lt;Return&gt;</b> key.</li> <li>• This takes approximately 5 to 10 minutes.</li> </ul>	<p>The system installs the software from Disk 3, OPUP LOAD MEDIA Version 5.0.</p> <p>The following message will be displayed:</p> <pre>Extracting /opt Files.....</pre> <p>Any information displayed after the string of periods indicate a defective disk. Call the ROC Hotline for assistance.</p>

ATTACHMENT 1 (Continued)

SMALL OPUP SOFTWARE BUILD 5.0 INSTALLATION INSTRUCTIONS

Step	Action/Response	Comments
25.	<p>When the following message appears:</p> <pre>Please Insert OPUP Installation Disk #4, and press Return.</pre> <ul style="list-style-type: none"> <li>• Open the CD-ROM drive door.</li> <li>• Remove Disk #3 and place it in its protective sleeve.</li> <li>• Place Disk 4 into the tray.</li> <li>• Close the CD-ROM drive door.</li> <li>• Press the <b>&lt;Return&gt;</b> key.</li> </ul> <p>This takes approximately 5 to 10 minutes.</p>	<p>The system installs the software from Disk 4, OPUP LOAD MEDIA Version 5.0.</p> <p>The following message will be displayed:</p> <pre>Extracting Map Files.....</pre> <p>Any information displayed after the string of periods indicate a defective disk. Call the ROC Hotline for assistance.</p>
26.	<p>When the following message appears:</p> <pre>OPUP Installation Disk #4 Finished Loading.</pre> <pre>Please Remove OPUP Installation Disk #4, and press Return.</pre> <ul style="list-style-type: none"> <li>• Open the CD-ROM drive door.</li> <li>• Remove Disk #4 and place it in its protective sleeve.</li> <li>• Close the CD-ROM drive door.</li> <li>• Place the disks in a safe location for future use.</li> <li>• Press the <b>&lt;Return&gt;</b> key.</li> </ul> <p>The following message appears:</p> <pre>Configure Third Party Software...</pre> <p>Additional messages will be displayed for the next 5 to 10 minutes.</p>	<p>Once the system is finished loading Disk 4, various amounts of information will scroll through the display monitor.</p> <p>Additional messages will be displayed for the next 5 to 10 minutes.</p> <p>The software load process continues and will reboot and return to the CDE Login screen.</p>
27.	<p>At the CDE Login screen, in the <code>Please enter your user name</code> edit box, enter: <b>opupmgr&lt;Return&gt;</b></p>	

## ATTACHMENT 1 (Continued)

## SMALL OPUP SOFTWARE BUILD 5.0 INSTALLATION INSTRUCTIONS

Step	Action/Response	Comments
28.	At the CDE Login screen, in the Please enter your password edit box, enter: <i>opupmgr_password</i> <Return>	The opupmgr password must be exactly the same password that was assigned in step 2.  The system will advance past the login point to the CDE Front Panel when this step is completed.
29.	When the Netscape: License Agreement window appears:  Click on the <b>Accept</b> button.	
30.	In the Netscape: Password window, in the User ID: edit box, enter: <b>opupmgr</b> <Return>  The cursor will move to the Password: box.	
31.	In the Password: edit box, enter: <i>opupmgr_password</i> <Return>	The opupmgr password must be exactly the same password that was assigned in step 2.
32.	When the Netscape: OPUP Manager Start OPUP window appears:  Click on the <b>Next</b> button.	The login process will go to the next prompt.
33.	When the Netscape: OPUP Manager Add New Workstation window appears:  Scroll to the bottom of the page and click on the <b>Save</b> button.	The Small configuration does not utilize workstations. Do <u>not</u> enter any information on this page.
34.	When the Netscape: Security Warning window will appears:  Click on the <b>Show this Alert Next Time</b> check box to uncheck it.  Click on the <b>Continue Submission</b> button.	

## ATTACHMENT 1 (Continued)

## SMALL OPUP SOFTWARE BUILD 5.0 INSTALLATION INSTRUCTIONS

Step	Action/Response	Comments
35.	<p>When the Netscape: Workstation Information Complete window appears:</p> <p>Click on the <b>Next</b> button.</p> <p>A Netscape: OPUP Manager Add PUP Information window will appear.</p>	
<p><b>NOTE</b></p> <p>Refer to the software input parameters recorded in step 2 for the steps that follow.</p>		
36.	<p>In the OPUP Password Information: block, click in the first password field, enter: <i>Security_Level_1_password</i> &lt;Tab&gt;</p> <p>Using the &lt;Tab&gt; key, move through the rest of the fields. Enter all appropriate passwords and password confirmations, as required, for all three security levels.</p>	Each security level must have a unique password.
37.	<p>At the OPUP Size and Dial Line Information: block, in the Enter OPUP Size Configuration (1 for Large, 2 for Medium, 3 for Small): edit box, enter: <b>3</b>&lt;Tab&gt;</p> <p>In the Enter # of Available Dial Lines(from 1 to 8): edit box, enter: <b>1</b>&lt;Tab&gt;</p>	<p>This step selects a Small OPUP configuration.</p> <p>The Small OPUP configuration will typically use one dial line. Ensure this is correct for this configuration</p>

ATTACHMENT 1 (Continued)

SMALL OPUP SOFTWARE BUILD 5.0 INSTALLATION INSTRUCTIONS

Step	Action/Response	Comments
38.	<p>At the OPUP Product Distribution Information: <b>block</b>, in the Enter OPUP Distribution Contact Name: <b>edit box</b>, perform the following:</p> <p>Delete the current entry.</p> <p>Enter: <i>site_specific_contact_name</i>&lt;Tab&gt;</p> <p>In the Enter OPUP Distribution Contact Phone Number: <b>edit box</b>, enter: <i>phone_number</i>&lt;Tab&gt;</p>	<p>This is the POC information for NITF data. Enter the Name of the Office (i.e. Tinker Base Weather) and the telephone number. DO NOT use dashes and include an area code. DO NOT leave these fields blank!</p>
39.	<p>At the Cisco Router Passwords: <b>block</b>, in the Enter Current Router Password: <b>edit box</b>, enter:</p> <p><i>Current Router Password</i>, then</p> <p>Click in the Enter New Router Password: <b>edit box</b>, enter: <i>New Router Password</i>&lt;Tab&gt;</p> <p>In the Re-Enter Password: <b>edit box</b>, enter: <i>New Router Password</i>&lt;Tab&gt;</p> <p>In the Enter Current Enable Password: <b>edit box</b>, enter: <i>Current Enable Password</i>&lt;Tab&gt;</p> <p>In the Enter New Enable Password: <b>edit box</b>, enter: <i>New Enable Password</i>&lt;Tab&gt;</p> <p>In the Re-Enter Password: <b>edit box</b>, enter: <i>New Enable Password</i></p> <p>Click on the <b>Next</b> button.</p>	<p><b>NOTE</b></p> <p>If the current password is entered incorrectly, the Router configuration will fail in later steps.</p>

## ATTACHMENT 1 (Continued)

## SMALL OPUP SOFTWARE BUILD 5.0 INSTALLATION INSTRUCTIONS

Step	Action/Response	Comments
40.	<p>When the following message appears at the Netscape: PUP Information Entered window:</p> <p>PUP Information - has been Created</p> <p>Click on the <b>Next</b> button. Otherwise, if the following message appears:</p> <p>PUP Information not Correct</p> <ul style="list-style-type: none"> <li>• Determine which information is incorrect.</li> <li>• Click on the <b>Return to Last Screen</b> button.</li> <li>• Make the necessary corrections.</li> <li>• Restart this step.</li> </ul>	<p>If the information in step 39 was correct, the configuration process will go to the next step. If not, this step will need to be restarted after all input information has been verified to be correct.</p>
41.	<p>At the Netscape: OPUP Select Base Information window, click on the appropriate button.</p> <p>Record in the space provided in step 2.</p>	
42.	<p>At the Netscape: Select Base Installation window, in the Select Base block, highlight the applicable base name by clicking on it. (If necessary, use the scroll bar to locate the base name.) When the select base is highlighted, click on the <b>Next</b> button.</p> <p>Record in the space provided in step 2.</p>	<p>The configuration process will go to the next step.</p>

## ATTACHMENT 1 (Continued)

## SMALL OPUP SOFTWARE BUILD 5.0 INSTALLATION INSTRUCTIONS

Step	Action/Response	Comments
43.	<p>At the Netscape: OPUP Manager Create New RPG Information warning window, verify your base is correctly displayed in the middle of the window.</p> <p>If the base is correct, click on the <b>Yes</b> button.</p> <p>If the base is incorrect, click on the <b>Return to Last Screen</b> button to return to the Netscape: OPUP Manager Create New RPG Information warning window and select the correct base.</p> <p>The configuration process will go to the next step.</p>	
44.	<p>At the Netscape: Add RPG Information from list window:</p> <p>Click on the <b>Next</b> button.</p>	Each site's dial and dedicated RPGs will be configured. If more dial sites are needed after installation, contact ROC Hotline.
45.	<p>At the Netscape: RPG Information Entered window, click on the <b>Next</b> button.</p> <p>The configuration process will go to the next step.</p>	
46.	<p>At the Netscape: OPUP Manager Configure OPUP window, click on the <b>Configure OPUP</b> button and then click on the <b>Yes</b> button to confirm.</p> <p>When finished, the Netscape: OPUP Manager Configure OPUP window will display the OPUP has been Configured message.</p>	

**NOTE**

If the following message appears:

OPUP has been Configured But.....Final Cisco Router Configuration Failed. Before OPUP could be operational you must manually configure Router. Please follow the instructions, to manually configure Cisco Router.

Proceed to NWS EHB 6-538, AF TO 31P1-4-108-458-2, Table 3-8 and consult the Communication Router recovery procedure outlined in item number 5. Return to step 47, when finished.

## ATTACHMENT 1 (Continued)

## SMALL OPUP SOFTWARE BUILD 5.0 INSTALLATION INSTRUCTIONS

Step	Action/Response	Comments
47.	<p>At the Netscape: OPUP Manager Configure OPUP window:</p> <p>Click on the <b>Return to Last Screen</b> button.</p> <p>Click on the <b>OPUP Manager Main Menu</b> button.</p> <p>The OPUP Manager Main Menu will be displayed.</p>	
48.	<p>At the OPUP Manager Main Menu window, click on the <b>File</b> selection near the top left corner of the window. When the pull down menu opens, click on the <b>Exit</b> selection at the bottom of the menu.</p> <p>The OPUP Manager Main Menu closes.</p>	It is important to close this window prior to continuing to the next step in order to refresh the data supplied to this window.
49.	<p>When the following message appears at the Netscape: Question window:</p> <p>Close all windows and exit Netscape?</p> <p>Click on the <b>OK</b> button.</p> <p>The configuration process will go to the next step.</p>	
50.	At the rear of the Server UD86A2, disconnect the Cisco configuration cable from the SERIAL port.	
51.	Reconnect the UPS Serial Cable 86W4 to the Server UD86A2 SERIAL port.	
52.	At the rear of the Communications Router UD86A8, disconnect the other end of the Cisco cable from the CONSOLE port.	
53.	<p>At the CDE Front Panel, near the bottom of the screen, click on the <b>up arrow</b> located just above the <b>cpu disk</b> usage icon. When the <code>Hosts</code> pop-up menu opens, click on the <b>This Host</b> icon selection.</p> <p>A Terminal window opens and the <code>/export/home/opupmgr&gt;</code> prompt displays.</p>	

## ATTACHMENT 1 (Continued)

## SMALL OPUP SOFTWARE BUILD 5.0 INSTALLATION INSTRUCTIONS

Step	Action/Response	Comments
54.	<p>Within the Terminal window, at the <code>/export/home/opupmgr</code> prompt, enter:  <b>su&lt;Return&gt;</b></p> <p>When the <code>Password:</code> prompt appears, enter:  <code>root_password&lt;Return&gt;</code></p> <p>A # prompt will be displayed.</p>	<p>This step performs a Switch User function. The <code>root_password</code> used in this step was assigned in step 2.</p>
55.	<p>At the # prompt, enter:  <b>cd /usr/lib/powerchute&lt;Return&gt;</b></p> <p>This changes the opupmgr working directory to <code>/usr/lib/powerchute</code>.</p>	
56.	<p>At the # prompt, enter:  <b>pwd&lt;Return&gt;</b></p> <p>Verify that the feedback for the current directory is <code>/usr/lib/powerchute</code>. If not, repeat step 55.</p>	
57.	<p>At the # prompt, enter:  <b>vi powerchute.ini&lt;Return&gt;</b></p> <p>The UPS Powerchute script opens.</p>	<p>This script directs which port the emergency shutdown data will be sent from the OPUP Server OS.</p>
58.	<p>Visually locate the <code>[Ups]</code> entries (near the top of the file text) and locate the following entry:</p> <p><code>PortName = /dev/ttyb</code></p>	
59.	<p>Using the arrow keys on the keyboard, move the cursor over the <b>b</b> in the <code>/dev/ttyb</code> to highlight the <b>b</b> character.</p>	<p>Cursor is repositioned and the letter <b>b</b> is highlighted.</p>
60.	<p>Press the <b>&lt;Esc&gt;</b> key once.</p>	<p>Pressing the Escape key toggles the UNIX Text Editor VI edit mode on and off. Be sure to only press this once! An audible beep may be heard.</p>

## ATTACHMENT 1 (Continued)

## SMALL OPUP SOFTWARE BUILD 5.0 INSTALLATION INSTRUCTIONS

Step	Action/Response	Comments
61.	<p>Enter the following:</p> <p><b>ra</b></p> <p>The letter a appears immediately following <code>/dev/tty</code> so it now reads <code>/dev/ttya</code></p> <p>The following applies:</p> <ul style="list-style-type: none"> <li>• If the above information is verified to be correct, skip to step <a href="#">63</a>.</li> <li>• If an error has been made, go to the next step.</li> </ul>	<p>The r is an edit command (replace) and will replace the b with the next character entered.</p> <p>The a is written to the script.</p>
62.	<p>Perform the following, if a mistake has been made:</p> <p>Press the <b>&lt;Esc&gt;</b> key once.</p> <p>Using the keyboard, hold down the <b>&lt;Shift&gt;</b> key and press the colon “ : ” key, simultaneously.</p> <p>Enter: <b>q!&lt;Return&gt;</b></p> <p>Return to step <a href="#">57</a> and repeat the VI editing process, again.</p>	<p>This series of key strokes will exit the script and the VI editor without saving any changes.</p> <p>Pressing the <b>&lt;Esc&gt;</b> key toggles on and off the edit mode of the VI editor.</p> <p>Entering a <b>&lt;Shift&gt;:</b> (colon), simultaneously exits the edit mode and moves the cursor to the bottom of the screen next to a : (colon).</p> <p>The <b>q!&lt;Return&gt;</b> command exits the VI editor without saving.</p>
63.	<p>Press <b>&lt;Esc&gt;</b> once. Using the keyboard, hold down the <b>&lt;Shift&gt;</b> key and press the colon “ : ” key, simultaneously. At the “ : ” prompt, enter: <b>wq&lt;Return&gt;</b></p>	<p>This series of key strokes will exit the VI editor and save the script changes made.</p> <p>Pressing the <b>&lt;Esc&gt;</b> key toggles on and off the edit mode of the VI editor.</p> <p>Entering a <b>&lt;Shift&gt;:</b> (colon), exits the edit mode and moves the cursor to the bottom of the screen next to a : (colon).</p> <p>The <b>wq&lt;Return&gt;</b> quits the VI editor and saves changes.</p>

## ATTACHMENT 1 (Continued)

## SMALL OPUP SOFTWARE BUILD 5.0 INSTALLATION INSTRUCTIONS

Step	Action/Response	Comments
64.	At the # prompt, enter: <b>head -10 powerchute.ini&lt;Return&gt;</b>  The first 10 lines of the powerchute.ini file will now be displayed.	
65.	Ensure the edited PortName entry in the [Ups] section reads as follows:  PortName = /dev/ttya	If the PortName = /dev/ttya statement displays anything else than an a after the "tty", go back to step 57 and begin again.
66.	At the Server UD86A2, open the CD-ROM drive door and place the CD-ROM disk, labeled OPUP PAM + XMODEM FILE UPDATES, in the tray.  Close the CD-ROM drive door.	
67.	At the # prompt, enter: <b>mount -F hsfs -r /dev/dsk/c0t1d0s2 /mnt&lt;Return&gt;</b>	
68.	At the # prompt, enter: <b>cd /mnt&lt;Return&gt;</b>	
69.	At the # prompt, enter: <b>./install&lt;Return&gt;</b>	The # prompt will appear after approximately 10 seconds.
70.	At the # prompt, enter: <b>cd / &lt;Return&gt;</b>	
71.	At the # prompt, enter: <b>umount /mnt&lt;Return&gt;</b>	
72.	At the Server UD86A2, open the CD-ROM drive door and remove the CD-ROM disk.  <ul style="list-style-type: none"> <li>• Close the CD-ROM drive door.</li> <li>• Place the disk in the protective sleeve.</li> <li>• Place the disk in a safe location for future use.</li> </ul>	

## ATTACHMENT 1 (Continued)

## SMALL OPUP SOFTWARE BUILD 5.0 INSTALLATION INSTRUCTIONS

Step	Action/Response	Comments
73.	<p>At the # prompt, enter: <b>reboot -- -r&lt;Return&gt;</b></p> <p>The software installation process will take approximately 3 to 4 minutes to complete this procedure.</p>	<p style="text-align: center;"><b>NOTE</b></p> <p>Be sure to place a space between the reboot, "--" and "-r" entry.</p> <p>The system will perform a reboot and configure the UPS as a recognizable device attached to the Server UD86A2.</p>
74.	<p>When the CDE Login screen appears, in the Please enter your user name edit box, enter: <b>opupmgr&lt;Return&gt;</b></p>	<p>The system will advance past the login point to the CDE Front Panel.</p>
75.	<p>At the CDE Login screen, in the Please enter your password edit box, enter: <b>opupmgr_password&lt;Return&gt;</b></p>	<p>The opupmgr password must be the same password assigned in step 2.</p>
76.	<p>Click on the <b>Netscape (world) icon</b> on the far left side of the CDE Front Panel to start Netscape.</p> <p>A Netscape window opens. This takes approximately 20 to 30 seconds.</p>	
77.	<p>Click anywhere on the <b>gray background</b> area of the Netscape window to get the Netscape: Password window to display.</p> <p>Netscape: Password window opens.</p>	
78.	<p>In the Netscape: Password window, in the User ID: edit box, enter: <b>opupmgr&lt;Return&gt;</b></p>	
79.	<p>In the Password: edit box, enter: <b>opupmgr_password&lt;Return&gt;</b></p>	<p>The opupmgr password must be the same password assigned in step 2.</p> <p>The OPUP Manager Main Menu should be displayed.</p>

## ATTACHMENT 1 (Continued)

## SMALL OPUP SOFTWARE BUILD 5.0 INSTALLATION INSTRUCTIONS

Step	Action/Response	Comments
80.	<p>When the <code>OPUP Manager Main Menu</code> appears, perform the following:</p> <ul style="list-style-type: none"> <li>• Click on the <b>OPUP Software Menu</b> button.</li> <li>• Click on the <b>Start OPUP</b> button within the <code>OPUP Software Menu</code>.</li> <li>• Click on the <b>Yes</b> button at the confirmation window.</li> </ul> <p>The <code>OPUP</code> processes will take 1 to 2 minutes to start.</p>	These procedures start the <code>OPUP</code> software.
81.	<p>At the <code>Netscape: OPUP Manager Start OPUP</code> window:</p> <p>Click on the <b>Return to OPUP Software Menu</b> button.</p>	
82.	<p>Click on the <b>OPUP Process Status</b> button. An <code>OPUP Process Status</code> window will appear. Wait 1 to 2 minutes for the <code>OPUP</code> Processes to start.</p> <p>Click on the <b>Refresh</b> button as needed until all processes have started.</p> <p>When all the <code>OPUP App/Task</code> processes are started, go to the next step.</p>	Each process listed in the <code>OPUP Application and Tasks</code> section will have a <code>PID</code> (Process Identification) number assigned to each task when the process has been successfully loaded and started.
83.	<p>Click on the <b>Return to Main Menu</b> button.</p> <p><code>OPUP Manager Main Menu</code> will be displayed.</p>	
84.	<p>When the <code>OPUP Manager Main Menu</code> window appears, click on the <b>OPUP Users Menu</b> button.</p> <p>An <code>OPUP Users Menu</code> will be displayed.</p>	This menu will be used to enter a unique <code>User Name</code> and <code>Password</code> .

ATTACHMENT 1 (Continued)

SMALL OUPU SOFTWARE BUILD 5.0 INSTALLATION INSTRUCTIONS

Step	Action/Response	Comments
<p><b>NOTES</b></p> <p>Case is important for both User Name and Passwords when they are defined. Future access to both will require the exact case for each letter as entered here.</p> <p>Each user name must meet the following minimum composition requirements:</p> <ul style="list-style-type: none"> <li>• Be at least a minimum of <u>three</u> characters in length.</li> <li>• Contain at least <u>two</u> alpha characters (A through Z or a through z).</li> <li>• Contain at least <u>one</u> number (0 through 9) or one of the following special characters (!, @, %, -, +, _, {, [, #, or =).</li> </ul>		
85.	<p>Click on the <b>Add New User</b> button. Then click in the <code>User Name</code>: edit box to activate the field for text entry. Enter any combination of letters and numbers to define a unique user name.</p> <p>Enter a user name that meets the requirements stated in the note above.</p> <p>Record the User Name in the space provided in step <a href="#">2</a>.</p>	<p>A unique User Name should now be entered, verified, and recorded in the space provided in step <a href="#">2</a> of this table.</p>
<p><b>NOTE</b></p> <p>Each password must meet the following minimum composition requirements:</p> <ul style="list-style-type: none"> <li>• Be at least a minimum of <u>eight</u> characters in length.</li> <li>• Contain at least <u>one</u> UPPERCASE character (A through Z).</li> <li>• Contain at least <u>one</u> lowercase character (a through z).</li> <li>• Contain at least <u>one</u> number (0 through 9).</li> <li>• Contain at least <u>one</u> special character (!, @, %, (, -, +, {, [, #, =, &amp;, *).</li> </ul> <p>All "special" entries <u>must</u> be within the first 8 characters.</p>		

## ATTACHMENT 1 (Continued)

## SMALL OPUP SOFTWARE BUILD 5.0 INSTALLATION INSTRUCTIONS

Step	Action/Response	Comments
86.	<p>Click in the <code>Password:</code> edit window to activate the window field for text entry.</p> <p>Enter a password that meets the requirements stated in the note above.</p> <p>Click in the <code>Reenter password:</code> edit window to activate the window field for text entry and then reenter the password exactly as entered above.</p> <p>Record the password exactly as entered in this step in the space provided in step 2.</p>	<p>This step ensures that the Password and/or the User Name was not mistyped/mispelled. It should also be recorded in the space provided in step 2 of this table.</p> <p>If the password doesn't meet the security requirements, follow the on-screen instructions.</p>
87.	<p>Click on the <b>Save</b> button. When the <code>Netscape: Display User Info Entered</code> window and <code>OPUP User user_name - Successfully Created</code> message is displayed, click on the <b>Return to Main Menu</b> button.</p> <p>The User Name is displayed as part of the window title. These steps will return to the <code>OPUP Manager Main Menu</code>.</p>	
88.	<p>At the CDE Front Panel, move the mouse cursor over the <b>Netscape World</b> icon.</p>	<p>The current day, date, and time in GMT should be displayed.</p>
89.	<p>While leaving the mouse cursor over the <b>Netscape World</b> icon, inspect the day, date, and time. If the time is off by more than 1 minute, go to the next step. Otherwise, go to step 101.</p>	<p>If the day, date, and time information will not display, go to the next step.</p>
90.	<p>At the CDE Front Panel, click on the <b>up</b> arrow located just above the <b>cpu disk</b> usage icon.</p> <p>A <code>Hosts</code> pop-up menu will be displayed.</p>	
91.	<p>Click on the <b>This Host</b> icon.</p> <p>A Terminal window opens with an <code>/export/home/opupmgr&gt;</code> prompt.</p>	
92.	<p>At the <code>/export/home/opupmgr&gt;</code> prompt, enter: <b>su&lt;Return&gt;</b></p> <p>A <code>Password:</code> prompt will be displayed.</p>	

## ATTACHMENT 1 (Continued)

## SMALL OPUP SOFTWARE BUILD 5.0 INSTALLATION INSTRUCTIONS

Step	Action/Response	Comments
93.	At the <code>Password:</code> prompt, enter: <code>root_password&lt;Return&gt;</code>  A # prompt will be displayed.	
94.	At the # prompt, enter: <code>date&lt;Return&gt;</code>  The current day of the week, month, day, GMT time (hh:mm:ss), year should now be displayed.	Verify the OPUP System Time was updated.
95.	Verify that the time reported is correct using an accurate time source.	If the day and year are incorrect and/or the time is more than 1 minute off, go to the next step. Otherwise, this procedure is complete.
96.	Obtain an accurate time source (e.g. WWV 303-499-7111). At the # prompt, enter: <code>date mmddHHMM[cc][yy][.ss]</code> (Do Not press the <code>&lt;Return&gt;</code> key, yet).  Use GMT time.	Everything after the minutes entry (“MM”) is optional. However, the most accurate method to update the time is to, at a minimum, enter the HHMM.ss parameters. The following information applies:  mm= Month dd= Day HH= GMT Hour MM=Minute  Optional entries (normally not entered):  cc= Century minus 1 yy= Year ss= Seconds
97.	Using the chosen time source, press <code>&lt;Return&gt;</code> exactly at the moment that the above entered time occurs.	
98.	At the # prompt, enter: <code>date&lt;Return&gt;</code>  The OPUP System Time will be displayed.	

## ATTACHMENT 1 (Continued)

## SMALL OPUP SOFTWARE BUILD 5.0 INSTALLATION INSTRUCTIONS

Step	Action/Response	Comments
99.	<p>At the # prompt, enter: <b>exit&lt;Return&gt;</b></p> <p>An <code>/export/home/opupmgr&gt;</code> prompt will be displayed.</p>	
100.	<p>At the <code>/export/home/opupmgr&gt;</code> prompt, enter: <b>exit&lt;Return&gt;</b></p> <p>The Terminal window closes.</p>	
101.	<p>At the <code>OPUP Manager Main Menu</code> window,</p> <p>Click the <b>File</b> selection near the top left corner of the window.</p> <p>When the pull down menu opens, click the <b>Exit</b> selection at the bottom of the menu.</p>	<p>It is important to close this window prior to continuing to the next step in order to refresh the data supplied to this window.</p>
102.	<p>When the following message appears at the <code>Netscape: Question</code> window:</p> <p><code>Close all windows and exit Netscape?</code></p> <p>Click on the <b>OK</b> button.</p> <p>The <code>OPUP Manager Main Menu</code> closes.</p>	<p>The configuration process will go to the next step.</p>
103.	<p>Click on the <b>EXIT</b> button located near the bottom center of the <code>CDE Front Panel</code> and then click the <b>OK</b> button.</p> <p>The <code>CDE Login</code> screen should now be displayed.</p>	<p>This procedure exits the installer from the <code>OPUP Manager Main Menu</code> and displays the <code>CDE Login</code> screen.</p>
104.	<p>At the <code>CDE Login</code> screen, in the <code>Please enter your user name</code> edit box, enter: <code>User_name&lt;Return&gt;</code></p>	<p>Use the User Name (User ID) created in step 85. The login screen will go to the next step.</p>

## ATTACHMENT 1 (Continued)

## SMALL OPUP SOFTWARE BUILD 5.0 INSTALLATION INSTRUCTIONS

Step	Action/Response	Comments
105.	<p>At the CDE Login screen, in the <code>Please enter your password</code> edit box, enter:  <code>User_password&lt;Return&gt;</code></p>	<p>The User ID password must be exactly the same password that was entered in step 86.</p> <p>The system will advance past the login point and a choice of icons will be displayed at the Operational Applications Front Panel.</p>
106.	<p>Click on the <b>Status &amp; Control</b> icon located near the lower left corner of the Operational Applications Front Panel.</p> <p>This will take approximately 15 to 20 seconds for the map to appear.</p>	<p>A <code>Status and Control-OPUP 5.0</code> window will be displayed showing a map of the United States. For those sites in the Pacific, it will show a map of the Pacific region. For the Azores, it will show an Atlantic region map.</p>
107.	<p>At the <code>Status and Control-OPUP 5.0</code> window, verify a green dot is present on the map for your location.</p> <p>If multiple RPGs are shown, ensure at least one RPG location is communicating with the OPUP as indicated by a green dot for that location.</p>	<p>If a green dot is not present, a communication failure exists between the RPG and the OPUP.</p>
108.	<p>If a green dot is present, close the <code>Status and Control-OPUP 5.0</code> window by clicking on the double red arrows in the upper right corner.</p>	
109.	<p>At the front panel, click on the <b>Product Display</b> icon (PDGUI) located near the lower left corner of the Operational Applications Front Panel.</p>	<p>The PDGUI will have 12 individual display windows that can be selected in the next step. This will take approximately 15 to 20 seconds to load.</p>
110.	<p>In the <code>Alert Registration</code> window, click on the <b>Register Selected</b> button.</p> <p>For any <code>Alert Database Empty!</code> windows that may appear, click on the <b>OK</b> button to acknowledge and close.</p>	<p>These steps close all unnecessary display windows at this time.</p>

## ATTACHMENT 1 (Continued)

## SMALL OPUP SOFTWARE BUILD 5.0 INSTALLATION INSTRUCTIONS

Step	Action/Response	Comments
111.	<p>Choose any one of the 12 GUI windows displayed. Click on the <b>Open Product Selection Dialog</b> bar (green button located near the top center of the chosen GUI window).</p> <p>A <code>Product Selection</code> pop-up window will now be displayed.</p>	
112.	<p>Click on the <b>Category</b> button.</p> <p>Click on a WSR-88D product listed within the Drop Down Product List box.</p> <p>Click on a desired product parameter (elevation and resolution) and RPGID, then click on the <b>Apply</b> button.</p> <p>A product should now be displayed within the chosen PDGUI window.</p>	<p>The procedures within this step allows the user to select and display a specific product within the chosen display GUI window.</p>
113.	<p>Store any copies of step 2 that may have been made in a safe location.</p>	
<p><b>NOTES</b></p> <p>If a product is not displayed after completing step 112, repeat step 112 and select a different product. If products are being received, stop here. Place the OPUP in a normal operating position.</p> <p>If the associated RPG is not connected, the product may not display at this time.</p> <p>If the Small OPUP Server OS is not functioning and/or the software load procedure was not successful, immediately contact the ROC Hotline at 1-800-643-3363.</p>		
114.	<p>If a Printer UD86A12 is installed, refer to NWS EHB 6-538, AFTO 31P1-4-108-458-2, paragraph 6.6.6 to add and configure the printer.</p>	<p>The IP-address stored in the Server UD86A2 was erased when the software was loaded.</p>
115.	<p>Refer to NWS EHB 6-538, AFTO 31P1-4-108-458-2, paragraph 5.2.5 to add additional users.</p>	<p>All user names and passwords were erased when the software was loaded.</p>

ATTACHMENT 2

MEDIUM OPUP SOFTWARE BUILD 5.0 LOAD PROCEDURES

**Tools Required:**

Cisco Configuration Cable (P/N 72-3663-01)

Null Modem Adapter

**Initial Conditions:**

- Merging Adaptation Data from Software Build 4.0 to Software Build 5.0 is not possible; therefore, it is important that the adaptable parameter information is captured prior to loading Software Build 5.0. RELEASE NOTES are provided with this build to provide work-arounds to overcome this problem. Please take a few minutes to review the RELEASE NOTES provided with OPUP Software Build 5 prior to starting the Software Load Instructions.
- Ensure that all software input information described in step 2 is obtained **before** beginning with the Software Load Procedure. A software input parameter fill-in/checklist is provided for this purpose. Safeguard all IP-addresses and passwords used to complete the following software load procedure.
- Refer to EHB 6-537, AFTO 31P1-4-108-459-2, Table 3-8, item number 5, for any Communication Router UD86A8 configuration failures that may be encountered during the software installation.
- The software installation process ends with checking and/or updating (if required) the Medium OPUP system time. All time inputs are to be entered in GMT (UTC) format. Ensure that an accurate time source is available during these steps (recommended source: WWW at 303-499-7111).
- In the following procedures, when **<Return>** is printed in command lines, it means to press the **<Return>** or **<Enter>** key, whichever is appropriate.

Use the **<Delete>** key to correct typographical errors.

Step	Action/Response	Comments
1.	Obtain the following items: <ul style="list-style-type: none"><li>• OPUP LOAD MEDIA disks (4) provided in the kit and the software input configuration parameters.</li><li>• OPUP PAM + XMODEM FILE UPDATES Disk</li><li>• Cisco Configuration Cable (P/N 72-3663-01 and Null Modem Adapter)</li></ul>	

ATTACHMENT 2 (Continued)

MEDIUM OPUP SOFTWARE BUILD 5.0 LOAD PROCEDURES

Step	Action/Response	Comments
2.	<p>Fill in the input parameter data listed below:</p> <p>Root_Password: _____</p> <p>opupmgr_Password: _____</p> <p>Security Level 1 Password: _____</p> <p>Security Level 2 Password: _____</p> <p>Security Level 3 Password: _____</p> <p>Number of Dial Lines: _____</p> <p>Point of Contact Name: _____</p> <p>Point of Contact Phone Number: _____</p> <p>Current Router Password: _____</p> <p>New Router Password: _____</p> <p>Current Enable Password: _____</p> <p>New Enable Password: _____</p> <p>User Name: _____</p> <p>User Password: _____</p> <p>-----</p> <p>The following information will be displayed and is to be recorded during the software installation:</p> <p>System Type: _____</p> <p>Site Name: _____</p> <p>Network: _____</p> <p>OPUP Dataserver IP address: _____</p> <p>Cisco Router IP address: _____</p> <p>Cisco Switch IP address: _____</p>	

ATTACHMENT 2 (Continued)

MEDIUM OPUP SOFTWARE BUILD 5.0 LOAD PROCEDURES

Step	Action/Response	Comments																
2. Cont	<p>OPUP Display Server IP-Address: _____</p> <p style="text-align: center;"><b>NOTE</b></p> <p>The software shows all 10 Workstation IP-Addresses. Medium OPUP systems will only have up to three Display Workstations. It is not necessary to record the IP addresses for Display Workstations not installed.</p> <table border="0" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; width: 10%;">Workstation Number:</th> <th style="text-align: left; width: 20%;">Workstation Hostname:</th> <th style="text-align: left; width: 20%;">IP-Address</th> <th style="text-align: left; width: 50%;">Ethernet-Address</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td><b><u>Workstation1</u></b></td> <td>_____</td> <td>____ : ____ : ____ : ____ : ____</td> </tr> <tr> <td>2.</td> <td><b><u>Workstation2</u></b></td> <td>_____</td> <td>____ : ____ : ____ : ____ : ____</td> </tr> <tr> <td>3.</td> <td><b><u>Workstation3</u></b></td> <td>_____</td> <td>____ : ____ : ____ : ____ : ____</td> </tr> </tbody> </table> <p>OPUP Base to Install: _____</p> <p>Select Base Installation: _____</p>	Workstation Number:	Workstation Hostname:	IP-Address	Ethernet-Address	1.	<b><u>Workstation1</u></b>	_____	____ : ____ : ____ : ____ : ____	2.	<b><u>Workstation2</u></b>	_____	____ : ____ : ____ : ____ : ____	3.	<b><u>Workstation3</u></b>	_____	____ : ____ : ____ : ____ : ____	
Workstation Number:	Workstation Hostname:	IP-Address	Ethernet-Address															
1.	<b><u>Workstation1</u></b>	_____	____ : ____ : ____ : ____ : ____															
2.	<b><u>Workstation2</u></b>	_____	____ : ____ : ____ : ____ : ____															
3.	<b><u>Workstation3</u></b>	_____	____ : ____ : ____ : ____ : ____															
3.	<p>At each OPUP Display Workstation(s) UD85, perform the following:</p> <ul style="list-style-type: none"> <li>• If the screen saver is password protected, enter the 'root' password to override the screen saver lock.</li> <li>• If the Operational Applications Front Panel is displayed, perform the following or proceed: <ul style="list-style-type: none"> <li>•• Press the <b>Exit</b> button on the Operational Applications Front Panel (or the CDE Front Panel).</li> <li>•• When the <code>Logout Confirmation</code> window is displayed, press the <b>OK</b> button. The CDE Login screen will then be displayed.</li> </ul> </li> <li>• If the CDE Login screen is displayed: <ul style="list-style-type: none"> <li>•• Push and hold the CPU/Processor UD85A2 power button on the front panel for 5 seconds.</li> <li>•• Wait for the CPU/processor to shutdown and monitor screen to be blank before proceeding.</li> </ul> </li> </ul>	<p>Each workstation will take approximately 1 minute to perform a power off sequence. When finished, each display workstation will be in the power off position.</p>																

## ATTACHMENT 2 (Continued)

## MEDIUM OPUP SOFTWARE BUILD 5.0 LOAD PROCEDURES

Step	Action/Response	Comments
<p><b>NOTES</b></p> <p>Prior to continuing to the next two steps, locate on the keyboard, the <b>&lt;Stop&gt;</b> key (far upper left side of keyboard) and the <b>&lt;A&gt;</b> key. These keys will be utilized to interrupt the boot process. If the system proceeds through the initial boot process before it is stopped, the software load process must be restarted from step 3.</p> <p>If a prompt other than the <code>ok</code> prompt is displayed, press the <b>&lt;Return&gt;</b> key until the <code>ok</code> prompt is displayed.</p>		
4.	<p>At each OPUP Display Workstation(s) UD85, turn <b>ON</b> the CPU/processor by performing the following:</p> <ul style="list-style-type: none"> <li>• Push and release the CPU/Processor UD85A2 power button on the front panel.</li> <li>• Move to the next step immediately.</li> </ul> <p>The workstation will take approximately 1 to 2 minutes to perform a power on sequence.</p>	The power LED located just above the power button of each workstation CPU/processor will illuminate.
5.	<p>When the spinning pinwheel appears on the monitor display, simultaneously press the <b>&lt;Stop&gt;</b> and <b>&lt;A&gt;</b> keys.</p> <p>An <code>ok</code> prompt is displayed.</p>	This stops the display workstation boot sequence.
6.	<p>At each OPUP Display Workstation(s) display monitor, perform the following:</p> <ul style="list-style-type: none"> <li>• Locate the Ethernet address near the top center of the display (this address is located in the banner information, just above the <code>ok</code> prompt.)</li> <li>• When located, record the Ethernet address in the space(s) provided in step 2.</li> <li>• Repeat for each display workstation.</li> <li>• Leave each display workstation at the <code>ok</code> prompt at this time.</li> </ul>	

## ATTACHMENT 2 (Continued)

## MEDIUM OPUP SOFTWARE BUILD 5.0 LOAD PROCEDURES

Step	Action/Response	Comments
7.	<p>At the OPUP cabinet, manually place the Server UD80A11 to the <b>OFF</b> position by turning the security keyswitch on the front of the server clockwise until it stops.</p> <p>Wait 15 seconds and then turn the security keyswitch back counterclockwise until it stops.</p> <p>The green LED will turn OFF at the top right corner on the front of the Server.</p>	
<p><b>NOTES</b></p> <p>Prior to continuing to the next several steps, locate on the keyboard, the <b>&lt;Stop&gt;</b> key (far upper left side of keyboard) and the <b>&lt;A&gt;</b> key. These keys will be utilized to interrupt the boot process on the server. If the system proceeds through the initial boot process before it is stopped, the software load process must be restarted from step 7.</p> <p>If a prompt other than the {0}ok prompt is displayed, press the <b>&lt;Return&gt;</b> key until the {0}ok prompt is displayed.</p>		
8.	<p>At the Server UD80A11, turn <b>ON</b> the server by firmly pressing the power button to the right of the security keyswitch.</p> <p>A green LED comes ON at the top right corner on the front of the Server.</p>	As the Server starts to boot up, the monitor will remain blank for approximately 2 to 3 minutes.
9.	<p>When the spinning pinwheel appears on the monitor display, simultaneously press the <b>&lt;Stop&gt;</b> and <b>&lt;A&gt;</b> keys.</p> <p>An {0}ok prompt is displayed.</p>	The boot process is stopped on the server.
10.	At the Server UD80A11, open the CD-ROM drive door, place the CD-ROM, labeled OPUP LOAD MEDIA Version 5.0, Disk 1, on the tray. Close the CD-ROM drive door.	
11.	<p>At the {0}ok prompt, enter:</p> <p><b>boot cdrom&lt;Return&gt;</b></p> <p>The boot process of the server begins. This takes approximately 4 to 5 minutes.</p>	

## ATTACHMENT 2 (Continued)

## MEDIUM OPUP SOFTWARE BUILD 5.0 LOAD PROCEDURES

Step	Action/Response	Comments
12.	<p>The following message will appear:</p> <p>Choose OPUP Site to Load:</p> <pre> 1  Air_Force 2  Navy 3  Testbed 4  Overseas 5  Other </pre> <p>Enter Numeric Selection from Above, q to Quit, or ? for Help: [?,??,q]:</p> <p><i>applicable # from above</i><b>&lt;Return&gt;</b></p>	
13.	<p>When the following message appears:</p> <p>Please enter the OPUP site system ID (type 'help' for list):</p> <p>Enter: <b>help</b><b>&lt;Return&gt;</b></p> <p>Locate your six-letter OPUP site system ID and record it here. _____</p> <p>Once located: If <i>-more-</i> is displayed at the bottom of Site System ID list, press <b>q</b> to exit out of help mode and proceed to the next step. If the above message is displayed, proceed to the next step.</p>	
14.	<p>At the following message prompt:</p> <p>Please enter the OPUP site system ID (type 'help' for list):</p> <p>Enter: <b>SITEID</b> <b>&lt;Return&gt;</b></p> <p>If the site ID is entered incorrectly, you will be prompted to repeat this step.</p>	<p>Enter the site ID recorded in step 13.</p> <p>Ensure the OPUP site system ID is entered in UPPERCASE.</p>

ATTACHMENT 2 (Continued)

MEDIUM OPUP SOFTWARE BUILD 5.0 LOAD PROCEDURES

Step	Action/Response	Comments
<p><b>NOTES</b></p> <p>The following information displayed in step 15 is an example of what a site may see during the OPUP software installation process. The actual system type, site name, and IP-address information for each site will be different.</p> <p>The third IP-address octet (i.e. 10.5.74.1) is site specific. Each workstation IP-address will begin with the next successive IP-address after the OPUP Display Server IP-address (i.e. if the OPUP Display Server IP-address is 10.5.74.4, the first Display Workstation IP-address will use 10.5.74.5, the second Display Workstation will use 10.5.74.6, etc.).</p>		
<p>15.</p>	<p>When a message similar to the following appears:</p> <pre> System Type is: Testbed Site Name is: ROCNBY Network is: 10.5.74.0 ----- OPUP Dataserver IP address is: 10.5.74.1 OPUP Cisco Router IP address is: 10.5.74.2 OPUP Cisco Switch IP address is: 10.5.74.3 OPUP Display Server IP address is: 10.5.74.4 Workstation 1 IP address is: 10.5.74.5 Workstation 2 IP address is: 10.5.74.6 Workstation 3 IP address is: 10.5.74.7 ..... ..... Workstation 10 IP address is: 10.5.74.14 </pre> <p>Record the System Type, Site Name, and each IP-address displayed on the screen in the spaces provided in step 2. When finished, go to the next step.</p>	<p>There may be up to three Display Workstations for a Medium OPUP configuration. The IP-addresses will be applicable to your system.</p>

## ATTACHMENT 2 (Continued)

## MEDIUM OPUP SOFTWARE BUILD 5.0 LOAD PROCEDURES

Step	Action/Response	Comments
16.	When the following message appears:  Please Enter Password for root: Enter Password:  Enter: <i>root_password</i> <Return>	Entries will not be shown. Use assigned password from step 2.
17.	When the following message appears:  Re-Enter Password:  Enter: <i>root_password</i> <Return>	Password must be verified by entering the same password twice.  If the password entries do not match or are not valid, the request for a password will be made again.
18.	When the following message appears:  Please Enter Password for opupmgr: Enter Password:  Enter: <i>opupmgr_password</i> <Return>	Entries will not be shown. Use assigned password from step 2.
19.	When the following message appears:  Re-Enter Password:  Enter: <i>opupmgr_password</i> <Return>	Password must be verified by entering the same password twice.  If the password entries do not match or are not valid, the request for a password will be made again
<b>NOTE</b>  In the next step, if you press <b>y</b> <Return>, and the information is wrong, go back to step 7 and repeat the procedure.		

## ATTACHMENT 2 (Continued)

## MEDIUM OPUP SOFTWARE BUILD 5.0 LOAD PROCEDURES

Step	Action/Response	Comments
20.	<p>When the following message appears:</p> <pre>Do you want to continue installation with selection? Yes or No [y,n,?,q]</pre> <p>If the inputs are correct enter: <b>y &lt;Return&gt;</b></p> <p>If any information is incorrect, enter: <b>n&lt;Return&gt;</b></p> <p>The software load process will go back to step 12.</p>	<p>It is <u>critical</u> that all input information displayed in step 15 is recorded and accurate. Examine the inputs and ensure all entries are correct before proceeding to the next step.</p>
21.	<p>The software installation process will now display the following information:</p> <pre>Starting Installation.  Beginning Installation Phase 1.....</pre> <p>The software load process will take approximately 20 to 30 minutes before the information in the next step is displayed.</p>	<p>Additional information will continue to scroll on the monitor.</p> <p>The following message will be displayed:</p> <pre>Extracting /export/install Files.....</pre> <p>Any information displayed after the string of periods indicate a defective disk. Call the ROC Hotline for assistance.</p>
22.	<p>When the following message appears:</p> <pre>Installation Phase 1 complete.  Press Return to reboot and start Phase 2.</pre> <p>Press <b>&lt;Return&gt;</b></p>	<p>Initially the screen will go blank for about 30 seconds. The software load process will take approximately 3 to 4 minutes before the information in the next step is displayed.</p>
<p><b>NOTE</b></p> <p>If the incorrect CD-ROM disk is inserted, the load process will display the message <code>Incorrect Disk. No default media available.</code> The software load process will then prompt for the correct CD-ROM.</p>		

ATTACHMENT 2 (Continued)

MEDIUM OPUP SOFTWARE BUILD 5.0 LOAD PROCEDURES

Step	Action/Response	Comments
23.	<p>When the following message appears:</p> <pre>Beginning Installation Phase 2...</pre> <p>Please Insert OPUP Installation Disk #2, and press Return.</p> <ul style="list-style-type: none"> <li>• Open the CD-ROM drive door.</li> <li>• Remove Disk #1 and place it in its protective sleeve.</li> <li>• Place Disk 2 into the tray.</li> <li>• Close the CD-ROM drive door.</li> <li>• Press the <b>&lt;Return&gt;</b> key.</li> <li>• This takes approximately 20 to 30 minutes.</li> </ul>	<p>The system installs the software from Disk 2, OPUP LOAD MEDIA Version 5.0.</p> <p>The following message will be displayed:</p> <pre>Extracting /export/install Files.....</pre> <p>Any information displayed after the string of periods indicate a defective disk. Call the ROC Hotline for assistance.</p>
24.	<p>When the following message appears:</p> <pre>Please Insert OPUP Installation Disk #3, and press Return.</pre> <ul style="list-style-type: none"> <li>• Open the CD-ROM drive door.</li> <li>• Remove Disk 2 and place it in its protective sleeve.</li> <li>• Place Disk 3 into the tray.</li> <li>• Close the CD-ROM drive door.</li> <li>• Press the <b>&lt;Return&gt;</b> key.</li> <li>• This takes approximately 5 to 10 minutes.</li> </ul>	<p>The system installs the software from Disk 3, OPUP LOAD MEDIA Version 5.0.</p> <p>The following message will be displayed:</p> <pre>Extracting /opt Files.....</pre> <p>Any information displayed after the string of periods indicate a defective disk. Call the ROC Hotline for assistance.</p>

## ATTACHMENT 2 (Continued)

## MEDIUM OPUP SOFTWARE BUILD 5.0 LOAD PROCEDURES

Step	Action/Response	Comments
25.	<p>When the following message appears:</p> <pre>Please Insert OPUP Installation Disk #4, and press Return.</pre> <ul style="list-style-type: none"> <li>• Open the CD-ROM drive door.</li> <li>• Remove Disk 3 and place it in its protective sleeve.</li> <li>• Place Disk 4 into the tray.</li> <li>• Close the CD-ROM drive door.</li> <li>• Press the <b>&lt;Return&gt;</b> key.</li> <li>• This takes approximately 5 to 10 minutes.</li> </ul>	<p>The system installs the software from Disk 4, OPUP LOAD MEDIA Version 5.0.</p> <p>The following message will be displayed:</p> <pre>Extracting Map Files.....</pre> <p>Any information displayed after the string of periods indicate a defective disk. Call the ROC Hotline for assistance.</p>
26.	<p>When the following message appears:</p> <pre>OPUP Installation Disk #4 Finished Loading.</pre> <pre>Please Remove OPUP Installation Disk #4, and press Return.</pre> <ul style="list-style-type: none"> <li>• Open the CD-ROM drive door.</li> <li>• Remove Disk 4 and place it in its protective sleeve.</li> <li>• Close the CD-ROM drive door.</li> <li>• Place the disks in a safe location for future use.</li> <li>• Press the <b>&lt;Return&gt;</b> key.</li> </ul> <p>The following message appears:</p> <pre>Configure Third Party Software...</pre>	<p>Once the system is finished loading Disk 4, various amounts of information will scroll through the display monitor.</p> <p>Additional messages will be displayed for the next 5 to 10 minutes.</p> <p>The software load process continues and will reboot and return to the CDE Login screen.</p>

## ATTACHMENT 2 (Continued)

## MEDIUM OPUP SOFTWARE BUILD 5.0 LOAD PROCEDURES

Step	Action/Response	Comments
27.	<p>When the following message is displayed:</p> <p>Please use the right cable to connect the Cisco LAN Switch console port to Serial Port A on the OPUP Server.</p> <p>Press Return when ready to proceed or enter 'skip' to skip the Cisco configuration.</p> <p>Enter: <b>skip&lt;Return&gt;</b></p>	<p>The <b>skip</b> command allows the software load process to by-pass the Communication Switch UD80A18 configuration. This process can take up to 5 minutes to complete.</p>
28.	<p>At the CDE Login screen, in the Please enter your user name edit box, enter: <b>opupmgr&lt;Return&gt;</b></p>	
29.	<p>At the CDE Login screen, in the Please enter your password edit box, enter: <i>opupmgr_password&lt;Return&gt;</i></p> <p>The system will advance past the login point to the CDE Front Panel when this step is complete.</p>	<p>The opupmgr password must be exactly the same password that was assigned in step <a href="#">2</a>.</p>
30.	<p>When the Netscape: License Agreement window appears:</p> <p>Click on the <b>Accept</b> button.</p>	
31.	<p>In the Netscape: Password window, in the User ID: edit box, enter: <b>opupmgr&lt;Return&gt;</b></p>	<p>The configuration process will go to the next step.</p>
32.	<p>In the Password: edit window, enter: <i>opupmgr_password&lt;Return&gt;</i></p>	<p>The opupmgr password must be exactly the same password that was assigned in step <a href="#">2</a>.</p>
33.	<p>When the Netscape: OPUP Manager Start OPUP window appears:</p> <p>Click on the <b>Next</b> button.</p>	<p>The login process will go to the next prompt.</p>

## ATTACHMENT 2 (Continued)

## MEDIUM OPUP SOFTWARE BUILD 5.0 LOAD PROCEDURES

Step	Action/Response	Comments
34.	At the Netscape: OPUP Manager Add New Workstation window: scroll to the bottom of the display screen and click on the <b>Save</b> button.	The Display Workstations will be added later in the procedure.
35.	When the Netscape: Security Warning window appears,  <ul style="list-style-type: none"> <li>• Click on the <b>Show this Alert Next Time</b> check box to uncheck it.</li> <li>• Click on the <b>Continue Submission</b> button.</li> </ul>	
36.	When the Netscape: Workstation Information Complete window message:  All 0 Entered Workstation are now Created.  Click on the <b>Next</b> button.  The Netscape: OPUP Manager Add PUP Information window will now appear.	
<b>NOTE</b>  Refer to the software input parameters recorded in step 2 for the steps that follow.		
37.	In the OPUP Password Information: block, click in the first password field, enter: <i>Security Level_1_password &lt;Tab&gt;</i>  Using the <b>&lt;Tab&gt;</b> key, move through the rest of the fields. Enter all appropriate passwords and password confirmations, as required, for all three security levels.	Each security level must have a unique password.
38.	At the OPUP Size and Dial Line Information: block, in the Enter OPUP Size Configuration (1 for Large, 2 for Medium, 3 for Small): edit box, enter: <b>2&lt;Tab&gt;</b>	This step selects a Medium OPUP configuration.

ATTACHMENT 2 (Continued)

MEDIUM OPUP SOFTWARE BUILD 5.0 LOAD PROCEDURES

Step	Action/Response	Comments
39.	<p>At the Enter # of Available Dial Lines (1 to 8) : edit box,  enter:  <i>Appropriate number of dial lines</i>&lt;Tab&gt;</p>	<p>The Medium OPUP configuration can use up to 8 dial lines. Ensure this is correct for this configuration</p>
40.	<p>At the OPUP Product Distribution Information: block, in the Enter OPUP Distribution Contact Name edit box, perform the following:</p> <ul style="list-style-type: none"> <li>• Delete the current entry.</li> </ul> <p>Enter:  <i>site specific contact name</i>&lt;Tab&gt;</p> <p>In the Enter OPUP Distribution Contact Phone Number: edit box,  enter:  <i>phone number</i>&lt;Tab&gt;</p>	<p>This is the POC information for NITF data. Enter the Name of the Office (i.e. Tinker Base Weather) and the telephone number. DO NOT use dashes and include an area code. DO NOT leave these fields blank!</p>

ATTACHMENT 2 (Continued)

MEDIUM OPUP SOFTWARE BUILD 5.0 LOAD PROCEDURES

Step	Action/Response	Comments
41.	<p>At the Cisco Router Passwords: block, in the Enter Current Router Password: edit box, enter: <i>Current Router Password</i>, then</p> <p>Click in the Enter New Router Password: edit box and enter: <i>New Router Password</i>&lt;Tab&gt;</p> <p>In the Re-Enter Password: edit box, enter: <i>New Router Password</i>&lt;Tab&gt;</p> <p>In the Enter Current Enable Password: edit box, enter: <i>Current Enable Password</i>&lt;Tab&gt;</p> <p>In the Enter New Enable Password: edit box, enter: <i>New Enable Password</i>&lt;Tab&gt;</p> <p>In the Re-Enter Password: edit box, enter: <i>New Enable Password</i></p> <p>Click on the <b>Next</b> button.</p>	<p style="text-align: center;"><b>NOTE</b></p> <p>If the current router password is entered incorrectly, the router configuration will fail in later steps.</p>

## ATTACHMENT 2 (Continued)

## MEDIUM OPUP SOFTWARE BUILD 5.0 LOAD PROCEDURES

Step	Action/Response	Comments
42.	<p>If the following message appears at the Netscape: PUP Information Entered window:</p> <p>PUP Information - has been Created</p> <p>Click on the <b>Next</b> button and continue to the next step.</p> <p>Otherwise, if the following message appears:</p> <p>PUP Information not Correct</p> <ul style="list-style-type: none"> <li>• Determine which information is incorrect.</li> <li>• Click on the <b>Return to Last Screen</b> button.</li> <li>• Make the necessary corrections.</li> </ul>	<p>If the information in step 43 is correct the configuration process will go to the next step. If not, step 43 will need to be repeated after all input information has been verified to be correct.</p>
43.	<p>At the Netscape: OPUP Select Base Information window, click on the appropriate button.</p> <p>Record the base in the space provided in step 2.</p>	
44.	<p>At the Netscape: Select Base Installation window, in the Select Base block, highlight the applicable base name by clicking on it. (If necessary, use the scroll bar to locate the base name.) When the select base is highlighted, click on the <b>Next</b> button.</p> <p>Record the base in the space provided in step 2.</p>	<p>The configuration process will go to the next step.</p>
45.	<p>At the Netscape: OPUP Manager Create New RPG Information warning window, verify your base is correctly displayed in the middle of the window.</p> <p>If the base is correct, click on the <b>Yes</b> button.</p> <p>If the base is incorrect, click on the <b>Return to Last Screen</b> button to return to the Netscape: OPUP Manager Create New RPG Information warning window and select the correct base.</p>	<p>The configuration process will go to the next step.</p>

## ATTACHMENT 2 (Continued)

## MEDIUM OPUP SOFTWARE BUILD 5.0 LOAD PROCEDURES

Step	Action/Response	Comments
46.	At the Netscape: Add RPG Information from list window, perform the following:  Click on the <b>Next</b> button.	Each site's dial and dedicated RPGs will be configured. If more dial sites are needed after installation, contact ROC Hotline.
47.	At the Netscape: RPG Information Entered window, click on the <b>Next</b> button.	The configuration process will go to the next step.
48.	Perform the following steps to connect the Cisco cable, part number 72-3663-01, to the Communication Router UD80A3:  <ul style="list-style-type: none"> <li>• Connect the RJ45 end of Cisco cable to the CON port at the front of the Communication Router.</li> <li>• Connect the other end of the Cisco cable to a Null Modem adapter.</li> <li>• Connect the Null Modem adapter to the Serial Port A connector on the rear of the Server UD80A11.</li> </ul>	
49.	At the Netscape: OPUP Manager Configure OPUP window, click on the <b>Configure OPUP</b> button and then click on the <b>Yes</b> button to confirm.	When finished, a Netscape: OPUP Manager Configure OPUP window will be displayed with an OPUP has been Configured message.
<p><b>NOTE</b></p> <p>If the following message appears:</p> <p>OPUP has been Configured But.....Final Cisco Router Configuration Failed. Before OPUP could be operational you must manually configure Router. Please follow the instructions, to manually configure Cisco Router.</p> <p>Proceed to NWS EHB 6-537, AFTO 31P1-4-108-459-2, Table 3-11, Software Installation Recovery Procedures, and consult the Communication Router recovery procedure outlined in item number 6. Return to step 47, when finished.</p>		
50.	At the front of the Communication Router UD80A3, unplug the Cisco configuration cable from the CON port.	

## ATTACHMENT 2 (Continued)

## MEDIUM OPUP SOFTWARE BUILD 5.0 LOAD PROCEDURES

Step	Action/Response	Comments
51.	Connect the RJ45 end of the Cisco configuration cable to the CONSOLE port on the rear of the Communications Switch UD80A18.	This cable will be used to configure the communications switch.
52.	<p>At the Netscape: OPUP Manager Configure OPUP window:</p> <p>Click on the <b>Return to Last Screen</b> button.</p> <p>Click on the <b>OPUP Manager Main Menu</b> button.</p> <p>The OPUP Manager Main Menu will be displayed</p>	
53.	<p>At the OPUP Manager Main Menu, click on the <b>OPUP Workstation Menu</b> button.</p> <p>A Netscape: OPUP Workstation Menu window appears.</p>	
54.	<p>Click on the <b>Add New Workstation</b> button.</p> <p>A Netscape: OPUP Manager Add New Workstation window appears</p>	
55.	<p>At the Workstation Number: area, click in the first Workstation Hostname: edit box, and enter: <b>Workstation1&lt;Tab&gt;</b></p> <p>At the IP-Address: edit box, enter: <b>Workstation1 IP-Address&lt;Tab&gt;</b></p> <p>At the Ethernet-Address: edit box, enter: <b>Workstation1 Ethernet-Address&lt;Tab&gt;</b></p> <p>Repeat the above steps for each workstation installed at your site.</p> <p>When the above information has been <b>verified</b> to be correct, scroll to the bottom of the display screen and click on the <b>Save</b> button.</p>	Refer to step 2 for the recorded Workstation Hostname, IP-Address, and Ethernet-Address for each workstation.

## ATTACHMENT 2 (Continued)

## MEDIUM OPUP SOFTWARE BUILD 5.0 LOAD PROCEDURES

Step	Action/Response	Comments
56.	<p>When the Netscape: Workstation Information Complete window appears that displays the message:</p> <p>All # Entered Workstation are now Created (where # is the number of workstations installed).</p> <p>Click on the <b>Return to Main Menu</b> button.</p> <p>The OPUP Manager Main Menu appears</p>	
57.	<p>At the OPUP Manager Main Menu window,</p> <p>Click the <b>File</b> selection near the top left corner of the window.</p> <p>When the pull down menu opens, click the <b>Exit</b> selection at the bottom of the menu.</p>	
58.	<p>When the following message appears at the Netscape: Question window:</p> <p>Close all windows and exit Netscape?</p> <p>Click on the <b>OK</b> button.</p>	
59.	<p>At the CDE Front Panel, near the bottom of the screen, click on the <b>up arrow</b> located just above the <b>cpu disk</b> usage icon. When the Hosts pop-up menu opens, click on the <b>This Host</b> icon selection.</p> <p>A Terminal window opens with an <code>/export/home/opupmgr&gt;</code> prompt.</p>	
60.	<p>Within the Terminal window, at the <code>/export/home/opupmgr</code> prompt, enter: <b>su&lt;Return&gt;</b></p> <p>When the Password: prompt appears, enter: <code>root_password&lt;Return&gt;</code></p> <p>A # prompt will be displayed.</p>	<p>This step performs a switch to Super User function. The root_password used in this step was assigned in step <a href="#">2</a>.</p>

## ATTACHMENT 2 (Continued)

## MEDIUM OPUP SOFTWARE BUILD 5.0 LOAD PROCEDURES

Step	Action/Response	Comments
61.	<p>At the Server UD80A11, open the CD-ROM drive door and place the CD-ROM disk, labeled OPUP PAM + XMODEM FILE UPDATES, in the tray.</p> <p>Close the CD-ROM drive door.</p>	
62.	<p>At the # prompt, enter: <b>mount -F hsfs -r /dev/dsk/c0t6d0s2 /mnt&lt;Return&gt;</b></p>	
63.	<p>At the # prompt, enter: <b>cd /mnt&lt;Return&gt;</b></p>	
64.	<p>At the # prompt, enter: <b>./install&lt;Return&gt;</b></p>	The # prompt will appear after approximately 5 seconds.
65.	<p>At the # prompt, enter: <b>cd / &lt;Return&gt;</b></p>	
66.	<p>At the # prompt, enter: <b>umount /mnt&lt;Return&gt;</b></p>	
67.	<p>At the Server UD80A11, open the CD-ROM drive door and remove the CD-ROM disk.</p> <ul style="list-style-type: none"> <li>• Close the CD-ROM drive door.</li> <li>• Place the disk in the protective sleeve.</li> <li>• Place the disk in a safe location for future use.</li> </ul>	
68.	<p>Click on the <b>EXIT</b> button on the CDE Front Panel and then click on the <b>OK</b> button in the Logout Confirmation window.</p>	This step exits the installer from the OPUP Manager Main Menu and displays the CDE Login screen.
69.	<p>When the CDE Login screen appears, in the Please enter your user name edit box, enter: <b>opupmgr&lt;Return&gt;</b></p>	

## ATTACHMENT 2 (Continued)

## MEDIUM OPUP SOFTWARE BUILD 5.0 LOAD PROCEDURES

Step	Action/Response	Comments
70.	<p>At the CDE Login screen, in the Please enter your password edit box, enter: <i>opupmgr_password</i>&lt;Return&gt;</p> <p>The system will advance past the login point to the CDE Front Panel.</p>	The opupmgr password must be the same password assigned in step 2.
71.	<p>Click on the <b>Netscape World</b> icon on the far left side of the CDE Front Panel to start Netscape.</p> <p>A Netscape: window opens.</p>	This takes approximately 20 to 30 seconds.
72.	Click anywhere on the <b>gray background</b> area of the Netscape: window to get the Netscape: Password window to display.	
73.	<p>In the Netscape: Password window, in the User ID: edit box, enter: <b>opupmgr</b>&lt;Return&gt;</p>	
74.	<p>In the Password: edit box, enter: <i>opupmgr_password</i>&lt;Return&gt;</p> <p>The OPUP Manager Main Menu will be displayed.</p>	The opupmgr password must be the same password assigned in step 2.
75.	<p>At each OPUP Display Workstation(s) UD85, perform the following at the ok prompt, enter: <b>boot net - install</b>&lt;Return&gt;</p> <p style="text-align: center;"><b>NOTES</b></p> <p>Ensure the above command is performed at all Display Workstations.</p> <p>Do not continue with procedure until all Display Workstations display the CDE Login screen.</p>	<p>This step ensures that each display workstation is selected and uses a command to invoke Jumpstart software package which initiates an automatic software installation routine.</p> <p>This installation will take approximately 75 minutes per display workstation. When finished, the display workstation CDE Login screen will be displayed.</p> <p style="text-align: center;"><b>NOTE</b></p> <p>If an {0}ok prompt reappears, press &lt;Return&gt;, then repeat step 75.</p>

## ATTACHMENT 2 (Continued)

## MEDIUM OPUP SOFTWARE BUILD 5.0 LOAD PROCEDURES

Step	Action/Response	Comments
76.	<p>At the OPUP cabinet, with the OPUP Manager Main Menu displayed, perform the following</p> <ul style="list-style-type: none"> <li>• Click on the <b>OPUP Software Menu</b> button.</li> <li>• Click on the <b>Start OPUP</b> button within the OPUP Software Menu.</li> <li>• Click on the <b>Yes</b> button at the confirmation window.</li> </ul>	This will start the OPUP software.
77.	<p>At the Netscape: OPUP Manager Start OPUP window:</p> <p>Click on the <b>Return to OPUP Software Menu</b> button.</p>	
78.	<p>Click on the <b>OPUP Process Status</b> button. An OPUP Process Status window will appear. Wait 1 to 2 minutes for the OPUP Processes to start.</p> <p>Click on the <b>Refresh</b> button, as needed, until all processes have started.</p> <p>When all the OPUP App/Task processes are started, go to the next step.</p>	<p>Each program listed in this window will have a PID (Process Identification) number assigned to each task if the program has been successfully loaded and started.</p> <p>The OPUP GUI Application window will be blank.</p>
79.	Click on the <b>Return To Main Menu</b> button.	The OPUP Manager Main Menu will be displayed.
80.	<p>At the OPUP Manager Main Menu window, click on the <b>OPUP Users Menu</b> button.</p> <p>An OPUP Users Menu will be displayed.</p>	The menu will go to the next step. This menu will be used to enter a unique User Name and Password.

## ATTACHMENT 2 (Continued)

## MEDIUM OPUP SOFTWARE BUILD 5.0 LOAD PROCEDURES

Step	Action/Response	Comments
<p style="text-align: center;"><b>NOTE</b></p> <p>Case is important for both User Name and Passwords when they are defined. Future access to both will require the exact case for each letter as entered here.</p> <p>Each user name must meet the following minimum composition requirements:</p> <ul style="list-style-type: none"> <li>• Be at least a minimum of <u>three</u> characters in length.</li> <li>• Contain at least <u>two</u> alpha characters (A through Z or a through z).</li> <li>• Contain at least <u>one</u> number (0 through 9) or one of the following special characters (!, @, %, -, +, _, {, [, #, or =).</li> </ul>		
81.	<p>Click on the <b>Add New User</b> button. Then click on the <code>User Name</code>: edit box to activate the field for text entry. Enter any combination of letters and numbers to define a unique user name.</p> <p>Enter a user name that meets the requirements in the note above.</p> <p>Record the User Name in the space provided in step <a href="#">2</a>.</p>	<p>A unique User Name should now be entered, verified, and recorded in the space provided in step <a href="#">2</a> of these instructions.</p>
<p style="text-align: center;"><b>NOTE</b></p> <p>Each password must meet the following minimum composition requirements:</p> <ul style="list-style-type: none"> <li>• Be at least a minimum of <u>eight</u> characters in length.</li> <li>• Contain at least <u>one</u> UPPERCASE character (A through Z).</li> <li>• Contain at least <u>one</u> lowercase character (a through z).</li> <li>• Contain at least <u>one</u> number (0 through 9).</li> <li>• Contain at least <u>one</u> special character (!, @, %, (, -, +, {, [, #, =, &amp;, *).</li> </ul> <p>All "special" entries must be within the first 8 characters.</p>		

## ATTACHMENT 2 (Continued)

## MEDIUM OPUP SOFTWARE BUILD 5.0 LOAD PROCEDURES

Step	Action/Response	Comments
82.	<p>Click on the <code>Password: edit</code> window to activate the window field for text entry and enter the password for the user.</p> <p>Enter a password that meets the requirements in the note above.</p> <p>Click in the <code>Reenter password: edit</code> window to activate the window field for text entry and then reenter the password exactly as entered above.</p> <p>Record the password exactly as entered in this step in the space provided in step 2.</p>	<p>This step ensures that the Password is not mistyped/misspelled. It should also be recorded in the space provided in step 2 of these instructions.</p> <p>If the password doesn't meet the security requirements, follow the on-screen instructions.</p>
83.	<p>Click on the <b>Save</b> button. When the <code>Netscape: Display User Info Entered</code> window and <code>OPUP User user_name - Successfully Created</code> message is displayed, click on the <b>Return To Main Menu</b> button.</p>	<p>The User Name is displayed as part of the window title. These steps will return to the OPUP Manager Main Menu.</p>
84.	<p>At the CDE Front Panel, move the mouse cursor over the <b>Netscape World</b> icon.</p>	<p>The current day, date, and time in GMT should be displayed.</p>
85.	<p>While leaving the mouse cursor over the <b>Netscape World</b> icon, inspect the day, date, and time. If the time is off by more than 1 minute, go to the next step. Otherwise, go to step 96.</p>	<p>If the day, date, and time information will not display, go to the next step.</p>
86.	<p>Within the CDE Front Panel, click on the <b>up</b> arrow located just above the <b>cpu disk</b> icon.</p>	<p>A <code>Hosts</code> pop-up menu will then be displayed.</p>
87.	<p>Click on the <b>This Host</b> icon.</p> <p>A Terminal window opens with an <code>/export/home/opupmgr&gt;</code> prompt.</p>	
88.	<p>At the <code>/export/home/opupmgr&gt;</code> prompt, enter: <b>su&lt;Return&gt;</b></p> <p>A <code>Password:</code> prompt will be displayed.</p>	
89.	<p>At the <code>Password:</code> prompt, enter: <code>root_password&lt;Return&gt;</code></p> <p>A <code>#</code> prompt will be displayed.</p>	

## ATTACHMENT 2 (Continued)

## MEDIUM OPUP SOFTWARE BUILD 5.0 LOAD PROCEDURES

Step	Action/Response	Comments
90.	At the # prompt, enter: <b>date&lt;Return&gt;</b>	The current day of the week, month, day, time (hh:mm:ss), GMT, year should be displayed.
91.	Obtain an accurate time source (e.g. WWV 303-499-7111). At the # prompt, enter: <b>date mmddHHMM[cc][yy][.ss]</b> (Do Not press the <b>&lt;Return&gt;</b> key, yet).  Use GMT time.	Everything after the minutes entry ("MM") is optional. However, the most accurate method to update the time is to, at a minimum, enter the HHMM.ss parameters. The following information applies:  mm= Month dd= Day HH= GMT Hour MM=Minute  Optional entries (normally not entered):  cc= Century minus 1 yy= Year ss= Seconds
92.	Using the chosen time source, press <b>&lt;Return&gt;</b> exactly at the moment that the above entered time occurs.	
93.	At the # prompt enter: <b>date&lt;Return&gt;</b>	Verify the OPUP System Time was updated.
94.	At the # prompt, enter: <b>exit&lt;Return&gt;</b>  An <code>/export/home/opupmgr&gt;</code> prompt will be displayed.	
95.	At the <code>/export/home/opupmgr&gt;</code> prompt, enter: <b>exit&lt;Return&gt;</b>	The Terminal window closes.  The CDE Front Panel will be displayed.

## ATTACHMENT 2 (Continued)

## MEDIUM OPUP SOFTWARE BUILD 5.0 LOAD PROCEDURES

Step	Action/Response	Comments
96.	Go to one of the Display Workstations UD85. Ensure that the CDE Login screen is displayed before going to the next step.	Each display workstation is connected to the Medium OPUP via CAT5 cable. Each workstation was added during step 55.
97.	At a Display Workstation CDE Login screen, in the <code>Please enter your user name</code> in the edit box, enter:  <i>User_name</i> <Return>	Use the User Name created in step 81. The login screen will go to the next step.
98.	At the Display Workstation CDE Login screen, in the <code>Password</code> edit box, enter:  <i>User_password</i> <Return>	The user password must be exactly the same password that was entered in step 82.  The system will advance past the login point to the OPUP Operational Applications Front Panel GUI Suite. A choice of icons will be displayed at the Front Panel.
99.	Click on the <b>Status &amp; Control</b> icon located near the lower left corner of the Operational Applications Front Panel.  This will take approximately 15 to 20 seconds for the map to appear.	A <code>Status and Control-OPUP 5.0</code> window will be displayed showing a map of the United States. For those sites in the Pacific, it will show a map of the Pacific region.
100.	At the <code>Status and Control-OPUP 5.0</code> window, verify a green dot is present on the map for your location.  If multiple RPGs are shown, ensure at least one RPG location is communicating with the OPUP as indicated by a green dot for that location.	If a green dot is not present, a communication failure exists between the RPG and the OPUP.
101.	If green dots are present, close the <code>Status and Control-OPUP 5.0</code> window by clicking on the <b>Double Red Arrows</b> in the upper right corner.	
102.	At the Operational Applications Front Panel, click on the <b>Product Display</b> icon located near the lower left corner of the Front Panel.  This will take approximately 15 to 20 seconds and two windows will appear.	The Product Display GUI will have 12 individual display windows that can be selected in the next step.

## ATTACHMENT 2 (Continued)

## MEDIUM OPUP SOFTWARE BUILD 5.0 LOAD PROCEDURES

Step	Action/Response	Comments
103.	<p>In the <code>Alert Registration</code> window, click on the <b>Register Selected</b> button.</p> <p>For any <code>Alert Database Empty!</code> windows that may appear, click on the <b>OK</b> button to acknowledge and close.</p>	These steps close all unnecessary display windows at this time.
104.	<p>Choose any one of the 12 GUI windows displayed and then click on the <b>Open Product Selection Dialog</b> bar (green button located near the top center of the chosen GUI window).</p> <p>A <code>Product Selection</code> pop-up window will now be displayed.</p>	
105.	<p>Click on the <b>Category</b> button.</p> <p>Click on a WSR-88D product listed within the Drop Down Product List box.</p> <p>Click on a desired product parameter (elevation and resolution) and RPGID, then click on the <b>Apply</b> button.</p>	<p>The procedures within this step allows the user to select and display a specific product within the chosen display GUI window.</p> <p>A product should be displayed within the chosen PDGUI window.</p>
106.	Store any copies of step 2 that may have been made in a safe location.	Entries in step 2 contain password information that must be kept from being compromised.
107.	If a printer is installed, refer to NWS EHB 6-537, AFTO 31P1-4-108-459-2, paragraph 6.6.7 to add and configure the printer.	
108.	Refer to NWS EHB 6-537, AFTO 31P1-4-108-459-2, paragraph 5.2.5 to add additional users.	
109.	Proceed to <a href="#">ATTACHMENT 4</a> to configure the Communications Switch UD80A18.	

ATTACHMENT 2 (Continued)

MEDIUM OPUP SOFTWARE BUILD 5.0 LOAD PROCEDURES

Step	Action/Response	Comments
<p style="text-align: center;"><b>NOTES</b></p> <p>If a product is not displayed after completing step <a href="#">105</a>, repeat step <a href="#">105</a> and select a different product. If products are being received, stop here and proceed to <a href="#">ATTACHMENT 4</a>. Place the OPUP in a normal operating position.</p> <p>If the associated RPG is not connected, the product may not display at this time.</p> <p>If the Medium OPUP Server OS is not functioning and/or the software load procedure was not successful, immediately contact the ROC Hotline at 1-800-643-3363 for further assistance.</p>		

ATTACHMENT 3

LARGE OPUP SOFTWARE BUILD 5.0 INSTALLATION INSTRUCTIONS

**Tools Required:**

Cisco Configuration Cable (part number 72-3663-01)

Null Modem Adapter

**Initial Conditions:**

- Merging Adaptation Data from Software Build 4.0 to Software Build 5.0 is not possible; therefore, it is important that the adaptable parameter information is captured prior to loading Software Build 5.0. RELEASE NOTES are provided with this build to provide work-arounds to overcome this problem. Please take a few minutes to review the RELEASE NOTES provided with OPUP Software Build 5 prior to starting the Software Load Instructions.
- Ensure that all software input information described in step 2 is obtained **before** beginning with the Software Load Procedure. A software input parameter fill-in/checklist is provided for this purpose. Safeguard all IP-addresses and passwords used to complete the following software load procedure.
- Refer to EHB 6-537, AFTO 31P1-4-108-459-2, Table 3-11, item number 6, for any Communication Router UD86A8 configuration failures that may be encountered during the software installation.
- The software installation process ends with checking and/or updating (if required) the Large OPUP system time. All time inputs are to be entered in GMT (UTC) format. Ensure that an accurate time source is available during these steps (recommended source: WWW at 303-499-7111).
- In the following procedures, when **<Return>** is printed in command lines, it means to press the **<Return>** or **<Enter>** key, whichever is appropriate.

Use the **<Delete>** key to correct typographical errors.

Step	Action/Response	Comments
1.	Obtain the following items: <ul style="list-style-type: none"> <li>• OPUP LOAD MEDIA disks (4) provided in the kit and the software input configuration parameters.</li> <li>• OPUP PAM + XMODEM FILE UPDATES Disk</li> <li>• Cisco Configuration Cable (P/N 72-3663-01 and Null Modem Adapter)</li> </ul>	Ensure all information is accurate and up-to-date before continuing to the next step.

ATTACHMENT 3 (Continued)

LARGE OPUP SOFTWARE BUILD 5.0 INSTALLATION INSTRUCTIONS

Step	Action/Response	Comments
2.	<p>Fill in the input parameter data listed below:</p> <p>Root_Password: _____</p> <p>opupmgr_Password: _____</p> <p>Security Level 1 Password: _____</p> <p>Security Level 2 Password: _____</p> <p>Security Level 3 Password: _____</p> <p>Number of Dial Lines: _____</p> <p>Point of Contact Name: _____</p> <p>Point of Contact Phone Number: _____</p> <p>Current Cisco Router Password: _____</p> <p>New Cisco Router Password: _____</p> <p>Current Cisco Enable Password: _____</p> <p>New Cisco Enable Password: _____</p> <p>User Name: _____</p> <p>User Password: _____</p> <p>-----</p> <p>The following information will be displayed and is to be recorded during the software installation:</p> <p>System Type: _____</p> <p>Site Name: _____</p> <p>Network: _____</p> <p>OPUP Dataserver IP address: _____</p> <p>Cisco Router IP address: _____</p> <p>Cisco Switch IP address: _____</p>	

ATTACHMENT 3 (Continued)

LARGE OPUP SOFTWARE BUILD 5.0 INSTALLATION INSTRUCTIONS

Step	Action/Response	Comments																																												
2. Cont.	<p>Display Server Hostname: <u>  <b>opup1server2</b>  </u></p> <p>OPUP Display Server IP-Address: _____</p> <p>OPUP Display Server Ethernet-Address: _____</p> <table border="0" data-bbox="289 646 1401 1409"> <thead> <tr> <th data-bbox="289 646 446 716">Workstation Number:</th> <th data-bbox="532 646 690 716">Workstation Hostname:</th> <th data-bbox="784 680 933 716">IP-Address</th> <th data-bbox="1068 680 1295 716">Ethernet-Address</th> </tr> </thead> <tbody> <tr> <td>1:</td> <td><b><u>Workstation1</u></b></td> <td>_____</td> <td>____:____:____:____:____</td> </tr> <tr> <td>2:</td> <td><b><u>Workstation2</u></b></td> <td>_____</td> <td>____:____:____:____:____</td> </tr> <tr> <td>3:</td> <td><b><u>Workstation3</u></b></td> <td>_____</td> <td>____:____:____:____:____</td> </tr> <tr> <td>4:</td> <td><b><u>Workstation4</u></b></td> <td>_____</td> <td>____:____:____:____:____</td> </tr> <tr> <td>5:</td> <td><b><u>Workstation5</u></b></td> <td>_____</td> <td>____:____:____:____:____</td> </tr> <tr> <td>6:</td> <td><b><u>Workstation6</u></b></td> <td>_____</td> <td>____:____:____:____:____</td> </tr> <tr> <td>7:</td> <td><b><u>Workstation7</u></b></td> <td>_____</td> <td>____:____:____:____:____</td> </tr> <tr> <td>8:</td> <td><b><u>Workstation8</u></b></td> <td>_____</td> <td>____:____:____:____:____</td> </tr> <tr> <td>9:</td> <td><b><u>Workstation9</u></b></td> <td>_____</td> <td>____:____:____:____:____</td> </tr> <tr> <td>10:</td> <td><b><u>Workstation10</u></b></td> <td>_____</td> <td>____:____:____:____:____</td> </tr> </tbody> </table> <p>OPUP Base to Install: _____</p> <p>Select Base Installation: _____</p>	Workstation Number:	Workstation Hostname:	IP-Address	Ethernet-Address	1:	<b><u>Workstation1</u></b>	_____	____:____:____:____:____	2:	<b><u>Workstation2</u></b>	_____	____:____:____:____:____	3:	<b><u>Workstation3</u></b>	_____	____:____:____:____:____	4:	<b><u>Workstation4</u></b>	_____	____:____:____:____:____	5:	<b><u>Workstation5</u></b>	_____	____:____:____:____:____	6:	<b><u>Workstation6</u></b>	_____	____:____:____:____:____	7:	<b><u>Workstation7</u></b>	_____	____:____:____:____:____	8:	<b><u>Workstation8</u></b>	_____	____:____:____:____:____	9:	<b><u>Workstation9</u></b>	_____	____:____:____:____:____	10:	<b><u>Workstation10</u></b>	_____	____:____:____:____:____	
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ATTACHMENT 3 (Continued)

LARGE OPUP SOFTWARE BUILD 5.0 INSTALLATION INSTRUCTIONS

Step	Action/Response	Comments
3.	<p>At each OPUP Display Workstation(s) UD85, perform the following:</p> <ul style="list-style-type: none"> <li>• If the screen saver is password protected, enter the 'root' password to override the screen saver lock.</li> <li>• If the Operational Applications Front Panel is displayed, perform the following or proceed:               <ul style="list-style-type: none"> <li>•• Press the <b>EXIT</b> button on the Operational Applications Front Panel (or CDE Front Panel if the Workstation is new).</li> <li>•• When the <code>Logout Confirmation</code> window is displayed, click on the <b>OK</b> button. The CDE Login screen will then be displayed.</li> </ul> </li> <li>• If the CDE Login screen is displayed:               <ul style="list-style-type: none"> <li>•• Push and hold the CPU/Processor UD85A2 power button on the front panel for 5 seconds.</li> </ul> </li> <li>• Wait for the CPU/processor to shutdown and the monitor screen to go blank/black before proceeding.</li> </ul>	<p>Each workstation will take approximately 1 minute to perform a power off sequence. When finished, each display workstation will be in the power off position.</p>
<p style="text-align: center;"><b>NOTES</b></p> <p>Prior to continuing to the next two steps, locate on the keyboard, the <b>&lt;Stop&gt;</b> key (far upper left side of keyboard) and the <b>&lt;A&gt;</b> key. These keys will be utilized to interrupt the boot process. If the system proceeds through the initial boot process before it is stopped, the software load process must be restarted from step 3.</p> <p>If a prompt other than the <code>ok</code> prompt is displayed, press the <b>&lt;Return&gt;</b> key until the <code>ok</code> prompt is displayed.</p>		

## ATTACHMENT 3 (Continued)

## LARGE OPUP SOFTWARE BUILD 5.0 INSTALLATION INSTRUCTIONS

Step	Action/Response	Comments
4.	<p>At each OPUP Display Workstation(s) UD85, turn <b>ON</b> the CPU/processor by performing the following:</p> <ul style="list-style-type: none"> <li>• Push and release the CPU/Processor UD85A2 power button located on the front panel.</li> <li>• Move to next step immediately.</li> </ul> <p>The power LED located just above the power button of each workstation CPU/processor will illuminate.</p>	The workstation will take approximately 1 to 2 minutes to perform a power on sequence.
5.	<p>When the spinning pinwheel appears on the monitor, simultaneously press the <b>&lt;Stop&gt;</b> and <b>&lt;A&gt;</b> keys.</p> <p>An <code>ok</code> prompt is displayed.</p>	This stops the display workstation boot sequence.
6.	<p>At each OPUP Display Workstation(s), perform the following:</p> <ul style="list-style-type: none"> <li>• Locate the Ethernet address near the top center of the display (this address is located in the banner information, just above the <code>ok</code> prompt.)</li> <li>• When located, record the Ethernet address in the space(s) provided in step 2.</li> <li>• Repeat for each Display Workstation.</li> </ul>	Leave each display workstation at the <code>ok</code> prompt at this time.
7.	At the OPUP UD80 cabinet, locate the KVM Switch UD80A8 and press button <b>1</b> . The LED associated with button <b>1</b> will now be <b>ON</b> (illuminated).	The KVM Switch LED buttons are located near the center front panel of the KVM Switch. Button 1 is associated with the OPUP Dataserver UD80A11 and button 2 is associated with the OPUP Display Server UD80A12.

## ATTACHMENT 3 (Continued)

## LARGE OPUF SOFTWARE BUILD 5.0 INSTALLATION INSTRUCTIONS

Step	Action/Response	Comments
8.	<p>At the Dataserver UD80A11 located in the upper position, manually place the server to the <b>OFF</b> position by turning the security keyswitch on the front of the Dataserver clockwise until it stops.</p> <p>The green LED will turn OFF at the top right corner on the front of the Dataserver.</p> <p>Wait 15 seconds and then turn the security keyswitch back counterclockwise until it stops.</p>	
9.	<p>At the Display Server UD80A12 located in the lower position, manually place the server to the <b>OFF</b> position by turning the security keyswitch on the front of the display server clockwise until it stops.</p> <p>The green LED will turn OFF at the top right corner on the front of the Display Server.</p> <p>Wait 15 seconds and then turn the security keyswitch back counterclockwise until it stops.</p>	Both servers should be powered OFF.
<p><b>NOTES</b></p> <p>Prior to continuing to the next several steps, locate on the keyboard, the <b>&lt;Stop&gt;</b> key (far upper left side of keyboard) and the <b>&lt;A&gt;</b> key. These keys will be utilized to interrupt the boot process on each server. If the system proceeds through the initial boot process before it is stopped, the software load process must be restarted from step 8.</p> <p>If a prompt other than the {0}ok prompt is displayed, press the <b>&lt;Return&gt;</b> key until the {0}ok prompt is displayed.</p>		
10.	<p>At the Dataserver UD80A11, turn <b>ON</b> the server by firmly pressing the power button to the right of the security keyswitch (upper server position).</p> <p>A green LED comes ON at the top right corner on the front of the Dataserver.</p>	As the Dataserver starts to boot up, the monitor will remain blank for approximately 2 to 3 minutes. Wait for the monitor to display boot information.
11.	When the spinning pinwheel appears on the Monitor, simultaneously press the <b>&lt;Stop&gt;</b> and <b>&lt;A&gt;</b> keys.	The boot process is stopped on the Dataserver and an {0}ok prompt is displayed.

## ATTACHMENT 3 (Continued)

## LARGE OPUP SOFTWARE BUILD 5.0 INSTALLATION INSTRUCTIONS

Step	Action/Response	Comments
<p><b>NOTE</b></p> <p>If the boot process is not stopped on the Dataserver, wait 5 minutes, then repeat step 8 and then steps 10 and 11.</p>		
12.	<p>At the KVM Switch UD80A8, press button <b>2</b>.</p> <p>The KVM Switch button LEDs, will now indicate that button <b>2</b> LED is illuminated.</p>	<p>Button <b>2</b> is associated with the display server.</p>
13.	<p>At the Display Server UD80A12 (lower server position), turn <b>ON</b> the server by firmly pressing the power button to the right of the security keyswitch.</p> <p>A green LED comes ON at the top right corner on the front of the display server.</p>	<p>The display server starts to boot up, the monitor remains blank for approximately 2 to 3 minutes. Wait for the monitor to display boot information.</p>
14.	<p>When the spinning pinwheel appears on the monitor, simultaneously press the <b>&lt;Stop&gt;</b> and <b>&lt;A&gt;</b> keys.</p>	<p>The boot process is stopped on the display server and an {0}ok prompt is displayed.</p>
<p><b>NOTE</b></p> <p>If the boot process is not stopped on the display server, wait 5 minutes, then repeat step 9 and then steps 13 and 14.</p>		
15.	<p>At the monitor, perform the following:</p> <ul style="list-style-type: none"> <li>• Locate the Ethernet address near the top center of the display (this address is located in the banner information, just above the {0}ok prompt.)</li> <li>• When located, record the Ethernet address in the space provided in step 2.</li> </ul>	<p>Leave the display server at the {0}ok prompt at this time.</p>
16.	<p>At the KVM Switch UD80A8, press button <b>1</b>.</p> <p>The KVM Switch button <b>1</b> LED is illuminated.</p>	<p>Button <b>1</b> is associated with the Dataserver.</p>
17.	<p>At the Dataserver UD80A11 (upper server position), open the CD-ROM drive door, place the CD-ROM, labeled OPUP LOAD MEDIA Version 5.0, Disk 1, on the tray. Close the CD-ROM drive door.</p>	

## ATTACHMENT 3 (Continued)

## LARGE OPUP SOFTWARE BUILD 5.0 INSTALLATION INSTRUCTIONS

Step	Action/Response	Comments
18.	<p>At the {0}ok prompt, enter: <b>boot cdrom&lt;Return&gt;</b></p> <p>The boot process of the Dataserver begins. This takes approximately 3 to 4 minutes.</p>	<p><b>NOTE</b></p> <p>If an {0}ok prompt reappears, press <b>&lt;Return&gt;</b>, then repeat step 18.</p>
19.	<p>The following message will appear:</p> <p>Choose OPUP Site to Load:</p> <pre> 1 Air_Force 2 Navy 3 Testbed 4 Overseas 5 Other </pre> <p>Enter Numeric Selection from Above, q to Quit, or ? for Help: [?,??,q]:</p> <p><i>applicable # from above&lt;Return&gt;</i></p>	
20.	<p>When the following message appears:</p> <p>Please enter the OPUP site system ID (type 'help' for list):</p> <p>Enter: <b>help&lt;Return&gt;</b></p> <p>Locate your six-letter OPUP site system ID and record it here. _____</p> <p>Once located: If <i>-more-</i> is displayed at the bottom of the Site System ID list, press <b>q</b> to exit out of the help mode and proceed to the next step.</p> <p>If the above message is redisplayed, proceed to next step.</p>	

## ATTACHMENT 3 (Continued)

## LARGE OPUP SOFTWARE BUILD 5.0 INSTALLATION INSTRUCTIONS

Step	Action/Response	Comments
21.	<p>At the following message prompt:</p> <pre>Please enter the OPUP site system ID (type 'help' for list):  Enter: SITEID&lt;Return&gt;</pre>	<p>Enter the site ID recorded in step 20.</p> <p>Ensure the OPUP site system ID is entered in UPPERCASE.</p> <p>If the site ID is entered incorrectly, you will be prompted to repeat this step.</p>
<p><b>NOTES</b></p> <p>The following information displayed in step 22 is an example of what a site may see during the OPUP software installation process. The actual system type, site name, and IP-address information for each site will be different.</p> <p>The third IP-address octet (i.e. 10.5.74.1) is site specific. Each workstation IP-address will begin with the next successive IP-address after the Display Server IP-address (i.e. if the Display Server IP-address is 10.5.74.4, the first Display Workstation IP-address will use 10.5.74.5, the second display workstation will use 10.5.74.6, etc.).</p>		

## ATTACHMENT 3 (Continued)

## LARGE OPUP SOFTWARE BUILD 5.0 INSTALLATION INSTRUCTIONS

Step	Action/Response	Comments
22.	<p>When a message similar to the following appears:</p> <pre>System Type is:  Testbed Site Name  is:  ROCNBY Network is: 10.5.74.0 ----- OPUP Dataserver IP address is: 10.5.74.1 OPUP Cisco Router IP address is: 10.5.74.2 OPUP Cisco Switch IP address is: 10.5.74.3 OPUP Display Server IP address is: 10.5.74.4 Workstation 1 IP address is: 10.5.74.5 Workstation 2 IP address is: 10.5.74.6 Workstation 3 IP address is: 10.5.74.7 ..... ..... Workstation 10 IP address is: 10.5.74.14</pre> <p>Record the System Type, Site Name, and each IP-address displayed on the screen in the spaces provided in step 2. When finished, go to the next step.</p>	<p>There may be up to ten display workstations for a Large OPUP configuration. The IP-addresses will be applicable to your system.</p>
23.	<p>When the following message appears:</p> <pre>Please Enter Password for root: Enter Password:  Enter: Root_password&lt;Return&gt;</pre>	<p>Entries will not be shown. Use assigned password from step 2.</p>
24.	<p>When the following message appears:</p> <pre>Re-Enter Password:  Enter: Root_password&lt;Return&gt;</pre>	<p>Password must be verified by entering the same password twice.</p> <p>If the password entries do not match or are not valid, the request for a password will be made again.</p>

## ATTACHMENT 3 (Continued)

## LARGE OPUF SOFTWARE BUILD 5.0 INSTALLATION INSTRUCTIONS

Step	Action/Response	Comments
25.	When the following message appears:  Please Enter Password for opupmgr: Enter Password:  Enter: <i>opupmgr_password</i> <Return>	Entries will not be shown. Use assigned password from step 2.
26.	When the following message appears:  Re-Enter Password:  Enter: <i>opupmgr_password</i> <Return>	Password must be verified by entering the same password twice.  If the password entries do not match or are not valid, the request for a password will be made again.
<b>NOTE</b>  In the next step, if you press <b>y&lt;Return&gt;</b> , and the information is wrong, go back to step 7 and repeat the procedure.		
27.	When the following message appears:  Do you want to continue installation with selection? Yes or No [y,n,?,q]  If the inputs are correct, enter: <b>y&lt;Return&gt;</b>  If any information is incorrect, enter: <b>n&lt;Return&gt;</b>  The software load process will go back to step 19.	It is <u>critical</u> that all input information displayed in step 22 is recorded and accurate. Examine the inputs and ensure all entries are correct before proceeding to the next step.

ATTACHMENT 3 (Continued)

LARGE OPUP SOFTWARE BUILD 5.0 INSTALLATION INSTRUCTIONS

Step	Action/Response	Comments
28.	<p>The software installation process will now display the following information:</p> <p>Starting Installation.</p> <p>Beginning Installation Phase 1....</p>	<p>Additional information will continue to scroll on the display monitor. The software load process will take approximately 20 to 30 minutes before the information in the next step is displayed.</p> <p>The following message will be displayed:</p> <p>Extracting /export/install Files.....</p> <p>Any information displayed after the string of periods on one of the extracting lines, indicate a defective disk. Call the ROC Hotline for assistance.</p>
29.	<p>When the following message appears:</p> <p>Installation Phase 1 complete.</p> <p>Press Return to reboot and start Phase 2.</p> <p>Press the <b>&lt;Return&gt;</b> key.</p>	<p>Initially the screen will go blank for about 30 seconds. The software load process will take approximately 3 to 4 minutes before the information in the next step is displayed.</p>
<p style="text-align: center;"><b>NOTE</b></p> <p>If the incorrect CD-ROM disk is inserted, the load process will display the message <code>Incorrect Disk. No default media available.</code> The software load process will then prompt for the correct CD-ROM.</p>		

ATTACHMENT 3 (Continued)

LARGE OPUP SOFTWARE BUILD 5.0 INSTALLATION INSTRUCTIONS

Step	Action/Response	Comments
30.	<p>When the following message appears:</p> <pre>Beginning Installation Phase 2...</pre> <p>Please Insert OPUP Installation Disk #2, and press Return.</p> <ul style="list-style-type: none"> <li>• Open the CD-ROM drive door.</li> <li>• Remove Disk 1, and place it in its protective sleeve.</li> <li>• Place Disk 2 into the tray.</li> <li>• Close the CD-ROM drive door.</li> <li>• Press the <b>&lt;Return&gt;</b> key.</li> </ul>	<p>The system installs the software from Disk 2, OPUP LOAD MEDIA Version 5.0.</p> <p>This takes approximately 20 to 30 minutes.</p> <p>The following message will be displayed:</p> <pre>Extracting /export/install Files.....</pre> <p>Any information displayed after the string of periods indicate a defective disk. Call the ROC Hotline for assistance.</p>
31.	<p>When the following message appears:</p> <pre>Please Insert OPUP Installation Disk #3, and press Return.</pre> <ul style="list-style-type: none"> <li>• Open the CD-ROM drive door.</li> <li>• Remove Disk 2, and place it in its protective sleeve.</li> <li>• Place Disk #3 into the tray.</li> <li>• Close the CD-ROM drive door.</li> <li>• Press the <b>&lt;Return&gt;</b> key.</li> </ul>	<p>The system installs the software from Disk 3, OPUP LOAD MEDIA Version 5.0.</p> <p>This takes approximately 10 to 15 minutes.</p> <p>The following message will be displayed:</p> <pre>Extracting /opt Files.....</pre> <p>Any information displayed after the string of periods indicate a defective disk. Call the ROC Hotline for assistance.</p>

## ATTACHMENT 3 (Continued)

## LARGE OPUP SOFTWARE BUILD 5.0 INSTALLATION INSTRUCTIONS

Step	Action/Response	Comments
32.	<p>When the following message appears:</p> <pre>Please Insert OPUP Installation Disk #4, and press Return.</pre> <ul style="list-style-type: none"> <li>• Open the CD-ROM drive door.</li> <li>• Remove Disk 3, and place it in its protective sleeve.</li> <li>• Place Disk 4 into the tray.</li> <li>• Close the CD-ROM drive door.</li> <li>• Press the <b>&lt;Return&gt;</b> key.</li> </ul>	<p>The system installs the software from Disk 4, OPUP LOAD MEDIA Version 5.0.</p> <p>This takes approximately 5 to 15 minutes.</p> <p>The following message will be displayed:</p> <pre>Extracting Map Files.....</pre> <p>Any information displayed after the string of periods indicate a defective disk. Call the ROC Hotline for assistance.</p>
33.	<p>When the following message appears:</p> <pre>OPUP Installation Disk #4 Finished Loading.</pre> <pre>Please Remove OPUP Installation Disk #4, and press Return.</pre> <ul style="list-style-type: none"> <li>• Open the CD-ROM drive door.</li> <li>• Remove Disk 4 and place it in its protective sleeve.</li> <li>• Close the CD-ROM drive door.</li> <li>• Place the disks in a safe location for future use.</li> <li>• Press the <b>&lt;Return&gt;</b> key.</li> </ul> <p>The following message appears:</p> <pre>Configure Third Party Software...</pre>	<p>Once the system is finished loading Disk 4, various amounts of information will scroll through the display monitor.</p> <p>Additional messages will be displayed for the next 5 to 10 minutes.</p> <p>The software load process continues and will reboot and return to the CDE Login screen.</p>

## ATTACHMENT 3 (Continued)

## LARGE OPUP SOFTWARE BUILD 5.0 INSTALLATION INSTRUCTIONS

Step	Action/Response	Comments
34.	<p>When the following message is displayed:</p> <p>Please use the right cable to connect the Cisco LAN Switch console port to Serial Port A on the OPUP Server.</p> <p>Press Return when ready to proceed or enter 'skip' to skip the Cisco configuration.</p> <p>Enter: <b>skip&lt;Return&gt;</b></p>	<p>The <b>skip</b> command allows the software load process to by-pass the Communication Switch UD80A18 configuration. This process can take up to 5 minutes to complete.</p> <p>After a few lines of scripts are shown the screen will go blank for approximately 15 seconds.</p>
35.	<p>At the CDE Login screen, in the Please enter your user name edit box, enter: <b>opupmgr&lt;Return&gt;</b></p>	
36.	<p>At the CDE Login screen, in the Please enter your password edit box, enter: <b>opupmgr_password&lt;Return&gt;</b></p>	<p>The opupmgr password must be exactly the same password that was assigned in step 2.</p> <p>The system will advance past the login point to the CDE Front Panel when this step is complete.</p>
37.	<p>When the Netscape: License Agreement window appears:</p> <p>Click on the <b>Accept</b> button.</p>	
38.	<p>In the Netscape: Password window, in the User ID: edit box, enter: <b>opupmgr&lt;Return&gt;</b></p>	<p>The configuration process will go to the next step.</p>
39.	<p>In the Password: edit box, enter: <b>opupmgr_password&lt;Return&gt;</b></p>	<p>The opupmgr password must be exactly the same password that was assigned in step 2.</p>
40.	<p>When the Netscape: OPUP Manager Start OPUP window appears:</p> <p>Click on the <b>Next</b> button.</p>	<p>The login process will go to the next prompt.</p>

## ATTACHMENT 3 (Continued)

## LARGE OPUP SOFTWARE BUILD 5.0 INSTALLATION INSTRUCTIONS

Step	Action/Response	Comments
41.	<p>At the Netscape: OPUP Manager Add New Workstation window, in the Display Server: area, click in the Hostname: edit box, and enter: <b>opup1server2&lt;Tab&gt;</b></p> <p>At the Display Server:IP-Address: edit box, enter: <i>OPUP Display Server IP-Address&lt;Tab&gt;</i></p> <p>At the Display Server: Ethernet-Address: edit box, enter: <i>Display Server Ethernet-Address&lt;Tab&gt;</i></p> <p>When the above information has been <b>verified</b> to be correct, scroll to the bottom of the display screen and click on the <b>Save</b> button.</p>	<p>The display server information must be entered in the top portion of the window.</p> <p>The display server has its own unique Hostname, IP-address, and Ethernet Address.</p> <p>The ethernet address was recorded in step 2.</p> <p>Do <u>not</u> enter any workstation data in the other fields at this time. The workstations will be added later in the procedure.</p>
42.	<p>When the Netscape: Security Warning window appears,</p> <ul style="list-style-type: none"> <li>• Click on the <b>Show this Alert Next Time</b> check box to uncheck it.</li> <li>• Click on the <b>Continue Submission</b> button.</li> </ul>	
43.	<p>When the Netscape: Workstation Information Complete window appears:</p> <p>All 1 Entered Workstation are now Created.</p> <p>Click on the <b>Next</b> button.</p>	<p>The Netscape: OPUP Manager Add PUP Information window will appear.</p>
<p><b>NOTE</b></p> <p>Refer to the software input parameters recorded in step 2 for the steps that follow.</p>		

## ATTACHMENT 3 (Continued)

## LARGE OPUP SOFTWARE BUILD 5.0 INSTALLATION INSTRUCTIONS

Step	Action/Response	Comments
44.	<p>In the OPUP Password Information: block, click in the first password field, enter: <i>Security_Level_1_password</i> &lt;Tab&gt;</p> <p>Using the &lt;Tab&gt; key, move through the rest of the fields. Enter all appropriate passwords and password confirmations, as required, for all three security levels.</p>	Each security level must have a unique password.
45.	<p>At the OPUP Size and Dial Line Information: block, in the Enter OPUP Size Configuration (1 for Large, 2 for Medium, 3 for Small): edit box, enter: <b>1</b>&lt;Tab&gt;</p>	This step selects a Large OPUP configuration.
46.	<p>At the Enter # of Available Dial Lines (1 to 8) edit box, enter: <i>Appropriate number of dial lines</i>&lt;Tab&gt;</p>	The Large OPUP configuration can use up to 8 dial lines. Ensure this is correct for this configuration
47.	<p>At the OPUP Product Distribution Information: block, in the Enter OPUP Distribution Contact Name edit box, perform the following:</p> <ul style="list-style-type: none"> <li>• Delete the current entry.</li> </ul> <p>Enter: <i>site specific contact name</i>&lt;Tab&gt;</p> <p>In the Enter OPUP Distribution Contact Phone Number: edit box, enter: <i>phone number</i>&lt;Tab&gt;</p>	This is the POC information for NITF data. Enter the Name of the Office (i.e. Tinker Base Weather) and the telephone number. DO NOT use dashes and include an area code. DO NOT leave these fields blank!

ATTACHMENT 3 (Continued)

LARGE OPUP SOFTWARE BUILD 5.0 INSTALLATION INSTRUCTIONS

Step	Action/Response	Comments
48.	<p>At the Cisco Router Passwords: block, in the Enter Current Router Password: edit box, enter: <i>Current Router Password</i>, then</p> <p>Click in the Enter New Router Password: edit box, enter: <i>New Router Password</i>&lt;Tab&gt;</p> <p>In the Re-Enter Password: edit box, enter: <i>New Router Password</i>&lt;Tab&gt;</p> <p>In the Enter Current Enable Password: edit box, enter: <i>Current Enable Password</i>&lt;Tab&gt;</p> <p>In the Enter New Enable Password: edit box, enter: <i>New Enable Password</i>&lt;Tab&gt;</p> <p>In the Re-Enter Password: edit box, enter: <i>New Enable Password</i></p> <p>Click on the <b>Next</b> button.</p>	<p><b>NOTE</b></p> <p>If the current router password is entered incorrectly, the router configuration will fail in later steps.</p>

## ATTACHMENT 3 (Continued)

## LARGE OPUP SOFTWARE BUILD 5.0 INSTALLATION INSTRUCTIONS

Step	Action/Response	Comments
49.	<p>If the following message appears at the Netscape: PUP Information Entered window:</p> <p>PUP Information - has been Created</p> <p>Click on the <b>Next</b> button and continue to next step.</p> <p>Otherwise, if the following message appears:</p> <p>PUP Information not Correct</p> <ul style="list-style-type: none"> <li>• Determine which information is incorrect.</li> <li>• Click on the <b>Return to Last Screen</b> button.</li> <li>• Make the necessary corrections.</li> </ul>	<p>If the information in step 48 is correct, the configuration process will go to the next step. If not, step 48 will need to be repeated after all input information has been verified to be correct.</p>
50.	<p>At the Netscape: OPUP Select Base Information window, click on the appropriate button.</p>	<p>Record the base in the space provided in step 2.</p>
51.	<p>At the Netscape: Select Base Installation window, in the Select Base block, highlight the applicable base name by clicking on it. (If necessary, use the scroll bar to locate the base name.) When the select base is highlighted, click on the <b>Next</b> button.</p>	<p>Record the base in the space provided in step 2.</p> <p>The configuration process will go to the next step.</p>
52.	<p>At the Netscape: OPUP Manager Create New RPG Information warning window, verify your base is correctly displayed in the middle of the window.</p> <p>If the base is correct, click on the <b>Yes</b> button.</p> <p>If the base is incorrect, click on the <b>Return to Last Screen</b> button to return to the Netscape: OPUP Manager Create New RPG Information warning window and select the correct base.</p>	<p>The configuration process will go to the next step.</p>
53.	<p>At the Netscape: Add RPG Information from list window, perform the following:</p> <p>Click on the <b>Next</b> button.</p>	<p>Each site's dial and dedicated RPGs will be configured. If more dial sites are needed after installation, contact ROC Hotline.</p>

## ATTACHMENT 3 (Continued)

## LARGE OPUP SOFTWARE BUILD 5.0 INSTALLATION INSTRUCTIONS

Step	Action/Response	Comments
54.	At the Netscape: RPG Information Entered window, click on the <b>Next</b> button.	The configuration process will go to the next step.
55.	<p>Perform the following steps to connect the Cisco cable, part number 72-3663-01, to the Communication Router UD80A3:</p> <ul style="list-style-type: none"> <li>• Connect the RJ45 end of Cisco cable to the CONSOLE port at the rear of the Communication Router.</li> <li>• Connect the other end of the Cisco cable to a Null Modem adapter.</li> <li>• Connect the Null Modem adapter to the Serial Port A connector on the rear of the Dataserver UD80A11.</li> </ul>	
56.	At the Netscape: OPUP Manager Configure OPUP window, click on the <b>Configure OPUP</b> button and then click on the <b>Yes</b> button to confirm.	When finished, a Netscape: OPUP Manager Configure OPUP window will be displayed with an OPUP has been Configured message.
<p><b>NOTE</b></p> <p>If the following message appears:</p> <pre>OPUP has been Configured But.....Final Cisco Router Configuration Failed. Before OPUP could be operational you must manually configure Router. Please follow the instructions, to manually configure Cisco Router.</pre> <p>Proceed to NWS EHB 6-537, AFTO 31P1-4-108-459-2, Table 3-11, Software Installation Recovery Procedures, and consult the Communication Router recovery procedure outlined in item number 6. Return to step <a href="#">57</a>, when finished.</p>		
57.	At the rear of the Communication Router UD80A3, unplug the RJ45 end of the Cisco configuration cable from the CONSOLE port.	
58.	Connect the RJ45 end of the Cisco configuration cable to the CONSOLE port on the rear of the Communications Switch UD80A18.	This cable will be used to configure the communications switch.

## ATTACHMENT 3 (Continued)

## LARGE OPUP SOFTWARE BUILD 5.0 INSTALLATION INSTRUCTIONS

Step	Action/Response	Comments
59.	<p>At the Netscape: OPUP Manager Configure OPUP window:</p> <ul style="list-style-type: none"> <li>• Click on the <b>Return to Last Screen</b> button.</li> <li>• Click on the <b>OPUP Manager Main Menu</b> button.</li> </ul> <p>The OPUP Manager Main Menu will be displayed</p>	
60.	<p>At the OPUP Manager Main Menu, click on the <b>OPUP Workstation Menu</b> button.</p> <p>A Netscape: OPUP Workstation Menu window appears.</p>	
61.	<p>Click on the <b>Add New Workstation</b> button.</p> <p>A Netscape: OPUP Manager Add New Workstation window appears</p>	
62.	<p>At the Workstation Number: area, click in the first Workstation Hostname: edit box, and enter:</p> <p><b>Workstation1&lt;Tab&gt;</b></p> <p>At the IP-Address: edit box, enter: <b>Workstation1 IP-Address&lt;Tab&gt;</b></p> <p>At the Ethernet-Address: edit box, enter: <b>Workstation1 Ethernet-Address&lt;Tab&gt;</b></p> <p>Repeat the above steps for each workstation installed at your site.</p> <p>When the above information has been <b>verified</b> to be correct, scroll to the bottom of the display screen and click on the <b>Save</b> button.</p>	<p>Refer to step 2 for the recorded Workstation Hostname, IP-Address, and Ethernet-Address for each workstation.</p>

## ATTACHMENT 3 (Continued)

## LARGE OPUP SOFTWARE BUILD 5.0 INSTALLATION INSTRUCTIONS

Step	Action/Response	Comments
63.	<p>When the Netscape: Workstation Information Complete window appears that displays the message:</p> <pre>All # Entered Workstation are now Created (where # is the number of workstations installed).</pre> <p>Click on the <b>Return to Main Menu</b> button.</p> <p>The OPUP Manager Main Menu appears</p>	
64.	<p>At the OPUP Manager Main Menu window,</p> <p>Click the <b>File</b> selection near the top left corner of the window.</p> <p>When the pull down menu opens, click the <b>Exit</b> selection at the bottom of the menu.</p>	It is important to close this window prior to continuing to the next step in order to refresh the data supplied to this window.
65.	<p>When the following message appears at the Netscape: Question window:</p> <pre>Close all windows and exit Netscape?</pre> <p>Click on the <b>OK</b> button.</p>	
66.	<p>At the CDE Front Panel, click on the <b>up arrow</b> located just above the <b>cpu disk</b> usage icon.</p> <p>When the Hosts pop-up menu opens, click on the <b>This Host</b> icon selection.</p>	A Terminal window opens with an <code>/export/home/opupmgr&gt;</code> prompt.
67.	<p>Within the Terminal window, at the <code>/export/home/opupmgr</code> prompt, enter: <b>su&lt;Return&gt;</b></p> <p>When the Password: prompt appears, enter: <code>root_password&lt;Return&gt;</code></p> <p>A # prompt will be displayed.</p>	This step performs a switch to Super User function. The <code>root_password</code> used in this step was assigned in step 2.

## ATTACHMENT 3 (Continued)

## LARGE OPUP SOFTWARE BUILD 5.0 INSTALLATION INSTRUCTIONS

Step	Action/Response	Comments
68.	<p>At the Dataserver UD80A11, open the CD-ROM drive door and place the CD-ROM disk, labeled OPUP PAM + XMODEM FILE UPDATES, in the tray.</p> <p>Close the CD-ROM drive door.</p>	
69.	<p>At the # prompt, enter: <b>mount -F hsfs -r /dev/dsk/c0t6d0s2 /mnt&lt;Return&gt;</b></p>	
70.	<p>At the # prompt, enter: <b>cd /mnt&lt;Return&gt;</b></p>	
71.	<p>At the # prompt, enter: <b>./install&lt;Return&gt;</b></p>	The # prompt will appear after approximately 5 seconds.
72.	<p>At the # prompt, enter: <b>cd / &lt;Return&gt;</b></p>	
73.	<p>At the # prompt, enter: <b>umount /mnt&lt;Return&gt;</b></p>	
74.	<p>At the Dataserver UD80A11, open the CD-ROM drive door and remove the CD-ROM disk.</p> <ul style="list-style-type: none"> <li>• Close the CD-ROM drive door.</li> <li>• Place the disk in the protective sleeve.</li> <li>• Place the disk in a safe location for future use.</li> </ul>	
75.	<p>Click on the <b>EXIT</b> button on the CDE Front Panel and then click on the <b>OK</b> button.</p>	This step exits the installer from the OPUP Manager Main Menu and displays the CDE Login screen.

ATTACHMENT 3 (Continued)

LARGE OPUP SOFTWARE BUILD 5.0 INSTALLATION INSTRUCTIONS

Step	Action/Response	Comments
76.	<p>At the KVM Switch UD80A8, press button <b>2</b>. At the {0}ok prompt, enter:  <b>boot net - install&lt;Return&gt;</b></p> <p>The LED associated with button 2 will now be on (illuminated).</p> <p>While the Display Server is rebooting, continue with the next step.</p>	<p>This step ensures that the Display Server UD80A12 is selected and the proper command is used to initiate a Display Server software installation routine.</p> <p>This installation will take approximately 45 to 60 minutes. When finished, the CDE Login screen will be displayed.</p> <p style="text-align: center;"><b>NOTE</b></p> <p>If an {0}ok prompt reappears, press <b>&lt;Return&gt;</b>, then repeat step <a href="#">76</a>.</p>
77.	<p>At each OPUP Display Workstation(s) UD85, perform the following at the ok prompt, enter:  <b>boot net - install&lt;Return&gt;</b></p> <p style="text-align: center;"><b>NOTES</b></p> <p>Ensure the above command is performed at all Display Workstations.</p> <p>Do not continue with procedure until all Display Workstations display the CDE Login screen.</p>	<p>This step ensures that each display workstation is selected and uses a command to invoke Jumpstart software package which initiates an automatic software installation routine.</p> <p>This installation will take approximately 75 minutes per display workstation. When finished, the display workstation CDE Login screen will be displayed.</p> <p style="text-align: center;"><b>NOTE</b></p> <p>If an {0}ok prompt reappears, press <b>&lt;Return&gt;</b>, then repeat step <a href="#">77</a>.</p>
78.	<p>When the OPUP Display Server CDE Login screen appears on the monitor, go to the next step.</p>	<p>Wait until the OPUP Display Server displays the CDE Login screen <u>before</u> proceeding to the next step.</p>

## ATTACHMENT 3 (Continued)

## LARGE OPUP SOFTWARE BUILD 5.0 INSTALLATION INSTRUCTIONS

Step	Action/Response	Comments
79.	<p>At the KVM Switch UD80A8, press button <b>1</b>.</p> <p>If the screen saver feature has been engaged, enter: <i>opupmgr_password</i>&lt;Return&gt;</p> <p>If the screen saver feature has not been engaged, go to the next step.</p>	<p>The button 1 LED will now be on (illuminated).</p> <p>The Dataserver UD80A11 (upper server position) will display data on the monitor screen.</p>
80.	<p>When the CDE Login screen appears, in the Please enter your user name edit box, enter: <b>opupmgr</b>&lt;Return&gt;</p>	
81.	<p>At the CDE Login screen, in the Please enter your password edit box, enter: <i>opupmgr_password</i>&lt;Return&gt;</p>	<p>The opupmgr password must be the same password assigned in step 2.</p> <p>The system will advance past the login point to the CDE Front Panel.</p>
82.	<p>Click on the <b>Netscape World</b> on the far left side of the CDE Front Panel to start Netscape.</p>	<p>A Netscape window opens. This takes approximately 20 to 30 seconds.</p>
83.	<p>Click anywhere on the <b>gray background</b> area of the Netscape window to get the Netscape: Password window to display.</p>	<p>Netscape: Password window opens.</p>
84.	<p>In the Netscape: Password window, in the User ID: edit box, enter: <b>opupmgr</b>&lt;Return&gt;</p>	
85.	<p>In the Password: edit box, enter: <i>opupmgr_password</i>&lt;Return&gt;</p> <p>The OPUP Manager Main Menu will be displayed.</p>	<p>The opupmgr password must be the same password assigned in step 2.</p>

## ATTACHMENT 3 (Continued)

## LARGE OPUP SOFTWARE BUILD 5.0 INSTALLATION INSTRUCTIONS

Step	Action/Response	Comments
86.	<p>At the OPUP cabinet, with the OPUP Manager Main Menu displayed, perform the following:</p> <ul style="list-style-type: none"> <li>• Click on the <b>OPUP Software Menu</b> button.</li> <li>• Click on the <b>Start OPUP</b> button within the OPUP Software Menu.</li> <li>• Click on the <b>Yes</b> button at the confirmation window.</li> </ul>	These procedures start the OPUP software.
87.	<p>At the OPUP Manager Start OPUP window:</p> <p>Click on the <b>Return to OPUP Software Menu</b> button.</p>	The OPUP Software Menu will be displayed.
88.	<p>Click on the <b>OPUP Process Status</b> button. An OPUP Process Status window will appear.</p> <p>Wait 1 to 2 minutes for the OPUP Processes to start.</p> <p>Click on the <b>Refresh</b> button, as needed, until all processes have started.</p> <p>When all the OPUP App/Task processes are started, go to the next step.</p>	Each program listed in this window will have a PID (Process Identification) number assigned to each task if the program has been successfully loaded and started.
89.	Click on the <b>Return To Main Menu</b> button.	OPUP Manager Main Menu will be displayed.
90.	<p>At the OPUP Manager Main Menu window, click on the <b>OPUP Users Menu</b> button.</p> <p>An OPUP Users Menu will be displayed.</p>	The menu will go to the next step. This menu will be used to enter a unique User Name and Password.

ATTACHMENT 3 (Continued)

LARGE OPUF SOFTWARE BUILD 5.0 INSTALLATION INSTRUCTIONS

Step	Action/Response	Comments
<p style="text-align: center;"><b>NOTE</b></p> <p>Case is important for both User Name and Passwords when they are defined. Future access to both will require the exact case for each letter as entered here.</p> <p>Each user name must meet the following minimum composition requirements:</p> <ul style="list-style-type: none"> <li>• Be at least a minimum of <u>three</u> characters in length.</li> <li>• Contain at least <u>two</u> alpha characters (A through Z or a through z).</li> <li>• Contain at least <u>one</u> number (0 through 9) or one of the following special characters (!, @, %, -, +, _, {, [, #, or =).</li> </ul>		
<p>91.</p>	<p>Click on the <b>Add New User</b> button. Then click in the <code>User Name</code>: edit box to activate the field for text entry. Enter any combination of letters and numbers to define a unique user name.</p> <p>Enter a user name that meets the requirements in the note above.</p> <p>Record the User Name in the space provided in step 2.</p>	<p>A unique User Name should now be entered, verified, and recorded in the space provided in step 2 of these instructions.</p>
<p style="text-align: center;"><b>NOTE</b></p> <p>Each password must meet the following minimum composition requirements:</p> <ul style="list-style-type: none"> <li>• Be at least a minimum of <u>eight</u> characters in length.</li> <li>• Contain at least <u>one</u> UPPERCASE character (A through Z).</li> <li>• Contain at least <u>one</u> lowercase character (a through z).</li> <li>• Contain at least <u>one</u> number (0 through 9).</li> <li>• Contain at least <u>one</u> special character (!, @, %, (, -, +, {, [, #, =, &amp;, *). All "special" entries must be within the first 8 characters.</li> </ul>		

## ATTACHMENT 3 (Continued)

## LARGE OPUP SOFTWARE BUILD 5.0 INSTALLATION INSTRUCTIONS

Step	Action/Response	Comments
92.	<p>Click on the <code>Password: edit</code> window to activate the window field for text entry and enter the password for the user.</p> <p>Enter a password that meets the requirements in the note above.</p> <p>Click in the <code>Reenter password: edit</code> window to activate the window field for text entry and then reenter the password exactly as entered above. Record the password exactly as entered in this step in the space provided in step 2.</p>	<p>This step ensures that the Password is not mistyped/ misspelled. It should also be recorded in the space provided in step 2 of these instructions.</p> <p>If the password doesn't meet the security requirements, follow the on-screen instructions.</p>
93.	<p>Click on the <b>Save</b> button. When the <code>Netscape: Display User Info Entered</code> window and OPUP User <code>user_name - Successfully Created</code> message is displayed, click on the <b>Return To Main Menu</b> button.</p>	<p>The User Name is displayed as part of the window title. These steps will return to the OPUP Manager Main Menu.</p>
94.	<p>At the CDE Front Panel, move the mouse cursor over the <b>Netscape World</b> icon.</p>	<p>The current day, date, and time in GMT should be displayed.</p>
95.	<p>While leaving the mouse cursor over the <b>Netscape World</b> icon, inspect the day, date, and time. If the time is off by more than 1 minute, go to the next step. Otherwise, go to step 106.</p>	<p>If the day, date, and time information will not display, go to the next step.</p>
96.	<p>Within the CDE Front Panel, click on the <b>up</b> arrow located just above the <b>cpu disk</b> icon.</p>	<p>A <code>Hosts</code> pop-up menu will be displayed.</p>
97.	<p>Click on the <b>This Host</b> icon.</p> <p>A Terminal window opens with an <code>/export/home/opupmgr&gt;</code> prompt.</p>	
98.	<p>At the <code>/export/home/opupmgr&gt;</code> prompt, enter: <b>su&lt;Return&gt;</b></p> <p>A <code>Password:</code> prompt will be displayed.</p>	
99.	<p>At the <code>Password:</code> prompt, enter: <code>root_password&lt;Return&gt;</code></p> <p>A <code>#</code> prompt will be displayed.</p>	

## ATTACHMENT 3 (Continued)

## LARGE OPUP SOFTWARE BUILD 5.0 INSTALLATION INSTRUCTIONS

Step	Action/Response	Comments
100.	At the # prompt, enter: <b>date&lt;Return&gt;</b>	The current day of the week, month, day, time (hh:mm:ss), GMT, year should be displayed.
101.	Obtain an accurate time source (e.g. WWV 303-499-7111). At the # prompt, enter: <b>date mmdHHMM[cc][yy][.ss]</b> (Do Not press the <b>&lt;Return&gt;</b> key, yet).  Use GMT time.	Everything after the minutes entry ("MM") is optional. However, the most accurate method to update the time is to, at a minimum, enter the HHMM.ss parameters. The following information applies:  mm= Month dd= Day HH= GMT Hour MM=Minute  Optional entries (normally not entered):  cc= Century minus 1 yy= Year ss= Seconds
102.	Using the chosen time source, press <b>&lt;Return&gt;</b> exactly at the moment that the above entered time occurs.	
103.	At the # prompt, enter: <b>date&lt;Return&gt;</b>	Verify the OPUP System Time was updated.
104.	At the # prompt, enter: <b>exit&lt;Return&gt;</b>  An <code>/export/home/opupmgr&gt;</code> prompt will be displayed.	
105.	At the <code>/export/home/opupmgr&gt;</code> prompt, enter: <b>exit&lt;Return&gt;</b>  The Terminal window closes and the CDE Front Panel will be displayed.	

## ATTACHMENT 3 (Continued)

## LARGE OPUP SOFTWARE BUILD 5.0 INSTALLATION INSTRUCTIONS

Step	Action/Response	Comments
106.	Go to one of the Display Workstations UD85. Ensure that the CDE Login screen is displayed before going to the next step.	Each display workstation is connected to the Large OPUP via CAT5 cable. Each workstation was added during step 41.
107.	At a Display Workstation CDE Login screen, in the <code>Please enter your user name</code> edit box, enter:  <i>User_name</i> <Return>	Use the User Name created in step 91. The login screen will go to the next step.
108.	At a Display Workstation CDE Login screen, in the <code>Please enter your password</code> edit box, enter: <i>User_password</i> <Return>	The user password must be exactly the same password that was entered in step 92.  The system will advance past the login point to the OPUP Operational Applications Front Panel GUI Suite. A choice of icons will be displayed at the Front Panel.
109.	Click on the <b>Status &amp; Control</b> icon located near the lower left corner of the Operational Applications Front Panel.  This will take approximately 15 to 20 seconds for the map to appear.	A <code>Status and Control-OPUP 5.0</code> window will be displayed showing a map of the United States. For those sites in the Pacific, it will show a map of the Pacific region.
110.	At the <code>Status and Control-OPUP 5.0</code> window, verify a green dot is present on the map for your location.  If multiple RPGs are shown, ensure at least one RPG location is communicating with the OPUP as indicated by a green dot for that location.	If a green dot is not present, a communication failure exists between the RPG and the OPUP.
111.	If green dots are present, close the <code>Status and Control-OPUP 5.0</code> window by clicking on the <b>Double Red Arrows</b> in the upper right corner.	

## ATTACHMENT 3 (Continued)

## LARGE OPUF SOFTWARE BUILD 5.0 INSTALLATION INSTRUCTIONS

Step	Action/Response	Comments
112.	At the lower left corner of the Front Panel, locate and click on the <b>Product Display</b> icon.	The Product Display GUI will have 12 individual display windows that can be selected in the next step. This will take approximately 15 to 20 seconds. Two windows will appear.
113.	<p>In the <code>Alert Registration</code> window, click on the <b>Register Selected</b> button.</p> <p>For any <code>Alert Database Empty!</code> windows that may appear, click on the <b>OK</b> button to acknowledge and close.</p>	These steps close all unnecessary display windows at this time.
114.	<p>Choose any one of the 12 GUI windows displayed and then click on the <b>Open Product Selection Dialog</b> bar (green button located near the top center of the chosen GUI window).</p> <p>A <code>Product Selection</code> pop-up window will be displayed.</p>	
115.	<p>Click on the <b>Category</b> button.</p> <p>Click on a WSR-88D product listed within the Drop Down Product List box.</p> <p>Click on a desired product parameter (elevation and resolution) and RPGID then click on the <b>Apply</b> button.</p> <p>A product should be displayed within the chosen PDGUI window.</p>	The procedures within this step allows the user to select and display a specific product within the chosen display GUI window.
116.	Store any copies of step 2 that may have been made in a safe location.	Entries in step 2 contain password information that must be kept from being compromised.
117.	If a printer is installed, refer to NWS EHB 6-537, AFTO 31P1-4-108-459-2, paragraph 6.6.7 to add and configure the printer.	
118.	Refer to NWS EHB 6-537, AFTO 31P1-4-108-459-2, paragraph 5.2.5 to add additional users.	
119.	Proceed to <a href="#">ATTACHMENT 4</a> to configure the Communications Switch UD80A18.	

ATTACHMENT 3 (Continued)

LARGE OPUP SOFTWARE BUILD 5.0 INSTALLATION INSTRUCTIONS

Step	Action/Response	Comments
<p style="text-align: center;"><b>NOTES</b></p> <p>If a product is not displayed after completing step <a href="#">115</a>, repeat step <a href="#">115</a> and select a different product. If products are being received, stop here and proceed to <a href="#">ATTACHMENT 4</a>. Place the OPUP in a normal operating position.</p> <p>If the associated RPG is not connected, the product may not display at this time.</p> <p>If the Large OPUP Server OS is not functioning and/or the software load procedure was not successful, immediately contact the ROC Hotline at 1-800-643-3363 for further assistance.</p>		

ATTACHMENT 4

SWITCH CONFIGURATION INSTRUCTIONS

**Tools Required:**

Cisco Configuration cable P/N 72-3663-01

Null Modem Adapter

**Initial Condition:**

Software Build 5.0 has been successfully installed.

Step	Action/Response	Comments
1.	Ensure at the rear of the (Database) Server UD80A11 (upper server position in a Large OPUP configuration), that the Null Modem Adapter is connected to Serial port A (bottom 25-pin connector on far left edge of the server) and that the RJ45 end is connected to the CONSOLE port at the back of the Switch UD80A18.	
2.	(For Large OPUP Configuration only): At the KVM Switch UD80A8, press the "1" LED button. This ensures the Dataserver UD80A11 is connected to the Monitor UD80A7.	
3.	<p>At the CDE Front Panel, open TWO Host Terminal windows as follows:</p> <ol style="list-style-type: none"> <li>a. Click on <b>Up arrow</b> located above the <b>cpu disk</b> icon. A <code>Hosts</code> pop-up window will be displayed.</li> <li>b. At the <code>Hosts</code> pop-up window, click on the <b>This Host</b> icon. A Terminal window will be displayed with an <code>/export/home/opupmgr&gt;</code> prompt.</li> <li>c. Repeat steps a and b to open a second Terminal window.</li> </ol>	<p>After opening the second terminal window, the first terminal window may be hidden by the <code>OPUP Manager Main Menu</code>.</p>

## ATTACHMENT 4 (Continued)

## SWITCH CONFIGURATION INSTRUCTIONS

Step	Action/Response	Comments
4.	At the first Terminal window <code>/export/home/opupmgr&gt;</code> prompt, enter: <b>su&lt;Return&gt;</b>  Feedback: <code>Password:</code> prompt appears.	
5.	At the <code>Password:</code> prompt, enter: <code>root_password&lt;Return&gt;</code>  A # prompt appears.	
6.	At the # prompt, enter: <b>tip -9600 /dev/cua/a&lt;Return&gt;</b>  Feedback: <code>connected</code>	
7.	Below the <code>connected</code> feedback line, enter: <b>&lt;Return&gt;</b> to finish establishing the connection. A prompt should appear.	A <code>Switch&gt;</code> or <code>opupcisco&gt;</code> prompt will appear.
8.	Cycle power to the Communication Switch UD80A18 by unplugging the AC power cord from the rear of the communication switch momentarily, and plugging it back in.	
<b>NOTE</b>  After power is cycled, and the communication switch software boots up, one of two final prompts will be displayed on the Monitor UD80A7. The final prompt displayed depends on whether the communication switch has been previously configured or not.		
9.	If the final displayed prompt is as follows:  a. Continue with configuration dialog? [yes/no]:, proceed to step 10 to start an initial configuration procedure.	

## ATTACHMENT 4 (Continued)

## SWITCH CONFIGURATION INSTRUCTIONS

Step	Action/Response	Comments
<p><b>NOTE</b></p> <p>In the following step, once the message <code>Press RETURN to get started</code> is displayed and <b>&lt;Return&gt;</b> is not pressed, approximately eight more lines of text will be displayed, with the last line beginning with <code>Compiled . . . .</code> and ending with <code>by . . . .</code>. This is normal.</p>		
	<p>b. If the final displayed prompt is as follows:  <code>Press RETURN to get started.</code>,  proceed to step 63 to start a reconfiguration procedure.</p>	
10.	<p>At the <code>Continue with configuration dialog? [yes/no]:</code> prompt, enter:  <b>n&lt;Return&gt;</b></p> <p>Feedback: <code>Press RETURN to get started.</code> prompt appears.</p>	
<p><b>NOTES</b></p> <p>In the following step, once the message <code>Press RETURN to get started</code> is displayed and <b>&lt;Return&gt;</b> is not pressed, approximately seven more lines of text will be displayed, with the last line beginning with <code>Compiled . . . .</code> and ending with <code>by . . . .</code>. This is normal.</p> <p>For an initial configuration, the default <code>Switch&gt;</code> prompt appears.</p>		
11.	<p>At the <code>Press RETURN to get started.</code> prompt, enter:  <b>&lt;Return&gt;</b></p> <p>Feedback: <code>Switch&gt;</code> prompt appears.</p>	
12.	<p>At the <code>Switch&gt;</code> prompt, enter:  <b>enable&lt;Return&gt;</b></p> <p>Feedback: <code>Switch#</code> prompt appears.</p>	

## ATTACHMENT 4 (Continued)

## SWITCH CONFIGURATION INSTRUCTIONS

Step	Action/Response	Comments
13.	<p>At the Switch# prompt, enter: <b>conf t&lt;Return&gt;</b></p> <p>Feedback: Enter configuration commands, one per line. End with CNTL/Z., followed by a Switch(config)# prompt.</p>	
14.	<p>At the Switch(config)# prompt, enter: <b>int vlan1&lt;Return&gt;</b></p> <p>Feedback: Switch(config-if)# prompt appears.</p>	
15.	<p>At the Switch(config-if)# prompt, enter the site dependent IP address string as follows:  <b>ip address 10.5.===.3 255.255.255.0&lt;Return&gt;</b></p>	<p>Where === is the two or three digit site-specific third octet number of the IP address. Refer to <a href="#">ATTACHMENT 3</a>, step 2 for Large OPUP, or refer to <a href="#">ATTACHMENT 2</a>, step 2 for Medium OPUP, where the IP addresses were recorded.</p>
16.	<p>At the Switch(config-if)# prompt, enter: <b>exit&lt;Return&gt;</b></p> <p>Feedback: Switch(config)# prompt appears.</p>	
17.	<p>At the Switch(config)# prompt, enter: <b>exit&lt;Return&gt;</b></p> <p>Feedback: Switch# and Configured from console by console prompts appear.</p>	
18.	<p>At the Configured from console by console prompt, enter: <b>&lt;Return&gt;</b></p> <p>Feedback: Switch# prompt appears.</p>	

## ATTACHMENT 4 (Continued)

## SWITCH CONFIGURATION INSTRUCTIONS

Step	Action/Response	Comments
19.	At the <code>Switch#</code> prompt, enter: <b>write mem &lt;Return&gt;</b>  Feedback: <code>[OK]</code>	
20.	At the <code>Switch#</code> prompt, enter: <b>reload&lt;Return&gt;</b>  Feedback: <code>Proceed with reload? [confirm]</code>	
21.	At the <code>[confirm]</code> prompt, enter: <b>&lt;Return&gt;</b>  Wait for the following prompt before continuing (approximately 1 minute).  Feedback: <code>Press RETURN to get started.</code> <code>prompt appears.</code>	This recycles power to the communication switch and reboots the software.
<b>NOTE</b>  In the following step, once the message <code>Press RETURN to get started</code> is displayed and <b>&lt;Return&gt;</b> is not pressed in a timely manner, approximately eight more lines of text may be displayed, with the last line beginning with <code>Compiled . . . .</code> and ending with <code>by . . . .</code> . This is normal.		
22.	At the <code>Press RETURN to get started.</code> , prompt, enter: <b>&lt;Return&gt;</b>  Feedback: <code>Switch&gt;</code> prompt appears.	
23.	At the <code>Switch&gt;</code> prompt, enter: <b>enable&lt;Return&gt;</b>  Feedback: <code>Switch#</code> prompt appears.	

## ATTACHMENT 4 (Continued)

## SWITCH CONFIGURATION INSTRUCTIONS

Step	Action/Response	Comments
24.	<p>At the <code>Switch#</code> prompt, enter:  <b>format flash:&lt;Return&gt;</b></p> <p>Feedback: Format operation may take a while. Continue? [confirm]</p>	
25.	<p>At the [confirm] prompt, enter:  <b>&lt;Return&gt;</b></p> <p>Feedback: Format operation will destroy all data in "flash". Continue? [confirm]</p>	
26.	<p>At the [confirm] prompt, enter:  <b>&lt;Return&gt;</b></p> <p>No immediate feedback will be noted. Data will be destroyed (approximately 45 seconds).</p> <p>Feedback: Format of flash: complete  Switch# prompt will appear.</p>	
27.	<p>At the second Terminal window, click within the window and perform the following:</p> <ol style="list-style-type: none"> <li>a. At the <code>/export/home/opupmgr&gt;</code> prompt, enter: <b>su&lt;Return&gt;</b> the <code>Password:</code> prompt appears.</li> <li>b. At the <code>Password:</code> prompt, enter: <code>root_password&lt;Return&gt;</code> the <code>#</code> prompt appears.</li> <li>c. At the <code>#</code> prompt, enter:  <b>chmod o+r /tftpboot/c2900XL.bin&lt;Return&gt;</b></li> </ol>	

## ATTACHMENT 4 (Continued)

## SWITCH CONFIGURATION INSTRUCTIONS

Step	Action/Response	Comments
28.	<p>In the first Terminal window, click within the window to activate the window and at the <code>Switch#</code> prompt, enter:  <b>copy tftp://10.5.===.1/c2900XL.bin flash:&lt;Return&gt;</b></p> <p>Feedback: Source IP address or hostname  [10.5.===.1]?</p>	<p>Where === is the two or three digit site-specific third octet number of the IP address. Refer to <a href="#">ATTACHMENT 3</a>, step 2 for Large OPUP, or refer to <a href="#">ATTACHMENT 2</a>, step 2 for Medium OPUP, where the IP addresses were recorded.</p>
29.	<p>If the IP address in the feedback line above is correct, enter:  <b>&lt;Return&gt;</b></p> <p>If the IP address in the feedback line above is incorrect, enter:  <b>10.5.===.1&lt;Return&gt;</b></p> <p>where === is the site-specific subnet number.</p> <p>Feedback: Source filename  [c2900XL.bin]?</p>	
30.	<p>At the Source filename [c2900XL.bin]? prompt, enter:  <b>&lt;Return&gt;</b></p> <p>Feedback: Destination filename  [c2900XL.bin]?</p>	
31.	<p>At the Destination filename [c2900XL.bin]? prompt, enter:  <b>&lt;Return&gt;</b></p> <p>Wait while the c2900XL.bin file is loaded (approximately 1 minute).</p> <p>Feedback: Switch# prompt will return.</p>	

## ATTACHMENT 4 (Continued)

## SWITCH CONFIGURATION INSTRUCTIONS

Step	Action/Response	Comments
32.	At the Switch# prompt, enter: <b>reload&lt;Return&gt;</b>  Feedback: Proceed with reload? [confirm]	
33.	At the [confirm] prompt, enter: <b>&lt;Return&gt;</b>  Wait for the following prompt before continuing (approximately 1 minute).  Feedback: Continue with configuration dialog? [yes/no]:	This recycles power to the communication switch and reboots the software.
34.	At the above feedback line, enter: <b>y&lt;Return&gt;</b>	
35.	At the Enter IP address: prompt, enter: <b>10.5.===.3&lt;Return&gt;</b>	Where === is the two or three digit site-specific third octet number of the IP address. Refer to <a href="#">ATTACHMENT 3</a> , step 2 for Large OPUP, or refer to <a href="#">ATTACHMENT 2</a> , step 2 for Medium OPUP, where the IP addresses were recorded.
36.	At the Enter IP netmask: prompt, enter: <b>255.255.255.0&lt;Return&gt;</b>  Feedback: Would you like to enter a default gateway address? [yes]:	
37.	At the above prompt, enter: <b>n&lt;Return&gt;</b>  Feedback: Enter host name [Switch]: prompt appears.	

## ATTACHMENT 4 (Continued)

## SWITCH CONFIGURATION INSTRUCTIONS

Step	Action/Response	Comments
38.	<p>At the Enter host name [Switch]: prompt, enter:</p> <p><b>opupcisco&lt;Return&gt;</b></p> <p>Feedback: The enable secret is a one-way cryptographic secret used instead of the enable password when it exists.</p> <p>Enter enable secret: prompt appears.</p>	
<p><b>NOTE</b></p> <p>In the following step, after <b>opup4cisco</b> is entered, and <b>before</b> pressing the <b>&lt;Return&gt;</b> key, <b>verify</b> the entry is correct. If the entry is not correct and entered and the error was not noticed, then future uses of the correct password will not allow the communication switch to be configured.</p>		
39.	<p>At the Enter enable secret: prompt, enter:</p> <p><b>opup4cisco&lt;Return&gt;</b></p> <p>Feedback: Would you like to configure a Telnet password? [yes]:</p>	
40.	<p>At the above prompt, enter:</p> <p><b>n&lt;Return&gt;</b></p> <p>Feedback: Would you like to enable as cluster command switch? [yes/no]:</p>	
41.	<p>At the above prompt, enter:</p> <p><b>n&lt;Return&gt;</b></p> <p>Feedback: Use this configuration? [yes/no]:</p>	
42.	<p>At the above prompt, enter:</p> <p><b>y&lt;Return&gt;</b></p> <p>Feedback: Press RETURN to get started.</p>	

## ATTACHMENT 4 (Continued)

## SWITCH CONFIGURATION INSTRUCTIONS

Step	Action/Response	Comments
43.	At the <code>Press RETURN</code> to get started. prompt, enter: <b>&lt;Return&gt;</b>  Feedback: <code>opupcisco&gt;</code> prompt appears.	
44.	At the <code>opupcisco&gt;</code> prompt enter: <b>enable&lt;Return&gt;</b>  Feedback: <code>Password:</code> prompt appears.	
45.	At the <code>Password:</code> prompt, enter: <b>opup4cisco&lt;Return&gt;</b>  Feedback: <code>opupcisco#</code> prompt appears	
46.	At the second Terminal window, click within the window to active the window and perform the following: <ul style="list-style-type: none"> <li>a. At the <code>#</code> prompt, enter:  <b>chmod o-r /tftpboot/c2900XL.bin&lt;Return&gt;</b></li> <li>b. At the <code>#</code> prompt, enter:  <b>exit&lt;Return&gt;</b></li> </ul> Feedback: <code>/export/home/opupmgr&gt;</code> prompt appears. <ul style="list-style-type: none"> <li>c. At the <code>/export/home/opupmgr&gt;</code> prompt,            enter:  <b>exit&lt;Return&gt;</b></li> </ul> Feedback: Terminal window closes and the cursor moves to the other terminal window.	

## ATTACHMENT 4 (Continued)

## SWITCH CONFIGURATION INSTRUCTIONS

Step	Action/Response	Comments
47.	<p>At the first Terminal window, click within the window to active the window and at the <code>opupcisco#</code> prompt, enter:  <b>conf t&lt;Return&gt;</b></p> <p>Feedback: Enter configuration commands, one per line. End with CNTL/Z., followed by a <code>opupcisco (config)#</code> prompt.</p>	
48.	<p>At the <code>opupcisco (config)#</code> prompt, enter:  <b>no snmp-server&lt;Return&gt;</b></p>	
49.	<p>At the <code>opupcisco (config)#</code> prompt, enter:  <b>no ip http server&lt;Return&gt;</b></p>	
50.	<p>At the <code>opupcisco (config)#</code> prompt, enter:  <b>no ip finger&lt;Return&gt;</b></p>	
51.	<p>At the <code>opupcisco (config)#</code> prompt, enter:  <b>line vty 0 15&lt;Return&gt;</b></p> <p>Feedback: <code>opupcisco (config-line)#</code> prompt appears.</p>	
52.	<p>At the <code>opupcisco (config-line)#</code> prompt, enter:  <b>no transport input&lt;Return&gt;</b></p>	
53.	<p>At the <code>opupcisco (config-line)#</code> prompt, enter:  <b>exit&lt;Return&gt;</b></p> <p>Feedback: <code>opupcisco (config)#</code> prompt appears.</p>	

## ATTACHMENT 4 (Continued)

## SWITCH CONFIGURATION INSTRUCTIONS

Step	Action/Response	Comments
54.	At the <code>opupcisco(config)#</code> prompt, enter: <b>exit&lt;Return&gt;</b>  Feedback: <code>opupcisco#</code> followed by a Configured from console by console prompt.	
55.	At the <code>Configured from console by console</code> prompt, enter: <b>&lt;Return&gt;</b>  Feedback: <code>opupcisco#</code> prompt appears.	
56.	At the <code>opupcisco#</code> prompt, enter: <b>write mem&lt;Return&gt;</b>	
57.	At the <code>opupcisco#</code> prompt, enter: <b>exit&lt;Return&gt;</b>	
58.	At the <code>Press RETURN to get started.</code> prompt, enter: <b>~.</b>  Feedback: <code>[EOT]</code> followed by <code>#</code> prompt appears.	
59.	At the <code>#</code> prompt, enter: <b>exit&lt;Return&gt;</b>  Feedback: <code>/export/home/opupmgr&gt;</code> prompt appears.	
60.	At the <code>/export/home/opupmgr&gt;</code> prompt, enter: <b>exit&lt;Return&gt;</b>  Feedback: The Terminal window closes.	
61.	At the rear of the Communication Switch UD80A18, unplug the Cisco configuration cable from the CONSOLE port.	

## ATTACHMENT 4 (Continued)

## SWITCH CONFIGURATION INSTRUCTIONS

Step	Action/Response	Comments
62.	At the rear of the Dataserver UD80A11 (top server if Large OPUP), disconnect the Null Modem Adapter (with Cisco configuration cable) from Serial A port.	
63.	At the <code>Press RETURN to get started.,</code> prompt, enter: <b>&lt;Return&gt;</b>  Feedback: <code>opupcisco&gt;</code> prompt appears.	<b>NOTE</b>  In steps 63 through 68, the prompt should be <code>opupcisco&gt;</code> or <code>opupcisco#</code> . If the prompts are <code>Switch&gt;</code> or <code>Switch#</code> , continue with the procedure.
64.	At the <code>opupcisco&gt;</code> prompt, enter: <b>enable&lt;Return&gt;</b>  Feedback: <code>Password:</code> prompt appears.	
65.	At the <code>Password:</code> prompt, enter: <b>opup4cisco&lt;Return&gt;</b>  Feedback: <code>opupcisco#</code> prompt appears.	
66.	At the <code>opupcisco#</code> prompt, enter: <b>erase startup-config&lt;Return&gt;</b>  Feedback: <code>Erasing the nvram filesystem will remove all files! Continue? [confirm]</code>	
67.	At the <code>[confirm]</code> prompt, enter: <b>&lt;Return&gt;</b>  Feedback: <code>Erase of nvram: complete opupcisco#</code> prompt appears.	
68.	At the <code>opupcisco#</code> prompt, enter: <b>reload&lt;Return&gt;</b>  Feedback: <code>Proceed with reload? [confirm]</code>	

## ATTACHMENT 4 (Continued)

## SWITCH CONFIGURATION INSTRUCTIONS

Step	Action/Response	Comments
69.	<p>At the [confirm] prompt, enter: <b>&lt;Return&gt;</b></p> <p>Wait for the following prompt before continuing (approximately 1 minute).</p> <p>Feedback: Press RETURN to get started. prompt appears.</p>	<p>This recycles power to the communication switch and reboots the software.</p>
<p><b>NOTE</b></p> <p>In the following step, once the message Press RETURN to get started is displayed and <b>&lt;Return&gt;</b> is not pressed in a timely manner, approximately eight more lines of text may be displayed, with the last line beginning with Compiled . . . .and ending with by . . . . This is normal.</p>		
70.	<p>At the Press RETURN to get started. prompt, enter: <b>&lt;Return&gt;</b></p> <p>Feedback: Switch&gt; prompt appears.</p>	
71.	<p>At the Switch&gt; prompt, enter: <b>enable&lt;Return&gt;</b></p> <p>Feedback: Switch# prompt appears.</p>	
72.	<p>At the Switch# prompt, enter: <b>conf t&lt;Return&gt;</b></p> <p>Feedback: Enter configuration commands, one per line. End with CNTL/Z., followed by a Switch(config)# prompt.</p>	
73.	<p>At the Switch(config)# prompt, enter: <b>int vlan1&lt;Return&gt;</b></p> <p>Feedback: Switch(config-if)# prompt appears.</p>	

## ATTACHMENT 4 (Continued)

## SWITCH CONFIGURATION INSTRUCTIONS

Step	Action/Response	Comments
74.	<p>At the <code>Switch(config-if)#</code> prompt, enter the site dependent IP address string as follows:</p> <p><b>ip address 10.5.===.3 255.255.255.0&lt;Return&gt;</b></p>	<p>Where === is the two or three digit site-specific third octet number of the IP address. Refer to <a href="#">ATTACHMENT 3</a>, step 2 for Large OPUP, or refer to <a href="#">ATTACHMENT 2</a>, step 2 for Medium OPUP, where the IP addresses were recorded.</p>
75.	<p>At the <code>Switch(config-if)#</code> prompt, enter:</p> <p><b>exit&lt;Return&gt;</b></p> <p>Feedback: <code>Switch(config)#</code> prompt appears.</p>	
76.	<p>At the <code>Switch(config)#</code> prompt, enter:</p> <p><b>exit&lt;Return&gt;</b></p> <p>Feedback: <code>Switch#</code> and <code>Configured from console by console</code> prompts appear.</p>	
77.	<p>At the <code>Configured from console by console</code> prompt, enter:</p> <p><b>&lt;Return&gt;</b></p>	
78.	<p>At the <code>Switch#</code> prompt, enter:</p> <p><b>write mem&lt;Return&gt;</b></p> <p>Feedback: <code>Switch#</code> prompt reappears.</p>	
79.	<p>At the <code>Switch#</code> prompt, enter:</p> <p><b>reload&lt;Return&gt;</b></p> <p>A message <code>Building Configurations....</code> will be displayed.</p> <p>Feedback: <code>Proceed with reload? [confirm]</code></p>	

## ATTACHMENT 4 (Continued)

## SWITCH CONFIGURATION INSTRUCTIONS

Step	Action/Response	Comments
<p><b>NOTE</b></p> <p>In the following step, once the message <code>Press RETURN to get started</code> is displayed and <b>&lt;Return&gt;</b> is not pressed in a timely manner, approximately eight more lines of text may be displayed, with the last line beginning with <code>Compiled . . . .</code> and ending with <code>by . . . .</code>. This is normal.</p>		
80.	<p>At the <code>[confirm]</code> prompt, enter: <b>&lt;Return&gt;</b></p> <p>Wait for the following prompt before continuing (approximately 1 minute).</p> <p>Feedback: <code>Press RETURN to get started.,</code> prompt appears.</p>	This recycles power to the communication switch and reboots the software.
81.	<p>At the above prompt, enter: <b>&lt;Return&gt;</b></p> <p>Feedback: <code>Switch&gt;</code> prompt appears.</p>	
82.	<p>At the <code>Switch&gt;</code> prompt enter: <b>enable&lt;Return&gt;</b></p> <p>Feedback: <code>Switch#</code> prompt appears.</p>	
83.	<p>At the <code>Switch#</code> prompt, enter: <b>format flash:&lt;Return&gt;</b></p> <p>Feedback: <code>Format operation may take a while. Continue? [confirm]</code></p>	
84.	<p>At the <code>[confirm]</code> prompt, enter: <b>&lt;Return&gt;</b></p> <p>Feedback: <code>Format operation will destroy all data in "flash:". Continue? [confirm]</code></p>	

## ATTACHMENT 4 (Continued)

## SWITCH CONFIGURATION INSTRUCTIONS

Step	Action/Response	Comments
85.	<p>At the [confirm] prompt, enter: <b>&lt;Return&gt;</b></p> <p>Feedback: Format of flash: complete Switch# prompt will appear.</p>	<p>No immediate feedback will be noted. Data will be destroyed (approximately 45 seconds).</p>
86.	<p>At the second Terminal window, click within the window to activate it and and perform the following:</p> <ol style="list-style-type: none"> <li>At the /export/home/opupmgr&gt; prompt, enter: <b>su&lt;Return&gt;</b> and the Password: prompt appears.</li> <li>At the Password: prompt, enter: <b>root_password&lt;Return&gt;</b> an # prompt appears.</li> <li>At the # prompt, enter: <b>chmod o+r /tftpboot/c2900XL.bin&lt;Return&gt;</b></li> </ol>	
87.	<p>In the first Terminal window, click within the window to activate the window and at the Switch# prompt, enter:</p> <p><b>copy tftp://10.5.===.1/c2900XL.bin flash:&lt;Return&gt;</b></p> <p>Feedback: Destination filename [c2900XL.bin]?</p>	<p>Where === is the two or three digit site-specific third octet number of the IP address. Refer to <a href="#">ATTACHMENT 3</a>, step 2 for Large OPUP, or refer to <a href="#">ATTACHMENT 2</a>, step 2 for Medium OPUP, where the IP addresses were recorded.</p>
88.	<p>At the Destination filename [c2900XL.bin]? prompt, enter: <b>&lt;Return&gt;</b></p> <p>Wait while the c2900XL.bin file is loaded (approximately 1 minute).</p> <p>Feedback: Switch# prompt will return.</p>	
89.	<p>At the Switch# prompt, enter: <b>reload&lt;Return&gt;</b></p> <p>Feedback: Proceed with reload? [confirm]</p>	

## ATTACHMENT 4 (Continued)

## SWITCH CONFIGURATION INSTRUCTIONS

Step	Action/Response	Comments
90.	<p>At the [confirm] prompt, enter: <b>&lt;Return&gt;</b></p> <p>Wait for the following prompt before continuing (approximately 1 minute).</p> <p>Feedback: Continue with configuration dialog? [yes/no]:</p>	<p>This recycles power to the communication switch and reboots the software.</p>
91.	<p>At the above feedback line, enter: <b>y&lt;Return&gt;</b></p> <p>At the Enter IP address: prompt, enter: <b>10.5.===.3&lt;Return&gt;</b></p>	<p>Where === is the two or three digit site-specific third octet number of the IP address. Refer to <a href="#">ATTACHMENT 3</a>, step 2 for Large OPUP, or refer to <a href="#">ATTACHMENT 2</a>, step 2 for Medium OPUP, where the IP addresses were recorded.</p>
92.	<p>At the Enter IP netmask: prompt, enter: <b>255.255.255.0&lt;Return&gt;</b></p> <p>Feedback: Would you like to enter a default gateway address? [yes]:</p>	
93.	<p>At the above prompt, enter: <b>n&lt;Return&gt;</b></p> <p>Feedback: Enter host name [Switch]: prompt appears.</p>	
94.	<p>At the Enter host name [Switch]: prompt, enter: <b>opupcisco&lt;Return&gt;</b></p> <p>Feedback: The enable secret is a one-way cryptographic secret used instead of the enable password when it exists.</p> <p>Enter enable secret: prompt appears.</p>	

## ATTACHMENT 4 (Continued)

## SWITCH CONFIGURATION INSTRUCTIONS

Step	Action/Response	Comments
<p><b>NOTE</b></p> <p>In the following step, after <b>opup4cisco</b> is entered, and <b>before</b> pressing the <b>&lt;Return&gt;</b> key, <b>verify</b> the entry is correct. If the entry is not correct and entered and the error was not noticed, then future uses of the correct password will not allow the communication switch to be configured.</p>		
95.	<p>At the Enter enable secret: prompt, enter: <b>opup4cisco&lt;Return&gt;</b></p> <p>Feedback: Would you like to configure a Telnet password? [yes]:</p>	
96.	<p>At the above prompt, enter: <b>n&lt;Return&gt;</b></p> <p>Feedback: Would you like to enable as cluster command switch? [yes/no]:</p>	
97.	<p>At the above prompt, enter: <b>n&lt;Return&gt;</b></p> <p>Feedback: Use this configuration? [yes/no]:</p>	
98.	<p>At the above prompt, enter: <b>y&lt;Return&gt;</b></p> <p>Feedback: Press RETURN to get started.</p>	
99.	<p>At the Press RETURN to get started. prompt, enter: <b>&lt;Return&gt;</b></p> <p>Feedback: opupcisco&gt; prompt appears.</p>	

## ATTACHMENT 4 (Continued)

## SWITCH CONFIGURATION INSTRUCTIONS

Step	Action/Response	Comments
100.	At the <code>opupcisco&gt;</code> prompt, enter: <b>enable&lt;Return&gt;</b>  Feedback: <code>Password:</code> prompt appears.	
101.	At the <code>Password:</code> prompt, enter: <b>opup4cisco&lt;Return&gt;</b>  Feedback: <code>opupcisco#</code> prompt appears.	
102.	At the second Terminal window, click within the window to activate the window and perform the following: <ol style="list-style-type: none"> <li>a. At the <code>#</code> prompt, enter:  <b>chmod o-r /tftpboot/c2900XL.bin&lt;Return&gt;</b></li> <li>b. At the <code>#</code> prompt, enter:  <b>exit&lt;Return&gt;</b> and the  <code>/export/home/opupmgr&gt;</code> prompt appears.</li> <li>c. At the <code>/export/home/opupmgr&gt;</code> prompt, enter:  <b>exit&lt;Return&gt;</b> and terminal window closes and cursor moves to the other terminal window.</li> </ol>	
103.	At the first Terminal window, click within the window to activate the window and at the <code>opupcisco#</code> prompt, enter: <b>conf t&lt;Return&gt;</b>  Feedback: Enter configuration commands, one per line. End with CNTL/Z., followed by a <code>opupcisco(config)#</code> prompt.	
104.	At the <code>opupcisco(config)#</code> prompt, enter: <b>no snmp-server&lt;Return&gt;</b>	

## ATTACHMENT 4 (Continued)

## SWITCH CONFIGURATION INSTRUCTIONS

Step	Action/Response	Comments
105.	At the <code>opupcisco(config)#</code> prompt, enter: <b>no ip http server&lt;Return&gt;</b>	
106.	At the <code>opupcisco(config)#</code> prompt, enter: <b>no ip finger&lt;Return&gt;</b>	
107.	At the <code>opupcisco(config)#</code> prompt, enter: <b>line vty 0 15&lt;Return&gt;</b>  Feedback: <code>opupcisco(config-line)#</code> prompt appears.	
108.	At the <code>opupcisco(config-line)#</code> prompt, enter: <b>no transport input &lt;Return&gt;</b>	
109.	At the <code>opupcisco(config-line)#</code> prompt, enter: <b>exit&lt;Return&gt;</b>  Feedback: <code>opupcisco(config)#</code> prompt	
110.	At the <code>opupcisco(config)#</code> prompt, enter: <b>exit&lt;Return&gt;</b>  Feedback: Configured from console by <code>console</code> prompt appears.	
111.	At the Configured from console by console prompt, enter: <b>&lt;Return&gt;</b>  Feedback: <code>opupcisco#</code> prompt appears.	
112.	At the <code>opupcisco#</code> prompt, enter: <b>write mem&lt;Return&gt;</b>	

## ATTACHMENT 4 (Continued)

## SWITCH CONFIGURATION INSTRUCTIONS

Step	Action/Response	Comments
113.	At the opupcisco# prompt, enter: <b>exit&lt;Return&gt;</b>	
114.	At the Press RETURN to get started. prompt, enter: ~.  Feedback: [EOT] followed by # prompt appears.	
115.	At the # prompt, enter: <b>exit&lt;Return&gt;</b>  Feedback: /export/home/opupmgr> prompt appears.	
116.	At the /export/home/opupmgr> prompt, enter: <b>exit&lt;Return&gt;</b>  Feedback: The Terminal window closes.	
117.	At the rear of the Communication Switch UD80A18, unplug the Cisco configuration cable from the CONSOLE port.	
118.	At the rear of the Dataserver UD80A11 (top server if Large OPUP), disconnect the Null Modem Adapter (with Cisco configuration cable) from Serial A port.	

ATTACHMENT 5

EFFECTIVITY

NEXRAD Site Name	City, ST	EQP	SID	ORG Code
<b>DoD</b>				
AF ACADEMIC MET DEPT (TRAINING)	USAF ACADEMY, CO	OPUP	AFF	FE7000
AF ACADEMY WEATHER UNIT	USAF ACADEMY, CO	OPUP	AFF	FE7000
ALTUS AFB	ALTUS AFB, OK	OPUP	LTS	FE4419
ANDREWS AFB	ANDREWS AFB, MD	OPUP	ADW	FE4425
BASE X		OPUP	LSV	AFFTCB
BUCKLEY AFB	BUCKLEY ANGB, CO	OPUP	BKF	FE6061
CANNON AFB	CANNON AFB, NM	OPUP	CVS	FE4855
DAVIS MONTHAN AFB (25 OWS)	DAVIS MONTHAN AFB, AZ	OPUP	DMA	FE4877
DOBBINS ARB	DOBBINS AFB, GA	OPUP	NCQ	FE6703
EGLIN AFB	EGLIN AFB, FL	OPUP	VPS	FE2823
ELLSWORTH AFB	ELLSWORTH AFB, SD	OPUP	RCA	FE4690
FE WARREN AFB	FE WARREN AFB, WY	OPUP	FEW	FE4613
FT BENNING	FT BENNING, GA	OPUP	LSF	FTBENN
FT CARSON	FT CARSON, CO	OPUP	FCS	FTCARS
FT RUCKER	FT RUCKER, AL	OPUP	LOR	FY4805

## ATTACHMENT 5 (Continued)

## EFFECTIVITY

NEXRAD Site Name	City, ST	EQP	SID	ORG Code
GRISSOM ARB	GRISSOM AFB, IN	OPUP	GUS	FE4654
HURLBURT FIELD	HURLBURT FIELD, FL	OPUP	HRT	FE4417
KEESLER AFB OPS TRNG OPUP #03	KEESLER AFB, MS	OPUP	BIX	FE3010
KEESLER AFB OPS TRNG OPUP #02	KEESLER AFB, MS	OPUP	BIX	FE3010
KEESLER AFB OPS TRNG OPUP #01	KEESLER AFB, MS	OPUP	BIX	FE3010
MACDILL AFB	MACDILL AFB, FL	OPUP	MCF	FE4814
MALMSTROM AFB	MALMSTROM AFB, MT	OPUP	GFA	FE4626
MCAF QUANTICO	MCAF QUANTICO, VA	OPUP	NYG	M00262
MCAS FUTENMA	MCAS FUTENMA, JA	OPUP	NFO	FH5270
NAS LEMOORE	NAS LEMOORE, CA	OPUP	NLC	N63042
NAS MAYPORT	NAVSTA MAYPORT, FL	OPUP	NRB	N00207
NAS NORFOLK	NAS NORFOLK, VA	OPUP	NGU	N00188
NAS OCEANA	NAS OCEANA, VA	OPUP	NTU	N60191
NAS PAX RIVER #1	NAS PAX RIVER, MD	OPUP	NHK	N04281
NAS PAX RIVER #2	NAS PAX RIVER, MD	OPUP	NHKZ	N04281
NAS WHIDBEY ISLAND	NAS WHIDBEY ISLAND, WA	OPUP	NUW	N00620
NAS WILLOW GROVE	NAS WILLOW GROVE, PA	OPUP	NXX	N66471
NAVCOMFAC JACKSONVILLE	NAVCOMFAC JACKSONVILLE, FL	OPUP	NIP	N00207

ATTACHMENT 5 (Continued)

EFFECTIVITY

NEXRAD Site Name	City, ST	EQP	SID	ORG Code
NAWCWD POINT MUGU	NAWCWD POINT MUGU, CA	OPUP	NTD	N63126
NAWS CHINA LAKE	NAWS CHINA LAKE, CA	OPUP	NID	N60530
NEOC NORFOLK	NEOC NORFOLK, VA	OPUP	NGU	N63061
OFFUTT AFB	OFFUTT AFB, NE	OPUP	OFF	FE4600
OFFUTT AFB (OPS II TEST SYSTEM)	OFFUTT AFB, NE	OPUP	OFF	FE4600
PATRICK AFB	PATRICK AFB, FL	OPUP	COF	FE2520
PETERSON AFB	PETERSON AFB, CO	OPUP	COS	FE2500
SCOTT AFB (15 OWS)	SCOTT AFB, IL	OPUP	BLV	FE4407
SHAW AFB (28 OWS)	SHAW AFB, SC	OPUP	SSC	FE4803
SPAWAR CHARLESTON	CHARLESTON, SC	OPUP	SPA2	
TYNDALL AFB	TYNDALL AFB, FL	OPUP	PAM	FE4819
WRIGHT-PATTERSON AFB	WRIGHT-PATTERSON AFB, OH	OPUP	FFO	FE2300
YOKOTA AB (20 OWS)	YOKOTA AB, JA	OPUP	RJTY	

ATTACHMENT 6

OPUP SOFTWARE BUILD 5.0 COMPLETION FORM

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

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, Configuration Management Team  
WSR-88D Radar Operations Center  
3200 Marshall Ave., Suite 101  
Norman, OK 73072-8028
2. FAX Number: (405) 573-3480  
ATTN: Configuration Management Team
3. E-mail Address: [NEXRAD.CM.comments@noaa.gov](mailto:NEXRAD.CM.comments@noaa.gov)
4. Web Version: <http://www.roc.noaa.gov/ssb/logistics/complete/>