

JOB SHEET 10-6  
OS/32 COMMANDS / CDS COMMANDS  
PUP POWER DOWN & POWER UP PROCEDURES  
and PUPUP/PUPDOWN PROCEDURES

## INTRODUCTION

PUP power down procedures are quite simple with CDS (Control/Diagnostic System). In this Job Sheet, we will look at procedures to reset the PUP, and procedures to power the PUP down. **Be sure to cancel Archive IV before bringing down the PUP.**

In this JOB SHEET, the power up/power down, and PUPUP/PUPDOWN procedures are both listed. If the PUP gives you any problems, all or a portion of these steps may be followed. Sometimes, only a PUPDOWN/PUPUP is required, at other times, a complete software reset is necessary because of graphics or operating system problems. In situations when you do not have to power the system down, a jumping off point is listed. A few of the reasons for taking the PUP down is to clear a graphics hang, clear your narrowband communications line, clear a paused or dormant task, go to backup power, and whenever you backup files.

## OBJECTIVE

Perform a software reset with the commands PUPUP and PUPDOWN.  
Perform a system power down and power up.

## REFERENCE

NWS EHB 6-531, OPERATION INSTRUCTIONS: PUP GROUP Table 2-2.5 through 2-2.8

## PROCEDURE for **POWER DOWN**

1. At the PUP Applications Terminal, be sure to cancel the Archive by typing **A,C,A** and press **RETURN**.

**At the System Console...**

2. Type **PUPDOWN** and press **RETURN**.
  - If Archive IV is active, the message **\*\*\*CANCEL ARCHIVE BEFORE BRINGING PUP DOWN\*\*\*** is displayed. Note that you cannot PUPDOWN the system with Archive IV active.
  - All PUP application software is canceled followed by the "PUP SOFTWARE IS DOWN" message. Typing **DTA**, verifies if any application programs are still in memory.

***If you are simply resetting the software because of a graphics hang, or if the Application Terminal is locked up, you can type PUPUP and skip the rest of this Job Sheet.***

3. Type **ERR LOG, OFF** and press **RETURN**.
  - Error logging for devices which support error recording is turned off. Typing **D ERR**, verifies the status of the error logger.
4. Type **MA DSC0:,OFF** and press **RETURN**.
  - This command takes the Hard disk drive 'off-line'. Typing **D D/D**, verifies the status of the disk.
5. Hold the **CTRL** key down and hit the **V** key twice, then press **RETURN** a few times. Notice the prompt changes to "**CDS>**" on the screen. You are now at the CDS level and need to use CDS Commands.
6. At the CDS>, type **HA** and press **RETURN**
  - This is short for the CDS command **HALT**. This command halts processing at the CPU.
7. At the CDS>, type **INIT** and press **RETURN**
  - This command initializes the system and reloads the PUP software.

**STOP**

**WHILE THE OPERATING SYSTEM AND APPLICATION SOFTWARE RELOAD,  
READ THE FOLLOWING THREE PAGES.**

**IF YOU DESIRED TO POWER DOWN THE SYSTEM, YOU WOULD SKIP STEP 7  
ABOVE AND FOLLOW THE STEPS ON THE NEXT THREE PAGES.**

**\*\*\*\*\* AGAIN JUST READ THE REST OF THIS SECTION.\*\*\*\*\***

8. At the CDS>, type **PO OFF** and press **RETURN**
  - This would be the next command to power off the system. **NOTE you would do this command *after* step 6 above.**
  - **PO** is short for the CDS command **POWER**. This turns the power off to all of the computer boards and clears all PUP application and system software from memory.

At this point you can go in two directions. If you wanted to just POWER OFF and then POWER ON, you would now go to step 5 on page 4 and follow the rest of the steps.

If you wanted to "turn the PUP down to the breakers" then continue with step 9 below.

***REMEMBER - JUST READ THE REST OF THIS SECTION.***

9. At the PUP Workstation... turn **OFF** the Graphics Monitors (OFF=0)  
turn **OFF** the Applications Terminal  
turn **OFF** the System Console  
turn **OFF** the Printer.
10. At the PUP Cabinet (Front Left)... turn **OFF** the green VME Switch (A7)  
turn **OFF** the RAMTEK (A13)

11. At the PUP Cabinet (Rear Left)... loosen the 2 screws on the PS1 panel, swing out the power supply. Turn **OFF** the white PS1 switch near the bottom of the panel. Refasten the panel.
12. At the PUP Cabinet (Rear Right)... turn **OFF** the Power Distribution Panel Switch (A20).

## PROCEDURE for **POWER UP**

1. At the PUP Workstation... turn **ON** the Graphics Monitors  
turn **ON** the Applications Terminal  
turn **ON** the System Console  
turn **ON** the Printer.
2. At the PUP Cabinet (Rear Right)... turn **ON** the Power Distribution Panel Switch (A20)
3. At the PUP Cabinet (Front Left)... turn **ON** the RAMTEK (A13)  
turn **ON** the green VME Switch (A7)
4. At the PUP Cabinet (Rear Left)... If you have not re-fastened the swing-out panel...turn **ON** the PS1 switch near the bottom.

### THE PUP WILL REBOOT ITSELF IN ABOUT 4 TO 5 MINUTES.

5. At the PUP System Console, press the **RETURN** key a few times to get a CDS prompt -- **CDS>**
6. At the CDS>, type **KEY 1,PUP** and press **RETURN**
- **"PUP"** is a password. NOTE: There are no spaces after the comma.

7. At the CDS>, type **PO ON** and press **RETURN**
- Power is returned to the CPU and all software is reloaded. As the system reboots, a series of messages appear on the screen over the next 2 minutes. The following is a brief list of the important feedback messages.
    - Microdiagnostic Test Started
    - Load Complete
    - Microdiagnostic Test Complete
    - Constant Load Complete
    - Basic Confidence Test Complete
    - .BG indicates a task, running in the background, is resetting the CPU clock
    - FASTCHEK runs and checks the integrity of the drives
    - FIXDB runs to rebuild the PUP product database index pointers
    - PUP GOING UP
    - PUP SOFTWARE LOADED & STARTED
  - In about 120 seconds the system resets the display screens and the Applications Terminal indicates that the PUP has rebooted.
  - If the PUP software does not re-load and start automatically, turn the VME power switch (found in step 4) off, then on, and re-boot through CDS using **PO OFF** then **PO ON**.

When powering the system up or down, there is the chance you may not be at the proper CDS level. CDS has 3 Key levels.

- Key 0** is the **Monitoring level** -- here there are 14 commands.
- Key 1** is the **Control level**, there are 37 commands.
- Key 2** is the **Maintenance level**, there are 42 commands.

Commands required for start-up and shutdown, like **HALT**, **PO OFF** and **PO ON**, can only be done from the **Control level**. The best way to determine which CDS level you are at is to type **HELP** at the CDS prompt. As previously stated, in Key 1, there are 37 commands. Just type **KEY 1**, **<password>** to reach the Control level.

If the system is at the CDS level and you want to return to the OS/32 system prompt, simply type **CO** and press **RETURN** a couple of times. The message 'CONSOLE STATUS: REMOTE OFF-LINE, REMOTE SIGNED OFF, LOCAL OWNS' appears, and you return to the system prompt.

**END**