

**DDM-2000 OC-12 Multiplexer
TARP Release 7**

**User/Service Manual (TOP)
Volume II**

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Power Down/Power Up an Optical Network Element (NE)

Overview: This procedure is designed to help Lucent customers prepare for a planned loss of power to all or part of a central office. The loss of power to any NE will cause a loss of traffic on that NE, so traffic must be rerouted around the NE. Because there are so many variations from product to product, this procedure is written at a high level. See the specific product documentation if you need more details for any step.

⇒ **NOTE:**
The personnel performing this procedure should have knowledge of the specific product being powered down and/or powered up and should have access to specific product documentation so that they can determine whether the NE is behaving properly and address any problems that may occur.

⇒ **NOTE:**
Any shelf that receives electrical power has either two (A and B) circuit breakers or two (A and B) fuses. Most NE shelves do receive electrical power. The circuit breakers or fuses may be located on the shelf itself or at the top of the bay frame.

Power Down an Optical Network Element



CAUTION:

Use a static ground wrist strap whenever handling circuit packs or working on a network element to prevent electrostatic discharge (ESD) damage to sensitive components.

1. Reroute traffic around the NE.
2. Power down each shelf in one of the following ways:
 - Shut off both A and B circuit breakers by inserting an object such as a thin flathead screwdriver into the slot on the “off” side of each circuit breaker.
 - Remove both A and B fuses by lifting the cover, then pressing in and down, then releasing to allow the fuse to spring outward.
3. Shut off power at the Battery Distribution Feeder Bay (BDFB).
4. **STOP! YOU HAVE COMPLETED THIS PROCEDURE.**

Power Up an Optical Network Element



CAUTION:

Use a static ground wrist strap whenever handling circuit packs or working on a network element to prevent electrostatic discharge (ESD) damage to sensitive components.

1. Make sure the circuit breakers are off or the fuses are removed from the NE.

Result: This eliminates any chance of one person powering up at the Battery Distribution Feeder Bay (BDFB) while someone else could be exposed to electrical power at the NE.

2. Turn on the power supply to this NE at the BDFB.
3. Continue with the next step for the shelf containing the system controller circuit pack.
4. Power up the shelf and verify that both A and B power supplies are good as follows:

- A. Turn on circuit breaker A or insert fuse A and press inward and upward.



NOTE:

If the green power on the LED is not lit, check for a reversal on the power feeder and verify that there is voltage at the connector.

- B. Turn off circuit breaker A or remove fuse A.

- C. Turn on circuit breaker B or insert fuse B and press inward and upward.



NOTE:

If the green power on the LED is not lit, check for a reversal on the power feeder and verify that there is voltage at the connector.

- D. Turn on circuit breaker A or insert fuse A and press inward and upward.

Result: You have verified that both A and B power supplies are good and are now turned on.

5. Wait for all of the circuit packs on this shelf to finish booting, which will be indicated by the following:
 - All red LEDs are off
 - For packs with green LEDs, they are on steadily
6. Repeat Steps 3 and 4 for all other shelves that contain controller circuit packs.
7. Repeat Step 3 for all shelves that do not contain any controller circuit packs.
8. Log into the NE with a craft interface terminal and check alarms.

9. If any alarms appear, use the product documentation to clear them. For most products, the appropriate document will be an *Alarm Message and Trouble Clearing Guide* or a *User/Service Manual*.
10. If this NE allows cross-connection, verify that the cross-connections are correct. Refer to the appropriate product documentation, usually a *User Operations Guide* or a *User/Service Manual*.
11. Reroute traffic back onto this NE.
12. **STOP! YOU HAVE COMPLETED THIS PROCEDURE.**