

Deformable Mirror Hardware Startup and Shutdown Procedures S-AB-P-134 Rev A

Intent: This procedure shall be followed to power ON/OFF the Deformable Mirror's Surface Control (MSC) hardware under normal operating conditions. The MSC control rack(s) and computer(s) are left running 24/7. The control rack and computer for the cavity DM's is located at the north end of Beamline 2. The control rack and computer for the upper and lower compressor DM's is located in Diagnostic Bay 1.

Startup Procedure:

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- 1 Open the door on the front of the DM Control rack and ensure the 150V power supply rocker switch is in the OFF position.
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- 2 Open the door on the rear of the rack and press the Control Rack power supply switch to its ON position. Also check to ensure the VME power supply switch is in the ON position.
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- From any Sun computer (inside the EP Firewall) start the software by typing:
- 3 `ssh computername`
- The *computername* should be replaced by the name in the table below.
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- Start the MSC software, by typing:
- 4 `startMSCID.sh`
- ID* should be replaced by the appropriate number from the table below.
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- 5 Repeat step 5 for each DM in the rack being started.
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- 6 Return to the control rack and turn ON the 150V power supply located on the front of the rack.

(End of Procedure)

Prerequisite:

- WCS Software Shutdown Procedure (S-AB-P-128) has been completed

MSC Shutdown Procedure:

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- 1 Turn OFF the 150V power supply located in the front of the DM Control rack.
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- From any Sun computer (inside the EP Firewall) stop the software by typing:
- 2 `mcsd computername`
- The *computername* should be replaced by the name in the table below.
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- 3 Wait 2 minutes, then turn OFF the power supply to the Control rack on the back side of the rack.
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(End of Procedure)

ID	DM Location	Computer Name
1	Beamline 1 Cavity	rosalind
2	Beamline 2 Cavity	rosalind
3	Beamline 3 Cavity	rosalind
4	Beamline 4 Cavity	rosalind
5	Upper Compressor	belinda
6	Lower Compressor	belinda

Document Release:

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