

Planet Finder Spectrograph Emergency Shutdown Procedures

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Following are procedures for shutting down PFS in the event of a lightning storm. If there are any problems or questions, do not hesitate to call a member of the instrument team, in the order listed below. Suggestions or comments concerning these instructions or the procedure described are very welcome. Please send them to crane@obs.carnegiescience.edu.

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1 While PFS is in storage

1. Turn off the power to the instrument electronics. The power switch is on the back side of the gray electronics enclosure attached to the instrument, near the bottom and the left side.
2. Unplug the power cord from the outlet.
3. Unplug the ethernet cable from the back of the electronics enclosure.
4. After the storm has passed, plug in the power cord to a UPS-supplied outlet.
5. Plug in the ethernet cable on the back of the electronics enclosure.
6. Turn on the power to the instrument. A series of audible “clicks” can be heard coming from the electronics enclosure as PLC relays cycle. The pump for the thermal control system will also begin running and can be heard.

2 During an observing run

1. Turn off the power to the instrument electronics. The power switch is on the back side of the gray electronics enclosure attached to the instrument, near the bottom and the left side.

2. Unplug the power cord from the outlet.
3. Unplug the ethernet cable from the back of the electronics enclosure.
4. Turn off the guide camera power supply. Unplug the power and communication cables from the guide camera.
5. After the storm has passed, plug in the power cord to a UPS-supplied outlet.
6. Plug in the ethernet cable on the back of the electronics enclosure.
7. Plug in the communication and power cables for the guide camera. Turn on the guide camera power supply.
8. Turn on the power to the instrument.
9. Turn on the touch screen on the front of the electronics box. The switch is near the power switch on the back of the electronics box. To operate it, pull it outward and flip. Press the “Menu” button next to the touch screen. Using the arrows, highlight “Internal Thermal” and press “Enter”. On this screen, there is a square labeled “Dewar Heat Off”. Touch the square to toggle the dewar heater. The square should now say “Dewar Heat On”. Turn off the touch screen using the switch on the back of the electronics box.
10. Push the “Run” button on the iodine cell temperature controller. The controller is on the wooden shelf underneath the large white thermal enclosure. Verify that the controller is running. If it is, the display will not say “STOP”.
11. Restart the PFS GUI by typing ‘pfs’ in a terminal window on *zorro*.