

The Automated Planet Finder should be powered down in a specific order. In addition certain systems should be kept on for as long as possible. Below I outline an order for powering off various components of the APF in the event where there will be no power except the UPS and/or a small portable generator.

## Turning Equipment Off

### Computers:

- agc - turn off via switch on case - case in rack next to table to door to second floor
- is the mirror cover closed?
- if not, close via tcc or manual buttons
- tcc - turn off via switch on case - case in rack next to table next to door to second floor
- is the dome closed?
- if not, close via dcc or manual buttons - buttons on third floor for shutter and vent doors
- dcc - turn off via switch on case
- roses - turn off via switch on case - case under table by door to 2nd level
- frankfurt - in small rack near blue spectrometer electronics rack, use /sbin/shutdown -P and/or power button
- dresden - in blue spectrometer electronics rack, use /sbin/shutdown -P and/or power button
- warsaw - in blue spectrometer electronics rack, use /sbin/shutdown -P and/or power button
- hamburg - in small rack near blue spectrometer electronics rack, use /sbin/shutdown -P and/or power button

### Telescope / Dome:

- Open breaker cabinet next to UPS labeled UPS Cabinet
- switch to off telescope
- switch to off vent doors
- switch to off dome drive
- switch to off shutters
- switch to off DCP
- open large cabinet next UPS containing dome electronics
- are there any flashing lights? if yes, double check breaker cabinet

### Electronics Rack:

- LEAVE **ON** THE ION PUMP - this will draw off of the UPS
- turn off Iodine cell controller
- turn off UCam controller
- turn off the lamp power supplies
- turn off anything that is not the ion pump

Items on the floor of the first floor:

**If going on a generator**, the procedure for each is as follows:

find where the item is plugged into the wall, turn off, unplug, plug into generator, turn on.

- find plug for NESLAB.
- turn off NESLAB - switch on front (do NOT use switch on back)
- unplug from wall - if generator available, plug into generator
- find plug for Polycold Cryochiller
- turn off Polycold Cryochiller
- unplug from wall
- plug into generator
- turn on

Leave the ion pump on the UPS, this should be good for 6-8 hours at least.

**If there is no generator available**, so the UPS is the only solution:

- turn off the NESLAB - switch on front (do NOT use switch on back)
- Leave the Polycold on as long as possible

**If the UPS runs out of power:**

- turn off the Polycold
- turn off the Ion Pump
- contact Dale Sanford - the pump down procedure will need to be done

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## Turning Equipment Back On

First, reverse the NESLAB and the Cryochiller power off procedure

If the Polycold and NESLAB went on a generator

- turn off the Polycold Cryochiller
- unplug from generator
- plug into wall
- turn on
- is the pressure ~15-30 psi?
- If not, is the pump making noise?
- If not, plug back into generator. Find out why plug outlet is not working

- turn off the NESLAB
  - unplug from generator
  - plug into wall
  - turn on
  - is it making noise?
  - if it is not making noise, check the manual
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- check that the ion pump is working
  - is it on? if not, turn it on
  - is it a normal value for the pressure (1e-6 to 1e-8 Torr)?
  - is the CCD cold? (this will require going forward a few steps)
  - If not, call Dale Sanford
  - If it is, turn on the Ion Pump again, give it a couple of minutes, does it equilibrate to a normal pressure?
  - If not, turn it off, call Dale Sanford
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- turn on all of the electronics rack equipment that was turned off
  - is the UCAM reporting a reasonable temperature? (-9# - -1## C) if not, check the Polycold
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- open the Dome cabinet
  - open the UPS break box
  - flip on the DCP breaker first
  - flip on the dome shutters on
  - is the DCP breaker still on?, if not turn off shutters and turn on the DCP again
  - once all breakers are On, check the power supplies in the cabinet, they should all be flashing green
  - If any supplies are not flashing green, replace with a spare (in the bottom of the cabinet)
  - If there is only 1 power supply or less available, order more spares
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- turn on the dcc
  - turn on the tcc
  - turn on the agc
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- bring up hamburg - light should be on
  - Bring up warsaw, frankfurt and dresden