

TCSng Rough Operating Notes 10/26/15

Cold Start Power Up Sequence

1. UPS Room

1. Start UPS by following instructions on cork board
2. In UPS room plug in:
 1. GPS (gray AC cord).
 2. Emergency Stop Power 110 VAC (yellow plug)
 3. Rack power 110 VAC, (white and black twist lock)
 4. Rack ground, (black plug)
3. Turn on rack power (black breaker).

2. In Dome

1. Check to see if any electronics are plugged into the east or west orange outlets on the base of the telescope. If so, make sure they are turned off.
2. Turn on Main Power.
3. Turn on Telescope Power.
4. Plug in associated power cables for instrumentation into orange outlets under scope if not plugged in already.
 1. M4K
 1. East Orange Outlet:
 1. Camera power supply
 2. Shutter power supply
 2. West orange outlet
 1. Guider chiller
 2. Powerstrip
 2. Turn on instrument
 1. M4K
 1. Camera power dupply
 2. Shutter power supply
 3. Powerstrip
 4. Guider chiller
 5. Guider/Filter wheel bok
 6. Guider power supply

3. Control Room

1. Plug in the following in the warm room:
 1. Plug in Gerard
 2. Plug in the power strip on the west wall (includes new Dome TV Camer)
 3. Plug in BIGAUX
 4. Plug in all the monitors in the control room (BIGAUX, BIGCCD, Gerard, bigguider, and telescope camera monitor)
 5. Plug in printer relay
2. Turn on the following in control room
 1. Dome TV Camera (white and black toggle switch attached to monitor) and monitor
 2. If using M\$K
 1. Turn on bigccd 1 or 2 depending on which computer is in use
 2. Turn on bigguider computer
 3. BIGAUX
 4. Gerard (under bigccd monitor)
 5. Turn on laser printer

Starting TCSng

1. Log into Gerard using the kuiper password on the white board.
2. Double Click "Safe Telescope Button" icon.
3. Double Click "Paddle" icon.
4. Double click "INDI Server" icon.
5. Double Click "Xephem" icon.
6. Click "RT" button under looping if Xephem is not updating the time.
7. Click "View" and Select "Sky View".
8. In the "INDI Panel" window that opens connect to each of the following modules:
 1. Expand "TCS-NG-INDI"
 1. Telemetry
 1. Connection
 1. ON
 2. Expand "Dome-NG-INDI"
 1. Dome Control
 1. Connection
 1. ON
 3. Expand "FOCUS-NG-INDI"
 1. Focus Control
 1. Connection
 1. ON
 4. You should now have information in each module updating regularly.

Stopping the Telescope (From the Control Room)

Five ways to stop the telescope when moving

1. Use the Large "Cancel" button from the "Safe Telescope Program"
2. Use F9 key to cancel motion and ramp down speed (note: this does not stop the telescope from tracking)
3. Use the F10 Key to disable the telescope, this is a hard stop, only use in emergency!
4. In the "Indi Panel" window
 1. TCS Module
 1. Telemetry
 1. Actions
 1. Cancel
5. Emergency Stop button on old blue TCS rack (last resort!)

Moving the Telescope

1. YOU MUST FIRST GO INTO THE DOME AND MAKE SURE IT IS CLEAR TO MOVE THE SCOPE (ladders out of the way, elevator down etc).
2. To Enable Telescope:
 1. In Indi Control Panel:

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