TCSng Rough Operating Notes 10/26/15

Cold Start Power Up Segence

- 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 wasy 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:
 - 1. Enter TCS-NG-INDI module
 - 1. Telemetry

1. Actions

- 1. Click "Enable"
 - 1. Note red light next to the Actions tab turns green.

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