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19 Mar 2014 (1215-0015 UT) OPERATOR: mcb
WEATHER INFO: Winds-> 3.2 mph @ 277, 18.5 C, 33.8% RH, 609.7 Torr, clear

APA Recommissioning:

1. Tom, Nick, Kevin, Sean, Mike, Bob, Martin and Joe are on site.

2. Sean brought up the custom-shaped pieces of conduit that Tom had ordered from Jeff Ault Enterprises.

3. Tom and Kevin installed the new conduit and ran the main-power cables from the pull box, under the pedestal, to the Base Cabinet. We now have 400 VAC, 3-phase power going into the Base Cabinet--ready for us to throw the switch.
   Working in the opposite direction, we ran another set of main-power cables into the pedestal through the right-yoke, "Elephant-Trunk" bulkhead. (This will run between the Base Cabinet and the Triple Rack.)

4. We finished cleaning and reconditioning the Apex hardware and shims.

5. Sean continued work on the HVAC outdoor unit.

6. I continued work on the control system software:

   Updated the tracker servo display with the code from downtown, tests in developer mode showed no issues. Linked the data to the shared tracker servo data and began first tests in live mode. Tom was able to run his pointing software with the display showing the changes in real time, with no interprocess communication between the two programs. Success.

   While the APA control system reads data values and sends commands to the ACU in 48 ms cycles, the display is currently set to only update every 250 ms. There is currently no need to run it at the full data rate.

   Tom suggested using threshold sensitivity values to keep the display from updating unless there was a significant change.

   For now, the live version must be run on the tracker computer in order to link to a live copy of the shared memory. A daemon process is in the works that will allow the display to be run on any computer.

-JAA

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