

Shift Wizard Questions

I. Preliminaries

- i. Enter name
- ii. Coordinate start of shift
 1. Who was last shifter?
http://hawcmon.umd.edu/hawcmon/dashboard/shifter_list
 2. Contact last shifter
<http://private.hawc-observatory.org/personnel/persons/>
 3. Check recent log entries
<http://private.hawc-observatory.org/logbook/>
- iii. Log-in to experiment control
 1. From topo.nucleares.unam.mx **ssh hawc@control** use standard password
 2. For instructions, see http://private.hawc-observatory.org/wiki/index.php?title=HAWC_Data_Taking#Important

II. Dashboard

- <http://hawcmon.umd.edu/hawcmon>
1. Is main DAQ status normal?
 2. Is HV on?
 3. Is main DAQ running?
 4. Is scaler DAQ running?
 5. What is the Main DAQ status history for past 24 hours?
 6. Is the Critical Temperature history for past 24 hours normal?
 7. Comments:

III. High Voltage

- http://hawcmon.umd.edu/hawcmon/dashboard/ems_hv_page
1. Examine HV plots for abnormalities.
 2. Examine Current (A) plots for abnormalities.
 3. Comments:

IV. Low Voltage

- http://hawcmon.umd.edu/hawcmon/dashboard/ems_lv_page
1. What is the Low Voltage history in crate 1 for the past 24 hours?
 2. What is the Low Voltage history in crate 2 for the past 24 hours?
 3. What is the Low Voltage history in crate 3 for the past 24 hours?
 4. What is the current (A) history in crate 1 for past 24 hours?
 5. What is the current (A) history in crate 2 for the past 24 hours?
 6. What is the current (A) history in crate 3 for the past 24 hours?
 7. What is the current temp in crate 1?
 8. What is the current temp in crate 2?
 9. What is the current temp in crate 3?
 10. Comments:

V. Tank & PMT's

- <http://private.hawc-observatory.org/hawc.umd.edu/site/run-monitor/online-plots/>
1. How many tanks are active?

2. How many 10" (HQE) PMTs are active?
3. How many 8" PMTs are active?
4. What is the average 10" (HQE) PMT rate?
5. What is the average 8" PMT rate?
- 6. How many tanks have 4 active PMTs? NO DATA YET**
- 7. How many tanks have less than 3 active PMTs? NO DATA YET**
8. Comments:

VI. Verify EMS Status and Disc Space Availability

http://hawcmon.umd.edu/hawcmon/dashboard/ems_page

1. All doors should be closed. If not, which doors are open?
2. What is the temp in the Counting House?
3. What is the temp in the Calibration Room?
4. What is the temp of the scaler crate?
5. What is the temp of the FEB1 crate?
6. What is main computer rack temp?
7. What is HV temp?
8. What is HVAC temp?
9. Are all temperatures and pressures normal?
10. What is the disc space used for TDC Data?
11. What is the percentage of disc space used for TDC Data?
12. Is the TDC disc space history for the past 24 hours normal?
13. What is the disc space used for Scaler Data?
14. What is the percentage of disc space used for Scaler Data?
15. Is the scaler disc space history for the past 24 hours normal?
- 16. What are the number of MB waiting to be archived? NO DATA YET**
17. Comments:

VII. Temperature & Weather

http://hawcmon.umd.edu/hawcmon/dashboard/ems_weather_page

1. What is the current external temp on the mountain?
2. What are the current weather conditions on the mountain?
3. Which of the 10 plots are approaching warning levels?
Which of the 10 plots have exceeded alarm levels?
4. For additional info regarding local weather, see following link:
<http://www.wunderground.com/personal-weather-station/dashboard?ID=IPUEBLAA3>
5. Comments:

VIII. Scaler Rates

<http://hawcmon.umd.edu/hawcmon>

1. Examine scaler rate plot for abnormalities.
2. See the following link for individual scaler rate history for the past 24 hours:
http://hawcmon.umd.edu/hawcmon/dashboard/multi_scaler
- 3. Scaler Rate: What is Air Shower Low Threshold (MHz)? NO DATA YET**
- 4. Scaler Rate: What is Air Shower High Threshold (MHz)? NO DATA YET**
- 5. Scaler Rate: What is Muon Layer Low Threshold (MHz)? NO DATA YET**
- 6. Scaler Rate: What is Muon Layer High Threshold (MHz)? NO DATA YET**
7. Comments:

IX. GTC

http://hawcmon.umd.edu/hawcmon/dashboard/ems_gtc_page

1. **NO DATA YET**

X. HVAC

1. **NO DATA YET**

XI. UPS

1. **NO DATA YET**

XII. Tank Water Levels

http://private.hawc-observatory.org/hawc.umd.edu/internal/water_level/

1. Examine tank water levels for abnormalities.
2. Comments:

XIII. Run/Subrun and Reconstruction Plots

<http://private.hawc-observatory.org/hawc.umd.edu/site/run-monitor/online-plots/>

1. What is current trigger rate?
2. What is the current TDC Error?
3. Edges number of hits - good or bad?
4. N tanks – good or bad?
5. N channels – good or bad?
6. N hits – good or bad?
7. Reconstructed core locations - good or bad?
8. Zenith angle - good or bad?
9. Azimuth angle – good or bad?
10. N fit – good or bad?
11. TDC error ratio – good or bad?
12. Comments:

XIV. Coordinate End of Shift

1. Who is next shifter?
http://hawcmon.umd.edu/hawcmon/dashboard/shifter_list
2. Exchange information with next shifter
http://hawcmon.umd.edu/hawcmon/dashboard/shifter_list
3. General Comments:

XV. Submit Entry/Clear Entry