

## Shift Wizard Questions

\*Bold face data is not currently available on HAWCmon

### I. Preliminaries

- i. Enter name
- ii. Coordinate start of shift
  - [http://hawcmon.umd.edu/hawcmon/dashboard/shifter\\_list](http://hawcmon.umd.edu/hawcmon/dashboard/shifter_list)
  - 1. Contact last shifter
    - <http://private.hawc-observatory.org/personnel/persons/>
    - 2. 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](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 Critical Temperature history normal for past 24 hours normal?

### III. Temperature & Weather

- [http://hawcmon.umd.edu/hawcmon/dashboard/ems\\_weather\\_page](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?
- 4. Which of the 10 plots have exceeded alarm levels?

### IV. Tanks

- <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. **How many tanks have 4 active PMTs? NO DATA YET**
- 5. **How many tanks have less than 3 active PMTs? NO DATA YET**

### V. Low Voltage

- [http://hawcmon.umd.edu/hawcmon/dashboard/ems\\_lv\\_page](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?

#### VI. High Voltage

1. **What is the High Voltage history for the past 24 hours? NO DATA YET**

#### VII. Verify EMS Status and Disc Space Availability

[http://hawcmon.umd.edu/hawcmon/dashboard/ems\\_page](http://hawcmon.umd.edu/hawcmon/dashboard/ems_page)

1. All doors should be closed. Are any doors 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 and percentage used for TDC Data?
11. What is the TDC history for the past 24 hours?
12. What is the scaler history for the past 24 hours?
13. What is the disc space and percentage used for Scaler Data?
14. **What are the number of MB waiting to be archived? NO DATA YET**

#### VIII. 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 on any plots?

#### IX. Scaler Rates

1. **What is the scaler rate history for the past 24 hours? NO DATA YET?**
2. **Scaler Rate: What is Air Shower Low Threshold (MHz)? NO DATA YET?**
3. **Scaler Rate: What is Air Shower High Threshold (MHz)? NO DATA YET?**
4. **Scaler Rate: What is Muon Layer Low Threshold (MHz)? NO DATA YET?**
5. **Scaler Rate: What is Muon Layer High Threshold (MHz)? NO DATA YET?**

#### X. General Comments

XI. Coordinate End of Shift

1. Exchange information with next shifter

[http://hawcmon.umd.edu/hawcmon/dashboard/shifter\\_list](http://hawcmon.umd.edu/hawcmon/dashboard/shifter_list)

XII. Submit Entry/Clear Entry

XIII. HVAC

**1. NO DATA YET**

XIV. GTC

**1. NO DATA YET**

XV. UPS

**1. NO DATA YET**