

Data Quality Shifter Manual

DQ Working Group

Shifter Duty

1. Firstly DQ shifters need to check online histograms
 - (a) Check whether all the channels are working. Whether there are "crazy" channels like having abnormally different ADC mean value or ADC RMS value compared with other channels.
 - (b) Check TDC histograms to see whether there are obvious noise.
2. As soon as a file is finished processing by PQM and the figures are shown up on [the PQM webpage](#), shifters should check all the histograms on the webpage.
3. Shifters can also look at [the ODM page](#) for ODM histograms, which should occur ~20mins after the data taking for the entire run is finished.
 - See reference histograms for PQM and ODM in the reference histograms document.
4. Run PMT history monitoring script. Monitor the PMT quantity in the last 8 hours to check whether the PMT is functioning stably during the last period of time.

If shifters find out any problems during shift and can identify which subsystem is not functioning normally, they should contact corresponding subsystem experts from [here](#). Otherwise they should contact the DQ people (Yingbiao Liu, Gaosong Li, Wenqiang Gu) first.