

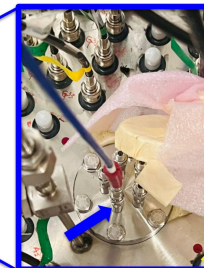


# SBND Operations Report

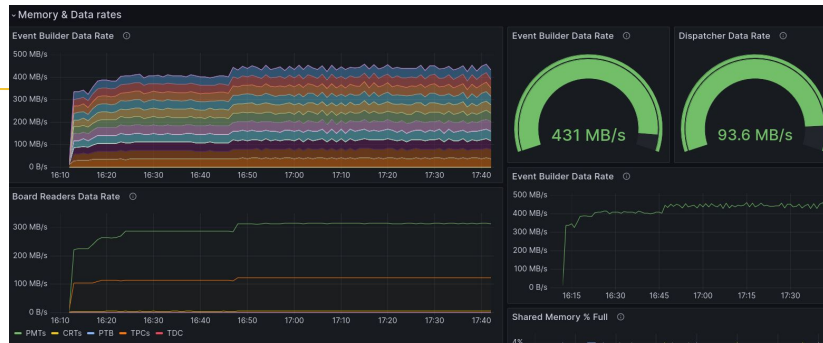
SBND Operations: **Erin Yandel**, Gray Putnam, Monica Nunes  
Proton PMG Meeting  
November 7, 2024

# Power Outages

- On 10/23, had a “fake power outage” where we ramped down the detector but did not turn off all systems
  - We had a few tasks that were going to happen during the next power outage, but the date for this power outage shuffled a few times, so we decided to choose a day and perform them all.
  - Work had to be done on:
    - the rack with our gateway servers (aka no monitoring or remote access to the other servers),
    - some cryo monitoring/control system upgrades, and
    - installing the calibration LED on the PMT flange
  - Ramped everything back up starting that afternoon, all went smoothly
- Had one last *real* outage Tuesday (11/5) morning
  - During this time we switched our cryo pump to the secondary one, which was always intended to be switched every ~9 months or so -> went very smoothly and quicker than planned
  - Installed a new GPS receiver box to replace an old, misbehaving one
  - Ramped up the TPC Tuesday afternoon/evening -> also smooth and now operating
  - PMTs were left off to allow for purity monitor runs to evaluate the effect of the new pump on the argon purity



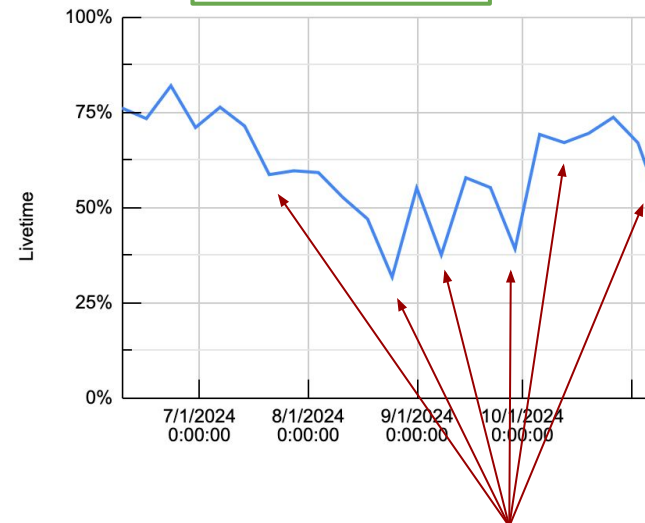
# DAQ and Uptime



- A number of DAQ commissioning activities have been completed
  - Have gotten many more long runs (our record is ~28 hours) with increasing complexity and closer to the expected final DAQ
  - Trigger thresholds all still unoptimized, mostly chosen to make event rates what we want. First few weeks of beam will be dedicated to getting good light thresholds for neutrinos
- New DAQ Servers
  - Have two new servers for our timing system and three new machines to help with event building up and running now
  - In the process of getting 10 new servers installed to replace old, out of warranty ones

## SBND Shifter Runs Livetime\*

\*Excludes DAQ expert runs



Power Outages