



# **NOvA Experiment Report**

## **Update on NOvA Operations**

---

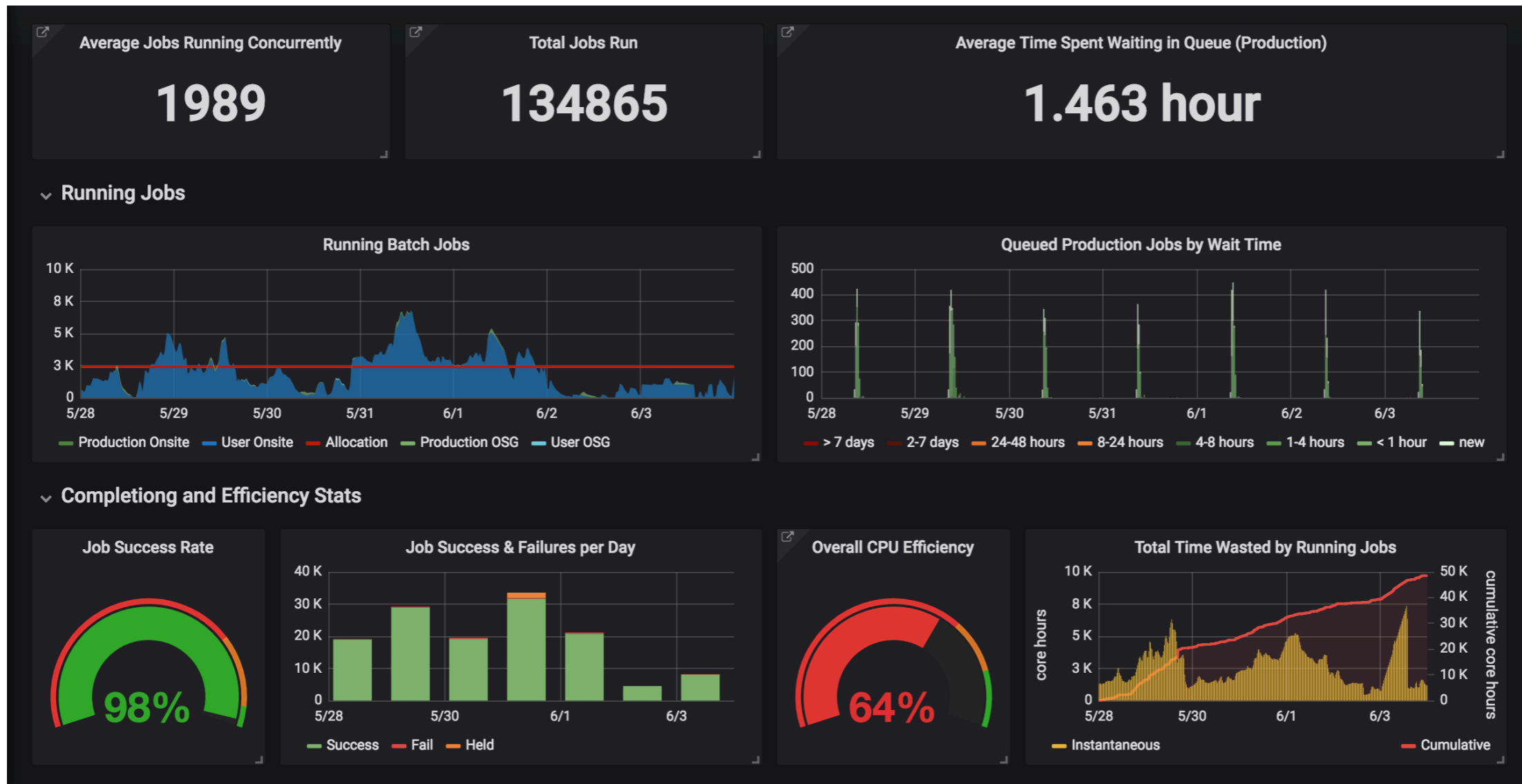
Reddy Pratap Gandrajula, Michigan State University

**Cindy Joe, Fermilab**

AEM Meeting

Monday, June 4<sup>th</sup>, 2018

# Computing Summary:



- The majority of jobs this past week were user job as production jobs had wound down leading up to NEUTRINO.

# Summary of FD downtimes:

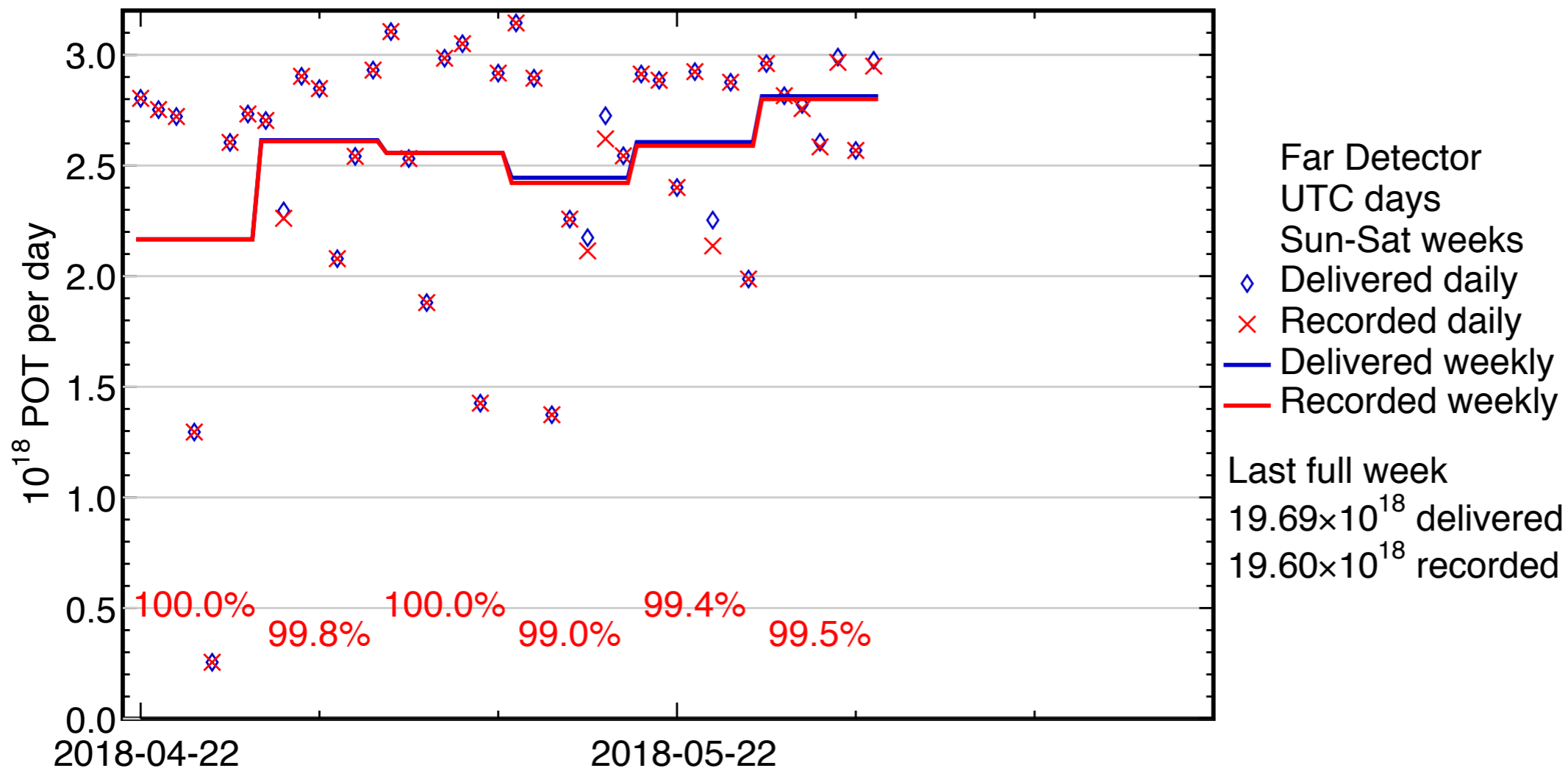
- The compressor #2 tripped on high pressure, then, because the compressor tripped, there were elevated temperatures in the detector hall, which caused a FD run crash. Ash River team addressed this problem by resetting compressor #2, which along with favorable weather conditions brought down room temperatures. Because of this a **total of ~25mins FD downtime** was observed.
- Nova Sites main breaker has tripped on this Saturday due to a compressor short causing a 2 hour power outage at Ash River. Then, because the main breaker tripped and took out power all over the FD site, 1) most of the FD computers were down and also 2) the HVAC unit was not circulating air. Ash River team confirmed with the electric company that the breaker trip was not a utility issue, and contacted an electrician to address this issue. Expert arrived onsite 2 hours later the main breaker trip happened, and restored the power onsite by resetting the main breaker. During this 2 hour power off period, the detector hall/power supply racks got very hot in the absence of airflow. After the reset of the main breaker, the cooling was restored, and the standard FD power outage recovery procedure was implemented. This resulted a total of **~11 hours 30 mins FD downtime.**

# Summary of ND downtimes:

- ND run control disconnection is a very common DAQ problem. There were four of them, resulting in a total **ND downtime of ~1 hour 30 minutes.**

# FD Summary:

Four-week mean POT-weighted uptime: 99.5%



- FY2018 POT:  **$4.67 \times 10^{20}$**  delivered,  **$4.61 \times 10^{20}$**  recorded

- Total nu mode POT recorded:  **$11.46 \times 10^{20}$  ( $8.85 \times 10^{20}$  14 kt equiv.)**

- Total anti-nu mode POT recorded:  **$8.41 \times 10^{20}$**

# ND Summary:

Four-week mean POT-weighted uptime: 99.1 %

