

# SBNONLINE PROPOSED UPDATES

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**EP-NU MEETING** 

NOVEMBER 19, 2020



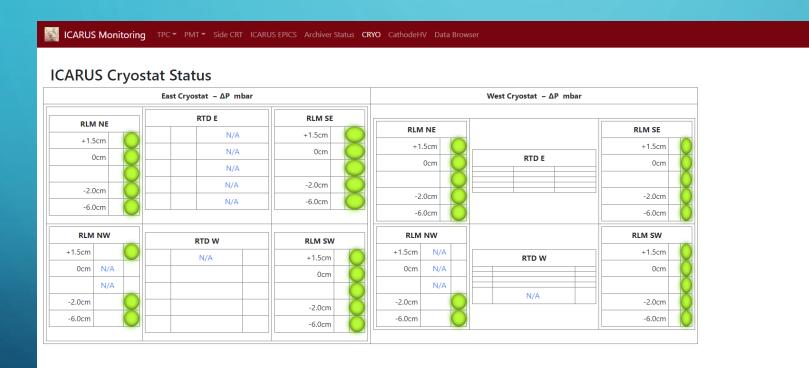


#### **CURRENT STATE**

- Currently SBNOnline provides monitoring for several hundreds of sensors of the SBND and Icarus
- The sensors include temperature, cathode high voltage, PMT status, electrical and timing information
- SBNOnline uses PostgreSQL database which contains data archived from EPICS.
- It's accessed from control room PC (physically or via VNC) after connecting to Fermilab VPN by opening a webpage https://sbn-online.fnal.gov (shortcut available on PC under /home/Desktop).
- This will be changed in the future to remove VPN from the procedure and allow direct access from ICARUS Control Room PC at CERN (based on IP)



## **EXAMPLE (CRYOSTAT STATUS)**









#### PROPOSED UPDATES

- In order to simplify monitoring for the shifters, the unification of all the interfaces is proposed
- For this, DCS sensors, DSS alarms data should be brought to SBNOnline
- First page to appear will contain data from TPC Power Supply units and should be available next week
- The SBNOnline is planned to serve as a unique monitoring and data quality analysis tool for all subsystems of detector and to be used in tandem with control tools.



### DEVELOPMENT PLAN

- First steps:
  - Add TPC power supply sensors pages
    - ETA: November 23-29
  - Fix SQL-Injection vulnerability
    - ETA: November 30 December 6
- Port the code from Python 2 to Python 3
  - ETA: January 11-17 (to be done in parallel to other parts)
- Bring the rest of existing data from DCS to SBNOnline
  - PMTs
    - ETA: January 4-10
  - Electrical
    - ETA: January 11-17
- Bring DSS Alarms to SBNOnline
  - ETA: February 15 March 15 (due to discussions necessary in order to see how to archive alarms in DB)
- Bring newly added data from DCS to SBNOnline
  - ETA: March 15 ... (to be done in parallel and as new sensors are added to DCS)







- Gray Putnam
- George Salukvadze (since about a month ago)

#### • General discussions:

- Geoffrey Savage
- William F Badgett Jr
- Wesley Robert Ketchum
- Angela Fava
- Bruce Howard
- Umut Kose



