

The logo for MicroBooNE features the text "μBooNE" in a bold, black, serif font. A blue oval is drawn around the text, with a black arrow pointing to the right from the right side of the oval. Below the text, there is a faint, grey shadow of the text.

μBooNE

MicroBooNE Status Report

M. Toups, MIT

All Experimenters' Meeting

April 27, 2015

Outline

- Continued Wire Bias Tests
- Remote Viewing Inside Cryostat
- GAr Purge
- Preparing for cool down
- Next Steps

Continued Wire Bias Tests

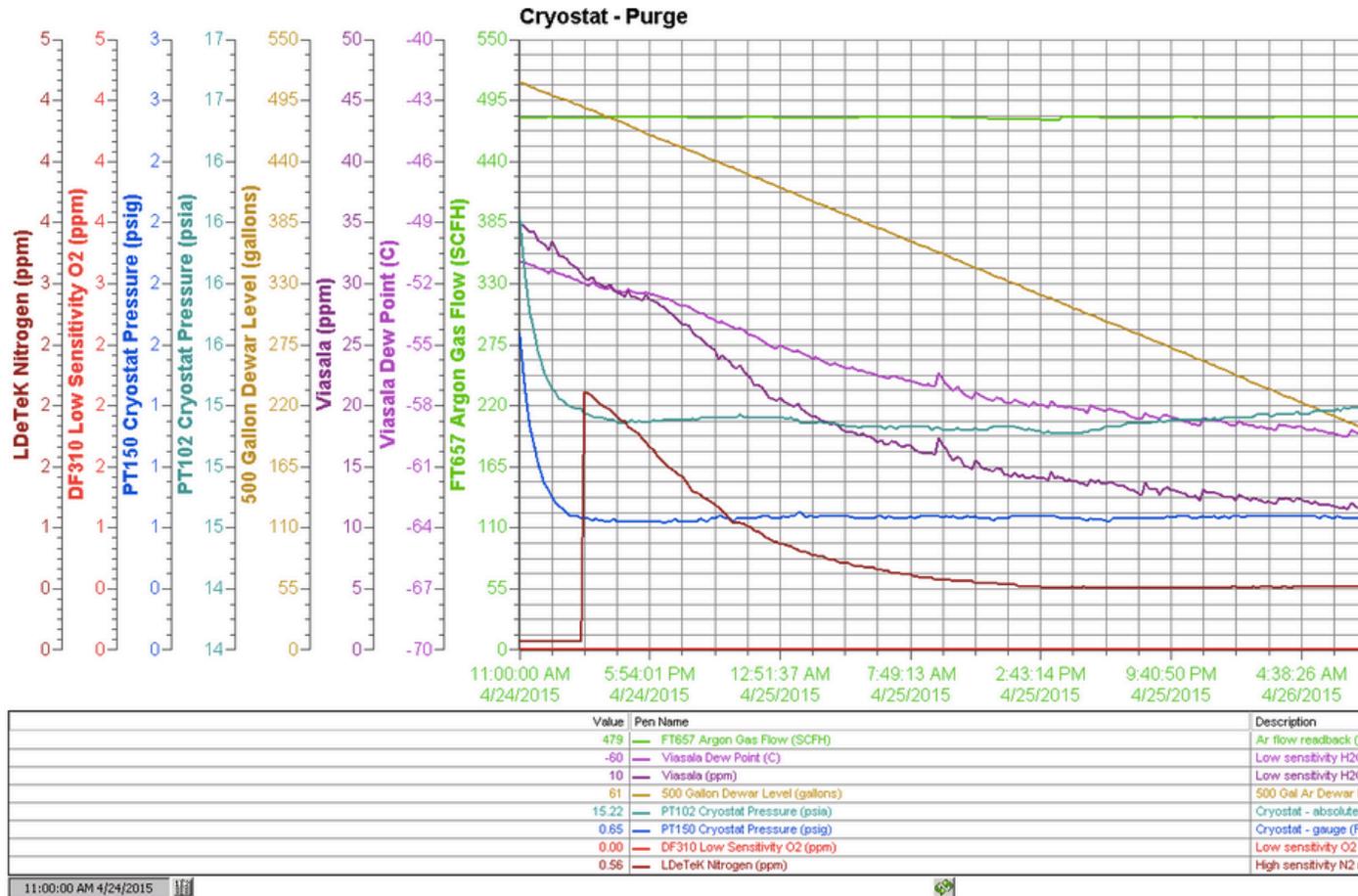
- Full wire bias applied to the entire detector
- No new channels found associated with wire bias leakage current
 - Reminder: $\approx 1\%$ of total wires, $\approx 6\%$ active volume affected
- No problems reading out full detector despite larger leakage current on some feed throughs

Remote Viewing Inside the Cryostat

- A second set of pictures were taken with a higher quality mirror
- No broken wires found
- Proceeding with piston purge and cool down
 - Daily noise runs to monitor stability



GAr Purge Going Well



Purities achieved over the weekend:

- < 10 ppm H₂O
- < 1 ppm N₂
- << 1 ppm O₂

Detector Preparedness For Cool down

- Have been constantly exercising DAQ over the last month taking data from full detector
 - 20 TB of commissioning data collected so far
- Lots of work over past several weeks integrating subsystems into experiment interlocks
- Final review of cool down procedures with cryo and commissioning teams tomorrow

Compressor Turned On In Anticipation of Cool down



Photo from installation 9/23/14

Hearing protection now required at LArTF

 Mining Safety and Health Content
 National Institute for Occupational Safety and Health

How To Wear Soft Foam Earplugs

To get the best protection from your soft foam earplugs, remember to **roll**, **pull**, and **hold** when putting them in. Use clean hands to keep from getting dirt and germs into your ears!

-  **1. Roll** the earplug up into a small, thin "snake" with your fingers. You can use one or both hands.
-  **2. Pull** the top of your ear up and back with your opposite hand to straighten out your ear canal. The rolled-up earplug should slide right in.
-  **3. Hold** the earplug in with your finger. Count to 20 or 30 out loud while waiting for the plug to expand and fill the ear canal. Your voice will sound muffled when the plug has made a good seal.

Check the fit when you're all done. Most of the foam body of the earplug should be within the ear canal. Try cupping your hands tightly over your ears. If sounds are much more muffled with your hands in place, the earplug may not be sealing properly. Take the earplug out and try again.

Next Steps

- This week:
 - Recirculation through warm molecular sieve
 - Tune nitrogen system (heat exchanger)
- Next week:
 - Beginning of cool down
- On the horizon:
 - Shifts in ROC West in June