MicroBooNE Status Report

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All Experimenters' Meeting

June 1, 2015

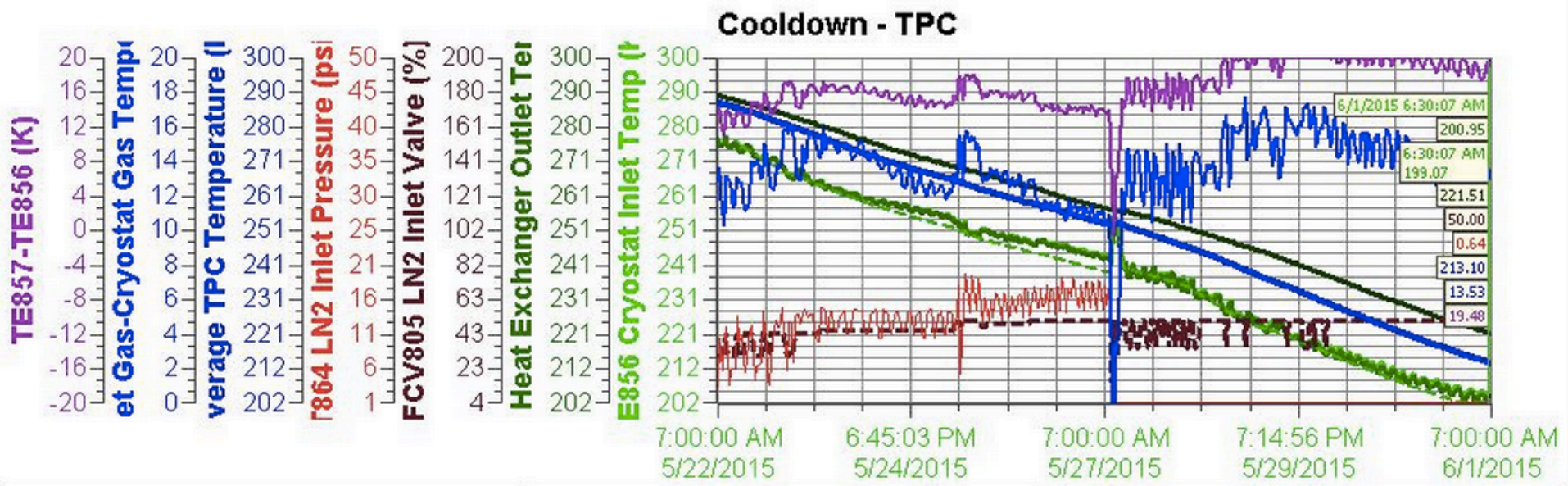
Outline

- Cryogenic Commissioning
- Cool down and Fill
- First Shifts
- Operations

Cryogenics Commissioning

- A number of leaks in the nitrogen lines to the heat exchanger were found and repaired
- Cool down of the detector with GAr began the week of 5/18
- Now cooling down at an average rate of ~8K/ day

Current Average TPC Temperature: 213K



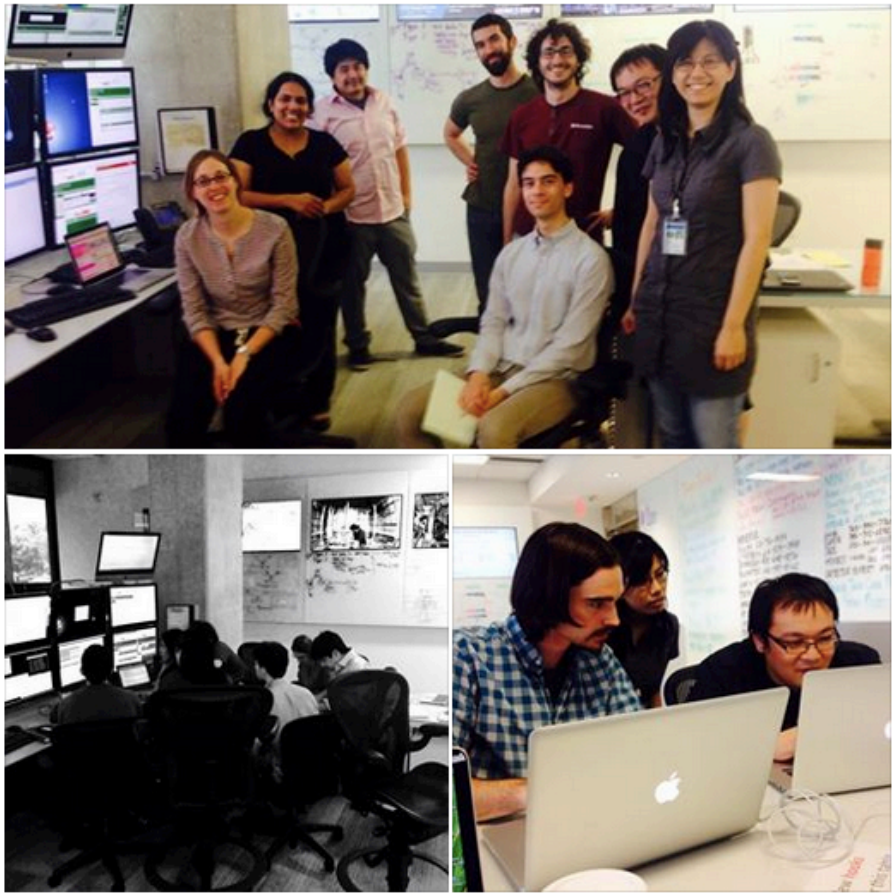
Value	Pen Name	Description
202.0	TE856 Cryostat Inlet Temp (K)	Cryostat cooldown supply (F_CV)
201.0	TE862 Heat Exchanger Outlet Temp (K)	Cooldown supply after HX V-16 (F_CV)
199.1	FCV805 Set Point (K)	FCV805 PLC DERIVED SETPOINT (F_CV)
221.5	TE857 Cryostat Outlet Temp (K)	Cryostat cooldown return (F_CV)
50	FCV805 LN2 Inlet Valve (%)	FCV805 PID OUTPUT (F_CV)
0.6	PT864 LN2 Inlet Pressure (psig)	N2 inlet to HX V16 (F_CV)
213	Average TPC Temperature (K)	UBOONE.TE189_REAL.F_CV
13.5	TE189-TE856 Inlet Gas-Cryostat Gas Temperature Gradient	UBOONE.TE189_REAL.F_CV
19	TE857-TE856 (K)	UBOONE.TE857.F_CV

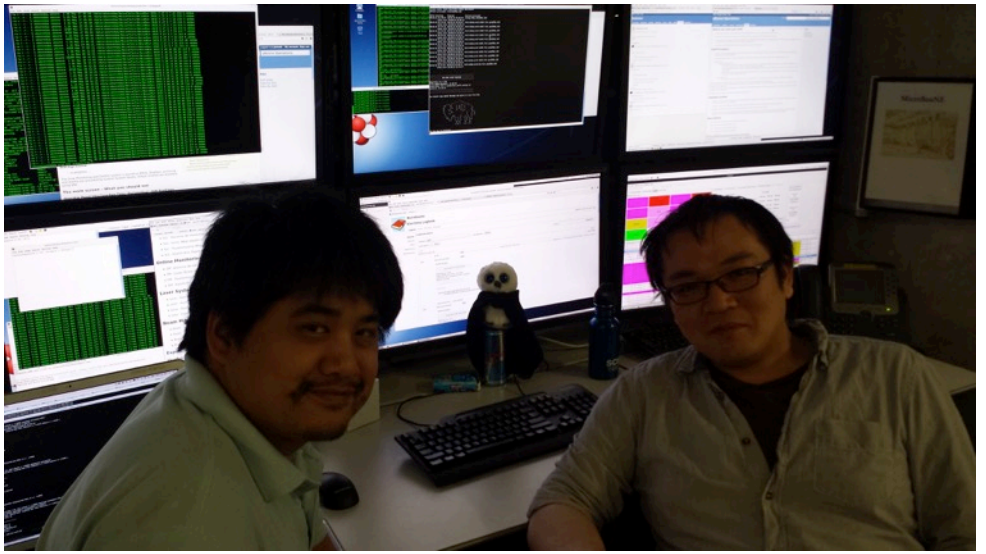
7:00:00 AM 5/22/2015 7:00:00 AM 6/1/2015

Cool-down and fill plans

- Plan to continue to cool down with GAr to ~100 K
- At current cool down rate, estimate reaching this in <3 weeks
- Air Products has been contacted about scheduling LAr delivery

MicroBooNE shifts started today





Operations

- BNB operations meetings were restarted two weeks ago
- First MicroBooNE operations meeting took place today
- Preparing for the imminent start of physics data-taking