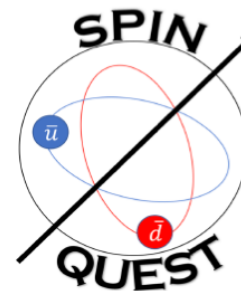


Target status updates

Ishara Fernando *for the Target Group*



UNIVERSITY
of
VIRGINIA



 Fermilab

06/14/2021

COUNTING-HOUSE TARGET SETUP AREA



CRYO-PLATFORM & CONTROL ROOM RACK



BARATRON READOUT CALIBRATION

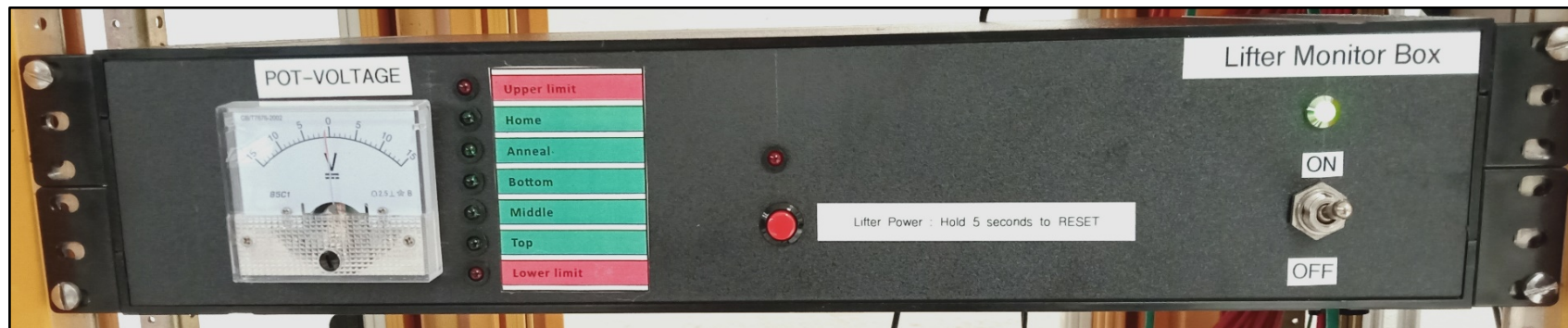


Kenichi & Ishara calibrated MKS baratron readout devices

UPDATES ON LIFTER SETUP



- Lifter Control box ORC – Approved ✓
- Lifter ADC ORC – Approved ✓
- The construction of the lifter monitor system is completed.
- The ORC of the monitor system is in the final stage (almost done)
- Lifter monitor system was installed in the control room rack.



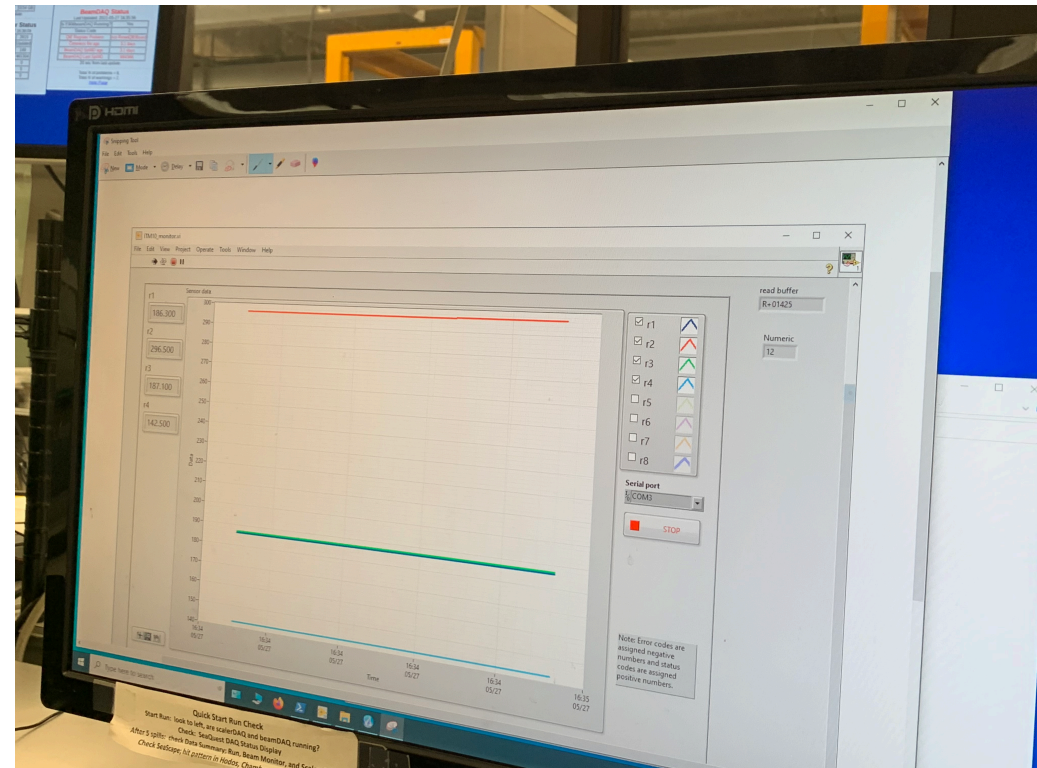
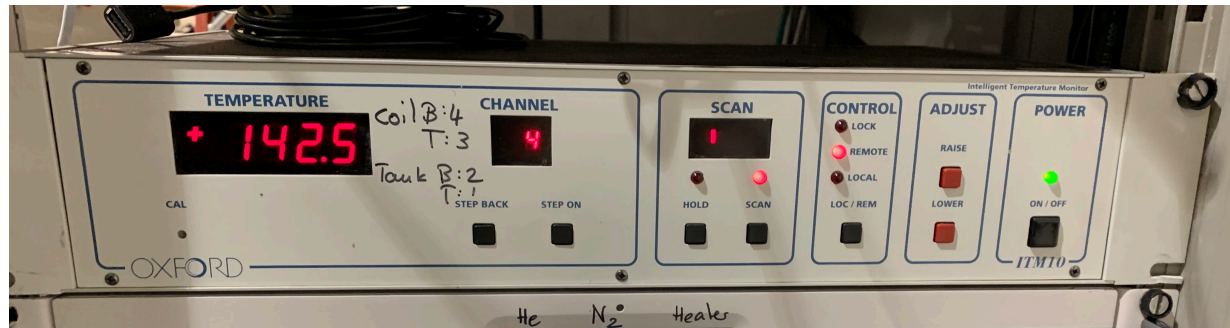
Updates from Vibodha



MAGNET POWER SUPPLY RACK

COMPONENTS TESTS (Misha, Waqar, Ishara)

- Mercury ITM10 was connected to the Target Network and tested the communication from the control room [see elog#2807]



SLOW CONTROLS RACK



- Microwave control system is installed (Waqar)
* Power supply with HV termination box
- Lifter control box and the ADC box were installed. (Vibodha & Waqar)
- The lifter cables in the slow control rack were labeled. (Vibodha & Waqar)
- ORC preparation: in-progress (Zulkaida)



ROOTS PUMPS

- Hose Clamps for the roots-pumps were tightened (by Ernesto)
- LCW leak check was performed by Rick & Frank (06/07/2021):
We saw that the rotary vane (M4 pump) supply level $\rightarrow 0$



ROOTS PUMPS

- Possible reason: according to the manual SV630B(F) : Thermostatic setting

- Need to contact Manufacturer

- Rick tried to bump the roots-pumps motors [see elog#2826 for more details]

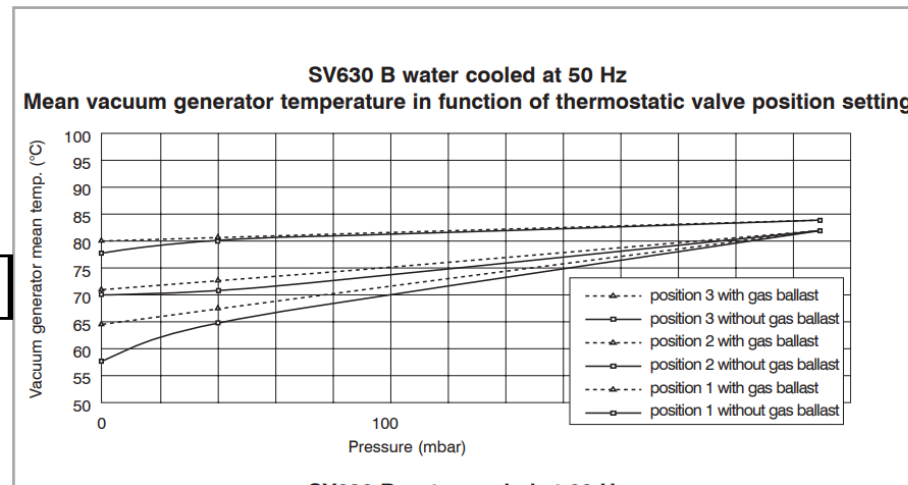
Water cooling

The SOGEVAC® pumps are equipped, in standard for the SV630 BF and as an option for the SV630 B/SV750 B, with a water cooling system and a thermostatic valve. Depending on the local regulations, the cooling water needed may not be taken from the drinking water mains and max. water temperatures must be observed. The water cooling connection is made by an ARGUS type 1/2" x M22 - 150 adapter.

The thermostatic valve regulates the cooling water throughput, and so the pump temperature. The valve is set in standard on position 1.

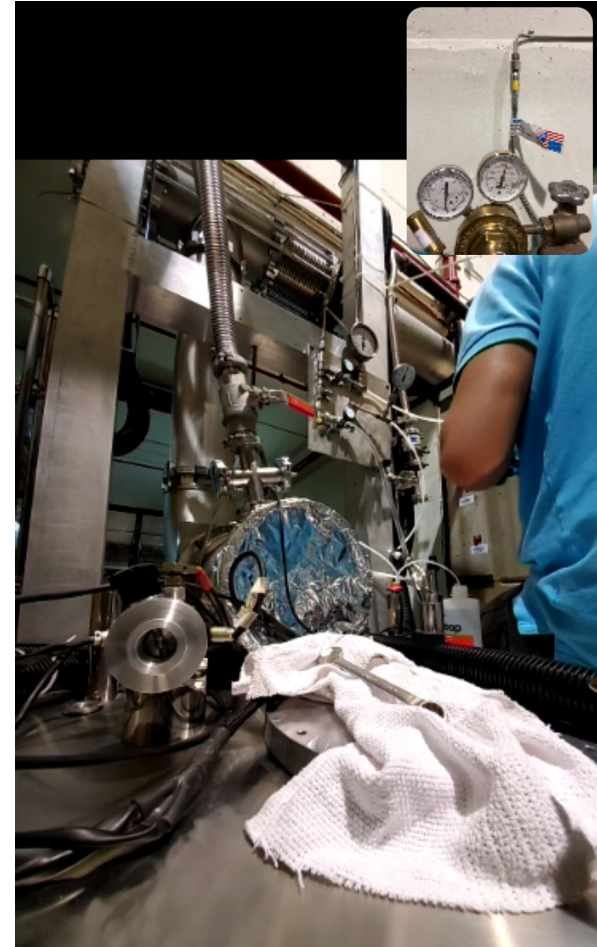
Normally, the thermostatic valve should be set somewhere in the range from 1 to 3. Thermostat setting 1 (valve fully open) produces a low operating temperature of the pump, and setting 3 a high one.

Pumping on vapors requires setting on position 3.



HELIUM BACKFILL LINE

- Working on making sure the Helium Backfill line as seal as possible [see elog#2828]



TARGET CAVE UPDATES

- Helium Backfill line is terminated on the Panel
 - * Separator backfill
 - * Fridge backfill
 - * Auxillary



Helium backfill line connected to the panel: by Waqar & Ernesto

Thank You ...