

LArFCS Progress Report

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Lab Safety Status

▶ Patch of concrete floor outside highbay

- Our response to the incident at Ames lab with tip over dewar
- Work order finished on Friday quickly in coincidence with lab pavement refurbishment project
- The surface is now fixed, the dewar can go through smoothly

▶ Electrical Equipment Inspection (EEI) Inspection to highbay lab

- All electrical devices >50V will be inspected
- Proper NRTL label or comes from a accepted manufacturer required
- They are coming to highbay lab tomorrow. Cleaning up the old equipments

▶ COVID relation issues

- Reminder of wearing face mask onsite



LArFCS Purity Run

▶ **ESR and SOP updates**

- **ESR revision**

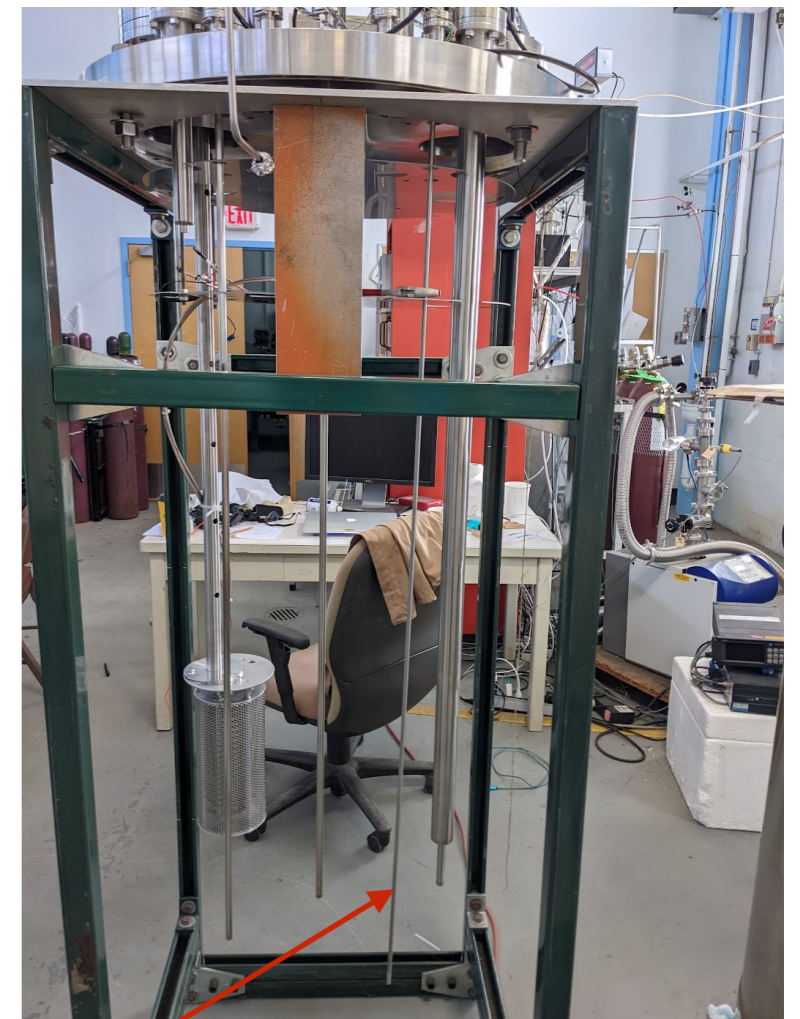
- Current ESR is based on the 20 Liter system one with some obsolete contents
- Thanks for Milind's input, the LArFCS contents added
- High voltage testing with the 30 inch large Krypton dewar content removed
- Operating procedure updated for the LArFCS, will go over the valve index during leak check
- Steve added to the ESR users
- Working with Achim to get the updates in the online ESR system

- **Achim will go over the ESR again before the cryogenic operations of the purity run**

LArFCS Purity Run

▸ Fabrication of LAr sampling tube

- Tube fabricated with 1/4" fresh SS tube by Key High Vacuum
- 1/32" orifice size, 1/4" channel length, tube length is 64"(will be trimmed to the length when plumbing)
- The parts are cleaned and leak tested after welding
- Currently set it to the lowest point of under the top flange



LArFCS Purity Run

► To do list

- ~~Finish the plumbing the activation gas to the LArFCS(Copper tubing)~~
- ~~Setting up liquid sampling dipping tube (After lifting the top flange to the assembly frame) *In production*~~
- ~~Moving top flange assembly back to the main dewar~~
- Plumbing for the tubing to the gas analyzers(SS tubing) *Waiting for SS tubing delivery TODAY*
- Leak check the new added plumbing: gas panel+plumbings added
- Wrapping up heating tape and thermal insulation
- Purifier scrubber activation *After Memory Day*

