

260-L LAr System Progress Report

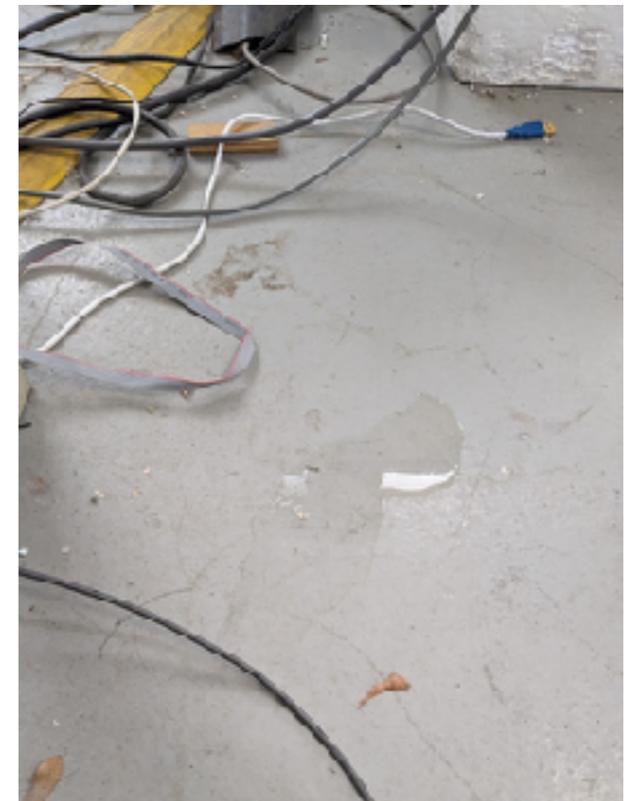
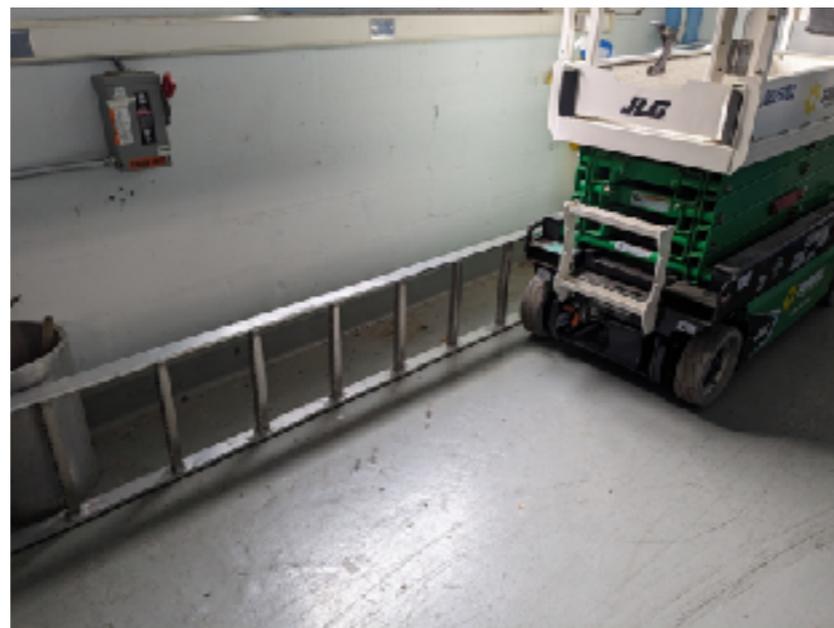
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Lab Safety and Space Management

- Safety reminders for the coming summer students
 - A lot of summer students/interns are expected on-site during the summer
 - Please watch out for the summer students around
- Crane Ladder Replacement
 - Old ladder was removed from the wall last Saturday
 - New ladder has been delivered, waiting for installation
 - Overhead crane is still in LOTO status
- Highbay roof leakage
 - Leakage observed on Monday above the tent
 - Notified building manager and safety for repairing



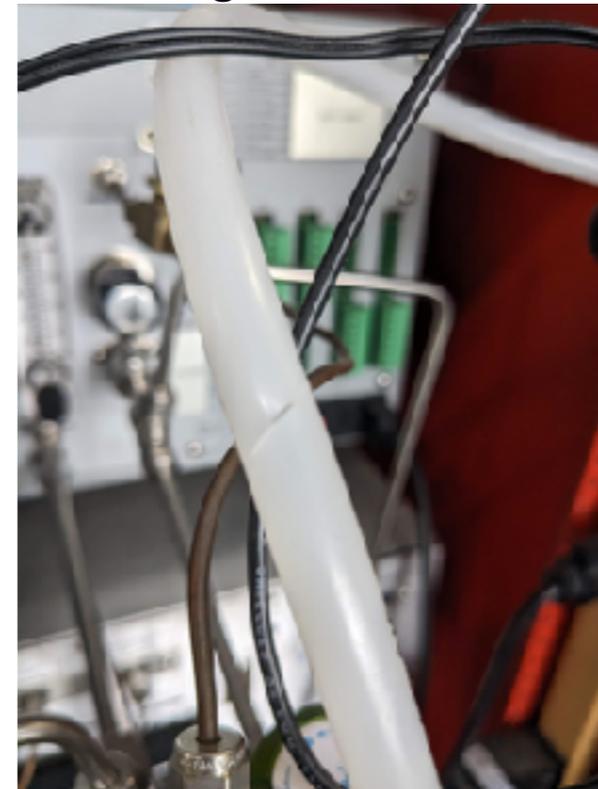
Lab Safety and Space Management

- The plumbing for the 6000-gallon LN2 tank
 - A PO has been initiated
 - Need to draft a SOW given the vendor is visiting the lab for site survey and installation
 - It is expected to start at FY24
- We have hoisted the NuSTEAM school for the
 - I gave a lecture about LArTPC and cryogenic
 - Followed by a lab tour



260-L System 2nd purity run

- **Inline filter performance validation test**
 - Delayed due to leak detector troubleshooting
 - Commercial Ar connected to the gas analyzers
 - Gas analyzers and hot getter had a running issue and just found it was caused by a broken compressed tube, replacing the tubing
- **Leak detector troubleshooting**
 - Followed all the instructions from the vendor
 - The issues still occurred randomly
 - Going to pump on a smaller vessel to future investigate



Additional Updates

- The final quote for the UHP burst disks was received
 - 3 types burst disks included
 - 2 for the inline filter and filling line with 70, 100 psig burst pressure
 - 1 for the 260-L main dewar. The vendor was able to provide ASME compatible burst disk at exact 15 psig burst pressure, allowing additional safe working range
 - Total for 8+8+8 pcs is ~\$12k, but should be sufficient to last for a long time
 - Waiting for the technical drawing to put in the PO
- **LXe Collection Effort for PIONEER test at PSI**
 - Actively trying to get safety compliance cylinders quoted with Airgas in the size of 80A
 - The size recommended by safety for transfer operations
 - The quote was called off because of internal restrictions by Airgas
 - Cylinder filled with gas quoted with a surprisingly low price
 - Having a meeting with Airgas gas cylinder tech support to clarify the info
- **New Inline filter Materials PO difficulties**
 - The vendor RCI cannot fulfill the vendor requirement of BNL with registration with small business
 - The buyer is trying to make a third-party procurement
 - Just inquired with procurement to see if it can be purchased on CC