

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
- Electrically Competent Person Training Updates
 - A new safety role to adapt the new NEC/NFA code effect from 01/01/24
 - Some updates:
 - Additional precautions for electrical equipment with 50V+ voltage
 - Enforcement on the certificate for electrical equipment
 - Operation procedures for LOTO and high capacitance device discharging
 - All the contents of the new electrical code will be added to the lab electrical safety training
 - My role is to ensure compliance with the new code in terms of UL certificate/lab approval etc. Sign-off relative docs.
- Crane Ladder Replacement
 - The ladder is planned to move to the other side
 - Manlift in place, access to highbay will be restricted once the work starts this week



New Leak Detector Debug

- Still have the same pumping issue with the new leak detector
 - The symptom is the pump bounces back immediately to the stand-by model very often
 - The first attempt following the instructions did not resolve the problem.
 - Sent system logo file to Pfeiffer tech support for diagnosis
 - “...they indeed have a critical issue that must be resolved; otherwise, this can permanently damage the ASM if continued. In short there is a sudden pressure spike occurring and causing a rapid deacceleration of the high vacuum pump.”
 - Instructions were provided to debug the issue
 - Going through steps to address the issue
 - The problem occurred only when pumping on a working volume, no issue if pumping limited to on the detector itself



260-L System 2nd purity run

▶ **Inline filter performance validation**

- New LAr delivered to lab
- Plumbed in the system, ready for performance validation test
- The system pumped down again on the leak detector for debugging
- Will start as soon as the finish the debugging steps suggested by the tech support



UHP Burst Disk

- ▶ **Quote received from the vendor for the UHP burst disk assembly**
 - The vendor provides 4 different solutions
 - Unit price is ~\$600 with maximum order per batch up to 8pcs, minimum order 2 pc
 - I'm going to go over the specs details with the vendor to determine the one we need
 - Lead time is 2-3 weeks after ordering, future product could be even faster

