

LArFCS Cryogenic System Progress

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LArFCS Purity Monitor

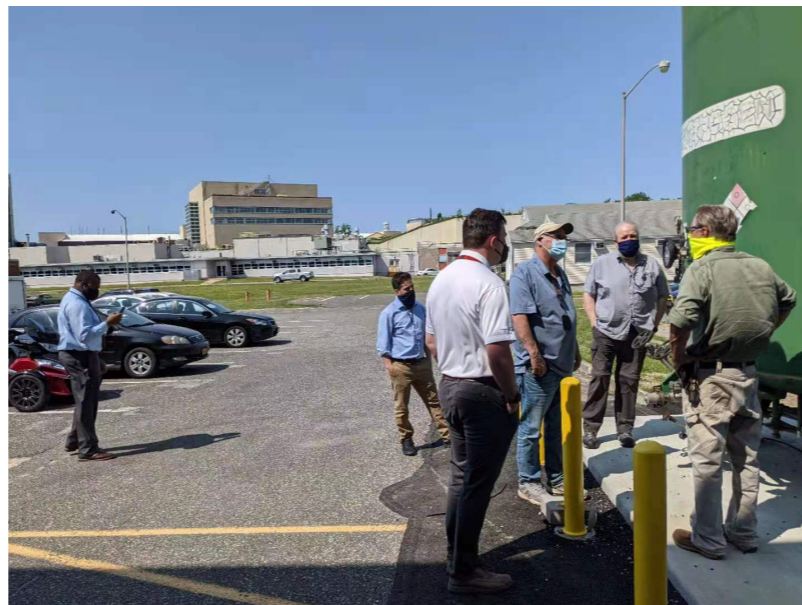
- ▶ **PrM Implementation in LArFCS system**
 - Construction started at the UCI
 - HV feedthrough on order
 - Waiting for feedback on the insulating glue situation
 - Sending the 2nd shipment to UCI next week



6000 Gallon LN2 tank

▸ Meeting with Lab Safety for commissioning the tank

- Meet on Last Wednesday
- Attendants: Mike Gaffney, Tom Doyle, Achim, Brandon Thorne, Kevin Reilly, Dan Forino, Russ, and me
- Mike laid out the steps to get safety approval of commissioning the tank
 - Operation procedures and documents
 - Vacuum quality check to ensure the vacuum insulation integrity
 - Pressure test to check the integrity of the plumbing up below 50 psi
 - Replacement of the burst disk, and radiator (optional)
 - Test cold filling with minimum amount of LN2
 - Paint the tank (optional but strongly recommended)
 - Final lab SME review
- Hong was asking a summary, draft available at https://docs.google.com/document/d/1vXnzWTJSOuGJI_gsGGgeR4rIQ1aYCacuj34e4ZhfKjQ/edit?usp=sharing, Please let me know your comments and suggestions



6000 Gallon LN2 tank

► Preparations for the commissioning following lab safety guidance

- Operation procedures and documents
 - Tank operation manual provided to Mike with all the procedures
- Vacuum quality check to ensure the vacuum insulation integrity
 - Vacuum reading was acquired from the tank with help from Magnet Division
 - Reading is 110 mTorr, slightly higher than typical vacuum of 50 mTorr for such tank
 - Vacuum would improve under cold, still operational with more boiling-off
 - Confirming with Mike for the operation
- Replacement of the burst disk, and radiator (optional)
 - F&O has not ordered the parts
 - The commission can be proceed with the items order, radiator is optional
- Pressure test
 - The test can be run under minimal pressure as low as 15 psig
 - A hold test to verify the plumbing of the tank is still good
- Paint the tank (optional but strongly recommended)
 - Mike strongly recommend it
 - Tom needs a new WO to do it
 - A painter is currently working onsite with the Mag Division Tank, cost is ~\$3000

