



BERKELEY LAB



2x2 RunCo Update



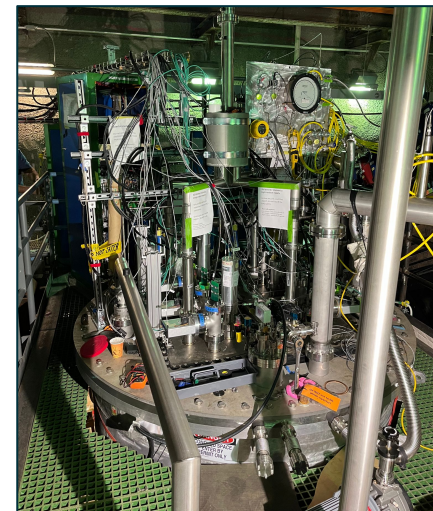
Light ADC Rack

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March 27, 2024

ND-LAr Management Board Meeting



Cryostat lid (March 14)

Underground Access

- Reacting to elevator incident and ensuing access issues
 - Fall protection + on-the-job human-basket training yesterday taken by large group of onsite people
 - Still need sign off from FSO (+ directorate)
 - Timescale very uncertain
- LS, LZ, JR, and KW created a ~prioritized list of tasks we would like to complete once we do regain some level of access
 - Ready to hit the ground running once we have clearance
 - Materials are being collected and organized

March 20, 2024

Prioritized 2x2 detector work list for underground. |

This does **NOT** include work related to the cryogenic system (e.g. setup replacement cryo control computer, purge, over-pressure test, PRV installation, tighten indium seal) nor the ODH HVAC system (e.g. installing blower fan).

In the event we have the opportunity to perform any of these items by a non-expert, a detailed procedure will be written, approved, and communicated to the one performing the work ahead of time.

Task	Time estimate	Expertise needed / details	Requirement for LA? If?
*Verify the state of racks	30 mins	Tech can be trained. For each rack, record what is powered on. Note any alarms or anything else of note. Take pictures of each rack front and rear.	NO
Install Mod2 UPS	1 hour	Tech can be trained	YES
Mod2 UPS ORC	1 hour	ORC committee	YES
*Retest HV feedthrough conductivity	30 mins	Tech could be trained by HV FT expert	YES
*Install PPS Cables	2 hours	Tech can be trained, but prefer to have a LRD expert (Tom or Livio) do this work. Connect cables from NIM units in light ADC rack and route to the pacman units on the detector. 10 cables total.	NO
*Install 2nd Mod0 SC stack	10 minutes	Tech can be trained	NO
Install camera	30 minutes	Tech can be trained	NO
Finish purity monitor installation	TBD	TBD Procedure	NO
Purity Monitor ORC	1 hour	ORC committee	NO

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M2 FEB replacement	TBD	TBD	NO
*Reboot ev03 and swap PDU	1 hour	None	NO
Install remaining HV components	2 days	Expert required. - Install cable from Spellman to filter - Fill filter pot with mineral oil - Connect 4 cables already attached to cathodes to the filter pot	NO
HV ORC	1 hour	ORC Committee	NO
Connect LRS cables	1 day	Expert required. Can only happen after the indium seal is tightened.	NO *strongly preferred*
Install RWM fiber (2x2 and Mod2)	???	???	NO
*Bring up old DC cables	5 min	There is a blue bin on the upper level near the stairs on the back wall where the cables are if these were moved to shelves). If someone could bring it up, that would help the techs make the spare cables	NO

Shifting

- Control station in ROC-W is set up
- LS and LZ are starting to fill out the wiki with information for shifters
- Planning for a series of dry runs to exercise CRS DAQ, CRS DQM, and develop associated shifter checklists:
 - Tuesday, April 2 from 9am to 9pm CT: pedestal run
 - Thursday, April 4 from 9am to 9pm CT: self-triggering run
 - Tuesday, April 9 from 9am to 9pm CT: self-triggering run



Experiment Operations Plan (EOP)

- Outline put together ~ 1 month ago based on previous EOP's for similar scale experiments
- Luis and I are going to iterate on that outline today and brainstorm some names to request writing sections
 - Goal: keep it as simple as possible while still covering all the relevant information
- Send out requests later this week? (better to come from MW/DD?)
 - Will include template to be filled in along with an attached example from previous, successful EOP