

LAr R&D Progress Updates

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Lab Safety and Space Management

- Interview by SME on updated Cryogenic Safety Subject Area in SBMS
 - Chosen by Peter and Mike for the interview
 - A combo of users' experience survey and exam
 - The duty of the cryogenic safety shifted from cryogenic safety committee to SME, as part of lab organization change
 - The essential safety content has not much change
 - Went through 6 questions about the cryogenic safety
 - Overall smooth and good feedback from SME
- Power dip in the lab
 - Very frequent in the past days
 - It seemed caused the stop of vacuum pump once

Purchase Budget plan for FY 26 end purchase

Current plan: \$12,358.18

Target: \$12,000 spent by September 30

Item	Source	Qty.	Price	Consideration	Note
EJ-286 WLS plate	Eljen Technology	5 plates	\$2,075.00	Committed spending	Vendor will process the credit card first
Optical components	Thorlabs cart 4UUA003Q2LFU	Cart	\$2,487.46	Items can be adjusted	Usually ships quickly
CF signal feedthrough	Accu-Glass 25D2-450	1	\$967.00	In stock / web order	25-pin D-sub connection
DB25 to 8 x BNC cable	Newegg	1	\$155.99	Available for credit card purchase	Signal breakout cable
DB25 to bare-wire cable	Newegg	1	\$42.99	Available for credit card purchase	Signal breakout cable
Keithley 2231A-30-3	Test Equipment Depot	1	\$1,130.50	Check credit card eligibility with admin	Low-voltage triple-output supply
Broadcom AFBR-S4N66P024M	Mouser	40	\$2,571.60	In stock / credit card purchase	Off-the-shelf SiPM option
Broadcom AFBR-S4N44P014M	Newark	40	\$937.20	In stock / credit card purchase	Off-the-shelf SiPM option
NI USB-5133 DAQ	Seagulls Industrial	1	\$1,990.44	Confirm availability before purchase	Direct NI price about \$3,000
Total planned spending			\$12,358.18	\$358.18 above the \$12,000 target	

Procurement timing and decision points

The September 30 deadline favors in-stock items that support credit card purchasing.

Priority actions

- Confirm Seagulls Industrial stock and delivery for the NI USB-5133 before placing the order.
- Ask the credit card administrator whether the Keithley 2231A-30-3 purchase is eligible.
- Finalize the Thorlabs cart after confirming the remaining budget adjustment.
- Place Broadcom SiPM orders through Mouser and Newark while distributor stock remains available.

Budget and equipment constraints

- CC order cannot exceed \$2500 total per order, \$10k per month (may changed)
- WLS plate spending has already occurred. The vendor plans to run the credit card first.
- Hamamatsu S13370-6075CN SiPMs cost about \$250 each and will not arrive in time. Broadcom parts provide an available September option.
- The Keithley 6517B high-voltage DC supply costs about \$10,000 and exceeds the available budget range.
- The NI USB-5133 vendor price is \$1,990.44, compared with an official price near \$3,000.
- Excluded: Keithley 33600A, Keithley 6517B high-voltage supply and Hamamatsu S13370-6075CN SiPMs due to cost and/or delivery timing.