

LSD Deputy Report

103 days to Beam

56 days to HCO

July 3th - July 17th

Dianne Owens

July 17th – today

Ken Baggett

LSDD Rotation Summary

- **FML:**
 - N/SLinac HVAC - AHUs for new 12GeV RF zones cooling (ducting and installation) 90% complete. Working on piping installation outside at units.
 - MCC renovations continued (mid August move in)
 - CHL1&2 Pump Emergency Start Function repaired and tested.
- **Cryo:**
 - Continued maintenance - 2K Coldbox trips, 2L13 JT valve
 - Supporting XD & CM commissioning
- **Metrology (S&A/MMF):**
 - Ongoing: 0LOR & 2R 2b, 2T line 2a, NE and SW S/R region 2B alignment
 - YA beam protection device survey checks completed.
 - Completion of S/R ZA dipole magnet measurements.
 - Remaining dipoles needed for operations – 1 JF, 1 ZA, 1 YR, 1 Lambertson
- **Installation:**
 - Many dipoles installed. All dipoles in the 4 S/R regions and E&W ARC's installed!
 - XP's installed to complete ARC's
 - ZA's , YB's, YR's to complete S/R
 - Pushing through LCW work in several areas of the machine:
 - LCW connections: Warc, 2S, 1S regions, 2T & SL girders, Started inst. WArc pass 10 LCW manifolds.
 - Manifolds for ARC 10
 - Shunts and dipoles in S/R regions.
 - Septa filtering system
 - Beam line installed in many places - 0L/OR now under vacuum, beam tubes for 1st spreader leak tested, 1S region connected to first valves in E ARC should be completed today.

LSDD Rotation Summary

- **PSS:**
 - NL BLM MPS system checks
 - Initial checks of communication between CAEN power supply and EPICS looks good.
 - ODH wiring changes in W1 and MCC completed
- **I&C:**
 - Many cable pulls and relocation – RF 1L21 to 1L26,
 - Upgraded Injector Network
 - IHABS01 harp & SLM testing underway using LLA's. So far, so good!
- **DC Power:**
 - New ARC 1 Power supply delivered!
 - Cleanup of N&S Linac PS room done
 - Connected magnet girders OL04/5/6, OR01/2
 - Continuing with 20 Amp Trim Power Supply Cable Pull In The BSY (more than 50% complete)
 - Cont. XD Tagger ramp cable pulls
 - Cont. XP 4m dipole cable pulls.
- **Cont. RF & SRF recovery/re-commissioning (see SRF report for current progress)**
 - NL Klystron and solenoid calibration and installation
- **XD:**
 - Beginning initial testing of solenoid magnet for commissioning & mag field mapping
 - 15A power cycling and low resistance measurements completed.

SAD Calendar:

<http://accweb.acc.jlab.org/calendar/view-outlook?year=2013&week=30>

Snip of mid-week LSDD rotation:

- High task loading both in the tunnel and above ground during “day” shift
- Tunnel lock-up at 1530 for CM SRF recovery
- Facilities Management installation work in NL and SL buildings to cool new RF zones

Activities conducted against a back-drop of preparations for and system reviews held by Ops.



AHU at SL. Ducts running through walls and inside building.





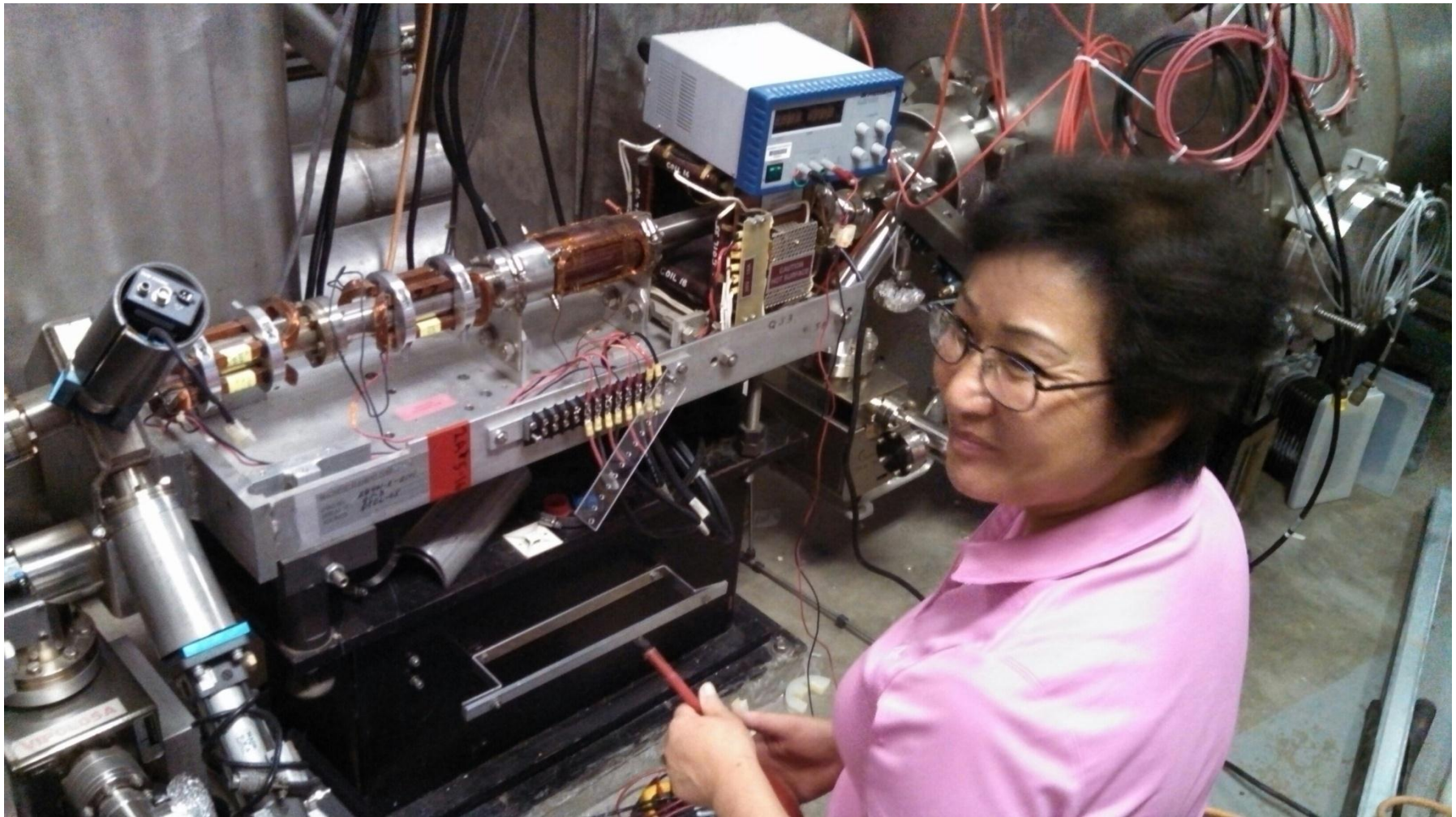
Arc 10 4 meter dipole cable installation

ARC 10 LCW Manifold Installation





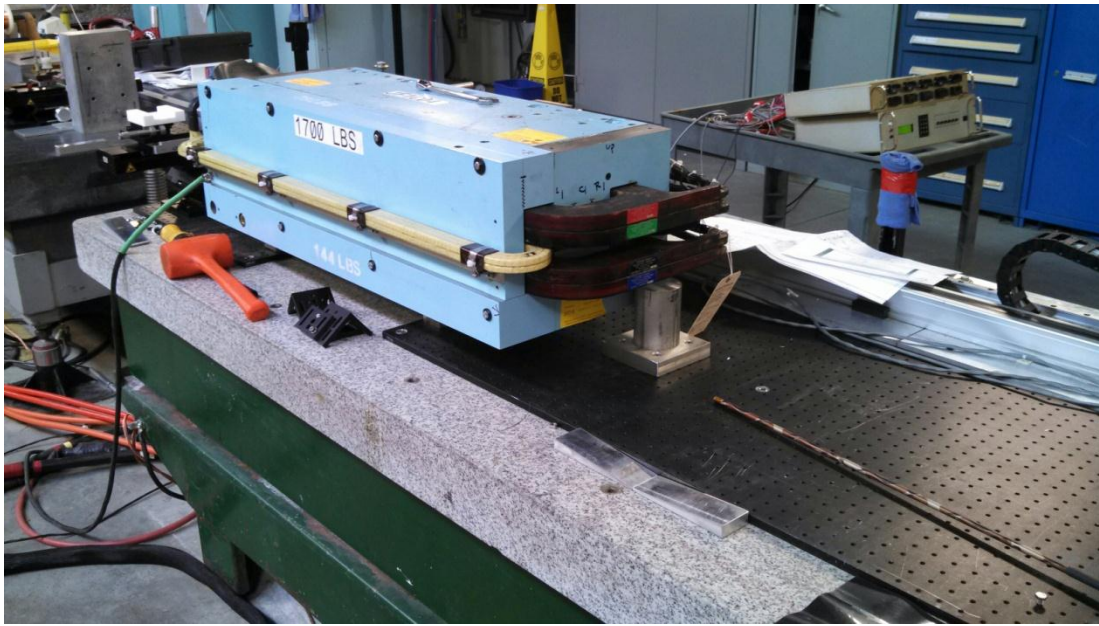
YB Septa Alignment in 1S
(obviously happy work...)



Terminating girder components in 0L/OR

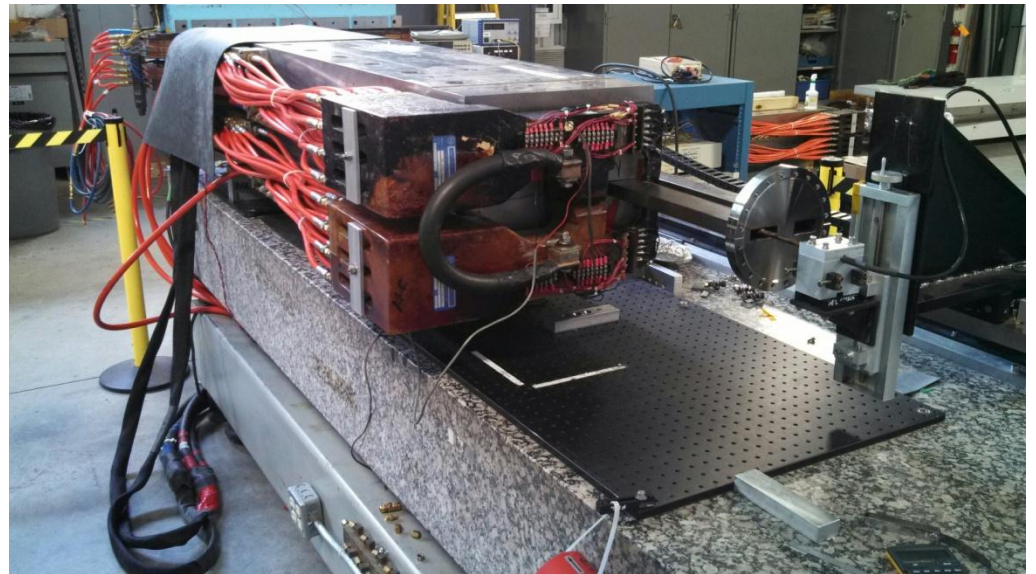
Extraction dipole and quad alignment

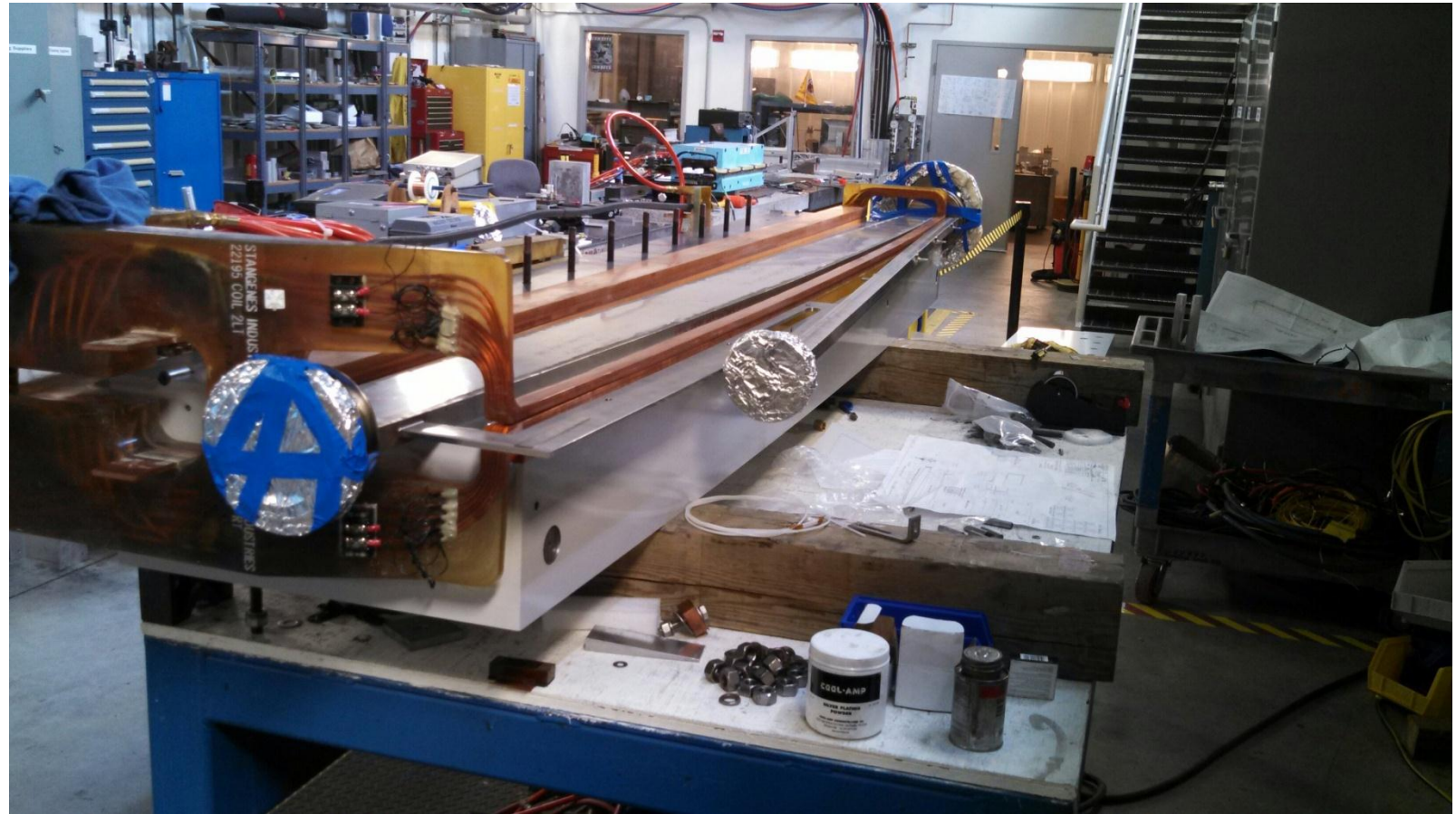




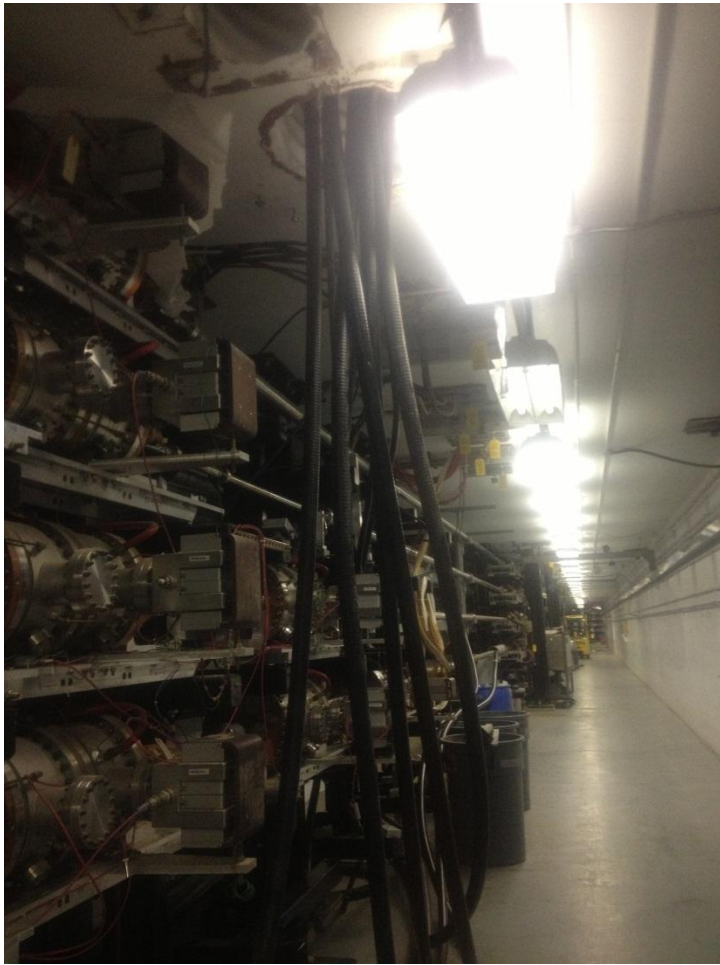
JF dipole (Hall line A)
prep for measurement.

YR magnet measurement
under way (last YR).





Last ZA (new 3m septa) being assembled for measurement



2S (W2) Heliax
installation ongoing.





New ARC 1 Box Supply!



Finishing up beamline hookup (1S to EARC)