

1:30 Wed. – Resource Planning Meeting

- **Purpose**

- **Glance back at previous 2 weeks of progress**
- **Bring up/discuss mid-term issues (3-6 weeks out)**
 - Communication of change requests
 - New scope – may not rise to the level of a CR
 - Overall schedule challenges - shifts or dependencies
 - Staffing issues
- **Review of safety performance (EHS&Q)**

LSD Resource Planning Meeting

Standing Agenda

- Glance Back / 2-Week Look Ahead /
Change-Control Board (CCB) Report 10 min.
- Safety Report 5 min.
- Key Service Provider &
Project Lead Reports 25 min.
- Special Topics (by request) 5 min.
- Meeting Recap / Parting Shots 5 min.

Today's Agenda

- Introduction - Will
- Glance Back & Look Ahead - Fulvia
- Safety Report – Mary
- Service Provider & Project Lead Reports
 - PEPPPO – Eric
 - Survey & Metrology – Chris
 - 12 GeV Accelerator – Leigh
 - Installation/Vacuum – Anthony
- LSD Deputy Handoff – Steve -> Randy
- Recap - Fulvia

Look back and glance ahead

Fulvia Pilat

LSD Resource Meeting

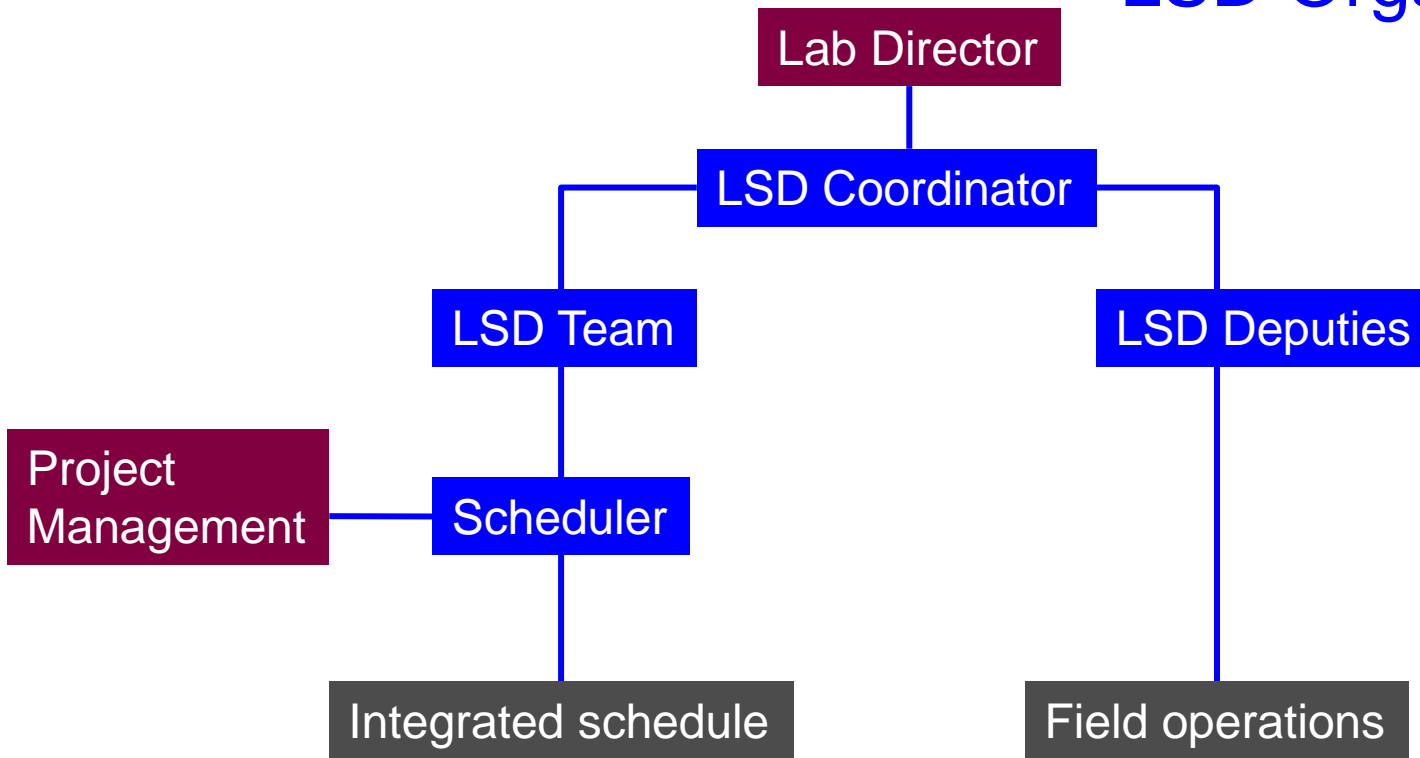
June 6, 2012

LSD structure, 3 weeks into the down

‘Ingredients’

- Lab-wide integration - add cryo off-project, TLA milestones + impacts
- Project management structure and support (no budget)
- LSD Team – in place
- Integrated schedule, baseline, progressing (monthly) and change control
first progress out for collection end on May, progress was due June 4th – updated schedule will be completed end of this week
- Resource allocation and leveling – first pass done (Hall B and C to come)
- Progress monitoring (RAM meeting, biweekly, today), planning (weekly)
- LSD execution, daily 8am, LSD Deputies – LSD rotations in place till Sep 2012
- ESH&Q practices, risk registry, lessons learned - Started on Risk Registry

LSD Organization



- **Team:** coordination, priorities, problem solving
Representation from all Lab parties with scope of work
Appropriate level
- **Integrated schedule**
- **Risks tracking**

Recommendations from Lab Dir's Review (May 16)

- LSD Team to review meeting structure and LSDD role and make adjustments as needed - **will test system “experimentally” and adjust as necessary, core team of 7-8 LSDD’s**
- Contingency status needs to be clarified for the full schedule - **not yet addressed**
- CHL1/cryo maintenance - in progress
- Continue extensive use of safety wardens, WSC, managers in the field for input - **to be understood**
- Rework the risk registry for outward (6 months and on). Use methodologies for the 12GEV project and TED risk registry - **started, risk registry update monthly**
- LSD Team will work to respond to these recommendations - **as per Mont, the response is not urgent, time scale 1-2 months or so**

First (almost) 3 weeks

- Up to a good start
- No overarching problems so far (that I heard of, but looking forward to this meeting to prove me wrong and/or set the record straight...)
- PEPPo running (will hear report)
- Some manpower issues to be resolved (end of this week)
- Halls started “demo” activities

I look at this meeting not as a performance, but a real opportunity to raise issues, so don't be shy.....

Look Ahead

- 8 week look ahead report & 3 month look ahead report available:
 - <https://www.jlab.org/TLSD/SCHEDULES/>
- Major Milestones & Outages:
 - ESR Down 16 July → now June 10th
 - CHL #1 Warm Up Begins & Ends: 1 Aug & 15 Aug

8 Week Look Ahead (Major Activities)

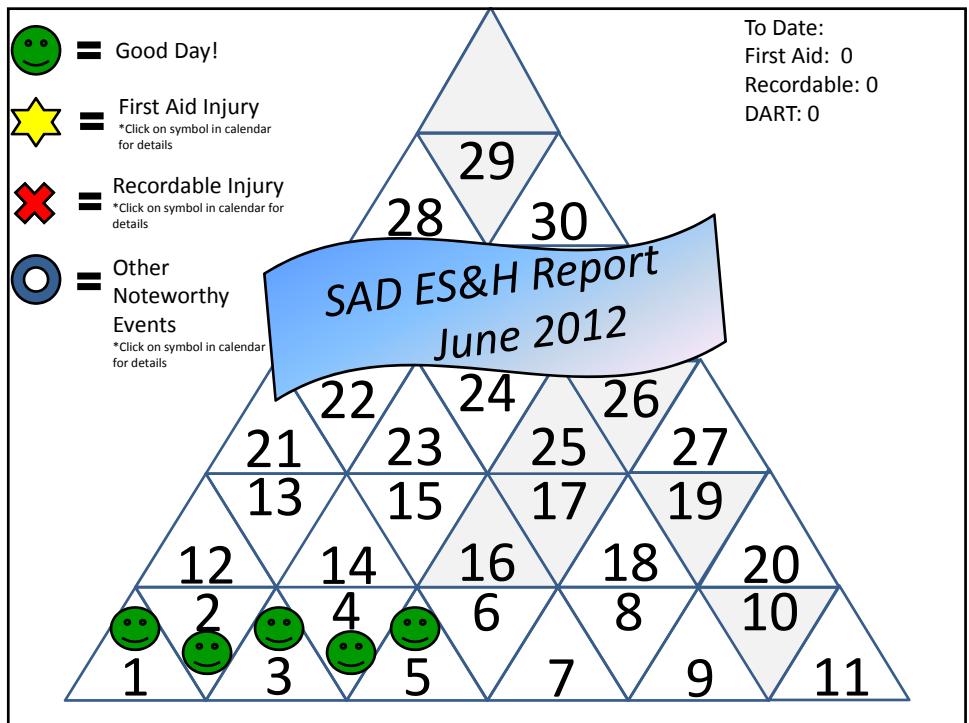
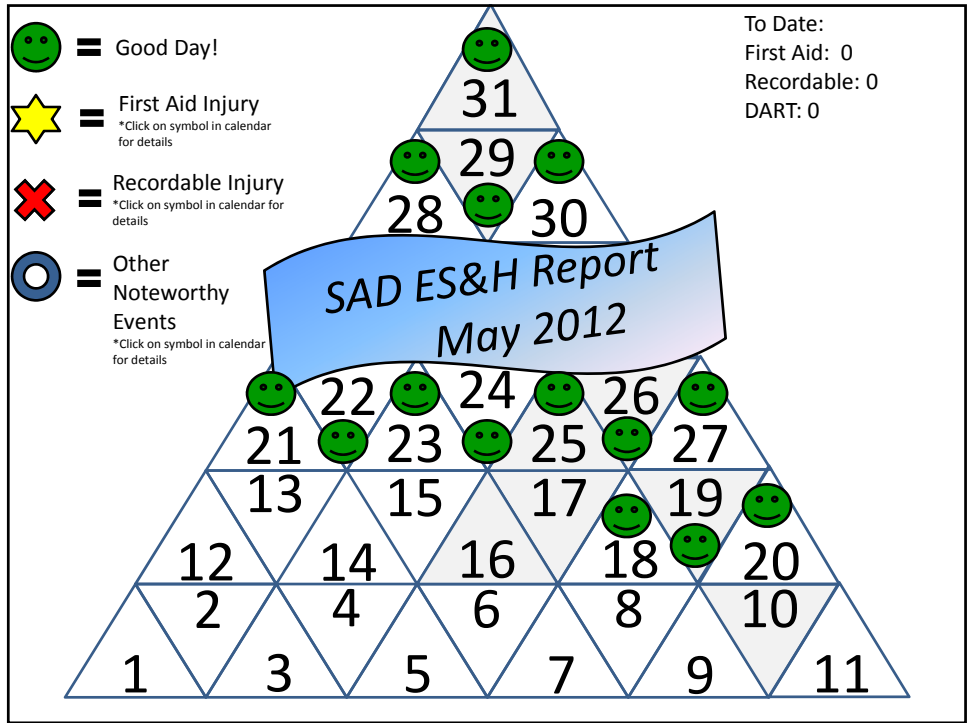
- **12GeV Accelerator**
 - Install, Checkout & Commissioning of CM #4 & #5 & Associated RF
 - Box Supply Shuffle
 - Trim Racks (HD and Service Bldgs) & Cables/Support for S/R removal
 - NL & SL Transfer Line Rebuild Work
 - S/R Removal & Upstairs Rework
- **Hall D:** Solenoid Platform Installation & cladding, BCAL light guide gluing, Collimator Cave Shielding Wall, FCAL detector housing infrastructure installation, BCAL rails
- **PEPPo Run** to 10th/11th June (then second shift running until 29 June)
- **Hall A G2P Removal** (upside down girder, FZ1 & FZ2 magnets, slow raster, install upstream beam girder)
- **Hall B:** Cable removal, HDICE removal, Split CLAS (South Clam)
- **Hall C:** Decommission & Removal of QWeak
- **FML Construction Activities:** 40 MVA TO 22 MVA Tie Line; CHL#1 Cooling Towers/Header
- **FEL:** Run (until end of July)
- **ESH&Q:** DOT Training (people off site week of June 11th – tight schedule for RadCon support) & Dosimetry Changeout

Changes in the Works

1. Progress to the end of May 2012 – currently implementing progress information and updated schedule available end of this week
2. Cryogenics Work Group Schedule (W. Oren) – will implement 8th June with latest update
3. Tunnel De-humidifiers (R. Sperlazza/S. Suhring) – will implement 8th June

Upcoming Changes/Change Requests –

1. Hall A Original Quad & Upside Down Girder Schedule Changes – **page 1 submitted this week**
2. FEL Schedule Updates (Darklight, Admiral, S&A support) – **page 1 will be submitted after Admiral information is known**
3. 12GeV Beam Transport mech & align tech profile smoothing (M. Bevins/L. Harwood) – **page 1 will be submitted after progress collected and processed for May 2012**
4. Baseline Review Recommendation Changes - **Discussions on-going**
5. 12GeV CR for ODH requirements NLinac/Tagger – **Discussions on-going**
6. 12GeV Hall C Schedule Implementation - Note: **July Review (Howard/Glenn)**
7. 12GeV Hall B Schedule Implementation - Note: **Aug Review (Latifa/Glenn)**
8. Bubble Chamber Run (A. Freyberger/M. Poelker) – **Discussion on-going**



Heat Stress

Paducah recently fined \$250K for heat stress exposures

• **Things to Consider:**

- Temperature
- Humidity
- Clothing/PPE
- Task
- Acclimatization

• **Things to Do:**

- Subscribe for notifications (Ed Winslow)
- Know Heat-Stress conditions and mitigations
- Call Jennifer/Dick for monitoring and advice on controls/work-rest regimen
- Communicate to workers

Work Planning & Mitigation for Heat Stress Conditions

Forecasted or Observed Conditions		JLab Action(s)	Planning/Response Time Frame
Heat Index ≤ 80°F	Tolerable for acclimatized, healthy worker.	Confer with Supervisor/SOTR on project-specific implication requirements.	Prior to onset of hot, humid weather
Heat Index 80 – 92°F	CAUTION Discomfort range for most people. Unusual onset or severity of fatigue possible.	Text page sent to Supervisor/SOTRs 85°F Implement STAGE 1 Process Steps.	When feasible, alert those affected the day before work.
Heat Index 93 – 103°F	EXTREME CAUTION Muscle Cramps and/or Heat Exhaustion possible Heat Stroke possible for at-risk workers	Text page sent to Supervisor/SOTRs 93°F Implement STAGE 2 Process Steps. <u>Limitations of work activity are possible</u>	<i>If remainder of work day is 4-hours or more...</i> Plan work activities prior to onset of conditions (e.g. day prior); otherwise as early in day as forecast is available.
Heat Index 104 – 115°F	DANGER Muscle Cramps, and/or Heat Exhaustion likely Heat Stroke probable for at-risk workers	Text page sent to Supervisor/SOTRs 104°F Implement STAGE 3 Process Steps. <u>Limitations of work activity are certain.</u>	<i>If remainder of work day is 2-hours or more.</i>
Heat Index ≥ 116°F	EXTREME DANGER Extreme Danger for heat stroke	> 116°F Implement STAGE 4 Process Steps. <u>Cease all work in heat conditions unless approved by the Cognizant Division Manager</u>	Immediately

Period : May 30 - June 6
Run Coordinator : Eric Voutier

Statistics

Shifts Completed (36) / Shifts Scheduled (91) = **39.5%**

Down (1.7) / Shifts Completed (21) = **20%**

Down (**13.5 h**) = CHL (3h), Capture cavity (4h), Configuration change (4h), Investigations (1h), Weather (1.5h)

Significant Achievements

Completion of the electron calibration of the Compton transmission polarimeter

Cross comparison of the Mott vs Compton transmission polarimeter

Start of the positron data production on 1mm tungsten target

Problems pending

Cross-talk between the magnet power supplies (in progress)

Upcoming Week Goals

Continue positron data production on 1 mm target thickness

Measure positron polarization for different production target thicknesses

Systematics studies

Electron Running

On-line analysis

Helicity reversal frequency 30 Hz

Delayed reporting

Beam current 10-40 pA

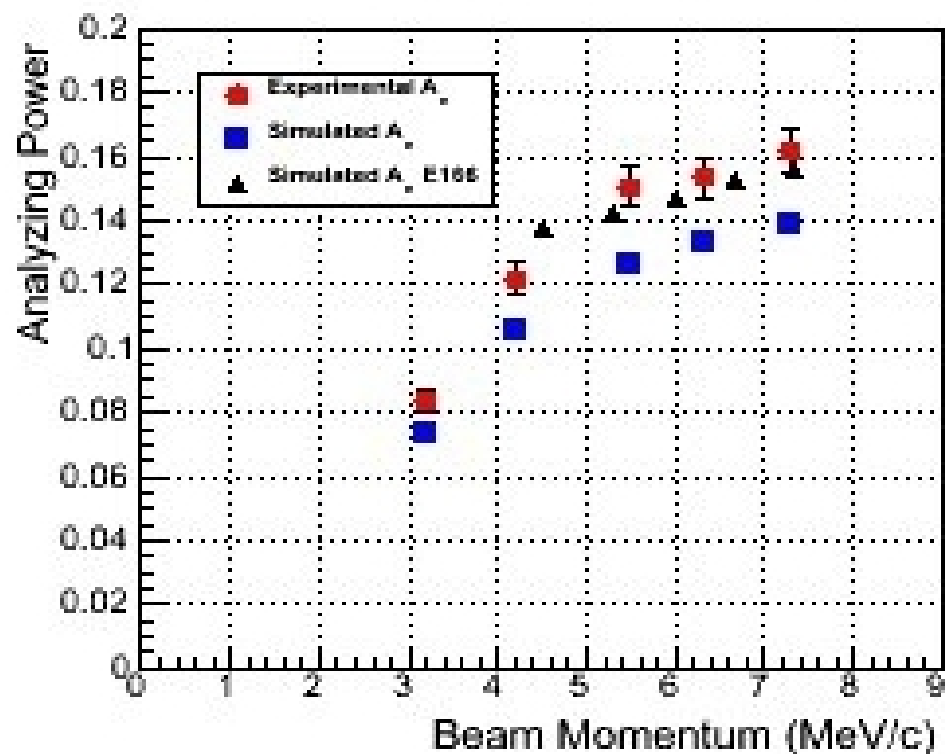
Beam polarization 85%

Target polarization 6.9%

Measured asymmetries

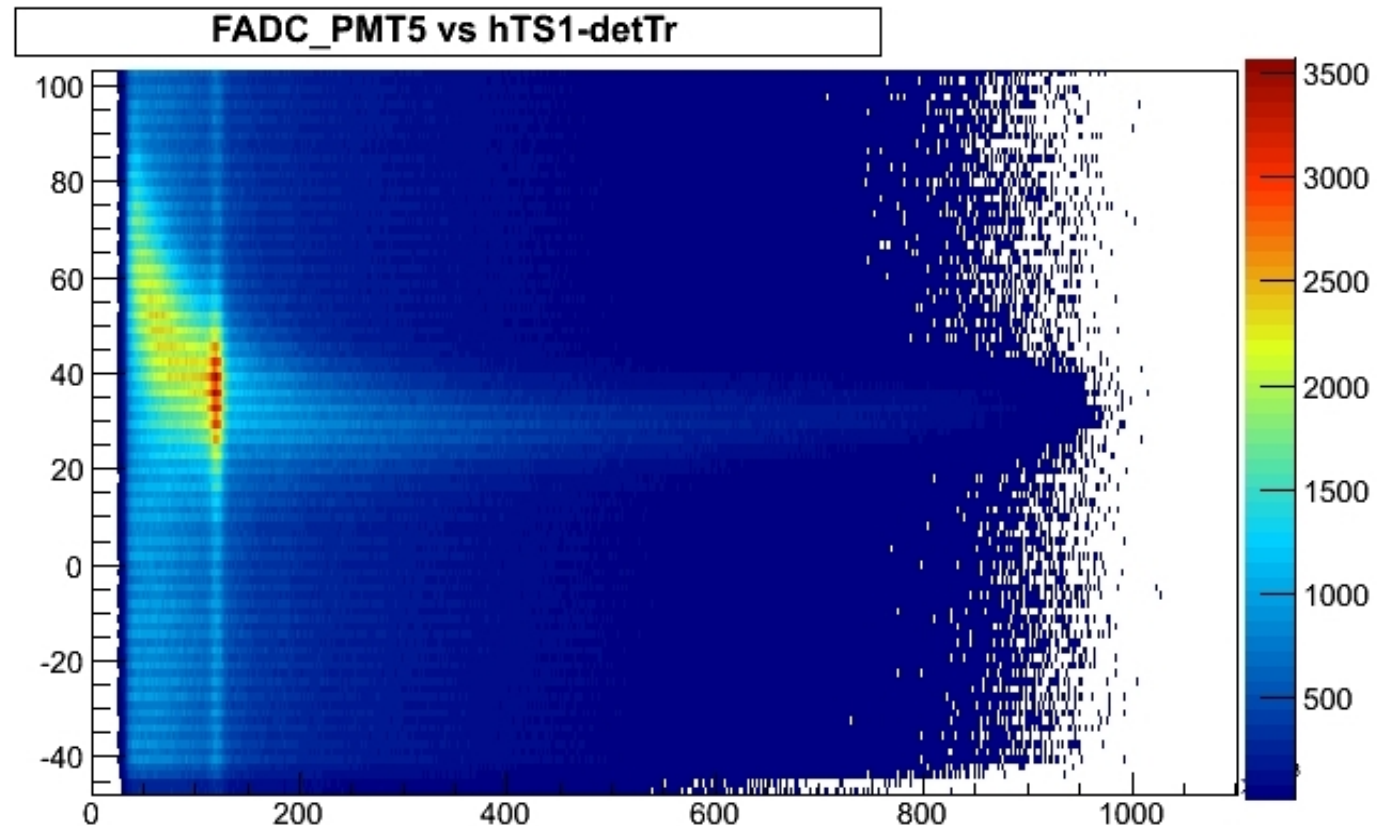
5000-9000 ppm

PMT 5 Analyzing Power vs Momentum



Positron Running

Helicity reversal frequency 30 Hz
Real time helicity
Beam momentum **8.28 MeV/c**
Beam current ~300 nA
Beam polarization 85%
Target polarization 6.9%



Data production is progressing at 3.2, 4.2, 5.5, and 6.3 MeV/c

Shutdown Work Summary

Organization: Alignment

Name: Chris Curtis

Date: 6 June, 2012

Last Two Weeks

Work That Went Better Than / As Expected:

- Accelerator elevation survey (levels). Over 400 monuments measured in about 8 shifts. “Misclosure” of 0.6mm.
- North linac “Mekometer” distances.
- C100-5 in SL23. First component aligned with new survey control. Also C100-4 in SL22.
- C100-6 fiducialized in Test Lab.
- Hall C as-found surveys: Compton table, BPM’s and detectors; Region 3 quartz detectors.
- Hall A spectrometers and target can surveys.
- Hall D Tagger stand layout.
- Started sample sections of Step 2A alignment in the arcs.

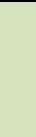





Work That Went Slower Than Expected, Delays, and Issues:

- PEPPo alignment. Beamline pitch greater than expected, detector added.

Ongoing Shutdown Work

Upcoming Work (3-6 weeks from now) (green = no concerns; yellow = some concerns; red = serious concerns)

Project	Status	On Schedule?	Tasks	Comments/Concerns
12 Gev Accel	x 	18 Jun – earlier?	Full re-survey of all monuments in the accelerator.	Would like to start next week if possible
Hall C – Q Weak	x 	18 Jun	Target, tungsten plug, chamber as-found surveys	Waiting for rad levels to drop.
12 Gev S/R	 x 	27 Jun	Layout bolt locations of stands	Need layout data. Then stand data.

Project	Status	On Schedule?	Tasks	Comments/Concerns
12 Gev Arcs	  	2 Jul	Step 2A (rough) alignment of west arc.	Only a preliminary copy of beamline received. What is the signoff procedure?
12 Gev Accel	  	July?	R100 / OL04 cryomodule shuffle	Details and timing to be determined.

New Work Requests Requiring Schedule Changes:

- None

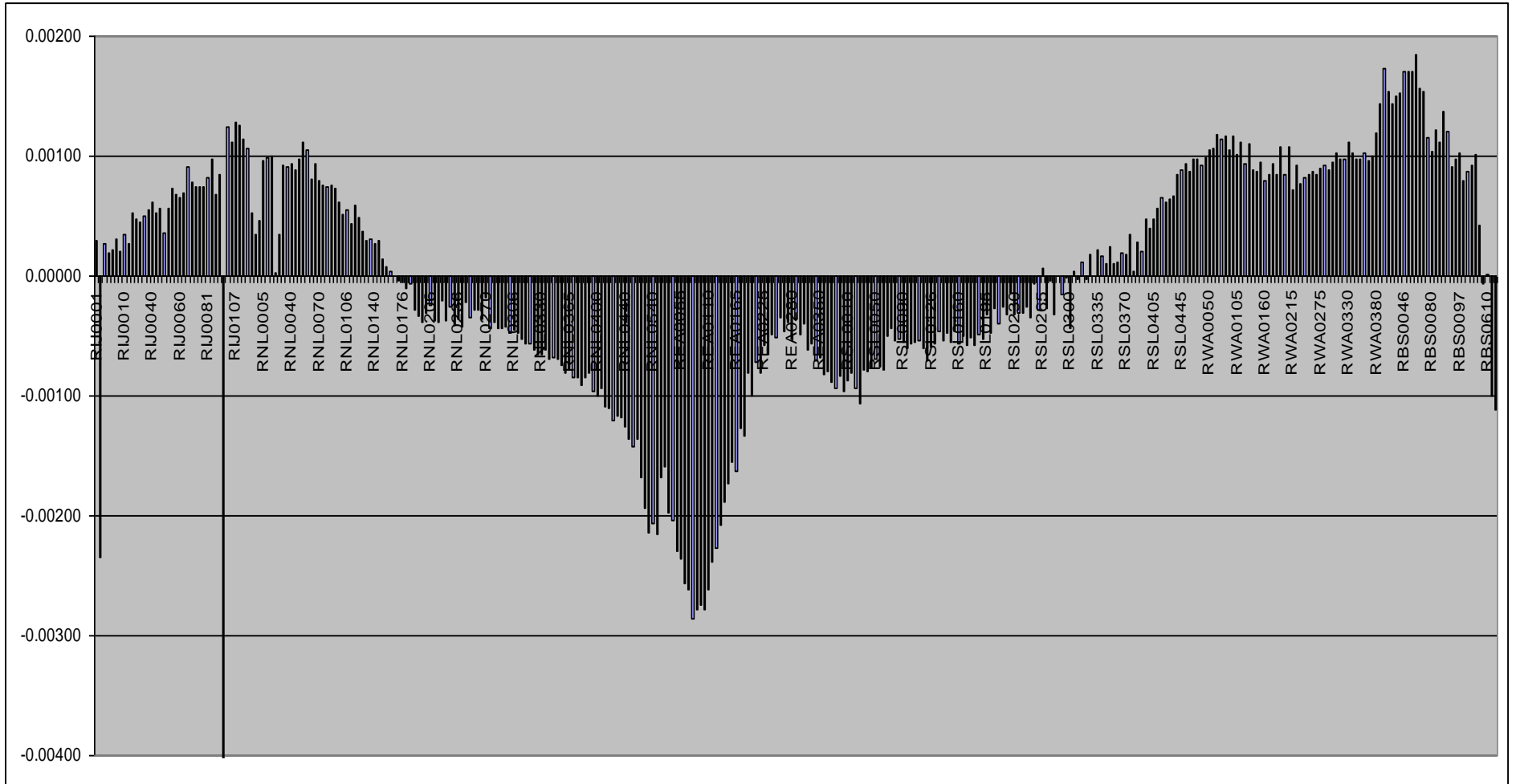
Significant Problems Pending (delays, technical issues, resource issues, scheduling):

- As stated above

Staffing Outlook:

- Good. New staff working out well

Accelerator Elevations – Monument Differences from 2008



Shutdown Work Summary

Organization: 12 GeV Accelerator

Name: Harwood

Date: 6/6/12

Last Two Weeks

Work That Went Better Than Expected:

- NL girder rebuild

Work That Went Slower Than Expected, Delays, and Issues:

- None

Ongoing Shutdown Work

Upcoming Work (3-6 weeks from now) (green = no concerns; yellow = some concerns; red = serious concerns)

Project	Tasks	Status	On Schedule?	Comments/Concerns
Cryomodules	Finish hookup of SL22 & SL233	X yellow	Y	
	Start commissioning SL22 & SL23	X yellow	Y	
Power	Install trim racks	X yellow	Y	
	Pull/terminate cables in ER	X yellow	Y	
Cryogenics	Continue install of CHL2 major components	X yellow X	Slightly behind	Vendor work-plan was delayed; shifted JLab work to mitigate
	Continue install of HDR	X yellow	Y	
Beam Transport	Complete removal of ER; start WR; maybe ES; opportunistic (e.g. WS)	X yellow	Y	
	Start rework or ER and WR	X yellow	Y	
I&C/Safety	Continue upgrade to NL PSS	X yellow	Y	
	IOC tools will go "live"	X yellow	Y	

Schedule Changes:

- BT is shifting timing of some work

Scope Changes:

- Circulator swaps

Significant Problems Pending (delays, technical issues, resource issues, scheduling):

- None....yet

Staffing Outlook:

- Cryo needs welders/fitters/helpers; working with EngDiv to fix

Comments from DOE/12GeV safety observation of tunnel work (magnet removal, wave guide installation/work, survey/alignment measurements)

- The work area was well maintained
- Personnel were wearing the appropriate PPE
- Equipment was being used in a safe manner
- Scaffolding was properly installed, inspection sheet was posted and signed off by the competent person
- Best Practice noted- girders and magnets were clearly labelled with intended scope of work (such as, "Rebuild", "No Changes", etc)

Shutdown Work Summary

Organization: Engineering – Installation / Vacuum Group

Name: Anthony DiPette

Date: 6/6/12

Last Two Weeks

Work That Went Better Than Expected:

- Per the “12 GeV Accelerator” summary, we’ve made good progress in both Vacuum and Installation.

Work That Went Slower Than Expected, Delays, and Issues:

- None

Ongoing Shutdown Work

Upcoming Work (3-6 weeks from now) (green = no concerns; yellow = some concerns; red = serious concerns)

Project	Status	On Schedule?	Tasks	Comments/Concerns
2S & 2R Tearout	X	On/Ahead	Labeling, venting, beam line removal. Girder and Dipole removal	Continue in 2S until 2R area opens up.
0L/OR	X	On	Support Cryo shuffle and 12GeV configuration	Planned work to not impact Peppo run.
Girder rebuilds	X	On/Ahead	Rebuild, Quad Swaps	Some rebuilds include machining. Fork Truck due end of week /early next week

New Work Requests Requiring Schedule Changes:

- None

Significant Problems Pending (delays, technical issues, resource issues, scheduling):

- No Issues

Staffing Outlook:

- No Issues, 1 more Matrix position pending. New matrixed staff transition has gone smoothly.