

LSD Bi-Weekly Resource Planning Meeting Agenda

3 October 2012

- Glance Back / 2-Week Look Ahead / Change-Control Board (CCB) Report (10 min) – D. Napier
- Safety Report (5 min) – M. Logue
- Special Topic (5 min) – (None)
- Key Service Provider & Project Lead Reports (25 min)
 - 12GeV Accelerator – L. Harwood
 - S&A – C. Curtis
 - SRF/Cryo (cooldown work/TL maint) – W. Oren
 - Halls – W. Akers
- Meeting Recap / Parting Shots (5 min) – D. Napier

Look back and glance ahead

Dianne Napier
(for Fulvia Pilat)

LSD Resource Planning Meeting

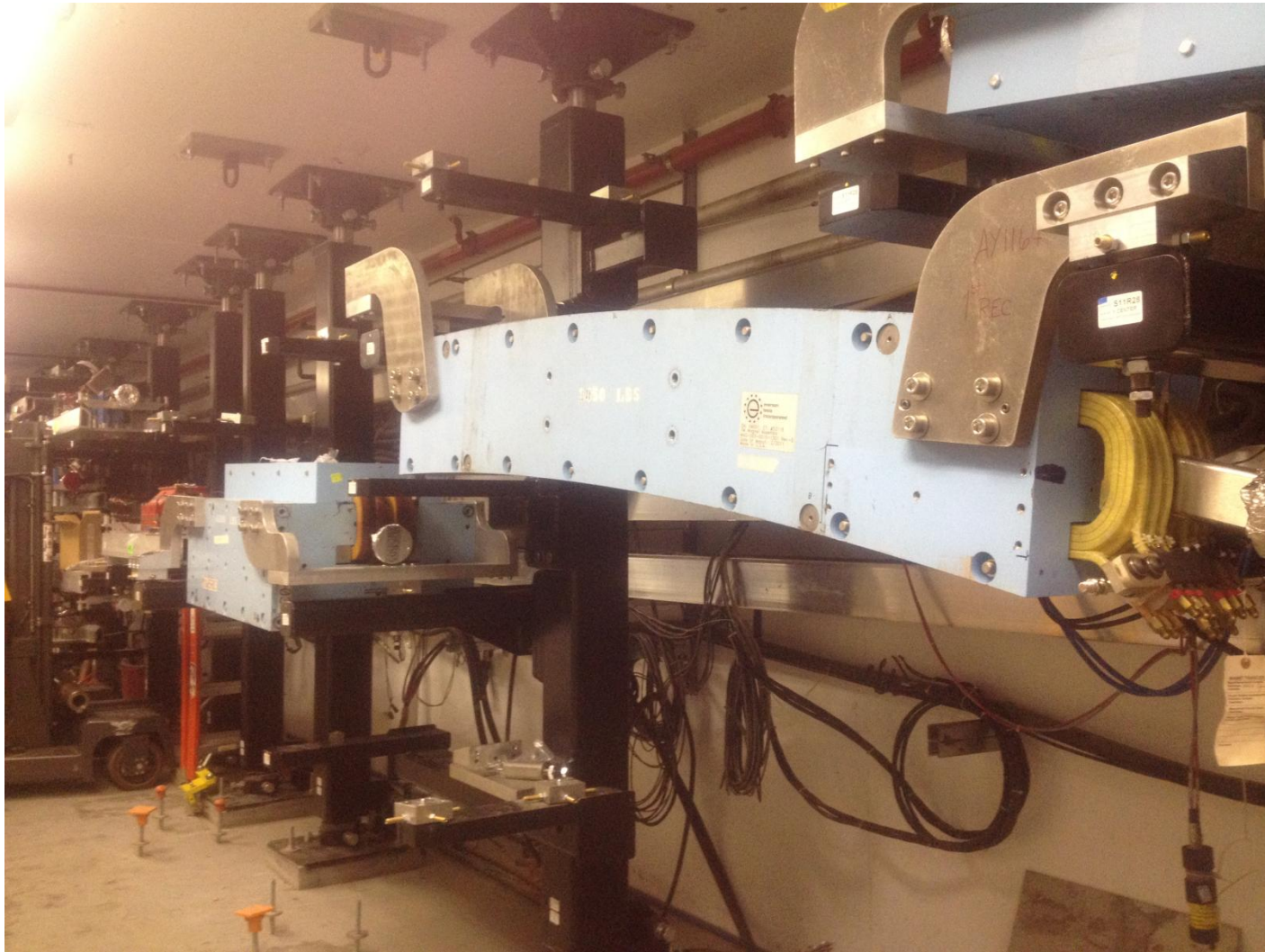
October 3, 2012

Glance back

- SRF Vacuum recovery & Cryo Transfer Line PM continuing in the Linacs, Gate Valve & Bayonet valve PM completed
- He Line to HD installation
- Dummy CMs removed
- S&A of NLinac CMs & girders, west arc, east recombiner, & Hall A network.
- Conversion of Controls Network to EPICS 3.14 ongoing
- FM&L: Penetration subcontractor SLinac zones grouted, HC truck ramp penetration, CHL Cooling Tower steel & tower.
- 12GeV I&C cables continue
- HD ODH monitoring installation continues
- Magnets, Girders, & more Magnets! → See Harwood presentation
- Test lab RECO started



Last Dipole Stack Installed



First Curved Dipole Installed

Progress & Change Requests

- Progress as of end of September being collected now.
 - Updated schedule will be posted ~11th Oct.
1. IN PROGRESS but NOT APPROVED – FEL new scope (B. Legg) – Page one reviewed by CCB 9/17/12. Task list & manpower requirements provided, but straw man schedule needed.
 2. 12GeV Hall C Schedule Implementation (H. Fenker/G. Young) – October Review – 17 Oct 9:00-10:30am CCF224-225
 3. 12GeV Hall B Schedule Implementation (Latifa/G. Young) – October/November Review
 4. 12 GeV ACC RF Circulator Swaps (L. Harwood) - (From Wed 1330 6th June Mtg & pending funding, scope being reviewed)

Open issues → action items

- **TLA operational.** Weekly meetings FM&L and SRF revamped. Plan + schedule → **Joe Preble**
- Re-commissioning **CTF, VTA, CMTF**. Depending on TestLab demo. Plan + schedule → **Evelyn Akers**
 - **RECO started**
 - **CTF cool down** will start the week of **Oct 15**
 - **Cryomodule cool down** will start the week of **Oct 22**
 - **VTA cool down** will start the week of **Oct 29**
- Re-commissioning of **C25, C50 and C100**, plan + schedule → **Mike Drury**. **Draft plan being worked now.**
- Overall **cool-down** plan → **Will Oren**

8 week look ahead

- FML:
 - CHL-1 Cooling Tower (header done → water flowing) (mid Nov)
 - MCC HVAC/Roof – start of construction early Nov
 - Penetration repairs continue – Hall C truck ramp, pss penetration, injector, addt'l penetrations
 - Counting House renovation starts
- CEBAF linac X-fer lines modifications, alignment, SRF CM maintenance continues
- C-100 installation #3 (NL22) & #7 (NL24) – end of Oct/Nov
- CHL-1 Maintenance continues
- CHL – Hall D Cryogenics work → Hall D Solenoid cool down mid Nov.
- Cooldown (4K) starts early Dec
- Continuation stand delivery/installation and magnet rework/installation
- Completion of Tagger Wall “Green Door” (early Nov)
- Halls:
 - Hall B: South Clamshell removal → end of Oct & Torus removal → now Dec
 - Hall C: SOS lead panels, then dipole (end of Oct) & structural steel/doors (before X-mas)
- Demo TestLab → CTF, VTA, CMTF re-commissioning (Oct)



== Good Day!



== First Aid Injury
*Click on symbol in calendar for details



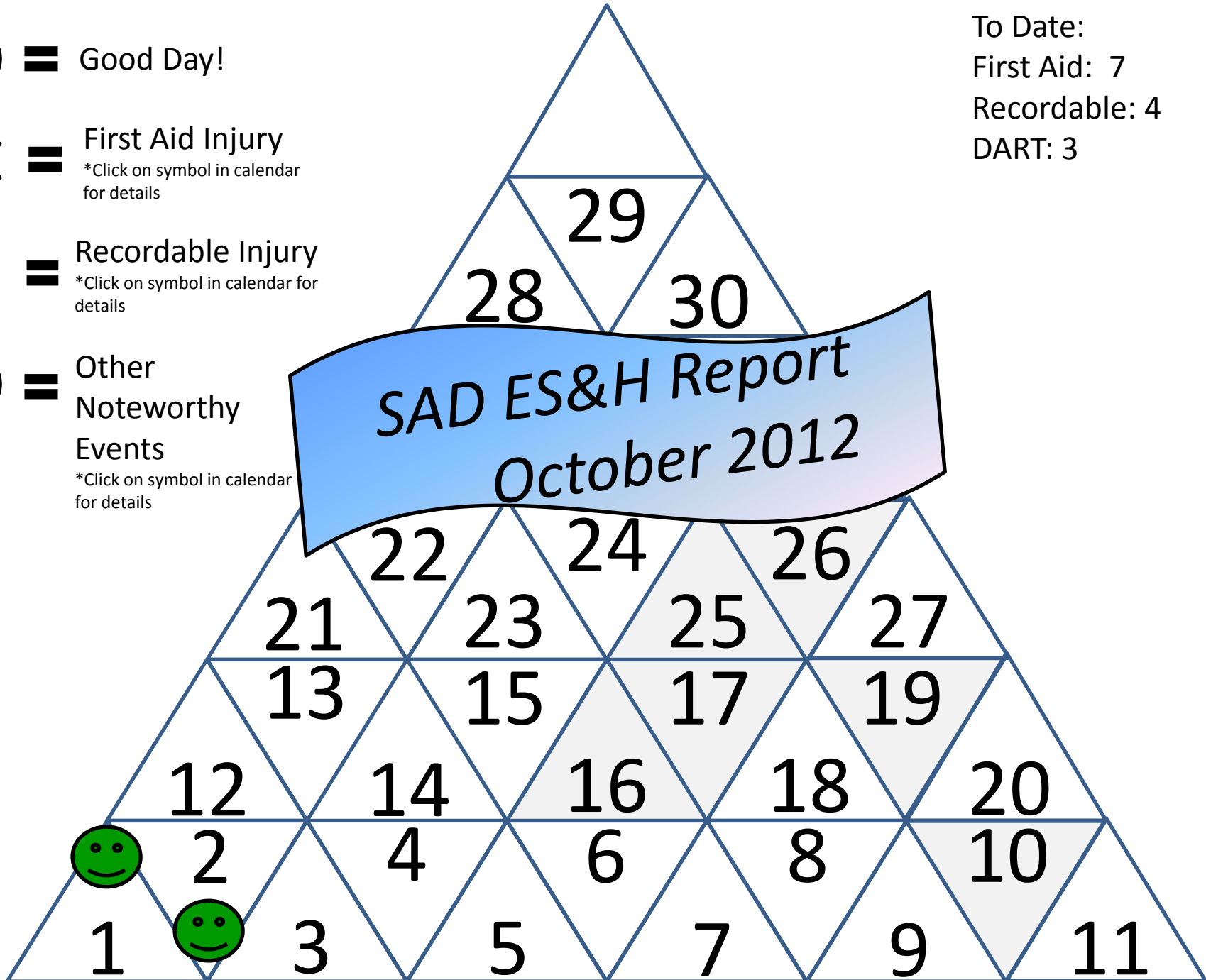
== Recordable Injury
*Click on symbol in calendar for details



== Other Noteworthy Events
*Click on symbol in calendar for details

To Date:
First Aid: 7
Recordable: 4
DART: 3

SAD ES&H Report October 2012



 = Good Day!

 = First Aid Injury
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 = Other Noteworthy Events
*Click on symbol in calendar for details

To Date:
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DART: 3



September 2012 Events

	Date	Location	Event
	09/27/12	South Linac	While moving particle boards, employee pinched his left index finger, resulting in superficial laceration.

Integrated **S**afety **M**anagement



Jefferson Lab's [Personal Protective Equipment](#) (PPE) Program (ES&H Manual Chapter 6620) provides guidance to minimize employee exposure to hazards such as cutting, grinding, drilling, sharp edges, pinch, and temperature extremes. PPE is used as a supplement to, not as a substitute for, engineering controls. If you need assistance with planning your work and/or getting the proper PPE for the job, please feel free to contact your division liaison.

Jennifer Williams (Liaison to Free Electron Laser (FEL)) x7882

Ned Walker (Liaison to Facilities Management and Logistics (FM&L)) x6638

John Kelly (Liaison to Engineering Division) x7531

Tina Menefee (Liaison to Accelerator Division) x5490

Bert Manzlak (Liaison to Physics Division) x7556

Dick Owen (Liaison to COO/CIO/CFO) x6381

BACK-UP SLIDES



= Good Day!



= First Aid Injury
*Click on symbol in calendar for details



= Recordable Injury
*Click on symbol in calendar for details






= Other Noteworthy Events
*Click on symbol in calendar for details





To Date:
First Aid: 6
Recordable: 4
DART: 3






June 2012 Events

	Date	Location	Event
	06/27/2012	CHL 2	Employee was installing a standard chain wheel kit on one of the transfer lines behind Building 8. As he was was removing a bolt, the bolt broke, causing the ratchet to slip and hit the contractor in his tooth. The contractor's right incisor was chipped.
	06/20/2012	Building 36	An unauthorized 208 volt, 30 Amp 4 wire cable with a male plug at one end and exposed wires (pigtail) at the other end, had been left plugged into a de-energized power source on the evening of June 19, 2012. Lock Tag & Try was not applied to power source before leaving for the evening. At approximately 10:00 am the following morning, an operator turned on the power supply, and the exposed wires arced and shorted, opening the breaker to the power supply and the electrical panel that fed it.
	06/20/2012	East ARC 2 Service Building #	Employee called to report that they were stung on his right elbow by a wasp. No treatment rendered and the employee returned to work regular duty.





June 2012 Events

	Date	Location	Event
	06/14/2012	Behind the Test Lab Addition	Last Thursday morning a rupture disk on the LN2 tank outside of the Test Lab burst. No personnel were exposed. This tank valves were tested and both passed. As a precautionary measure, the valves and the disks are being replaced.
	06/13/2012	Test Lab T-Trench area	Employee was using a drill to screw angled plastic strips backed with weather stripping to the tools in order to seal the gap between the cleanroom wall and the process tools. Employee was diagnosed with tennis elbow and placed on restricted duty.
	06/13/2012	Experimental Staging Building	Employee stated "While assisting with lowering a load, I adjusted the wooden cribbing for the load and received a splinter in my finger." Employee was diagnosed with a splinter to right index finger. The splinter was removed, the finger was cleansed and examined. Occupational Medicine then applied over the counter antibiotic ointment and band-aid. Employee has returned to work , regular duty.
	6/13/2012	Hall B	Employee reported frequent use of wire cutters has caused hand discomfort.

July 2012 Events

	Date	Location	Event
	7/10/12	Test Lab Addition	While transporting a rolling lifting device, termed a "back lift," the device fell onto her right shoulder, causing a contusion.
	7/11/12	Vacuum Lab	Graduate student was working near a pressurized cavity when the glass flange in a port shattered under pressure, expelling a shower of glass fragments, some of which struck her face, neck and arms.
	7/11/12	Hall D	Two workers were drilling through a compressor test stand. They discovered a sheet of lead between 2 layers of insulation. Work was immediately stopped and IH contacted. No uptake of lead occurred,

August 2012 Events

	Date	Location	Event
	08/09/2012	Hall B	During a site visit to Hall B, 2 employees and 3 contractors entered a radiologically controlled area without dosimetry. This violated our policy and procedure and the event is currently under investigation.
	08/16/2012	CHL #2	Employee brushed against a pipe that had a sharp burr on it. The employee was diagnosed with superficial laceration to right arm. The area was cleansed and a over the counter antibiotic ointment and band-aid was applied. The employee returned to regular duty.
	08/24/2012	Hall C	An employee was injured while assisting with moving a concrete piece in Hall C (SOS Shield house). The employee completed the move when they stepped backwards and lost their footing causing their left ankle to roll. The employee was sent off-site for a further evaluation and was diagnosed with a left ankle sprain, given a prescription, and placed on restrictions until cleared by a physician for regular duty.
	08/31/2012	Near Hall A Truck Ramp	On Friday, August 31, 2012, an employee reported that they felt a pop in their lower back while shoveling out a storm drain near the Hall A truck ramp on Wednesday, August 29, 2012 at approximately 9:30 am. The employee was diagnosed with lower back strain and placed on restrictions until cleared by a physician for regular duty.

Shutdown Work Summary

Organization: 12 GeV Accelerator

Name: Harwood

System	Tasks
Cryomodules	C100-3 and C100-7 ready to install
Power	Cabling continues.
Cryogenics	CHL2: Vendors done. Personnel shifted to HDR
	TL: Ready for cryomodule installation
Beam Transport	HDR: Continue fab and install; solenoid can done (except for a leak?!?@#@!), using OT; piping going into tunnel
	HD "green door": much steel installed
	3A: back in
	ER girders in and dipoles going in; TR girders coming out; WR floor/ceiling plates installed; ES stands ready; WS removed, BCOMs coming out
	East arcs: 2A alignment at ~65%
	Extraction magnets coming out
	Girder rebuild continues
I&C/Safety	OL/OR girders going in; pulled WA stack 16 to facilitate installation
	S/R dipole rework continues; substantially complete except for BCOMs
	Continued upgrade to NL PSS and ODH mod in NE corner.
	Continued fab of diagnostics; install of diagnostics ongoing

Work That Went Better Than Expected: BT ahead

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

Ongoing Shutdown Work

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

System	Tasks	Status			On Schedule ?	Comments/Concerns
Cryomodules	"Install" C100-3	X	yellow	red	Y	
Power	Pull/terminate cables where possible	X	yellow	red	Y	
	Install tray to HD tagger	X	yellow	red		
	Restart RF zone installation	X	yellow	red	Y	
	Do connections for CHL2	green	X	red	Slightly behind	
Cryogenics	Continue fab and install of HDR	green	X	red	Tight!	Holding....barely
Beam Transport	Continue S/R work in all corners	X	yellow	red	ahead	
	Continue dipole and girder rework	X	yellow	red	Y	
	Continue HD tunnel green door	X	yellow	red	ahead	
	Complete EA 2A align	X	yellow	red	ahead	
I&C/Safety	Continue upgrade to NL PSS & NE ODH	X	yellow	red	Y	
	Continue fab & install of diagnostics	X	yellow	red	Y	

Schedule Changes:

- Further BT adjustments to keep work centers busy
- CHL2 completion will be delayed because of shift of personnel to HDR and HDTL

Scope Changes:

- Circulator replacement (timing not certain)

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

Staffing Outlook: Short for Cryo work; looming issue for FY13 (BT and Power; being worked)

Shutdown Work Summary

Organization: Alignment

Name: Chris Curtis

Date: 3rd Oct, 2012

Last Two Weeks

Work That Went Better Than / As Expected:

- Alignment of installed components in north linac complete. Four zones in the south linac remaining. In some zones warm region girders are close to limit of motion – may need to re-visit.
- East recombining: all installed dipoles are aligned (10 of 15); 15 of 18 quads are aligned. Waiting for fiducials on the other 3. Started alignment on upstream/ straight section.
- East arc alignment for hookup continuing as time permits.
- Hall A network Moller detector, and stand alignment.

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

- West arc alignment of “missed” components. Four girders need to be modified.

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 Linacs	x yellow red	Yes	S. Linac final (2B) alignment	Complete mid – October?
12 GeV Arcs	x yellow red	Yes	East arc initial (2A) alignment	Ongoing. Roughly 2/3 complete
12 GeV Arcs	x yellow red	Yes	West arc initial (2A) alignment	Some “infill” work
12 GeV S/R	x yellow red	Yes	1R initial (2A) alignment	Awaiting fiducials
12 GeV S/R	x yellow red	Yes	1S stand alignment	
12 GeV S/R	x yellow red	???	NWCR stands	When available
Hall A	x yellow red	???	Moller / Compton alignment	Next few weeks

New Work Requests Requiring Schedule Changes:

-

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

-

Staffing Outlook:

- Addition of operator has helped.



LSD: CHL 1/Linac Cooldown

Will Oren (Reporter)

Oct 3, 2012

Cooldown Prep, Schedule, Logic

Three meetings held with representatives from Cryo, SRF, Accel Ops, 12 GeV, FEL, Vac/Installation to discuss maintenance progress, anticipated schedule and cool down boundary conditions

- **Maintenance Status- Cryo**

- N. Linac maintenance 90% done will probably finish in ~2weeks. Must be balanced with CTF cooldown, and other miscl. tasks
- S. Linac is in progress ~80% complete
- System cleanup ~3weeks duration, awaits completion of maintenance and mod tasks.

Cool Down Prep, Schedule, Logic

- **Modification Status – Cryo**

- Hall D gas piping, ~65% complete to green wall, waiting for valves to cut-in to existing lines. Arrival ~Oct 25.
- “Cut-in’s” for C100’s **are complete**
- Still working reliefs in the tunnel, CHL reliefs are next.
- CHL1/2 cross-connects still waiting for parts but would be limited by manpower if parts were here. ~1 month duration w/ 2 crews once underway. **Not promising!**

- **Limitations on Cryo effort**

- CTF cool down efforts continue w/ a schedule that changes daily, pulls Ops crew from maintenance tasks.
- Difficulty in recruiting & retaining qualified welders.
 - OT being used, 3 new welders in next week – still must qualify.

Cooldown Prep, Schedule, Logic

- **Maintenance Status- SRF**
 - 1-2 days from finishing N. Linac with some repair work remaining(insulating vac & ion pump replacement)
 - Injector next ~1wk – vac recovery on $\frac{1}{4}$, & standard maint., may do a R100 insulating vac check
 - FEL after Inj, ~ 1wk – standard maintenance
 - Into S. Linac after FEL
 - Still anticipate being ready Dec. cool down.

Cooldown Prep, Schedule, Logic

- **Recommissioning/He Processing – SRF**
 - Will need 15 weeks to recommission both linacs assuming 4 crews. *Identified 2 of the 4 bodies (from EES) still need to identify 2 more “able bodied commissioners”*
 - 15 wks He processing anticipated, can do 4 CM’s at once with one “cycle” taking ~1.5-2wks. Need to utilize the same crew as used for recommissioning.

Cooldown Prep, Schedule, Logic

- **Path Forward**

- C100 commissioning is still driving 2K “needed” date.
- Continue to concentrate on the N. Linac and FEL for a December cool down.
- **Group meets again on Oct 5th to review progress and adjust the path forward.**

- **Possible Cool Down Scenarios:**

1. Start cleanup mid-Nov, cool to 4K in Dec., pump down to 2K early Jan, CM testing begins ~Jan 7.
2. Start cleanup Dec thru X-mas, cool to 4K early Jan, pump to 2K towards end of Jan.
 - Delay in CM testing is ~ 2.5wks – **Looking more likely**

Shutdown Work Summary

Organization: Hall A

Name: Ed Folts

Date: October 3, 2012

Last Two Weeks

Work That Went Better Than Expected:

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

- Moller installation due to late magnet

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
Moller Polarimeter quadrupole	X	no	Fiducalize, map, install, align, test	Being mapped
Cryo Work	X	yes	As per schedule	Still progressing
Upside down girder	X	no	Ready for magnet connections & alignment	This is a filler job
Compton laser table work	X	yes	Raise laser table for 12Gev beam	Proceeding

New Work Requests Requiring Schedule Changes:

- None

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

- Moller Polarimeter magnet delivery

Shutdown Work Summary

Organization: Hall B

Name: Doug Tilles

Date: October 3, 2012

Last Two Weeks

Work That Went Better Than Expected:

- Removing of the Delay cables on all Carriages
- Gas System removal

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

- Detector removal due to lack of manpower and 12 GeV support.

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
Delay cable removal	X 	Yes		Complete
Region 1 Drift Chamber	X 	Yes		Complete

Project	Status	On Schedule?	Tasks	Comments/Concerns
Removal of Electronics and Racks	X	Yes		This work is ongoing.
Cherenkov Counter Removal	X	Yes		Complete
Panel 1 TOF Removal	X	Yes		Complete
Panel 2&3 TOF Removal	X	NO		Waiting for tooling
Region 3 Drift Chamber	X	Yes		Work is 50% Complete. Sections 3, 4 and 5 have been removed.

New Work Requests Requiring Schedule Changes:

- Removal of Fwd. Carriage Electronics
- 12GeV support out-side of the Hall requiring manpower
- TEDF setup for HTCC cleanroom Behind schedule
- Work for Cable Group
- Laser transfer to EEL for 12 GeV Behind schedule

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

Shutdown Work Summary

Organization: Hall C

Name: Walter Kellner

Date: October 3, 2012

Last Two Weeks

Work That Went Better Than Expected:

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

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
6Gev	X green yellow red	Yes	Cutting and removing concrete sections from the HKS 9" pad	
6Gev	X green yellow red	Yes	Removing lead shielding panels from the SOS shield hut	
Flood cleanup	X green yellow red	No	Working on HMS wheel assembly cleaning, greasing, changing motors etc, washing floor areas	

New Work Requests Requiring Schedule Changes:

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

Flood has impacted scheduled work that is planned for 12 GeV. These changes will have to be integrated during the Hall C schedule review.

Shutdown Work Summary

Organization: Hall D

Name: Tom Carstens

Date: October 3, 2012

Last Two Weeks

Work That Went Better Than Expected:

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

- **Cryo Platform Installation:** This should have been completed by the end of September but not all of the pieces have arrived as of this date. The schedule will be rearranged to accommodate this but the man-hours spent on this could delay start of cool down by about 3 days.

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
Assemble and Install Cryo Platform	X	X		Structure 50% assembled, awaiting deck plates from vendor to match-mark 100+ holes to be drilled/tapped. Also awaiting Cryo distribution can before top-most platform can be installed.
Install cable trays under Upstream Platform	X	X		80% of material on hand
Install LCW piping system in Tagger Hall (Bldg 204)	x	x		Lack of man power (All manpower will be used to get Solenoid ready for cool-down). No effect to overall schedule

Project	Status	On Schedule?	Tasks	Comments/Concerns
Install BCAL rails in bore of Solenoid	X			Delayed until Solenoid cool-down started. No effect to overall schedule
Assemble tagger magnet gantry crane	X			
Install Pair Spectrometer Magnet onto platform	X		60 days behind, mounting hardware on order	No effect to overall schedule
Start of gluing/testing BCAL light guides (3840 total)	X		90 days behind scheduled start date	Delivery of light guides delayed/Modified fixturing still untested meaning 12 weeks installation time is "best guess". Limited effect to overall schedule
Design/Assemble Solenoid Vacuum Panel	X			

New Work Requests Requiring Schedule Changes:

- None

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

- Because maximum effort will be to complete the Cryo Distribution Can and transfer line installation by Dec 15th, (two shifts until task is completed and cool down of the Solenoid starts) most of the other work will be delayed until this is complete.

Staffing Outlook:

- Marginal to meet short term *published* schedule.