The Long Shut Down Baseline Review ES&H

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May 16th 2012



Line Management Integration of ES&H

- Line Managers are using existing tools
 - Use of Task Lists to plan work,
 - Work Control Documents (OSP/TOSP, RWP, critical lift plans, temporary work permits)
 - Training up to date, including revised ES&H Orientation (SAF100) and updated Work Planning (SAF101) available for refresher
 - Consulting with OccMed regarding workplace restrictions
 - Participation in Pre-SAD Safety Briefing
 - Participate in morning meetings
 - Use of SAD maps & calendars at morning meetings
 - Scheduled inspections, including Safety Warden Inspections
 - Work Observations
 - SOTRS and safety representatives for construction work



ES&H Support

Task	Assignment	Comments
IH Support/monitoring	Jennifer Williams + IH field staff	Based on planned tasks
Daily Walkthroughs (oversight/support)	H&S support staff	Based on Planned tasks
Daily RadCon support	RadCon Staff	Based on Planned tasks
Attend 8:00 meeting to raise hazard awareness and provide feedback to ESH&Q staff	Dick Owen/RadCon	
Training as requested	ESH&Q staff	

EH&S Compliance Activities

 Activities that must continue during LSD to maintain compliance with regulations

Task	Assignment
Instrument Calibration	RadCon/IH Field staff
Dosimetry Changeout	RadCon staff
Environmental Monitoring	RadCon Staff
Waste Management & Disposal	RadCon/IH Field staff
Weekly SAA Inspections	IH Field Staff
Periodic Measurements to confirm engineered controls	IH Staff

LSD Challenges

Rad Waste

- RadCon Staff have interviewed Hall staff, determined activated material volume
- Budget constraints will prevent disposal within 12 months
- Will need to develop storage/disposal plan and request TJSO exemption from 1 yr. disposal
- DOE O 580.1A redefines <u>Sensitive Property</u> as HAZMAT and RAM, now 100% annual inventory

Test Lab Renovation

- ES&H support, EH&S required to preview AHAs
- IH support for JLab concrete removal activities

LSD Challenges, cont'd.

- Support concurrent process reviews
 - E.g. SFR Chemistry Start-up Review
- Hall A, B, C Equipment Removal
 - ES&H support of contract concrete removal
 - Technical review of safety related plans/activities
 - IH measurements for JLab co-located staff
 - IH support for JLab concrete removal activities
- Have sufficient staff to support both TL and LSD, but there may be event-driven priorities
 - Over 100 IH monitoring events (not including 12 GeV)
 - Need for schedule flexibility stretches our resources

Communication, planning, and change control are key!



Slide 6

LSD Risk Registry

Nr.	Risk* Statement (A risk event statement states what might happen in the future)	Plan/Steps for Mitigation (Include implementation dates for high impact actions)	Mitigated Risk (High / Mod / Low)
1	Budget constraints, including timing, quantity and sources of money, will significantly delay LSD completion	Prioritized ACC OPS funding for Cryo warmup issues Plan implemented for optimized electrical costs Lab staff shifted to address resource needs (vs. external spending) Re-baseline in Aug/Sept with updated information	High
2	Dormant klystrons will cause a loss of Accelerator gradient, resulting in a significant overall performance reduction upon restart	No mitigation plan as of LSD start	High
3	Cryo system warmup will involve extensive unexpected CHL1 / Transfer Line maintenance work, significantly delaying restart of cryogenic operations (and thus cryomodule checkout and commissioning).	Prioritized ACC OPS funding for Cryo warmup issues, allowing currently scheduled work to happen Maintenance schedule created and resource loaded; necessary parts and equipment ordered Controlled warmup incorporated into overall plan (to mitigate loss of gradient)	Moderate

LSD Risk Registry, cont'd.

Nr.	Risk* Statement (A risk event statement states what might happen in the future)	Plan/Steps for Mitigation (Include implementation dates for high impact actions)	Mitigated Risk (High / Mod / Low)
4	22 MVA to 40MVA tie line installation won't be completed per the current LSD schedule, resulting in a delayed LSD completion	Contractor selection announcement expected 5-11-12 Actual installation scheduled to coincide with CHL cool down	Low
5	The Accelerator will not re-start per the current LSD schedule	Sequential integrated scheduling, including items not normally associated with Downs but having an impact Identification and tracking of critical items in each milestone Resource alignment plan Regular status meetings with key personnel CASA Operational restart plan	Low
6	CHL1 Header Line replacement work will be more extensive than scheduled, significantly delaying Cryomodule commissioning	RFQ released with contractor specific mitigation plan (CHL2 substitution) and expectations incorporated, including critical dates required to be met; translates to contract as well Ample float incorporated into schedule Prioritized ACC OPS funding for Cryo warmup issues	Low

LSD Points of Contact

- LSD ESH&Q Lead:
 - Dick Owen/Keith Welch
- Training/Troubleshooting/Emerging Issues:
 - Bob May