

# The Long Shut Down Re-Baseline Review ESH&Q

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November 16, 2012



= Good Day!



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



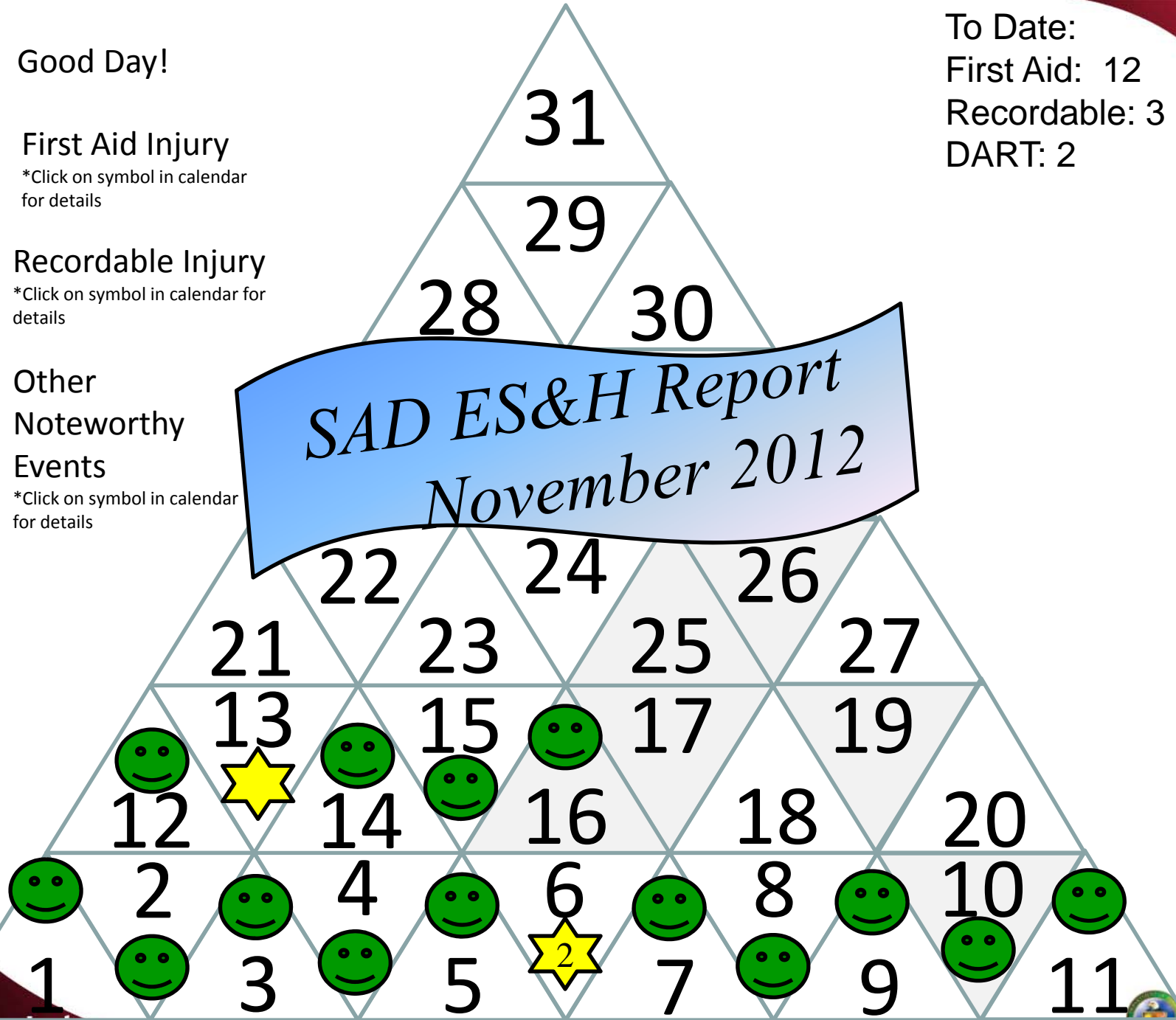
= Recordable Injury  
\*Click on symbol in calendar for details



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

To Date:  
First Aid: 12  
Recordable: 3  
DART: 2

# SAD ES&H Report November 2012



# Injuries – 6MMD vs. LSD

- 6MMD

- 15 First Aid Injuries
- 0 Recordable/DART
- 6 Hand/Finger
- 5 Arm
- 3 Leg
- 1 Neck

- LSD

- 12 First Aid Injuries
- 3 Recordable/2 DART
  - Chipped tooth
  - Sprained ankle
  - Back strain
- 7 Hand/Finger
- 3 Arm
- 2 Leg
- 2 Back
- 1 Tooth

# Work Observations

- 501 observations of work in LSD

<b>Category</b>	<b>Number</b>	<b>Percentage</b>
All Safe	456	91%
PPE	11	2%
Driving	6	1%
Housekeeping	6	1%
Ladders	5	1%

- 567 observations of work in 6MD

<b>Category</b>	<b>Number</b>	<b>Percentage</b>
All Safe	491	87%
Housekeeping	24	4%
PPE	14	2%
Ladders	11	2%

# Successes and Breakdowns in First 6 Months

- Successes
  - Applying LL to concrete removal planning in Hall C
  - Safety Observations demonstrating lots of examples of folks working safely
- Breakdowns
  - Administrative infractions
    - PSS “fiddling”
    - Going into posted areas w/out badges
  - Ergonomic Issues

# Challenges Down the Road

- Challenges for Supervisors
  - Avoiding human error issues resulting from complacency
  - “Use or Lose” vacation = less folks to do more



# Maintaining Safety Awareness

- Ongoing
  - 8am Meetings
  - Biweekly Progress Meetings
- Recent Activities
  - Group Meetings to discuss LSD and FY12 injury performance
  - Hand Safety tool box talk material to supervisors
- Planned Activities
  - LSD Safety Fair – January 10, 2013
  - Ergonomic Awareness tool box talk
  - Safe Lifting Training

# ES&H Support

- We've been able to keep up with the work load
  - IH Monitoring & Support
  - Rad Surveys
  - Rad & Hazardous Waste Management
  - Environmental Sampling
  - Calibrations
- Some requests for additional support
  - SSG (John Jefferson)
- Have sufficient staff to support both LSD and TL, but there may be event-driven priorities



# LSD Risk Registry (1 of 2)

- Top 3 risks being tracked; updates to entire team each month; one risk is “Complete” and will be replaced

Nr.	Risk* Statement <small>(A risk event statement states what might happen in the future)</small>	Plan/Steps for Mitigation <small>(Include implementation dates for high impact actions)</small>	Mitigated Risk <small>High / Mod / Low</small>
1	LSD budget will be significantly constrained and the Accelerator will not restart per the current schedule	<ul style="list-style-type: none"> <li>✓ 6 month Continuing Resolution in place</li> <li>✓ Prioritized ACC OPS funding for Cryo warmup issues</li> <li>✓ Plan implemented for optimized electrical costs</li> <li>✓ Lab staff shifted to address resource needs (vs. external spending)</li> <li>✓ Sequential integrated scheduling, including items not normally associated with Downs but having an impact</li> <li>✓ Identification and tracking of critical items in each milestone</li> <li>✓ Resource alignment plan</li> <li>✓ Regular status meetings with key personnel</li> <li>✓ CASA / Ops Operational restart plan</li> <li>• Lengthen the Long Shutdown depending on budget variables</li> <li>• Re-baseline in November with updated information</li> </ul>	High
2	Cryo system warmup / cooldown will involve extensive unexpected CHL1 / Transfer Line maintenance work	<ul style="list-style-type: none"> <li>✓ Prioritized ACC OPS funding for Cryo warmup issues, allowing currently scheduled work to happen</li> <li>✓ Maintenance schedule created and resource loaded; necessary parts and equipment ordered</li> <li>✓ Transfer line maintenance 90% complete as of mid-November</li> <li>✓ Cryomodule recommissioning and reprocessing Program Manager appointed (Mike Drury)</li> <li>✓ Klystron maintenance plan Program Manager appointed (Bill Merz)</li> <li>• Controlled warmup incorporated into overall plan (to mitigate loss of gradient) – overall goal is stable 4k before Christmas, 2k by week of January 21</li> </ul>	Moderate
3	CHL1 Header Line replacement work will be more extensive than scheduled  <b><u>COMPLETE</u></b>	<ul style="list-style-type: none"> <li>✓ RFQ released with contractor specific mitigation plan (CHL2 substitution) and expectations incorporated, including critical dates required to be met; translates to contract as well</li> <li>✓ Ample float incorporated into schedule</li> <li>✓ Prioritized ACC OPS funding for Cryo warmup issues</li> </ul>	Low

# LSD Risk Registry (2 of 2)

- Items being monitored for consideration:
  - Near term –
    - Test Lab / TEDF recommissioning delays will cause significant LSD impact (Note: this risk will be known by Dec 17)
  - 6-12 months out –
    - Significant delays will be caused by Cryo system cooldown issues, specifically in the areas of:
      - 2K ColdBox recommissioning
      - CHL 1 and 2 recommissioning and interdependencies
      - CHL Reconfiguration
    - Supplemental Physics Programs (Bubble Chamber, Halls A & B runs) will be unable to be supported in current LSD scope

# LSD Director's Review Recommendations

- Recommend continued extensive use of safety wardens, leadership presence in the work place and worker safety committee input.
  - Established processes continue to be used
  - AD ESH&Q as LSD Deputy
- Given the length of the shutdown, it would be beneficial to rework this registry with emphasis on the out months from month 6 onward. The methodologies used by the 12 GeV Project and the TEDF Project, to develop the registry, could be very useful.
  - Registry methodology has been aligned; discussions with 12GeV Project SME were helpful