

ESD Safety Committee Meeting Minutes March 11, 2009

Attending: H-H. Liu, Vivi Fissekidou, Maryann Villavert, Ernie Majer, Seiji Nakagawa, Jim Berryman, Rob Connelly, Bill Collins, Jil Geller, Terry Hazen.

Guests: Kim Abbott, Keith Gershon, Michael Kovacich, Joern Larsen,

1. **Electrical Safety Program update** SJHA's – subcontractor's work Keith Gershon, EH&S Electrical Safety Program presenting
 - a. Electrical Work – link to workbook – “electrical safety workbook”. Subcontractors submit company's electrical safety plan to EH&S. In the past, safety plans have not passed – back and forth revisions – so now EH&S tells them what to do. Workbook is supplement to company's safety plan. Open question format, e.g., “tell us what you do about ...”. EH&S approval (by Keith) good for one year. Scope of work description must include year's work.
 - b. For LOTO, need permit EVERY time they come. Electrical safety (<http://electricalsafety.lbl.gov/>) link to all documents and LOTO permitting. LBNL issues permit – PI initiates. Permit verifies that specific service can be turned off, and that the contractor knows how to do this safely. Multiple sign-offs required. Permit also covers LOTO w/ LBNL Facilities performs LOTO. Vendor always puts on LOCK, even if Facilities does the work, therefore requires permit.
 - c. Energized Electrical Work Permits – very rare – LOTO verification is energized, but this is part of LOTO permit. Testing & troubleshooting of equipment energized, > 50 V. Multiple sign-offs required.
Submit LOTO and EEW permits in time for signatures! Trying to get permitting all electronic for parallel processing to speed up approval, but will still need “wet signature”. Requirements were implemented end of 2008. Have had troubles with delays. None of these requirements are LBNL-EH&S –specific – they are OSHA requirements.

Terry Hazen: Should LBNL hire more electricians to perform the LOTO's instead of relying on the subcontractor and permitting (from overhead)? Permitting would still be required, but less of the information is provided by the subcontractor. Advantage to LBNL doing LOTO is that everyone “meets at the box” (PI, vendor, Facilities) and everyone discusses what is being done. EH&S provided the option of vendor-LOTO b/c Divisions are complaining to upper-level management that EH&S hinders work AND there aren't always enough LBNL-electricians to provide service. Currently 80-90% of LOTOs are LBNL-assisted.

Probably not too many ESD equipment are hard-wired and/or would require LOTO or EEW permits.

How can requirements be disseminated?

- Level-1 ESD weblink for the SJHA process:
<http://esd.lbl.gov/Resources/Health&Safety/sjha.html>
- ESD weblink for electrical work authorization documentation:
<http://esd.lbl.gov/Resources/Health&Safety/sjha.html#ElectricalWorkAuth>
- EH&S weblink for the SJHA process:
<http://www.lbl.gov/ehs/ssa/nssa/index.shtml>
- PUB-3000, Chapter 31 web link for guidance regarding what is hands-on

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work is <http://www.lbl.gov/ehs/pub3000/CH31-AppD.html>.

2. Templates for work planning once project is funded and reviewed annually. Currently don't close loop between funded project and initial safety review questionnaire at proposal time. Vivi presented draft template for review.

- Concern that this is repetitive of JHA.
- Call it Project Health and Safety Plan. Need to document work planning, and identify what you have to procure. Ensures project resources. Who should review it? Supervisor? Safety Coordinator? Business Manager? How many of these would be generated? Would there be too many to be reviewed?
- Paper work can be daunting. Need electronic system to be triggered when project funding arrives, and each time it is renewed. Could be modeled after AHD database. Problem is resource allocation to develop database. Is there a way to make JHA more project-specific through doing work-groups according to projects?
- Need to do look over SRQ to see if it can be incorporated into JHA. But how to address need of e.g. expert to evaluate mine safety.
- Is this a lab-wide/institutional issue? Maryann and Kim will ask other divisions what they do. Ask John Seabury. HSS CAPs – JHA implementation needs to be addressed.

3. Findings from HSS audit distributed.

4. Waste Management QA Exception reports – hazardous waste – not-reported constituents such as mercury found in one waste from Gilbert lab, chromium and others from Conrad lab. Need to find out cause.

Action: VF 4/7/09: Discussed with Howard Hansen, Mark Conrad, B. Bilbert

- Lab 70A-4431: Root Cause: Analytes could be from rock samples reaction vessels and apparatus attacked by BrF₅. Corrective action: the BrF₅ system has been taken out of service and disposed.
- Lab 70-158: Root Cause: Insufficient/inaccurate process knowledge- Generator could not account for mercury in samples.

5. RWA – Hazen lab level 2 violation – didn't get revised permit before ordered material w/ rad in excess of permit. Was received but not sent to lab. Terry did read-and-sign of permit. Amount per vial had changed.

VF 4/7/09 Documented in CATS-7104.

6. Template for procedures – those that require annual review – postponed till next time.