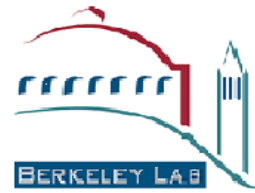
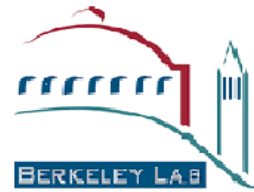


Updates



- **Alameda back to Low**
 - **Non-Business Guest Allowed**
 - **Weekly symptom check still required**
 - **No masks required, except at Medical**
 - **Still allowed onsite if close contact if:**
 - **No symptoms**
 - **Wear mask indoors (10 days)**
 - **Test on day 5 after exposure**
 - **Self testing available at B050**

Electrical Safety



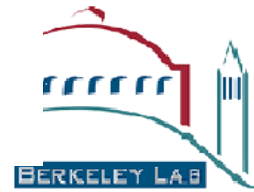
Major shock incident at SLAC at the end of December

What we know from the initial Fact Finding:

- **Preparing for contractor inspections of high voltage lines**
- **Inspections occur every 5 years**
- **12.47 kV source must be LOTO'd (Lock Out/Tag Out)**
- **Employee with 20+ years at SLAC**
- **Something went very wrong!!**

DOE is currently conducting a full investigation

Electrical Safety



Electrical work is defined as any task that involves a shock or arc flash hazard or could create potential shock or arc flash hazards for future users.

Table D-1. Thresholds for Defining Shock Hazard

Source	Includes	Hazard Thresholds
AC	50–60 Hz nominal	≥ 50 V and ≥ 5 mA
DC	All	≥ 100 V and ≥ 40 mA
Capacitors	All	≥ 100 V and ≥ 10 J
Batteries	All	≥ 100 V
Sub-RF	1 Hz to 3 kHz (excluding 50-60 Hz nominal)	≥ 50 V and ≥ 5 mA
RF	3 kHz to 100 MHz	A function of frequency

Electrical Safety



Only Qualified Electrical Workers (QEWs) may be authorized to perform electrical work. Performance of non-electrical work (such as mechanical work or work on electrical circuits below the shock thresholds of Table D-1) does not require a QEW.

- Per Training database, only two QEW1 in NSD (B088)**

Exception: Berkeley Lab personnel who only perform de-energized electrical work on cord-and-plug equipment are not required to be approved as QEWs.

Electrical Safety



Provided that all of the following conditions are met:

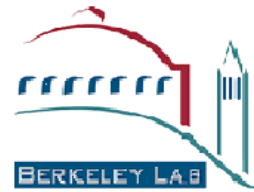
- The equipment is unplugged.
- The equipment meets the requirements for the cord-and-plug exemption to Lockout/Tagout (LOTO) in accordance with the Berkeley Lab Work Process C in Chapter 18 Logout/Tagout Program.
- A QEW provides direct field supervision of any electrical work performed while equipment is unplugged.
- Personnel are **trained and authorized** by their line management to perform the work on that specific equipment.

Per the Training database,

EHS0389 Simple LOTO for Cord-and-Plug Equipment

- **24 current in NSD (21 at B088)**

Electrical Equipment Safety



Electrical Equipment Safety Program (EESP)

- Applies to any individual who uses electrical equipment, including all Berkeley Lab employees, subcontractors, and facility users. All Unlisted or modified NRTL-Listed electrical equipment requires inspection and approval prior to use.

Exceptions:

- Unmodified NRTL-Listed Equipment
- Unused Equipment (must be labeled)
- Equipment Granted Conditional Acceptance under Work Process E (prototype or proof-of-concept)
- Equipment Considered Nonhazardous
 - 60 Hz AC <50V or >50V and <5mA

Ohmar Sowle (OASowle@lbl.gov, cell 510-220-2934)

Questions?

