IR-2 D&D SAFETY ORIENTATION

Joe Kenny, PPA-BaBar, ext.-2201
SLAC ES&H Policy

- Use ISEMS
- Healthful & safe workplace
- Sustainable operations
- ALARA
- Integration of ES&H concepts into all phases of operation
- Compliance and Best Management Practices
- Line Management of ES&H
- Identify & stop unsafe activities
- **Learn from successes and deviations from expected outcomes**, and encourages workers to both report these instances and provide feedback
Incident Notification - Life Threat

- For life threatening incidents, always call 911
  - Examples include: incidents involving severe injuries, significant amounts of smoke, a fire, an explosion or a large release of hazardous materials, dangerous law enforcement situations

- Calling Sequence
  1. 911 will roll emergency responders (Fire & EMS)
  2. ext. 5555 will activate internal response and notification
     - Via mobile phone: 650-926-5555
  3. Your supervisor

- Call from safe location; provide detailed information and where you will meet responders
Incident Notification – Non-Life Threat

• For all Non-Life Threatening incidents:
  – Inform your supervisor first
• For Injuries/Illnesses:
  – During SLAC Clinic hours (8 AM-4:30 PM), report to clinic for treatment
  – After SLAC Clinic hours, call ext. 5555 for instructions from Security on what clinic to go to
• For Non-Life Threatening Chemical or Radiation incidents and Facilities or Equipment Damage:
  – Call ext. 5555; needed to activate internal response, reporting and investigation processes
• Whenever in doubt call 911 or Security at extension 5555
If you supervise work in the IR hall, you **must** attend the 0800 (day shift) pre-shift meeting
Why Work Authorization?

• Informs all of the status of safety provisions extended over multiple shifts
• Tells all of safety (and other) lessons learned
• Allows all working groups to see how their work might impinge on others
• Allows all to see how others’ work might affect themselves
• Useful for allocating scarce resources
Work Authorization

JSAs and WIPS

WORK AUTHORIZATION DOCUMENTS

All work will be performed under a

Job Safety Analysis (single group)

or

Work Integration Plan (multiple groups)
WORK AUTHORIZATION DOCUMENTS

- Discuss WIPs and JSAs for your work at the Shift Meeting
- Get necessary signatures
- File documents in JSA binder in Conference Room
- Talk to Joe, Frank, or Sandy for more details
Fire

• If you see smoke or hear an alarm, evacuate immediately from nearest exit

• Only trained people may use fire extinguishers. See me if you would like training.

• Meet in IR-2 parking lot

• Dial 911 from a SLAC phone, report fire, answer all questions and let them hang up first
Earthquake

- Remain calm
- Move away from windows and falling equipment
- Get under a sturdy desk or table
- If quake was strong enough to knock objects off shelves, then evacuate carefully only after shaking stops
- Report to the IR-2 parking lot
- Do not re-enter building until authorized to do so by BAT or PAFD
**Medical Emergency**

- Remain calm
- If victim is in contact with energized electrical conductor, DO NOT TOUCH HIM. Disconnect power source.
- Dial 911 from a SLAC phone, report illness/injury, answer all questions and let them hang up first
- You may administer first aid if trained to do so
- Do not alter accident scene
- Send someone to parking lot to help EMTs find victim
Personal protective equipment

- Hard hats MUST BE WORN in IR-2 unless you are in the DIRC tunnel
- Hard hats are provided at most entrances to the IR hall
- Open-toed shoes are not allowed in IR hall
- If you handle objects exceeding 75 lbs. (34 kg) you must wear steel-toed shoes. (SLAC will pay for these, see http://www.slac.stanford.edu/esh/forms/footwear.html)
- Wear safety glasses while grinding, sawing, or soldering.
- Safety glasses must have side shields.
Personal protective equipment

- Wear gloves while handling sharp or rough metal objects. (Leather is best.)
- See me if you plan to operate a laser, service lead-acid batteries, use a respirator, or feel you need hearing protection
Lead (Pb)

• If you plan to handle metallic lead (and are not yet trained to do so) contact me at x2201 or 415-596-8137.
FALL PROTECTION

unprotected edge

6'

>4'

Fall Protection

- Must successfully complete Fall Protection training
- Must complete an ESWP with Joe Kenny (-2201)
- Must attach copy of EWSP to your JSA (and WIP if you have one)
Crane use

- *Only explicitly-qualified workers are to use cranes*
- This means *you* are *not* (chances are)
Electrical hazards by I:V

- **I (amps)**
  - $10^{-3}$
  - $10^3$

- **V (volts)**
  - $1$
  - $10^6$

- **Burn Injury**
  - 250 Volts
  - 1000 Watts

- **Arc Flash**
  - Class 2.3

- **Electric Shock**
  - Class 2.2 (≤10 Joules)

- **Reflex**
  - Class 2.1

- **Training Plan 4044 Energized**

Images of hands with burns and a fireball are also present.
Electrical work controls

- Training
- Approach distances
- PPE
- ELPs
- Locks w/tags
- Barriers

- In short: Lets the electricians do wall-current work!
Storage

Do not store items

– In exitways
– In stairwells
– In front of electrical panels

Refrigerator is for food only.
Radiation Surveys

• All material inside the shielded portion of IR-2 will be processed in accordance with the BaBar D&D Material Classification and Control Plan I
• This includes RPFO survey, ID/bar coding, secure storage, salvage where allowed, etc.
• You must have PRCS Training
• You must have Lockout/Tagout Training
• See me to sign up for both courses
Three strikes

• BaBar Safety Team member or any D&D worker will stop activities where life or health are in imminent danger

• Negative safety behavior will not be tolerated at IR-2
  – 1st offense: verbal warning
  – 2nd offense: Supervisor/D&D Management meeting
  – 3rd offense: exclusion from the IR-2 facility

• 4 workers were dismissed from IR-2 in 2004 for repeatedly disregarding the rules
The BaBar Safety Team for D&D

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