Moving on After the Settlement

The Approach of a Small University of California Campus

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Background

- University of California, Merced
  - Newest of 10 campuses, est. 2005
  - 7300 students
  - Located in the Central Valley ~150 miles from San Francisco

- UC system is committed to safety first, and compliance second.
- Increased risk management
Background

• Accident at UCLA 2008

• UC - Cal/OSHA settlement agreement
  • Settlement requirements already law (Lab Standard).
  • 4 year term
  • 8 labs at UCM

• Post settlement applies to all 80 labs (soon to be 110 labs)
Settlement Requirements

• Training
• Personal Protective Equipment (PPE)
• Standard Operating Procedures (SOPs)
Settlement required 95% of workers trained on Lab Safety Fundamentals.

- OSHA 1910.1450(f)
- Lab Roster
- Establish Learning Management System
- Offer online training
- Run training reports
Training - moving forward

- Current % compliance? Campus has some work to do.
  - Know who is in lab.
  - Notify on lab audits
  - Escalate
  - Lock out lab

- What about other training courses?
  - Biosafety, Fire Safety
Challenges

• Short term visiting researchers don’t get into system.
• Manual, labor intensive process to track training.
• Rely on PI to update lab roster.
Training Questions?
Personal Protective Equipment (PPE)

- Employer must provide PPE free of charge.
  - OSHA 1910.1450(a)(2)(ii)

- No PPE without hazard assessment
  - 70 assessments certified, 7 drafts, 3 not certified
Personal Protective Equipment (PPE)

• Initial UC Office of President help
  • Funding
  • Hazard Assessment software

• Line item in budget
  • Purchased $16,000 of PPE in 2016
  • About $73,000 of PPE on campus
  • Current coats issued: 1,128
  • 235 coats issued this academic year
One Size Does Not Fit All

- Offer 24 different styles of safety glasses
- 8 styles goggles
- 12 sizes lab coats in male and female
  - Bimodal distribution with S preferred female, M male.
- Three types of lab coats
  - Cotton, barrier, and fire/chemical resistant coats based on hazard assessment
- Each worker gets two coats minimum.
Tracking the PPE

• Name of student/PI
• Barcode coat
• Scan when vendor picks up/ drops off
• Coats returned direct to lab like chemical package.
• Charge students for unreturned coats
  • Cotton/barrier coats $30
  • FR coat $100
  • FR-CR coat $200
Challenges

• Random PPE checks.
  • Are they working with hazardous materials?

• Labs keeping PPE after students move on.

• Space for storage of lab coats.
PPE Questions?
Settlement required 95% of SOPs to be written for Exhibit 1 chemicals.

- Exhibit 1 - strong corrosives, carcinogens, mutagens, potential explosives, highly toxic materials, etc.

SOPs - How Accomplished

• Order Approval
• Central Receiving
• Chemical Inventory
• UCOP provided software
  • Radical and Chemical Inventory
  • Reports

• Prioritized Exhibit 1 list, then PHSs
SOPs - Moving Forward

• Current % compliance? Campus has some work to do.
  • Track on audits
  • Escalate
  • Prevent chemical orders
    • EHS approval needed
    • EHS store items received until SOPs written
Challenges

• PIs don’t want to write SOPs.

• Very labor intensive to review SOPs and inventory to determine compliance.
SOP Questions?
Summary

- Settlement contained nothing that wasn’t already in the law.
- Tracking is difficult, but results in better risk management.
- How is your campus doing?