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USER	Name (Last, First)	Badge Number	Signature
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INSTRUCTOR	Date (MM/DD/YYYY)
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## 27-ID ORIENTATION RECORD

### Emergencies

- Outside ANL: 911 / Inside ANL: 630-252-1911 (2-1911 from beamline phone)
  - Difference between the two numbers
  - Location of the sector (Bldg. 437, column #145) to use when contacting 911
- Fires and Tornadoes
  - Fire extinguisher locations and use (if qualified). By hutch B door, Experimental Hall cols#143 and #149, and both 437A emergency exits.
  - Fire Alarms – Explain APS two-stage fire alarm system
  - Building Evacuation Route and rally point: Exit through 437, turn right and proceed to Bldg. 450 parking lot
  - Shelter locations for tornados: restrooms near pentagon C 437 entrance.

### Safe Conduct of Experimental Work

- Experiment Safety Guidelines
  - Work within scope of the ESAF
  - ESAF must be posted before starting work
- Stop Work Authority
  - Everyone has stop work authority at ANL
  - Rights and responsibilities of stop work authority
- Contact the on-duty floor coordinator: 2-0101 beamline phone
  - Sector policy on working alone

### Electrical Safety

- Device Inspections (DEEI)
  - Explain when a DEEI is required. Verify that all electrical equipment is NRTL or DEEI inspected
- Electrical Work
  - Prohibited activities: rewiring of plugs, cables, or any other electrical equipment, connecting and disconnecting motor cables with power on
  - Users are not allowed to perform unsupervised electrical work or reset tripped circuit breakers
  - Extension cords and power strips must be used appropriately. No overloading or daisy-chaining

### Chemical

- ALL CHEMICALS MUST BE IDENTIFIED ON THE ESAF!
  - No wet chemistry at the Beamline or control room
- PPE
  - Describe required PPE and where to obtain PPE
- Sharps and Lead tape disposal
- Chemical Waste
  - Requirements for waste left at end of the experiment

- Shipping
  - Procedure for shipping to and from APS

### **Experimental Hutches**

- Describe Emergency Beam stops, emergency door controls, and their use
  - No one is allowed inside an experiment station at the APS with the doors closed
- Search and Secure
  - Describe how to conduct a search and secure of all applicable stations
- Note the requirement that enclosure search and egress paths must remain unobstructed

### **Radiation Safety**

- Configuration Controlled Equipment
  - Description of equipment, RSS tag example (use yellow tag for example; red tags are the old style)
  - These components are to not be removed or tampered with
  - Labyrinths must never be opened by users. Describe process to have FC open them if needed.
- Personnel Safety System
  - Describe function
- Beamline Enclosures
  - Should not be drilled into, punctured, etc.
- Dosimetry requirements on the APS Experiment Hall Floor
  - All personnel on the APS Experiment Hall Floor are required to wear a dosimeter
  - Confirm that user is appropriately wearing their dosimeter (on torso midway between the neck and the waist)

### **Utility Shutoffs**

- Locations of utility shutoffs for electricity, water, and compressed gases
- Notification procedure if utility shutoffs are used

### **General Safety Guidelines**

- Egress areas
  - Outlined in yellow tape. Items are not to be stored in these areas
- Compressed Gas Cylinders
  - Use regulators and piping of appropriate pressure rating and for gas used
  - Secure cylinders to wall when in use; to a cylinder cart when transporting. Cap when not in use
- State importance of minimizing tripping hazards, especially inside experimental enclosures
- Tricycle usage at the APS: safe speed, parking, do not use other sector's tricycles
- Pedestrian Safety
  - Walkway is shared by people and variety of motorized/moving vehicles
  - Look both ways before stepping into the walkway

### **Additional Sector Information**

- Provide any additional information not covered previously
  - Lasers
  - Exposed beryllium or lead