LA-UR-18-25306
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Title: Criticality Safety Scenario-Based Training at Los Alamos National Laboratory

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Intended for: American Nuclear Society Annual Meeting, 2018-06-18 (Philidelphia, Pennsylvania, United States)

Issued: 2018-06-15

Criticality Safety Scenario-Based Training at Los Alamos National Laboratory

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Potential Process Deviations

- Operations Calls the Ops Center
- Ops Center Contacts NCSD
- NCSD Responds With 2 CSAs
- CSAs Provide Safety Guidance

Potential Process Deviation Requirements

- Pause work in a safe manner
- Back away 15 feet
- Establish an exclusion zone
- Warn others to avoid area
- Notify the Operations Center
- Await further instruction

Training Requirements

- Familiarization with Administrative Procedure
  - Responsibilities
  - Procedure for Responding
    - Response
    - Fact Finding
    - Severity Index Determination
    - Recovery
- Potential Process Deviation Briefing

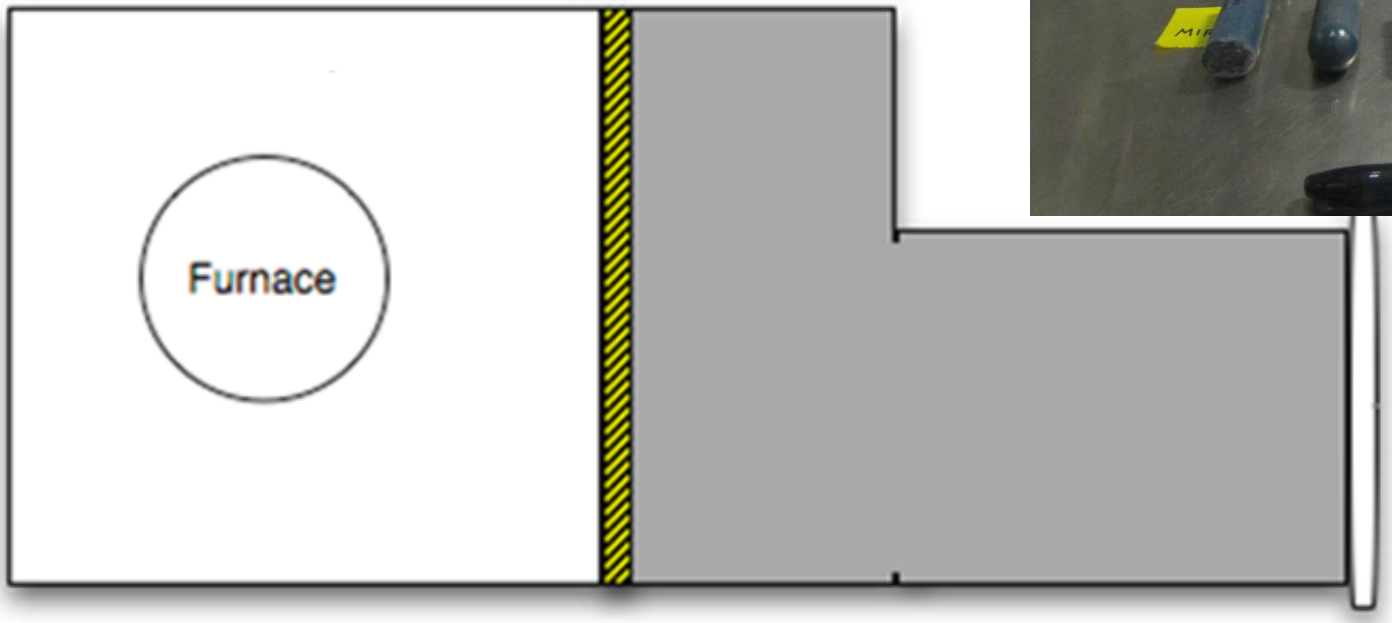
The Situation

- LANL Photo Op
- Overmass
- Non-Containerization
- Loss of Interaction Control

Controls

- Pu Metal as rods, pucks, or samples ≤ 4,500g
- Pucks held in mold of container
- Rods staged in 2-Q slip top container or mold
- Pu as Hemis ≤ 6,000g
- Triangular delimiter used to maintain space between locations

*Reenactment for Training



The Cold Lab

- Used for FMH Training, Cold Lab Mock up of Facility
- Gloveboxes with Trolley Lines and Drop Boxes

Key Players

- Former CSO/FMH Area Expert
- Current CSO/Former Responding CSA
- IT-CSAs
- Operators

Safe and Stable

- Review of CSED & Limits
- Evaluate Potential Risks
  - Anything Currently Changing?
  - How Could The Situation Change?
- Make Appropriate Recommendations

Results of The Training

- Positive Feedback From Participants
- Practice Determining Severity Index
- “Experience Potential Process Deviation Firsthand Without Worry of Making an Error”
- New Scenario Every Year