



LANL Process Drift

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Overview

- CMR Drum Measuring
 - The Drift
 - The Resolution
- PF-4 Floor Storage
 - The Drift
 - The Resolution
- Lessons Learned

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CMR Drum Measuring Operation

- Confinement Vessel Disposition (CVD)
- Removes waste from 6' diameter orbs
- Rough Measure Drums before storing
- Drums had a combination of DU and Pu

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The CMR Process Drift

- Needed a place with low background to measure DU
- LLW drums were previously measured in the Machine Shop
- Drums from CVD were measured in the machine shop containing Pu
- Fissile material was not evaluated in the area

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The Drift

- CVD Waste Drums were measured near machine shop
- LLW Drums were measured in the machine shop
- Both drums had DU present and needed a low background
- CVD Drums were then measures inside the machine shop, outside of an allowed boundary

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Resolution

- Further FMH Training
 - Training on when Crit needs to be involved with new process
 - Further training on CMR-AP-522
 - More time spent at CMR with operations
- New extension to the current Crit Evaluation

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PF-4 Floor Storage

- Items being moved from floor storage to an introduction hood
- Currently over 100 items on the initial floor storage location
- Items were being dispositioned as waste
- Carts were utilized to move the items, each with two locations

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PF-4 Item Movement

- Items were moved from one room to another
- Total of six items were being moved
- The room was filled with three large carts and many operators
- There were concerns with radiation protection, fire protection, and ergonomics

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The Drift

- Items were moved from the cart to the floor
- Carts were moved out of the room to create space to work
- When paused to check the RWP, realized there was no allowance for material on the floor

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Resolution

- Learned this used to be a common occurrence in the far distant past
- Development of floor storage evaluation
- Working on more collaboration between safety disciplines
- Further training on conduct of operations and crit safety rule and TA55-AP-522

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Lessons Learned

- More attention to annual reviews
 - Use as a teaching opportunity & to learn more about constant operations
- Conflicting safety disciplines makes it difficult for operations to be compliant
- More time spent with operations helps to catch issues before they arise

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