

## **Status Building 235-F Project**

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### Purpose

#### Provide information regarding ongoing risk reduction activities in the 235-F Facility.

#### Complete a 2015 Nuclear Materials Committee Work Plan topic







## **Building 235-F Background**

- Building 235-F has had numerous missions over the years, with the most recent being fabrication of Plutonium (Pu)-238 in the Plutonium Fuel Form Facility (PuFF) for use in construction of power sources for NASA deep space missions in the 1980's
- Residual material in the nine PuFF facility cells was last measured in 2006
- About 1.5 kilograms of Pu-238 material remain in the cells
- In a seismically induced full facility fire accident scenario the calculated unmitigated dose is about 29,000 rem onsite and 11.4 rem offsite
- The building is safely maintained in the surveillance and maintenance mode
- The project objective is to reduce the unmitigated onsite dose to less than 100 rem by reducing Pu-238 levels in PuFF
- The facility end state will be determined through an agreement with State Regulators



Space Mission



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## **Key Accomplishments**



PUFF Cell Training Mock Up

- All major planning documents completed and submitted to Defense Nuclear Facilities Safety Board (DNFSB)
- Fixed combustible removal completed
- Electrical De-Energization efforts completed in accordance with the *Plan for De-Energization of Electrical Components at 235-F SRS*
- Installation of an upgraded Fire Detection and Alarm system completed
- Assembled and trained the crew who will perform the key tasks on the Project
- Began a series of readiness reviews that will culminate with DOE approval to begin field work (expected to occur Summer 2015)

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## Key Plans for FY 2015

#### Below are all the 2015 tasks related to cells 6-9:



PuFF Cell Control Panel and Manipulators

- Clean cell windows
- Establish cell lighting
- Install new gloves
- Complete measurements of the amount of material in cells
- Repair or replace manipulators







# Questions

PuFF Cell Control Panel and Manipulators