



# Plutonium Finishing Plant Progress Update

*Hanford Advisory Board*

*Bryan Foley,  
Department of Energy Richland Operations Office*

*September 2015*



# Plutonium Finishing Plant Overall Progress To Date

*Progress Update - September 2015*

	Original	Remaining
Processing Equipment (e.g., glove boxes) Removed or Ready for Removal during Demolition	238	5
Pencil Tanks Removed	52	0

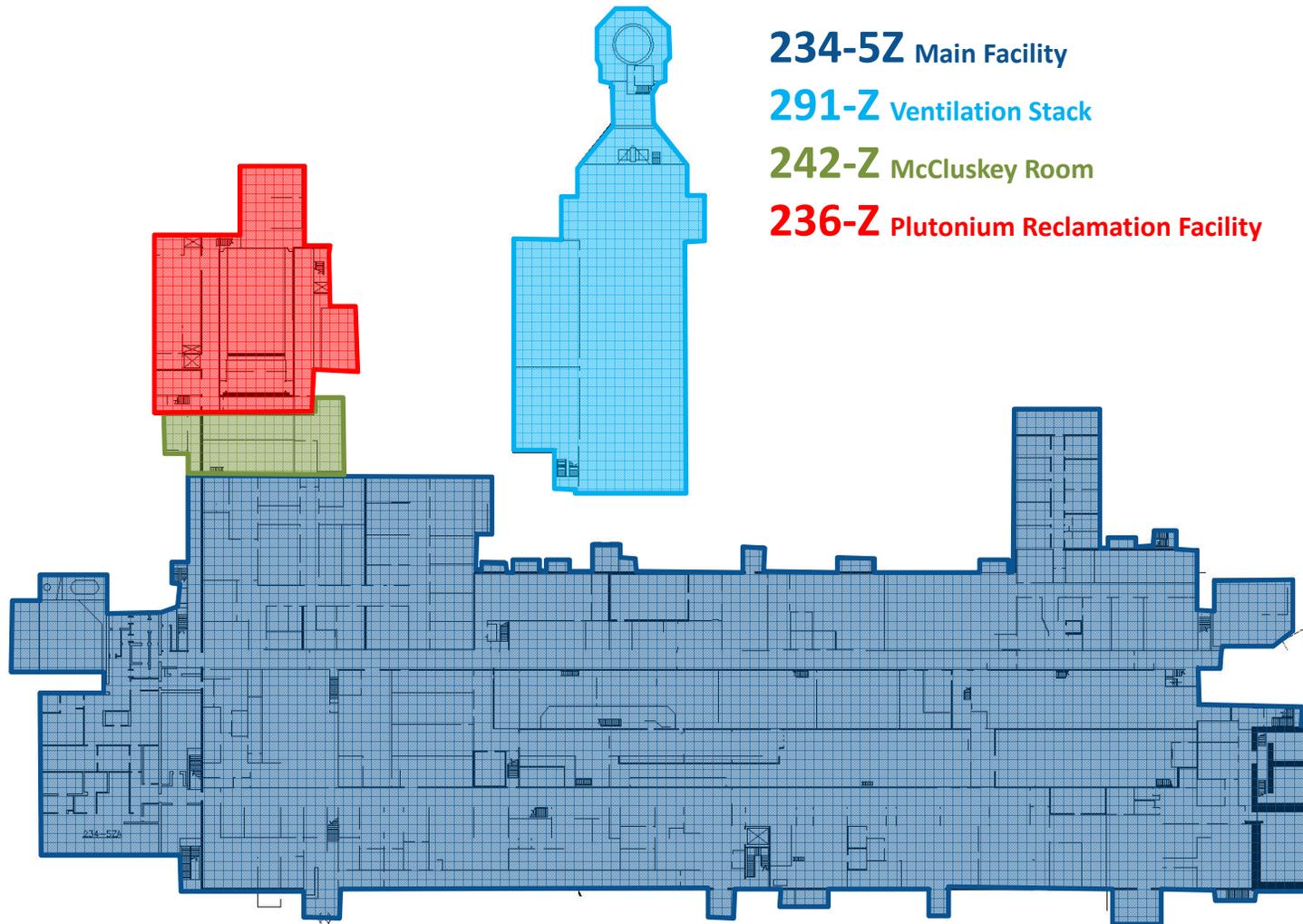
## Progress Through August 30:

- 95 percent large pieces of processing equipment (e.g., glove boxes, laboratory vent hoods) removed
- 64 of 81 facilities demolished/removed from the PFP complex



# Plutonium Finishing Plant *Overview*

*Progress Update - September 2015*



**234-5Z** Main Facility

**291-Z** Ventilation Stack

**242-Z** McCluskey Room

**236-Z** Plutonium Reclamation Facility

# Plutonium Finishing Plant *Pre 2012*

*Progress Update - September 2015*



# Plutonium Finishing Plant *December 2013*

*Progress Update - September 2015*



U.S. DEPARTMENT OF  
**ENERGY**

# Plutonium Finishing Plant *December 2014*

*Progress Update - September 2015*



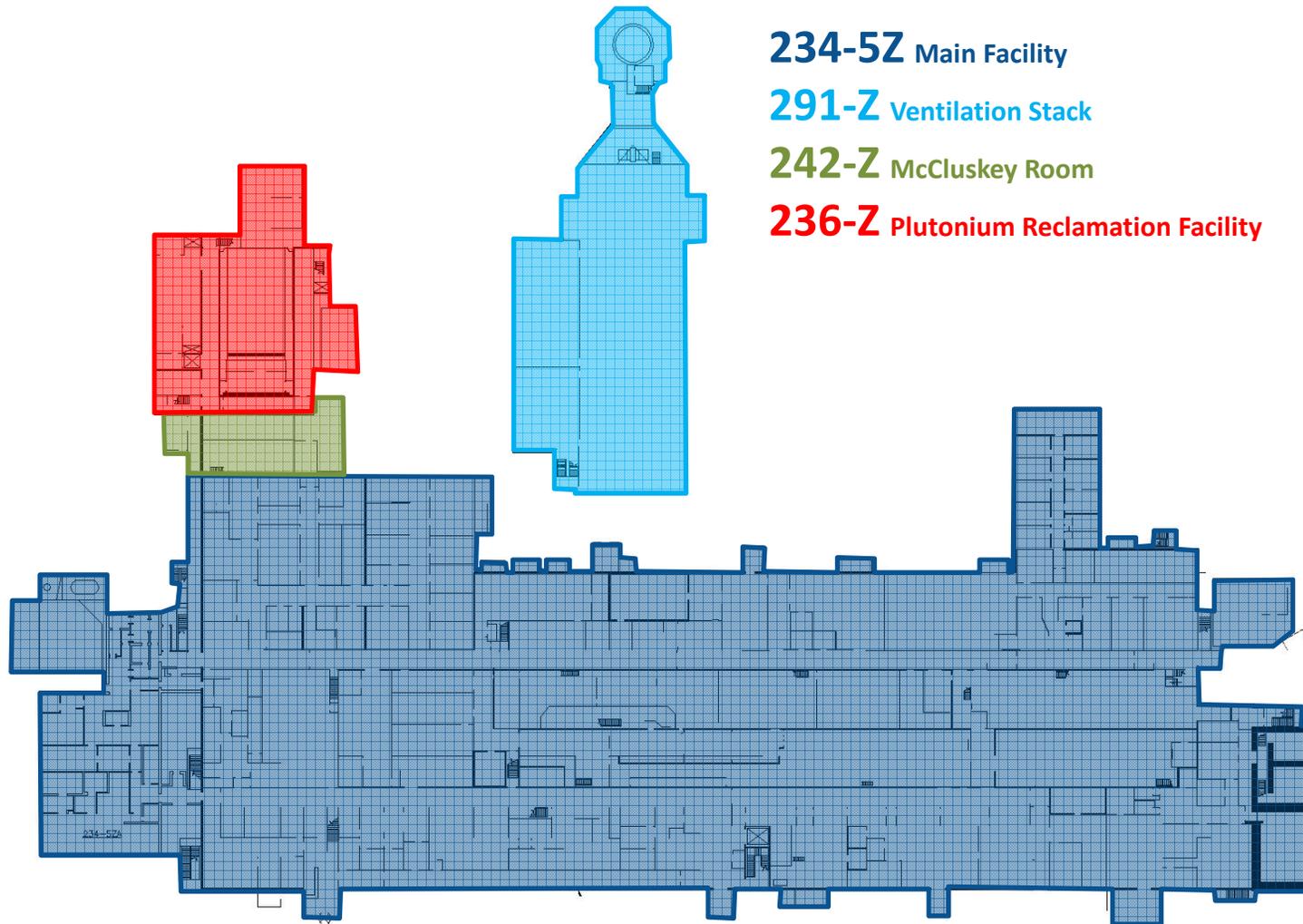
# Plutonium Finishing Plant *September 2015*

*Progress Update - September 2015*



# Plutonium Finishing Plant *Overview*

*Progress Update - September 2015*



**234-5Z** Main Facility

**291-Z** Ventilation Stack

**242-Z** McCluskey Room

**236-Z** Plutonium Reclamation Facility



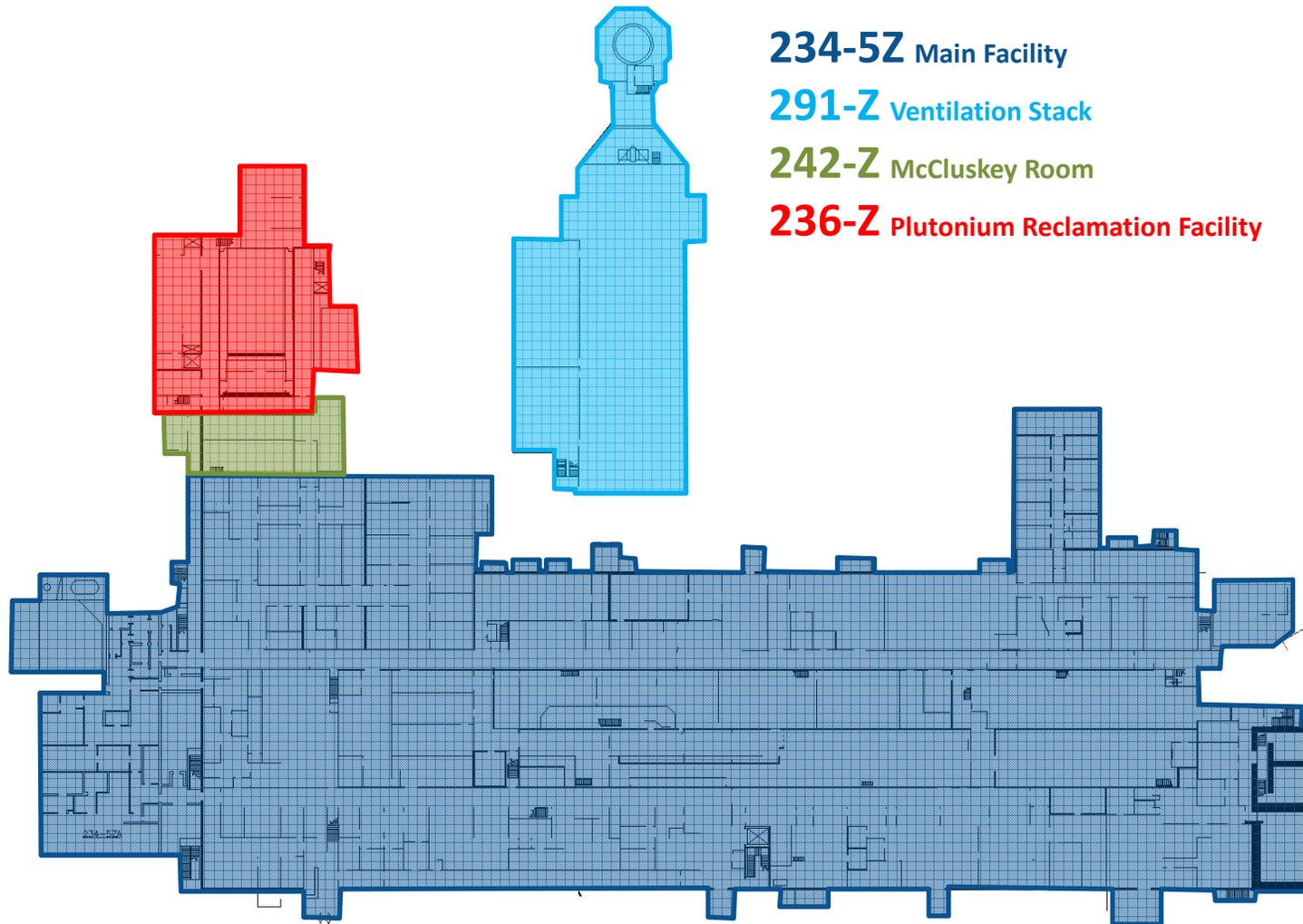
# Plutonium Finishing Plant (234-5Z) *Processing Equipment September 2015*

Progress Update - September 2015



# Plutonium Finishing Plant *Overview*

*Progress Update - September 2015*



**234-5Z** Main Facility

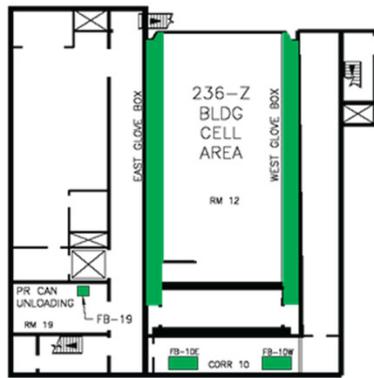
**291-Z** Ventilation Stack

**242-Z** McCluskey Room

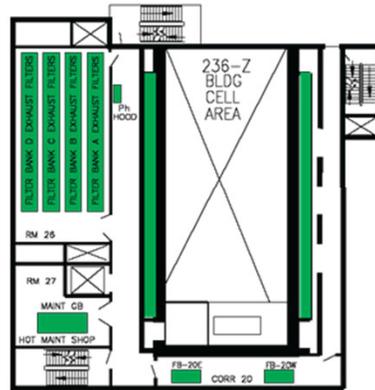
**236-Z** Plutonium Reclamation Facility

# Plutonium Finishing Plant (236-Z) Status in 2008

Progress Update - September 2015



236-Z BLDG  
FIRST FLOOR

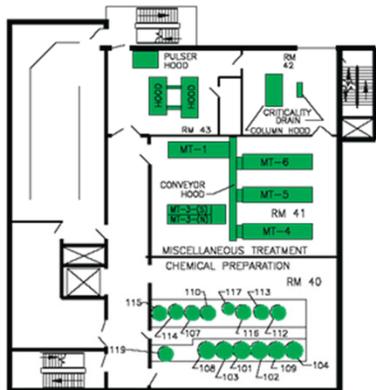


236-Z BLDG  
SECOND FLOOR

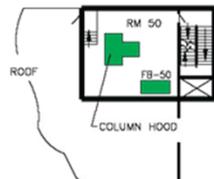


236-Z BLDG  
THIRD FLOOR

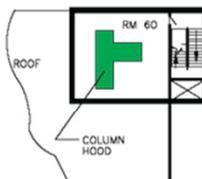
 To Be Removed  
(glove boxes, filter boxes, tanks,  
pencil tank sections)



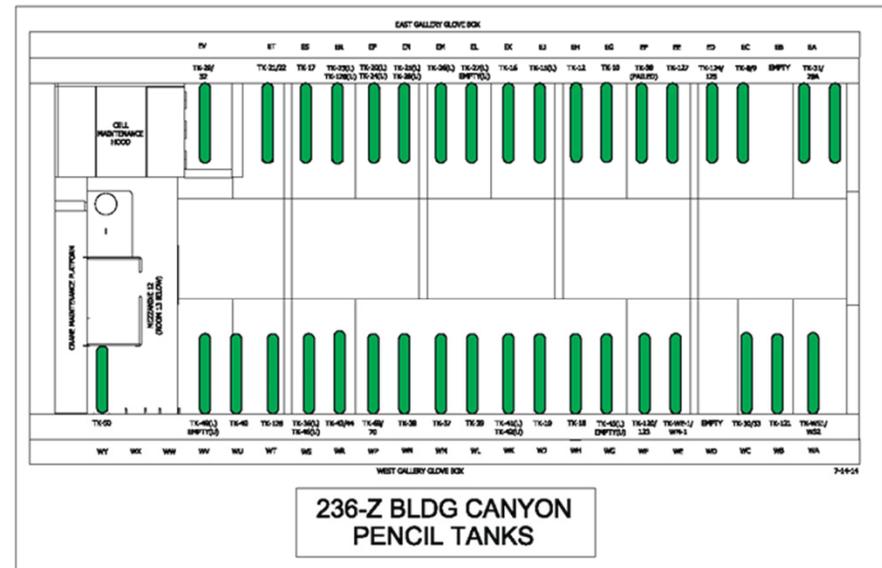
236-Z BLDG  
FOURTH FLOOR



236-Z BLDG  
FIFTH FLOOR



236-Z BLDG  
SIXTH FLOOR

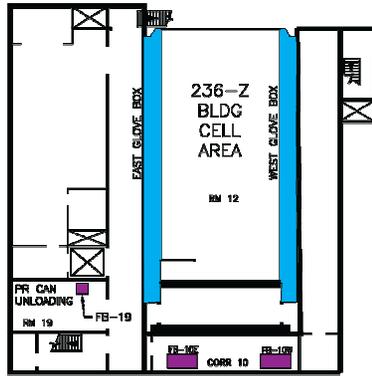


236-Z BLDG CANYON  
PENCIL TANKS

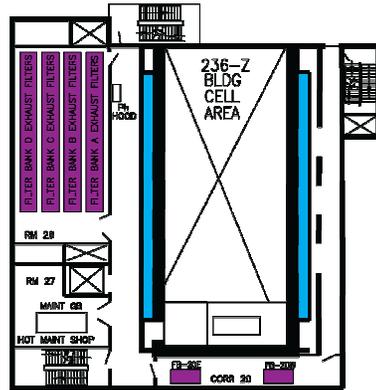


# Plutonium Finishing Plant (236-Z) Status in September 2015

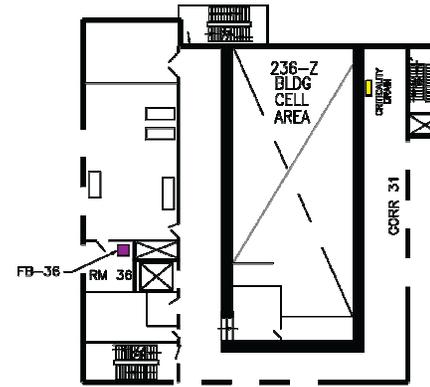
Progress Update - September 2015



236-Z BLDG  
FIRST FLOOR

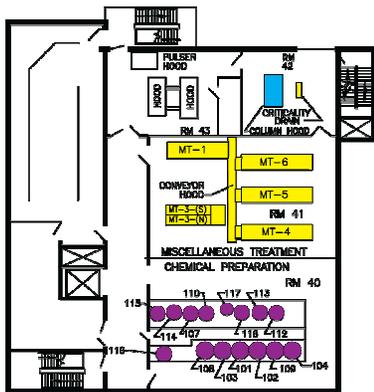


236-Z BLDG  
SECOND FLOOR

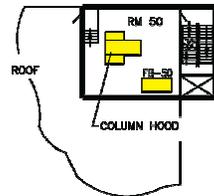


236-Z BLDG  
THIRD FLOOR

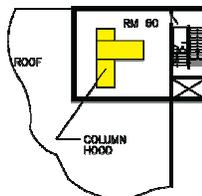
- In Progress  
(glove boxes, hoods, and pencil tanks)
- Near Term Work  
(filter box and chemical tank removal)
- Ready to Ship  
(off E4 ventilation)



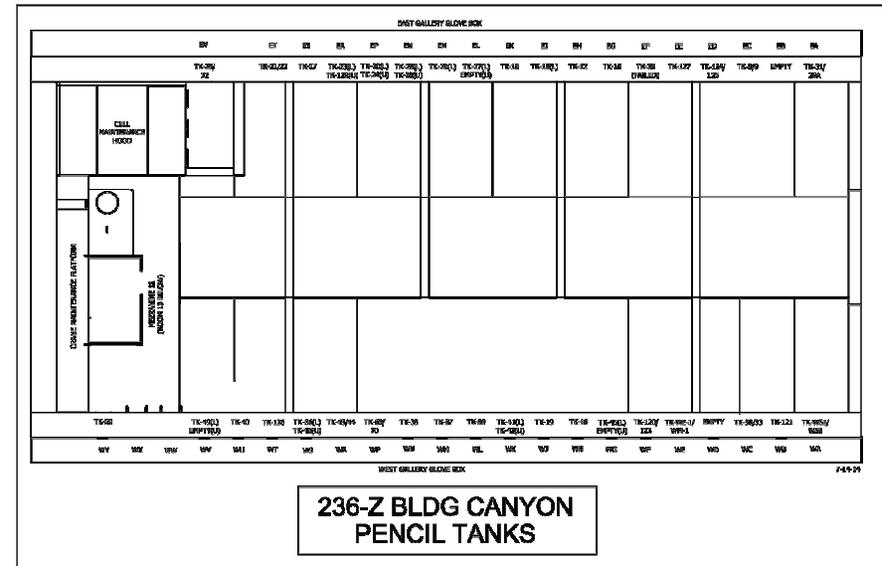
236-Z BLDG  
FOURTH FLOOR



236-Z BLDG  
FIFTH FLOOR



236-Z BLDG  
SIXTH FLOOR



236-Z BLDG CANYON  
PENCIL TANKS



# Plutonium Finishing Plant Closure Project

## *Recent Accomplishments*

*Progress Update - September 2015*



*Employees removing the last pieces of glove box WT-1 in the McCluskey Room*



*Subcontractors installing the fence surrounding PFP to control access during demolition*



*An excavator demolishes 243-Z in August*



*PFPP employees celebrating removing the last pencil tank from the Plutonium Reclamation Facility*

- Removed the last glove box from 242-Z (McCluskey Room)
- Removed the last of 52 pencil tanks
- Size reduced and removed one of two large, highly contaminated glove boxes
- Demolished 243-Z, the Low-Level Waste Treatment Facility, to continue preparing an open area for heavy equipment to operate in during demolition of main PFP building

# Plutonium Finishing Plant Closure Project

## *Look Ahead – Path to Slab on Grade*

Progress Update - September 2015

### Overarching Goals during Remediation

- Work safely
- Retain talented workforce

### 242-Z (Americium Recovery Facility)

- Complete tank room

### 236-Z (Plutonium Reclamation Facility)

- Grout PRF canyon floor
- Finish gallery glove boxes

### 234-5Z (Plutonium Finishing Plant)

- Complete in-situ glove box size reduction
- Remove contaminated ventilation ducts and deactivate plant ventilation
- Finish asbestos abatement



*Before (top) and after (bottom) pictures of the size reduction of glove box HC-9B.*