



Plutonium Finishing Plant Progress Update

Hanford Advisory Board

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Department of Energy Richland Operations Office*

March 2015



Plutonium Finishing Plant Overall Progress To Date

Progress Update - March 2015

	Original	Remaining
Processing Equipment (e.g., glove boxes) Removed or Ready for Removal during Demolition	238	23
Pencil Tank Sections Removed	196	23

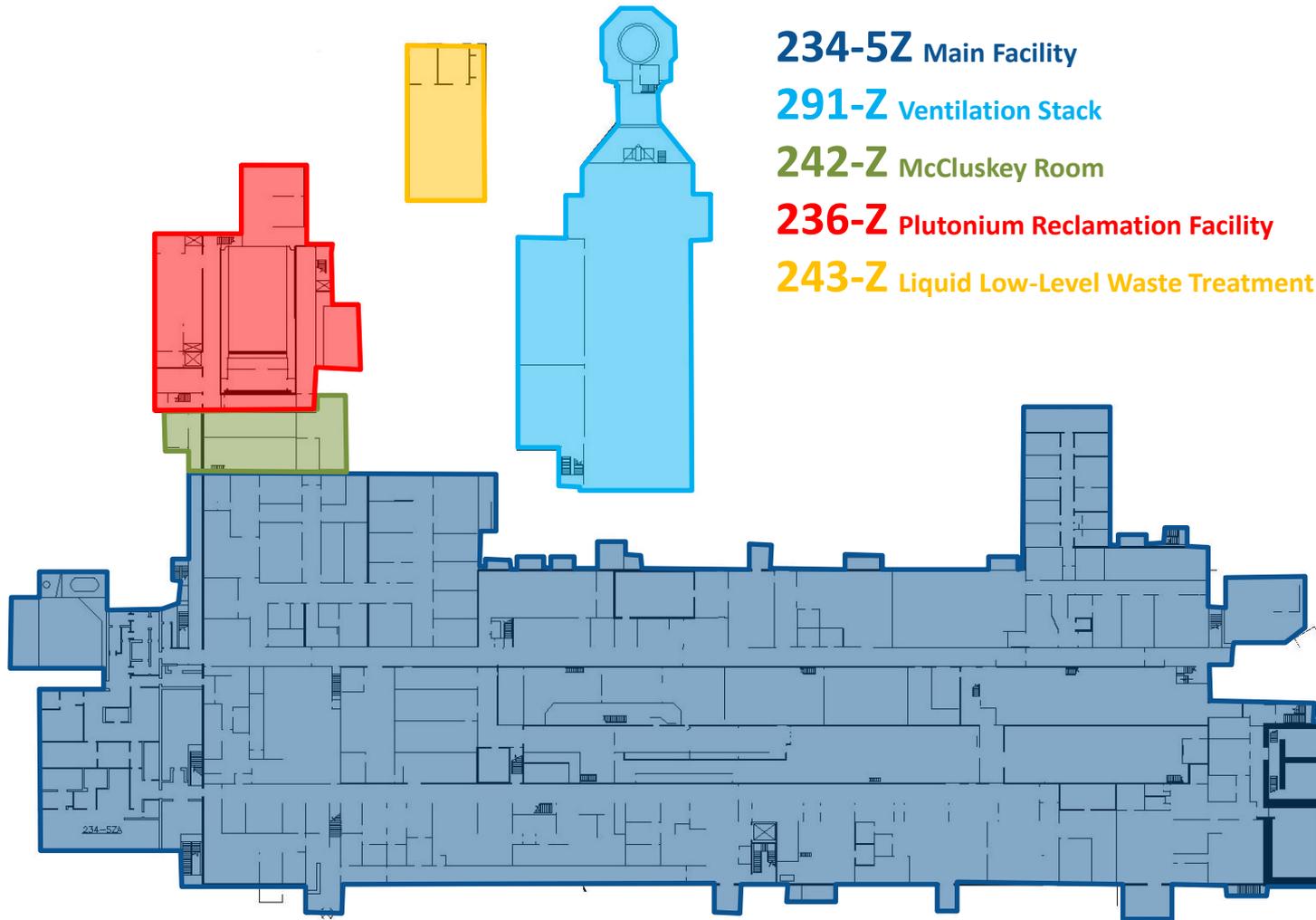
Progress Through Jan. 31:

- 90 percent large pieces of processing equipment (e.g., glove boxes, laboratory vent hoods) removed
- 88 percent pencil tank sections removed
- 63 of 81 facilities demolished/removed from the PFP complex



Plutonium Finishing Plant *Overview*

Progress Update - March 2015



Plutonium Finishing Plant *Pre 2012*

Progress Update - March 2015



Plutonium Finishing Plant

December 2013

Progress Update - March 2015



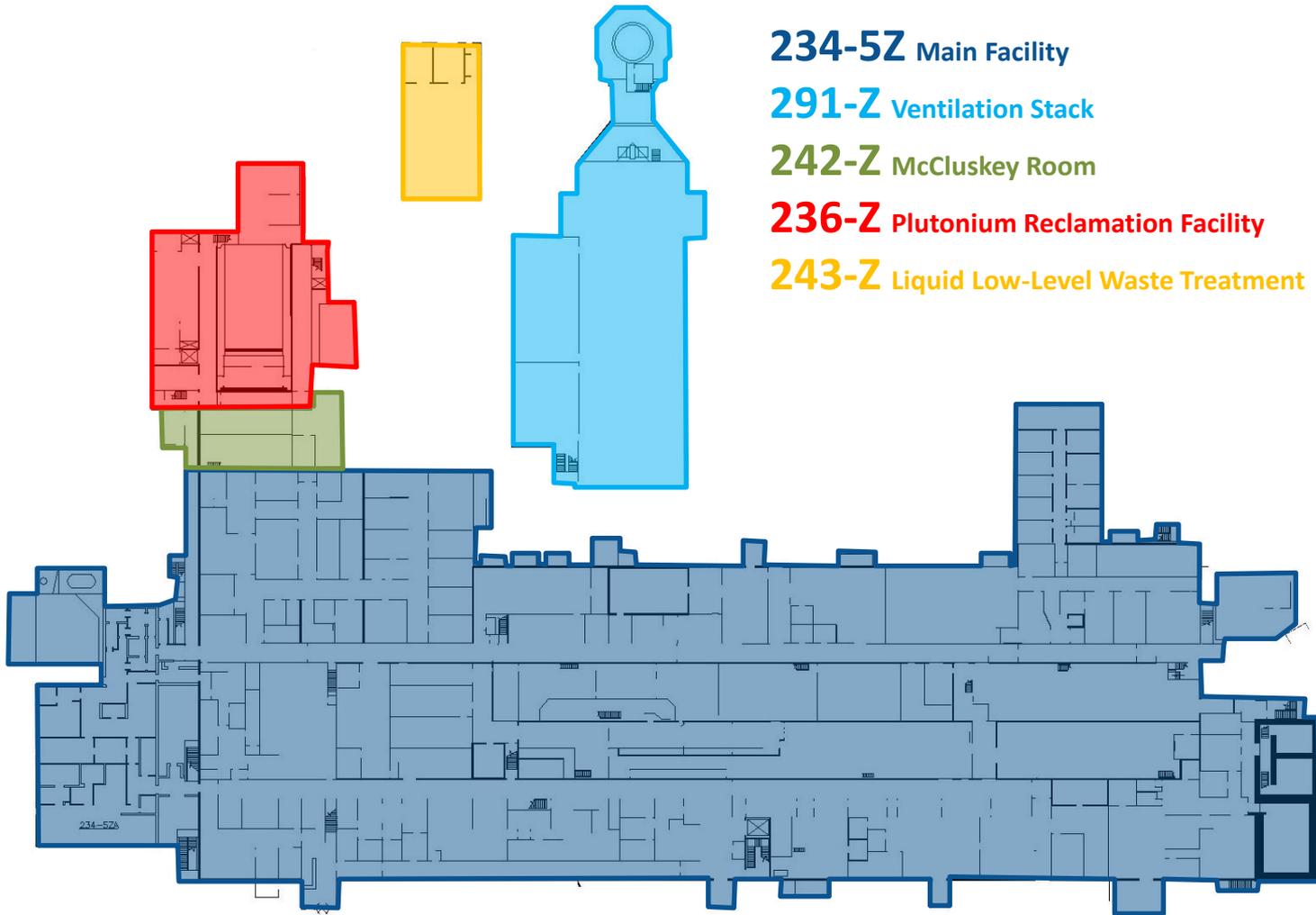
Plutonium Finishing Plant *December 2014*

Progress Update - March 2015



Plutonium Finishing Plant *Overview*

Progress Update - March 2015



Plutonium Finishing Plant (234-5Z) Processing Equipment 2008

Progress Update - March 2015



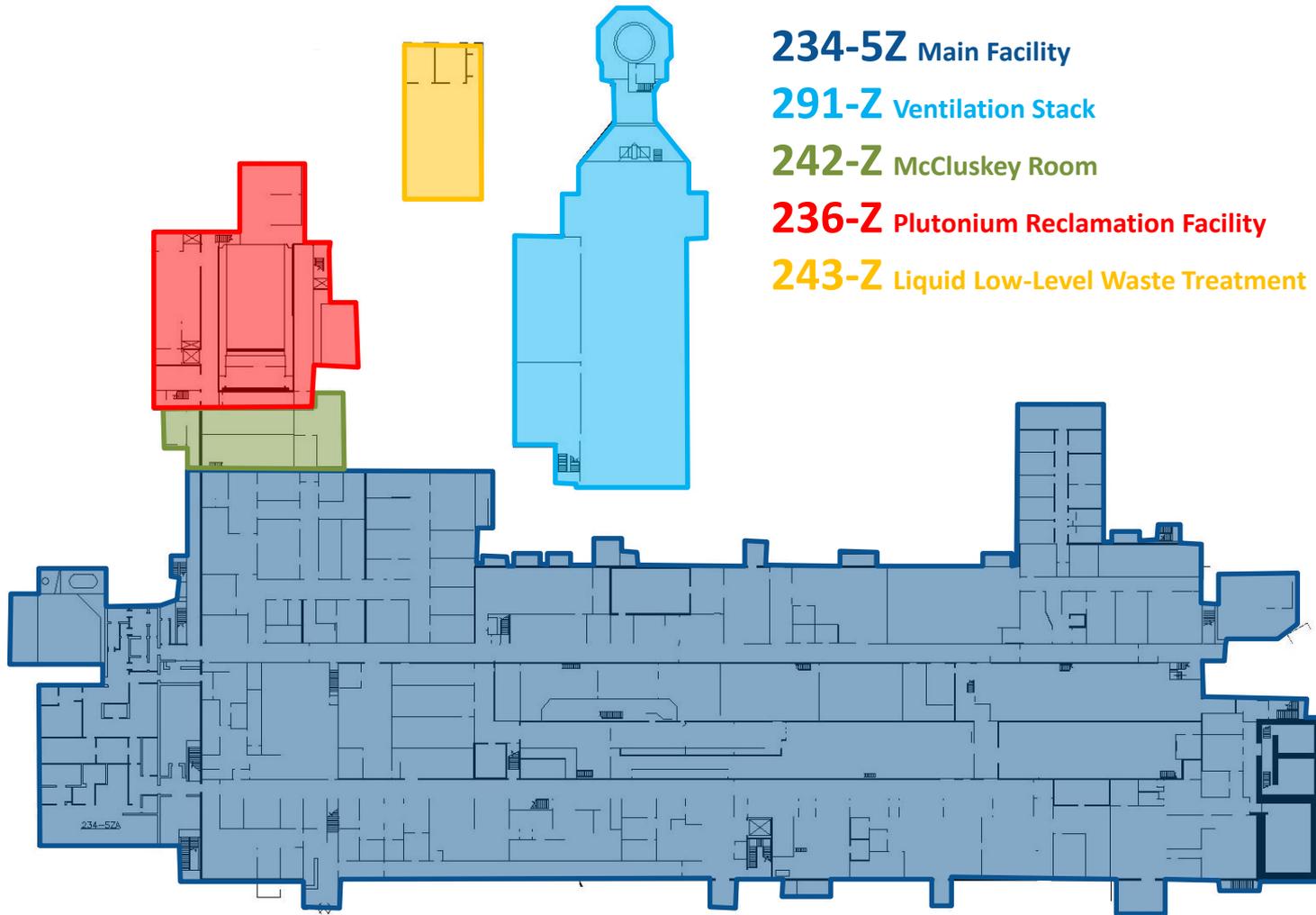
Plutonium Finishing Plant (234-5Z) Processing Equipment Feb. 2015

Progress Update - March 2015



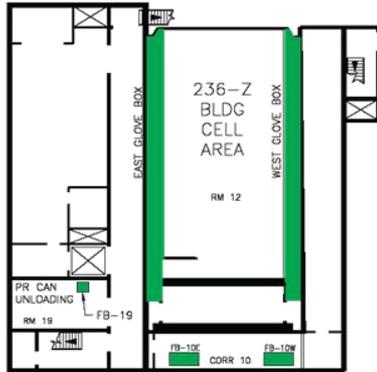
Plutonium Finishing Plant *Overview*

Progress Update - March 2015

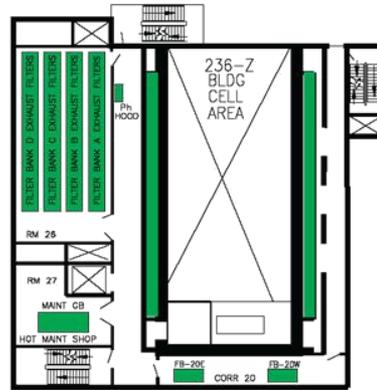


Plutonium Finishing Plant (236-Z) Status in 2008

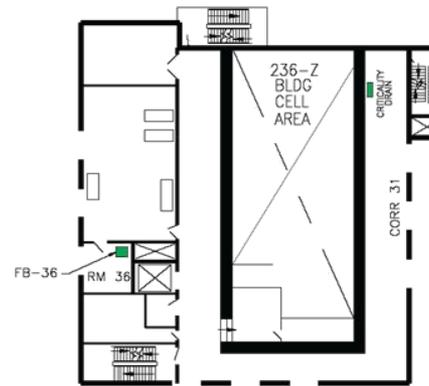
Progress Update - March 2015



236-Z BLDG
FIRST FLOOR

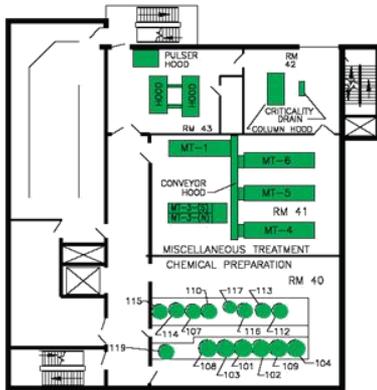


236-Z BLDG
SECOND FLOOR

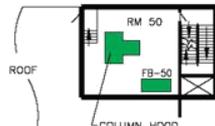


236-Z BLDG
THIRD FLOOR

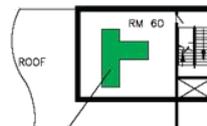
To Be Removed
(glove boxes, filter boxes, tanks,
pencil tank sections)



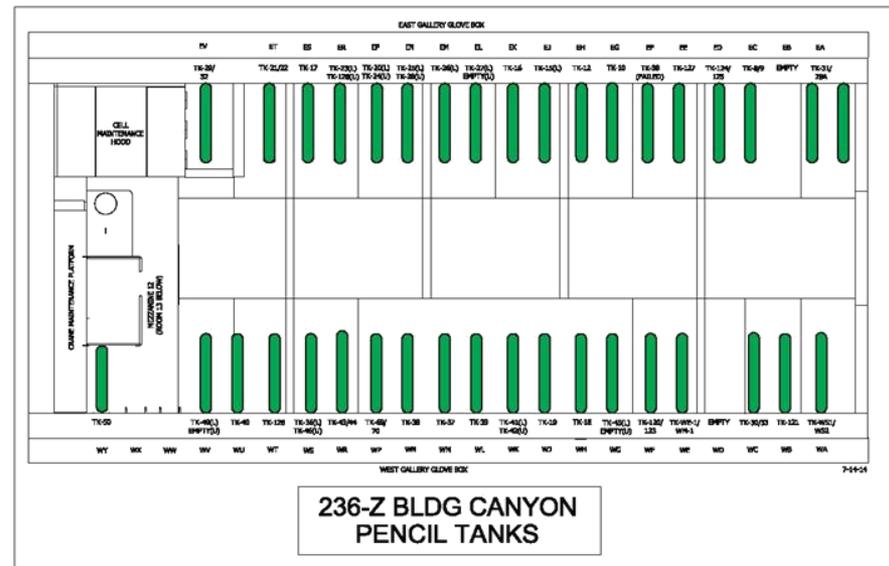
236-Z BLDG
FOURTH FLOOR



236-Z BLDG
FIFTH FLOOR



236-Z BLDG
SIXTH FLOOR

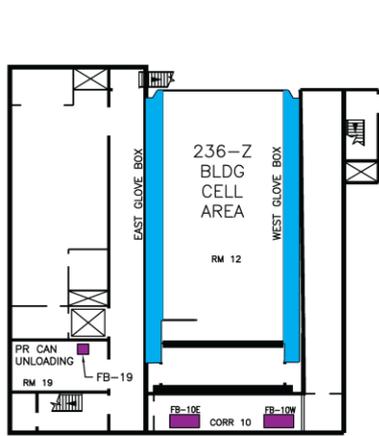


236-Z BLDG CANYON
PENCIL TANKS

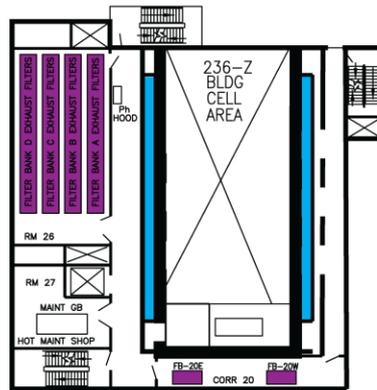
Plutonium Finishing Plant (236-Z)

Status Feb. 2015

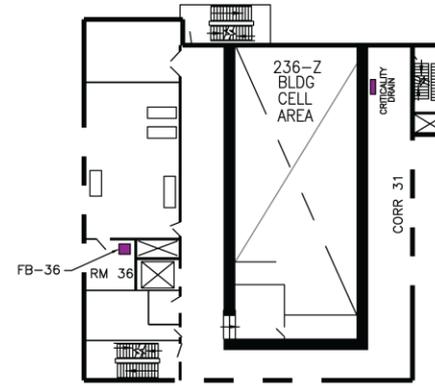
Progress Update - March 2015



236-Z BLDG
FIRST FLOOR

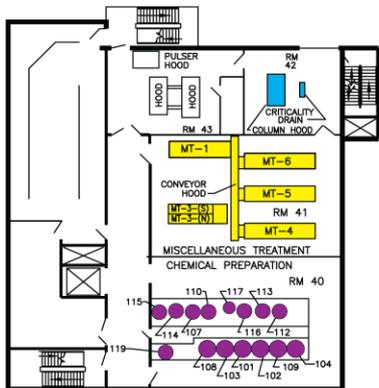


236-Z BLDG
SECOND FLOOR

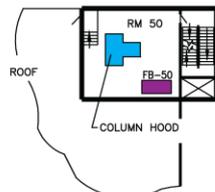


236-Z BLDG
THIRD FLOOR

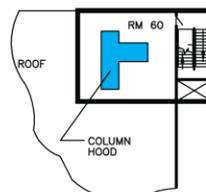
- In Progress
(Glove boxes, hoods, and pencil tank sections)
- Near Term Work
(Filter box and chemical tank removal)
- Ready to Ship
(Off E4 ventilation)



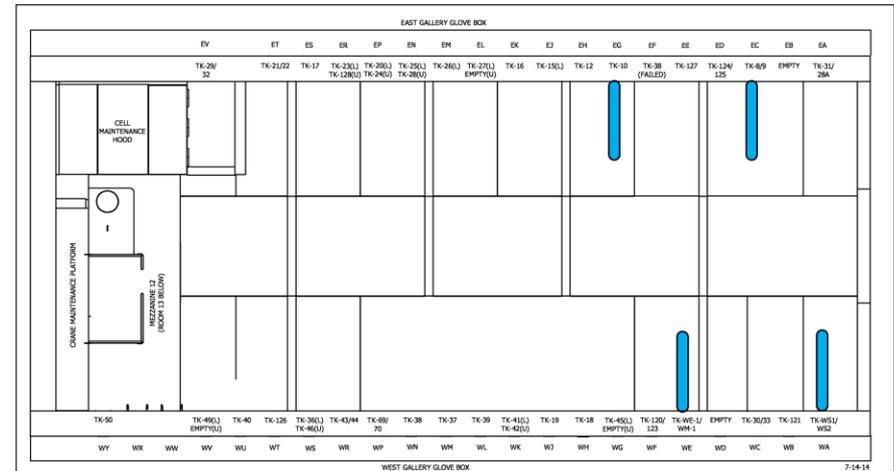
236-Z BLDG
FOURTH FLOOR



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 - March 2015



Employee removing glove box in Americium Recovery Facility



Employees separate, bag and remove sections of contaminated ventilation duct



Employee prepares to remove the last glove box in the main part of PFP from ventilation

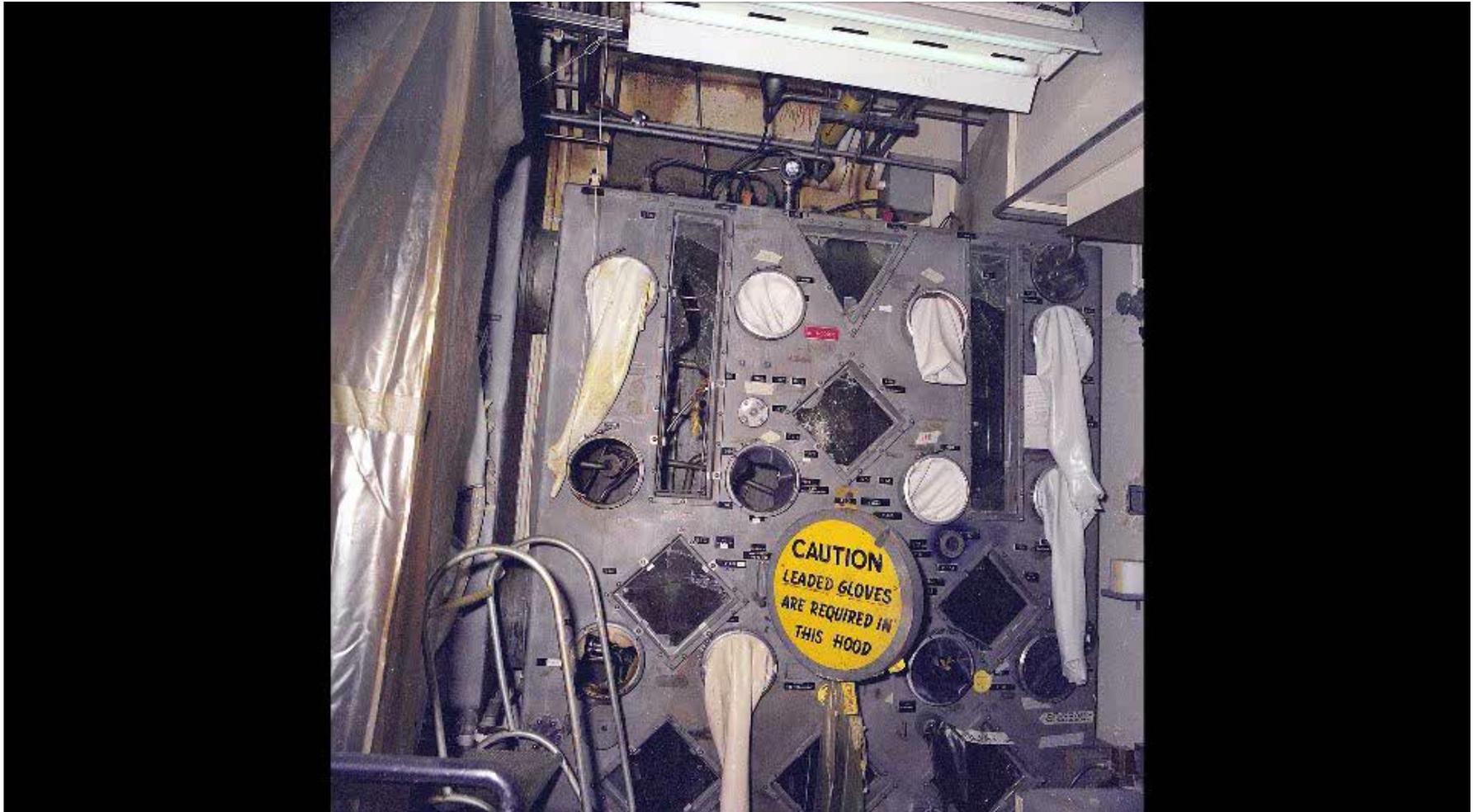


Crane operator moving pencil tanks sections for size reduction

- Began removing sections of contaminated ventilation ducts and filters
- Met FY2015 Key Performance Goal for dispositioning 31 pencil tank sections
- Began preparations for in-situ glove box size reduction
- Removed one glove box and removing second glove box in Americium Recovery Facility

Plutonium Finishing Plant Closure Project Progress

Progress Update - March 2015



This video shows crews inside 242-Z removing the glove box in which a 1976 explosion occurred, severely injuring Harold McCluskey.

Plutonium Finishing Plant Closure Project

Look Ahead – Path to Slab on Grade

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Overall Project:

- Work safely
- Retain talented workforce

242-Z (Americium Recovery Facility):

- Complete nondestructive assay in tank room
- Remove remaining two glove boxes
- Complete tank room

236-Z (Plutonium Reclamation Facility):

- Finish pencil tank section removal
- Grout canyon floor
- Finish gallery and column 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 a glove box that was separated in January 2015 for easier removal