



U.S. DEPARTMENT OF
ENERGY

OFFICE OF
**ENVIRONMENTAL
MANAGEMENT**

Eliminating High Risk Work at Hanford

John Ciucci

President and CEO

CH2M HILL Plateau Remediation Company

September 29, 2015

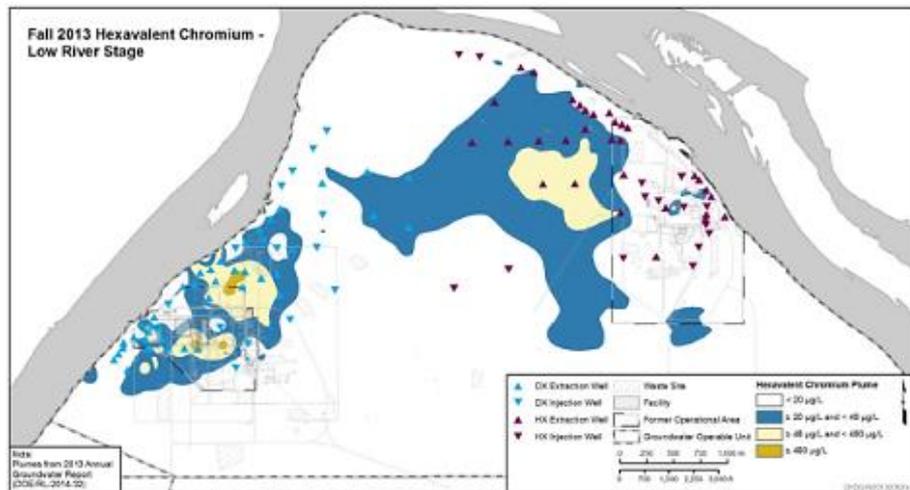
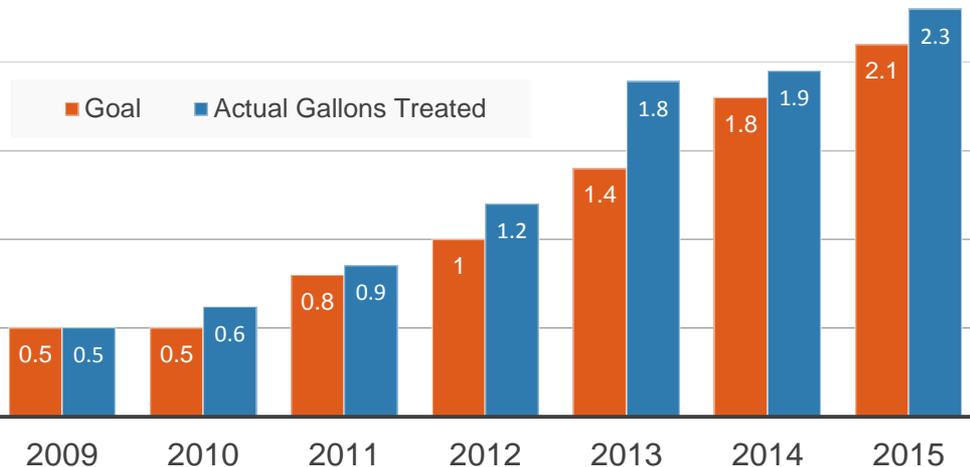
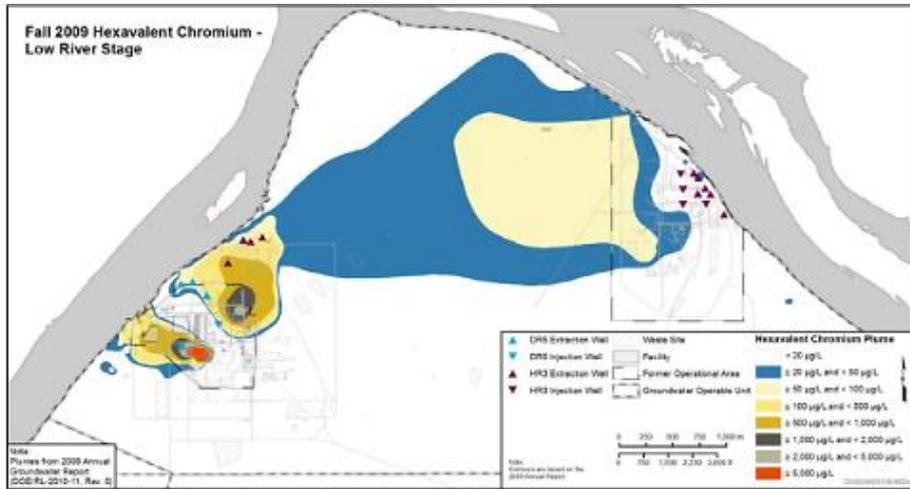


Sludge Treatment Project

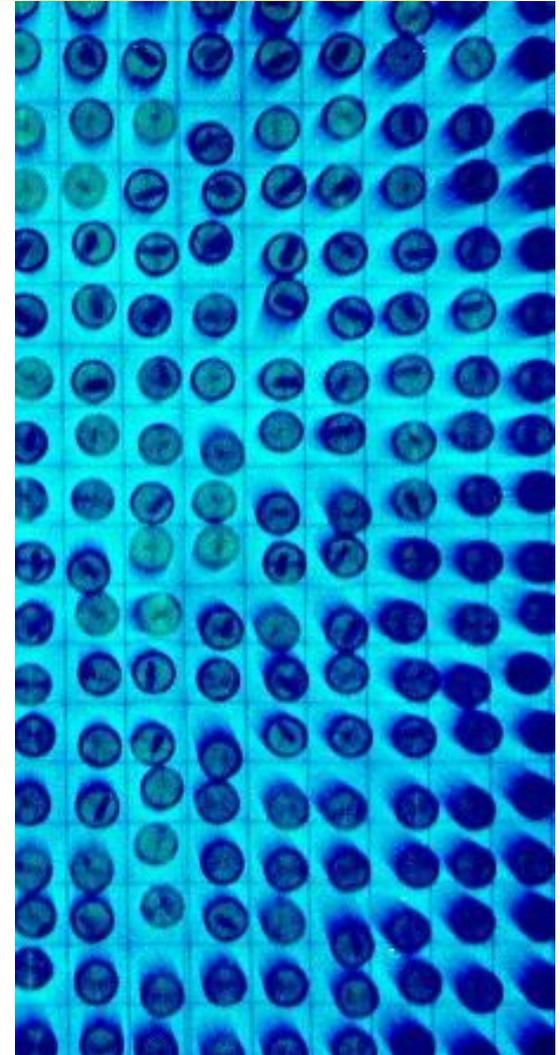


Site-Wide Groundwater Treatment

Accelerating Cleanup by Consistently Beating Groundwater Goals



Managing Cesium/Strontium Capsules



Waste Management



Demolition of PFP



PFP: Monumental Challenge



7,100 feet of Process Vacuum Piping



38 Filter Boxes



24,000 feet of Asbestos



238 Glove Boxes



196 Pencil Tank Units



PFP: Significant Progress Made



**48%
Complete**

7,100 feet of Process Vacuum Piping



38 Filter Boxes



24,000 feet of Asbestos



238 Glove Boxes



196 Pencil Tank Units

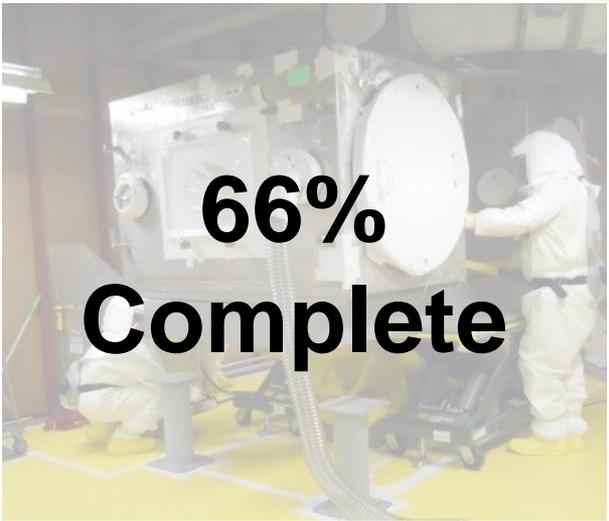


PFP: Significant Progress Made



**48%
Complete**

7,100 feet of Process Vacuum Piping



**66%
Complete**

38 Filter Boxes



24,000 feet of Asbestos



238 Glove Boxes



196 Pencil Tank Units

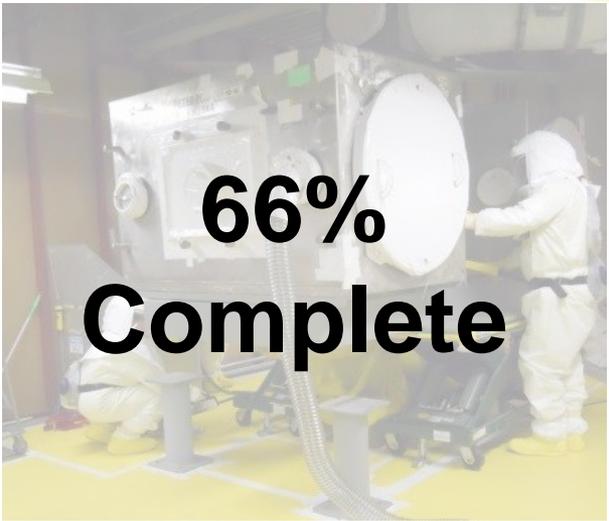


PFP: Significant Progress Made



**48%
Complete**

7,100 feet of Process Vacuum Piping



**66%
Complete**

38 Filter Boxes



**92%
Complete**

24,000 feet of Asbestos



238 Glove Boxes



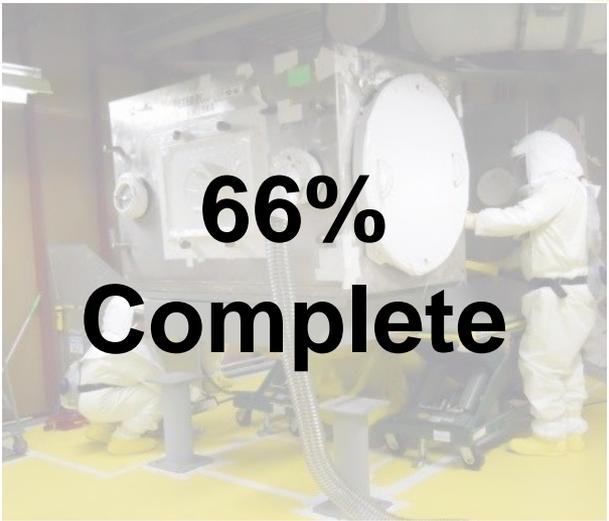
196 Pencil Tank Units

PFP: Significant Progress Made



**48%
Complete**

7,100 feet of Process Vacuum Piping



**66%
Complete**

38 Filter Boxes



**92%
Complete**

24,000 feet of Asbestos



4 Remaining

238 Glove Boxes



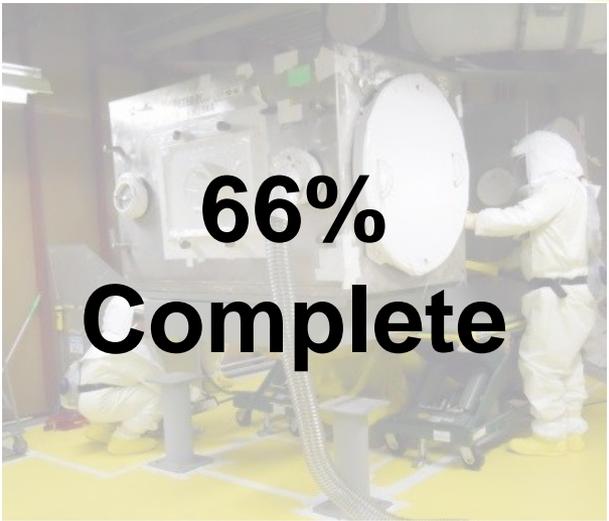
196 Pencil Tank Units

PFP: Significant Progress Made



**48%
Complete**

7,100 feet of Process Vacuum Piping



**66%
Complete**

38 Filter Boxes



**92%
Complete**

24,000 feet of Asbestos



4 Remaining

238 Glove Boxes



Complete

196 Pencil Tank Units

PFP: Path to Demolition



(April) Last pencil tank removed



(April) McCluskey glove box removed



(July) PRF canyon entries began



(November) In-situ glove box size reduction complete



(November) DSA for demolition implemented

2015



(June) In-situ glove box size reduction starts

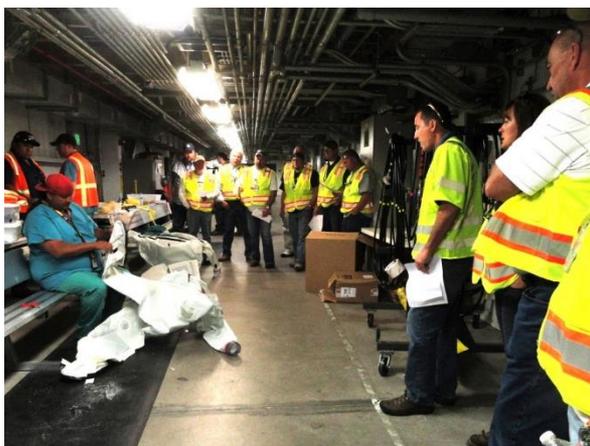
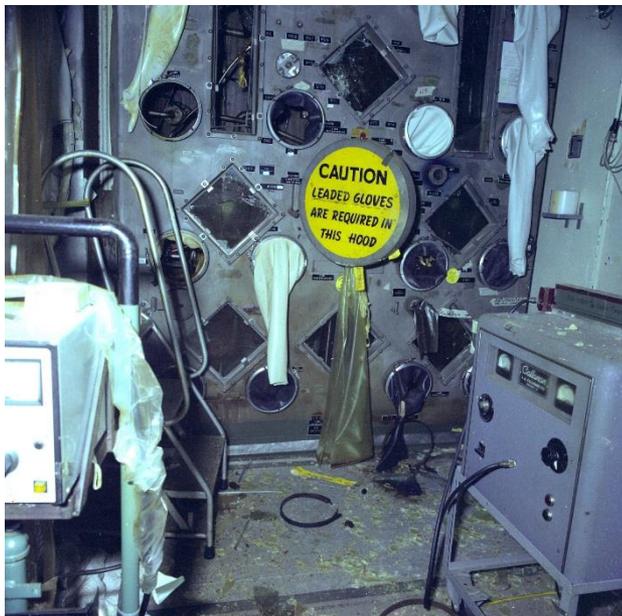


(June) External demolition review panel



(August) All 242-Z glove boxes removed

April: McCluskey Glove Box Removed



RISK:
Deploying new PPE in
hazardous
environment

MITIGATION:
Employee-driven
research and training

April: McCluskey Glove Box Removed



PFP: Path to Demolition



(April) Last pencil tank removed



(April) McCluskey glove box removed



(July) PRF canyon entries began



(November) In-situ glove box size reduction complete



(November) DSA for demolition implemented

2015



(June) In-situ glove box size reduction starts



(June) External demolition review panel



(August) All 242-Z glove boxes removed

April: Last Pencil Tank Removed



BEFORE:

52 pencil tanks/196 pencil tank units



AFTER:

All pencil tanks gone; debris on canyon floor to be removed



PFP: Path to Demolition



(April) Last pencil tank removed



(April) McCluskey glove box removed



(July) PRF canyon entries began



(November) In-situ glove box size reduction complete



(November) DSA for demolition implemented

2015



(June) In-situ glove box size reduction starts



(June) External demolition review panel



(August) All 242-Z glove boxes removed

June: In-Situ Glove Box Size Reduction Starts



RISK:

Cross contamination during doffing
24,000,000 DPM/cm² – 333,000 DAC



MITIGATION:

Improved airflow and wipe downs, additional fixative
and PPE, extra padding on obstacles and PPE

June: In-Situ Glove Box Size Reduction Starts



PFP: Path to Demolition



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(April) McCluskey glove box removed



(July) PRF canyon entries began



(November) In-situ glove box size reduction complete



(November) DSA for demolition implemented

2015



(June) In-situ glove box size reduction starts



(June) External demolition review panel



(August) All 242-Z glove boxes removed

June: External Demolition Review Panel



Non-CHPRC Participants:

Jennifer Meszaros, DNFSB
Farid Bamdad, DNFSB
David Cleaves, DNFSB
Pat Fox, DNFSB
Tom Teynor, DOE-RL
Margo Voogd, DOE-RL
John Silko, DOE-RL
Don Rack, DOE (EM-42)
Hoss Brown, ICP
Ray Geimer, West Valley
Dave Lowe, CH2M Corporate
John Fulton, CH2M Corporate
Kurt Kehler, CH2M Corporate

PFP: Path to Demolition



(April) Last pencil tank removed



(April) McCluskey glove box removed



(July) PRF canyon entries began



(November) In-situ glove box size reduction complete



(November) DSA for demolition implemented

2015



(June) In-situ glove box size reduction starts



(June) External demolition review panel



(August) All 242-Z glove boxes removed

July: PRF Canyon Entries Began



RISK:

Supplied air
90,000,000 DPM/cm² – 33,000 DAC

MITIGATION:

- Increased ventilation
- Improved radiological work controls
- Increased fixative use

PFP: Path to Demolition



(April) Last pencil tank removed



(April) McCluskey glove box removed



(July) PRF canyon entries began



(November) In-situ glove box size reduction complete



(November) DSA for demolition implemented

2015



(June) In-situ glove box size reduction starts



(June) External demolition review panel



(August) All 242-Z glove boxes removed

August: All 242-Z Glove Boxes Removed



PFP: Path to Demolition



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(April) McCluskey glove box removed



(July) PRF canyon entries began



(November) In-situ glove box size reduction complete



(November) DSA for demolition implemented

2015



(June) In-situ glove box size reduction starts



(June) External demolition review panel



(August) All 242-Z glove boxes removed

PFP: Path to Demolition



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(November) In-situ glove box size reduction complete



(November) DSA for demolition implemented

2015



(June) In-situ glove box size reduction starts



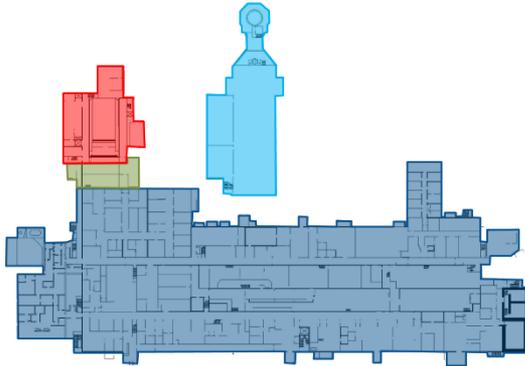
(June) External demolition review panel



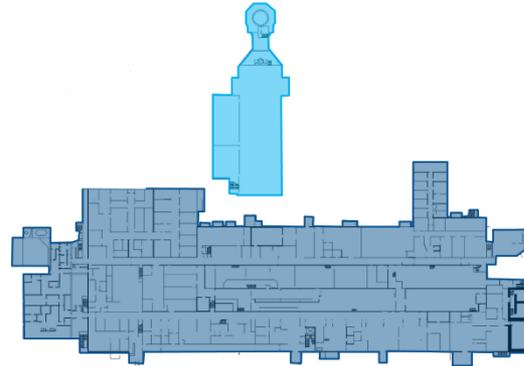
(August) All 242-Z glove boxes removed

PFP: Path to Demolition

(March) 236-Z
demolition starts

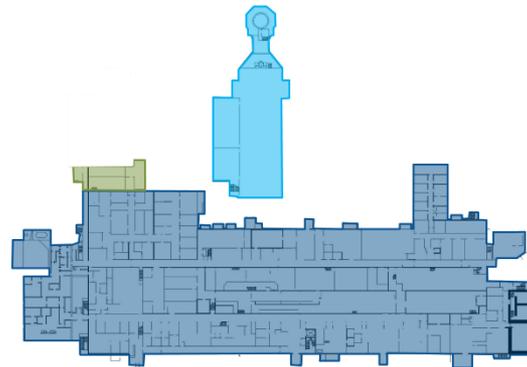


(June) 234-5Z
demolition starts



2016

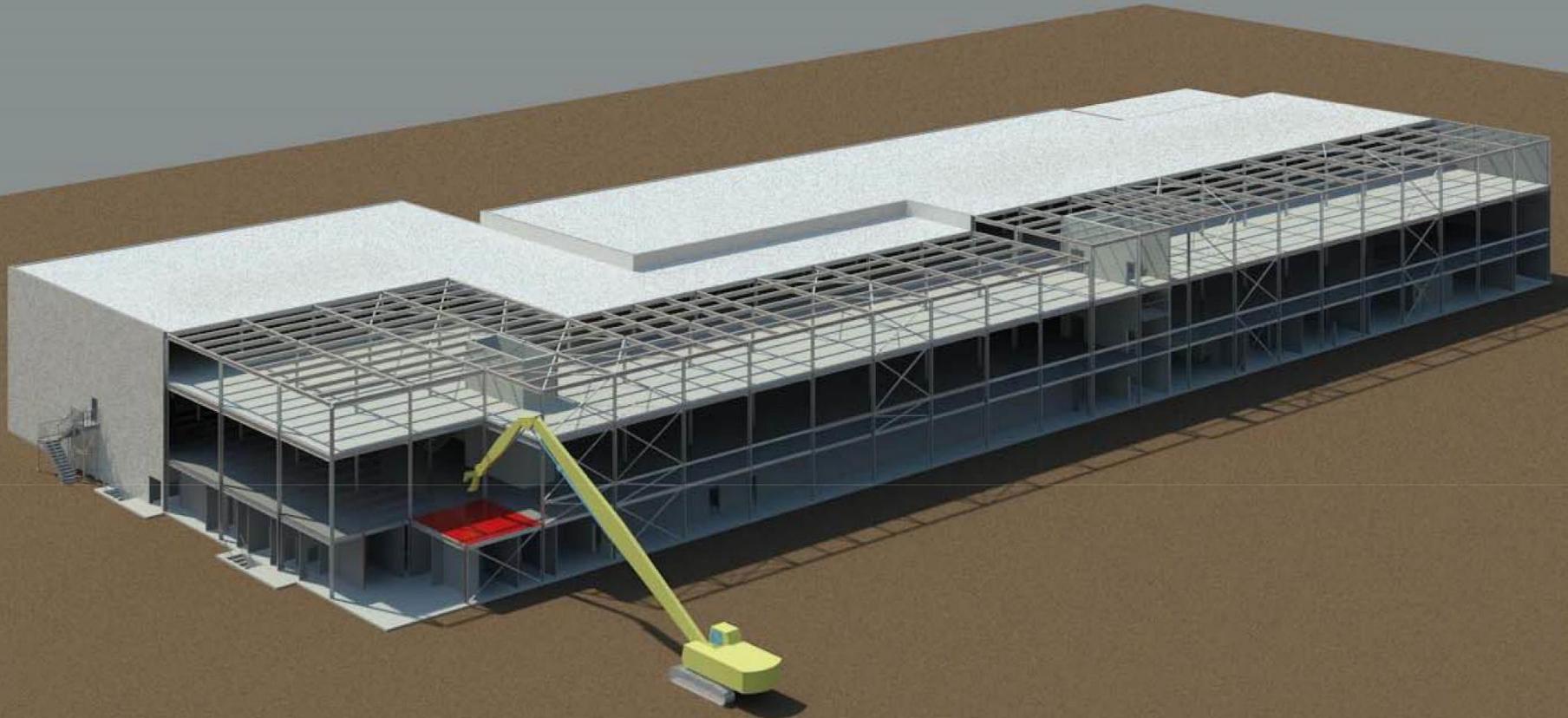
(April) 242-Z demolition
starts



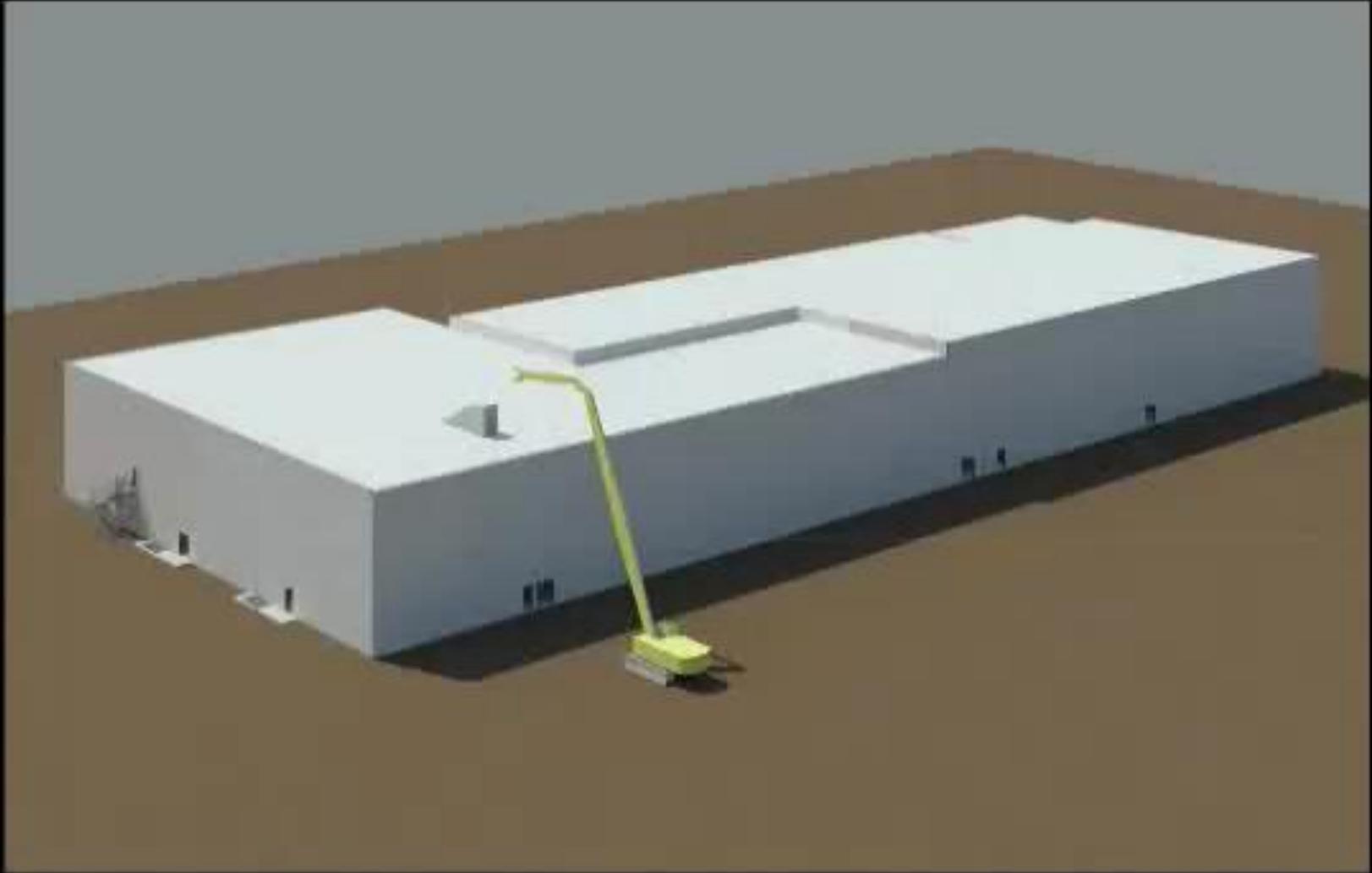
(July) 291-Z demolition
starts



PFP: Path to Demolition



PFP: Path to Demolition



PFP: Removing a Significant Risk



PFP: Removing a Significant Risk



PFP: Removing a Significant Risk

