



Portsmouth EM Site Specific
Advisory Board

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Terri Ann Smith

**DOE Deputy Designated
Federal Officer**

Joel Bradburne

DOE Federal Coordinator

Greg Simonton

**Decontamination & Decommissioning Subcommittee
January 12, 2010 • 4:30 p.m.
Agenda**

- Code of Conduct
- Review November Summary
- Mission Statement
- Updates
- Public Comment Period
- Action Items

Adjourn



Support Services

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Decontamination and Decommissioning (D&D) Subcommittee

Meeting Summary

January 12, 2010 • 4:30 p.m.

The Ohio State University Endeavor Center
1862 Shyville Road, Piketon, OH 45661

Subcommittee Members Present: Gene Brushhart, Ed Charle, Lindy Coleman, Bobby Graff, Dan Minter, Daniel Moore, and Larry Parker

Board Member Present: Shirley Bandy, Val Francis, Sharon Manson, Michael Payton, Cristy Renner, and Dick Snyder

Board Members Absent: Terri Ann Smith

U.S. Department of Energy (DOE) Representatives: Greg Simonton and Joel Bradburne

DOE Employees and Contractors: Melda Rafferty and Kristi Wiehle, DOE; Sandy Childers, Bill Franz, and Jeff Pinkerton, LATA/Parallax (LPP); Janie Crowwait, Restoration Services, Inc. (RSI)

Liaisons: Michael Rubadue, Ohio Dept of Health; Maria Galanti and Melody Stewart, Ohio Environmental Protection Agency (Ohio EPA)

Support Staff: Julie Galloway, Brandy Moore, and Eric Roberts, EHI

Public: Steve Carter, Scioto County Economic Development Director; Vina Colley, Portsmouth/Piketon Residents for Environmental and Safety (P.R.E.S.S); and Geoffrey Sea, Southern Ohio Neighbors Group (SONG)

Larry Parker, Subcommittee Chair, opened the Decontamination and Decommissioning meeting.

1. Agenda

- **Parker** reviewed the Agenda
 - **Agenda approved**

2. Code of Conduct

- **Brushhart** motioned to accept the Code of Conduct: Meeting Ground Rules, **Motion seconded.**
 - **Motion carried**

3. Review of November Summary

- **Graff** motioned to accept the Summary, **Motion seconded.**
 - **Motion carried**

4. Mission Statement

- **Moore** motioned to accept the Mission Statement, **Motion seconded.**
 - **Motion carried**

5. Status Report D&D Programs at the Portsmouth Gaseous Diffusion Plant

Bradburne, presentation.

The update included the following information:

- 2009 Site Conditions
- D&D/Remediation Project Scope
- Projected Completion Schedule
- D&D Contractor First Priority – Three Large Gaseous Diffusion Process Buildings
- Process Buildings Pre-D&D Preparation Activities
- Future Vision
- Portsmouth Site Overview
- Portsmouth Decontamination and Decommissioning (D&D) Procurement
- The D&D Contract Includes
- Estimated D&D Waste Quantities
- Portsmouth D&D Summary

A copy of this handout is available online at www.ports-ssab.org.

Question/Comment:	Answer:
Parker Is there a D&D status report like this from 2009 to show the difference?	Bradburne The most notable changes will be in the ARRA. The 2009 Site Conditions map would not show a lot of change. We will work on a plan to better share this information.
Charle The Board has not been informed about specific goals and milestones. Could this be a future presentation?	Galanti Yes, when DOE's milestones are established they will be public. DOE creates a baseline target, they are in remediation stage now, and there is no real schedule in place. In terms of the ARRA projects, DOE has to be finished by September 2011. The D&D milestone has to be met so the Ohio EPA will work with DOE to accomplish this schedule. Bradburne DOE is looking into accelerating many projects.
Snyder Are you required by DOE to use Project Management to track the projected completion schedule?	Bradburne Yes, this helps keep the projects on track. In addition, when a contractor comes on board we can communicate our current status, review the completed projects and focus our efforts on the remaining projects.
Snyder Are we meeting the regulatory milestones? How does the Consent Decree compare and is this made public?	Galanti There is a table of milestones with the Consent Decree. The Consent Decree involves surface and below. After the structure comes down that is when the Consent Decree starts. Both DOE and Ohio EPA will come to agreement and finalize the document before it is available to the public.

6. Public Comment Period

- **Geoffrey Sea** stated he attended a meeting last week with DOE and found it extremely constructive. A few highlights from the meeting: First, it was stated that DOE is in the dark about where the Nuclear Reactor would be located. DOE sent letters to USEC asking where the Nuclear Reactor would go, and as of today, there is still no answer. Second, USEC/DOE lease contains no clause that would allow for any termination. Third, no decision has been made about the demolition of the process buildings. Stated he is confused on if there is a decision based on what was said during the Thursday meeting and the status report presentation. Could DOE clear this up?
- **Bradburne** stated that decisions on demolition have not been made. For purposes of planning the D&D Project, assumptions had to be made to allow projects, budgets, and timelines to be developed. For the purposes of tonight's discussion, those assumptions were utilized to describe the D&D Project.
- **Steve Carter** stated that he has been involved with the plant site for about 36 years. Stated he hopes that alternative uses for the site are considered and that the D&D process provides good safe paying jobs.
- **Vina Colley** stated that citizens should be on a panel and that DOE should have to answer how they can continue to commit these fraudulent charges.

7. Action Items

1. Maria Galanti will email the X-633 Removal Action Work Plan to the EHI Staff.
2. DOE will contact the Mayor of Miamisburg to discuss a few dates for the Board to visit the Mound Facility.
3. DOE will do a presentation on Project Completion Schedule.
4. DOE will attempt to develop a matrix that better displays the progress.

Brushart motioned to adjourn meeting, **Motion seconded.**

- **Motion carried**

Meeting adjourned

Next Meeting Tuesday, February 9, 2010, at 4:30 p.m.



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Decontamination & Decommissioning Subcommittee 2010 Mission Statement

The mission of the Portsmouth Environmental Management (EM) Site Specific Advisory's Board's (SSAB) Decontamination and Decommissioning (D&D) Subcommittee is to evaluate and make recommendations on the U.S.

Department of Energy's (DOE) Environmental Management (EM) planning and implementation on treatment, technologies, and excavations related to soil and groundwater contamination; evaluate and make recommendations related to the treatment, storage, disposal, and transportation of wastes and materials generated from cleanup and remediation operations; and evaluate and make recommendations for decontamination and decommissioning of DOE EM projects.

The SSAB D&D Subcommittee will also consider health, safety, environmental justice, and concerns related to EM topics, and provide opportunity for public comments on related issues.



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Portsmouth Gaseous Diffusion Plant

January 12, 2010

Projects Update to the Site Specific Advisory Board D&D Subcommittee

X-633 Cooling Tower Complex Decontamination and Decommissioning

- Work activities have started to support demolition (fluid draining, equipment removals)
- Field trailer installations completed
- Staff hired and trained
- American Recovery and Reinvestment Act (ARRA) project completion expected in June 2010



In left photo, workers remove siding panels from Cooling Tower B. In right photo, with one pipe removed in the background, workers begin to remove a second pipe from the X-633 Cooling Tower.

X-746 Shipping and Receiving Building Removal

- Asphalt/Sub-base material removal is 60% complete; completion scheduled end of January 2010
- Backfill field work, re-seeding and demobilization completion by end of February 2010



Soil is spread over previous building slab area at X-746 Shipping and Receiving site, January 5, 2010





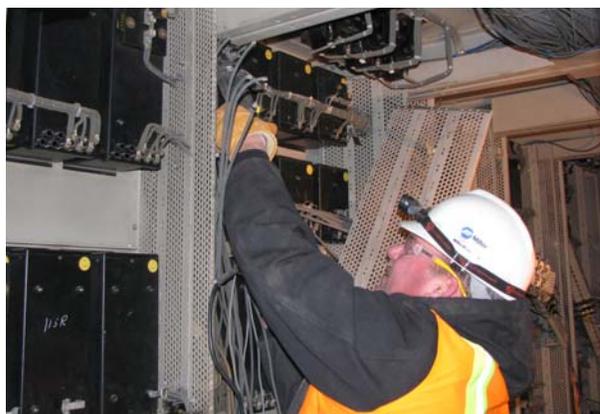
Portsmouth Gaseous Diffusion Plant

January 12, 2010

Projects Update to the Site Specific Advisory Board D&D Subcommittee

X-533 Switchyard Decontamination and Decommissioning

- Excess materials inventory complete
- Contract awarded for asbestos containing material removal
- Demolition equipment mobilized
- Employees trained and on-site



Equipment removal begins in X-533 Control Room on January 5, 2010

X-701B Groundwater Plume TCE Source Removal

- Completed excavation and weathered shale blending of Cell #1 on December 31, 2009
- Started excavation of Minford soils on December 31, 2009



Excavation of soils and oxidant treatment at X-701B groundwater plume area – December 2009





Portsmouth Gaseous Diffusion Plant

January 12, 2010

Projects Update to the Site Specific Advisory Board D&D Subcommittee

X-740 Groundwater Plume Investigation

- DOE and Ohio EPA agreed to suspend further oxidant injections as treatment was not providing additional sufficient reduction in TCE
- DOE Headquarters is forming an independent review team to evaluate the X-740 groundwater plume area and provide recommendations

7-Unit Groundwater Investigation

- Currently evaluating remedial options to address, as an interim action, TCE hot spot areas in plume

WASTE REMOVAL

DOE Material Storage Areas (DMSAs) 11 and 12 in X-326 Building

- Project scope to remove 324 large items of equipment
- Shipment of 182 items complete to date – disposed at Nevada Test Site
- Packaging of remaining items continues toward March 31, 2010 completion date



Workers prepare shipment of equipment from DMSAs in X-326 Building

Small Cylinder Phase II Removal Project

- Readiness Review completed and approval provided by DOE on December 2, 2009
- Initial phase: 404 cylinders for stabilization/disposal
- 100 cylinders processed as of January 5, 2010
- Completion of project expected end of March 2010





Portsmouth Gaseous Diffusion Plant

January 12, 2010

Projects Update to the Site Specific Advisory Board D&D Subcommittee

Calendar Year 2009 Waste Disposition – 3783.5 cubic meters

- Nevada Test Site: 269 containers of low-level waste (LLW) totaling 1128 cubic meters
- EnergySolutions, Cive, UT: 110 containers debris, LLW, mixed LLW, TSCA Mixed and LLW totaling 2617 cubic meters
- Perma-Fix of Florida: 79 containers of universal waste, TSCA waste, RCRA and mixed low-level waste totaling 24 cubic meters
- Diversified Scientific Services: 10 containers of mixed low-level and TSCA mixed low-level waste, totaling 11 cubic meters
- Materials and Energy Corporation (M&EC): one container of DUF4 low-level waste totaling 3.5 cubic meters

A truck is loaded as part of the DOE Material Storage Area (DMSA) removal project in late 2009



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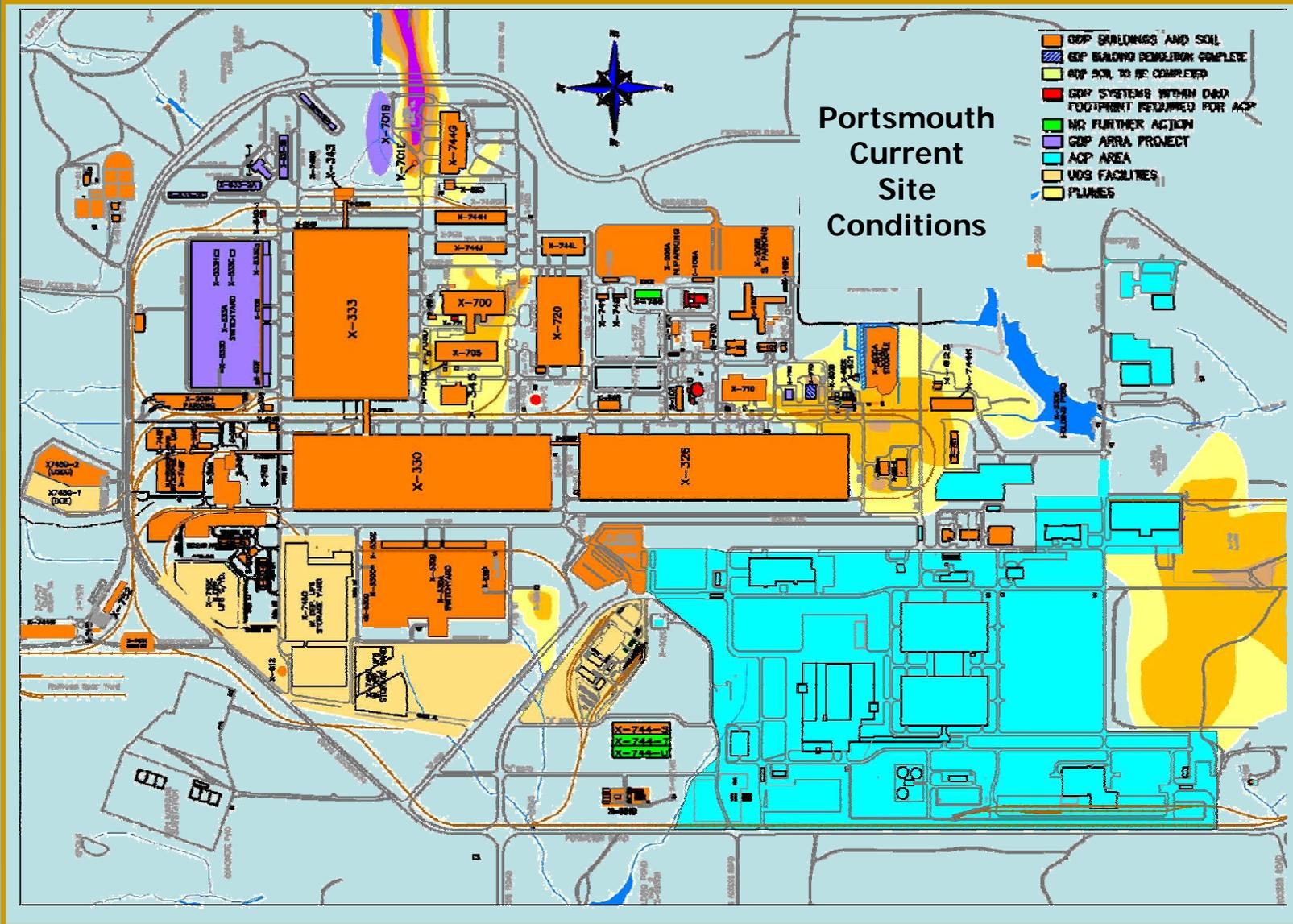


*SITE SPECIFIC ADVISORY BOARD (SSAB)
D&D Committee
Endeavor Center, Piketon, Ohio
January 12, 2010*

Status Report
D&D Programs at the
Portsmouth Gaseous Diffusion Plant
Joel Bradburne
Deputy Designated Federal Official

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2009 Site Conditions



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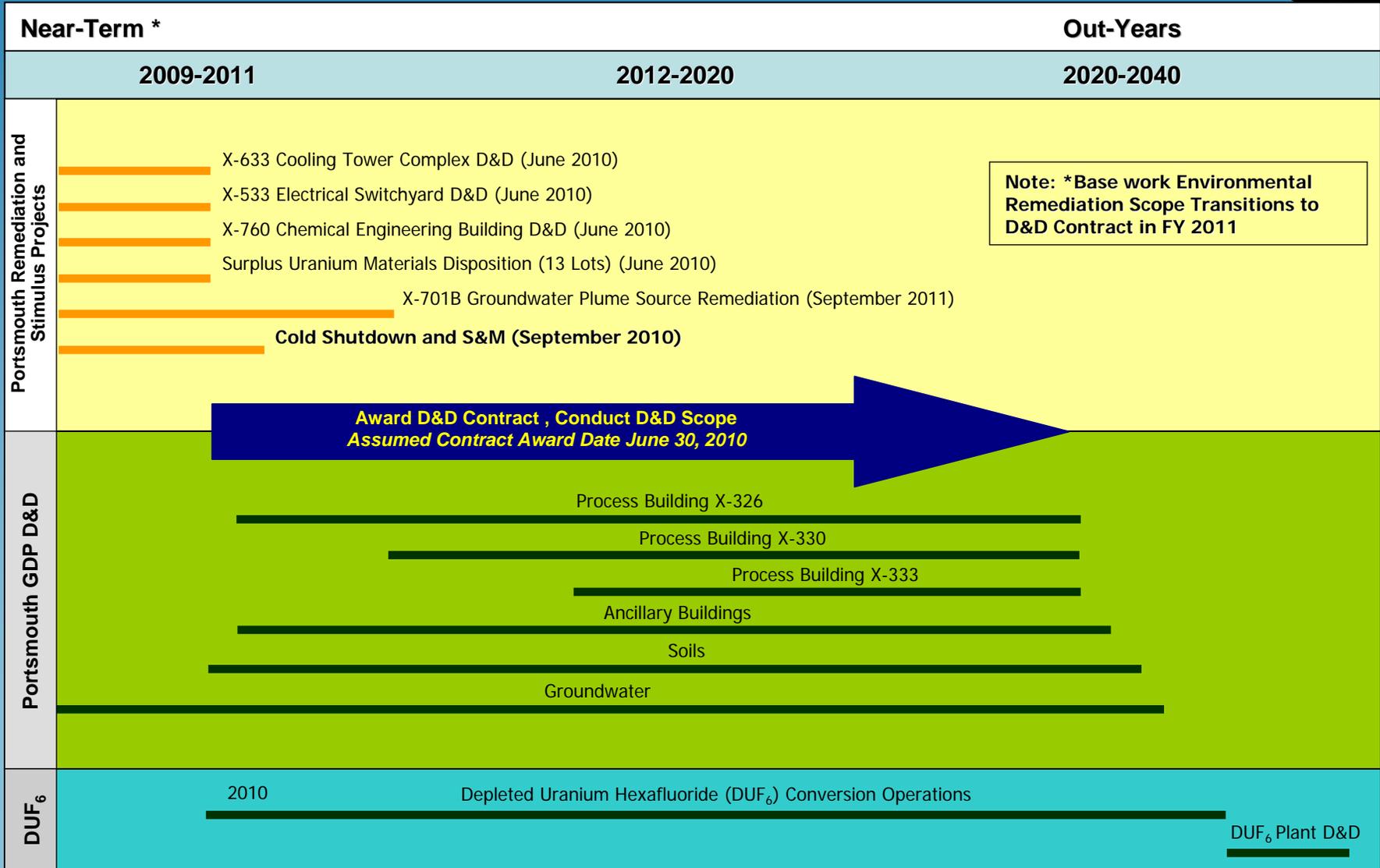


D&D/Remediation Project Scope

- D&D of Portsmouth GDP includes the following assumptions:
 - Removal of facility contents and equipment
 - Demolition of the facility
- D&D of a building or group of buildings will be followed by characterization of the soils and groundwater beneath the building or group of buildings, and then remediation of contaminated soils and groundwater to meet the agreed upon regulatory requirements for the cleanup.
- The wastes from these activities will be disposed or recycled in accordance with an agreed upon regulatory approach.
- Some facilities may be evaluated for re-use opportunities.

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Projected Completion Schedule

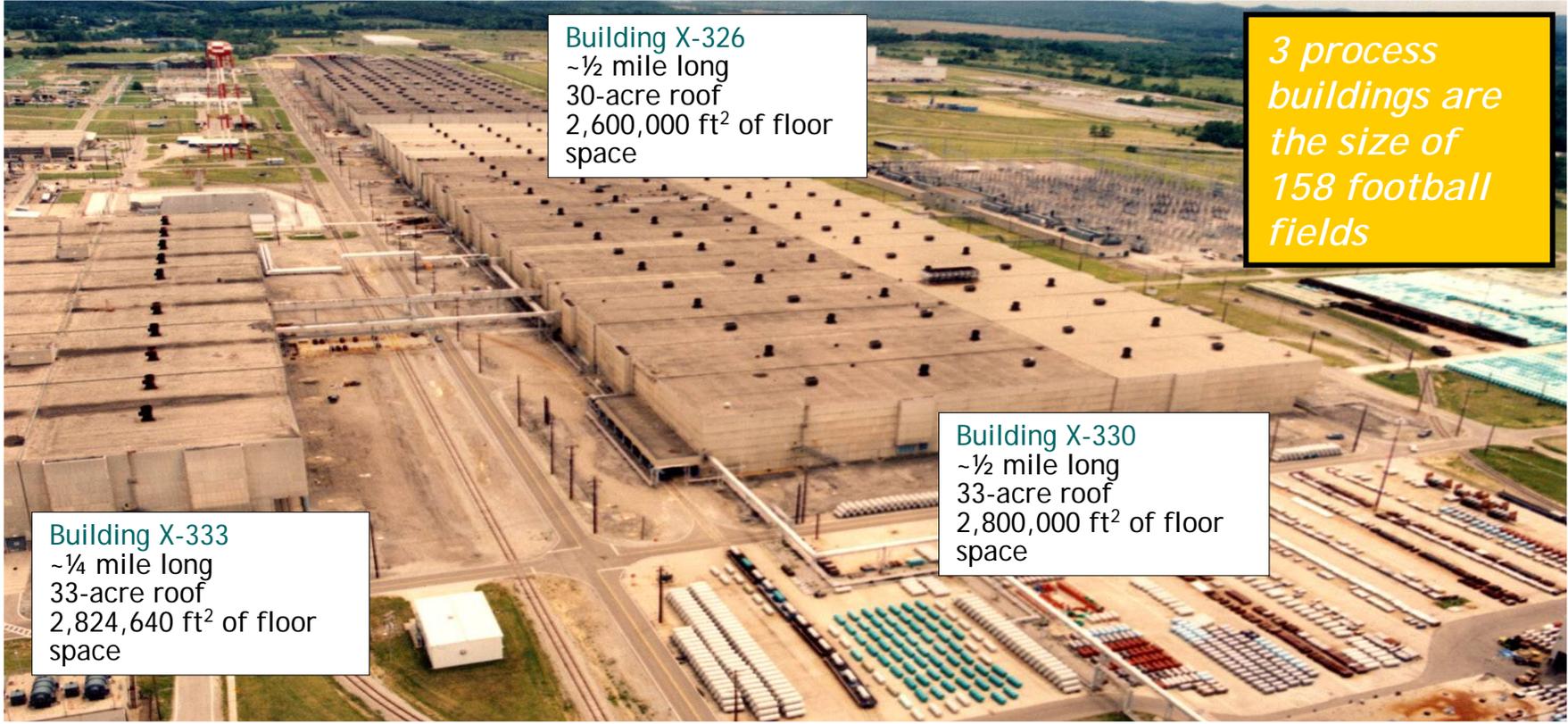


Note: *Base work Environmental Remediation Scope Transitions to D&D Contract in FY 2011

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D&D Contractor First Priority - Three Large Gaseous Diffusion Process Buildings



Building X-326
~½ mile long
30-acre roof
2,600,000 ft² of floor space

3 process buildings are the size of 158 football fields

Building X-333
~¼ mile long
33-acre roof
2,824,640 ft² of floor space

Building X-330
~½ mile long
33-acre roof
2,800,000 ft² of floor space

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Process Buildings Pre-D&D Preparation Activities

- Continue current Surveillance & Maintenance Program.
- Remove residual process-related nuclear material from cascade system components.
- Place all process equipment, utilities & systems in safe configuration.
- Remove process equipment, components, chemicals & hazardous materials inventories.
- Evaluate all items & components for reuse, recycle or disposal.



Future Vision

- Transfer leased facilities from USEC to DOE.
- Work with State (Ohio) regulators to finalize new Regulatory Agreement.
- Continue working with public, SSAB, and regulators to develop necessary cleanup decisions.
- Implement process to exchange excess uranium for services.
- Evaluate D&D proposals and award contract.
- Develop a D&D/Cleanup Project Management Baseline for the accelerated plan.
- Proceed safely with the D&D work on the site.
- Coordinate D&D work with reindustrialization efforts.

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BACKUP SLIDES

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Portsmouth Site Overview

- Current 2010 site employment: 2100 workers
- The plant is on a 3,777 acre federal reservation – about 1,200 acres are within the 7-mile long perimeter road that encircles the facilities



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Portsmouth Decontamination and Decommissioning (D&D) Procurement

- DOE issued a RFP for the D&D Project on June 24, 2009.
- Proposals were submitted by bidders November 13, 2009.
- Bidders' Proposal responses are presently being evaluated.
- The anticipated D&D Contract award date is June 2010.

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The D&D Contract Includes:

- Facility Surveillance and Maintenance
- Facility Decontamination and Decommissioning (D&D)
- Environmental Remediation (contaminated soils and groundwater)
- Waste Management
- Nuclear Material Storage, Disposition, and Accountability
- Project Management, Safety, Regulatory Planning, External Interactions, and Stakeholder Involvement

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Estimated D&D Waste Quantities

Preliminary D&D Waste Sources	Estimated Waste Quantity	Size Comparisons
D&D Waste	1,700,000 m ³	54,000 railroad cars making a 500-mile long train stretching from Portsmouth to Washington, DC
Remedial Action Waste	450,000 m ³ of soil	13,000 railroad cars making a 123-mile long train
Total Number of Buildings / (Sq. Ft.)	134 / 10,600,000 ft ²	Twice the space of the Pentagon
Electrical Wiring	4,600 miles	Would stretch from Portsmouth to the Pacific Ocean and back
Process Piping	600 miles	Would stretch from Portsmouth to the Atlantic Ocean



Portsmouth D&D Summary

- The D&D contract period of performance is for a 5-year base with a 5-year option.
- The RFP includes a funding profile assumption with a range of \$250 M to \$325 M per year.
- The project is expected to employ between 1,000 and 1,500 workers.
- The original project was approved with a conceptual cost range of \$5 B to \$12 B and a completion schedule of 2044.
- The accelerated approach to D&D will save several billion dollars and will reduce the schedule by many years.