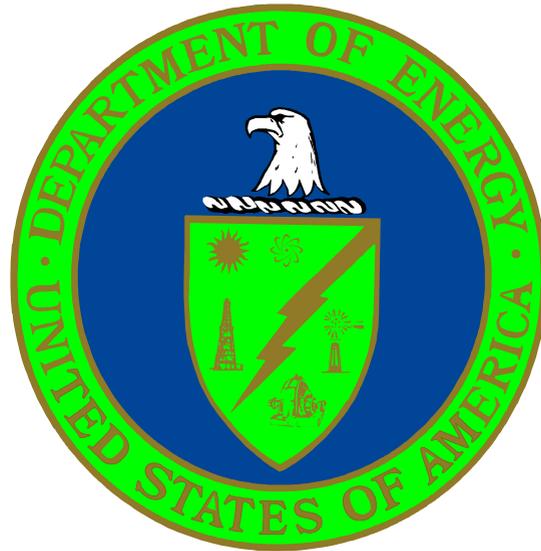

Overview

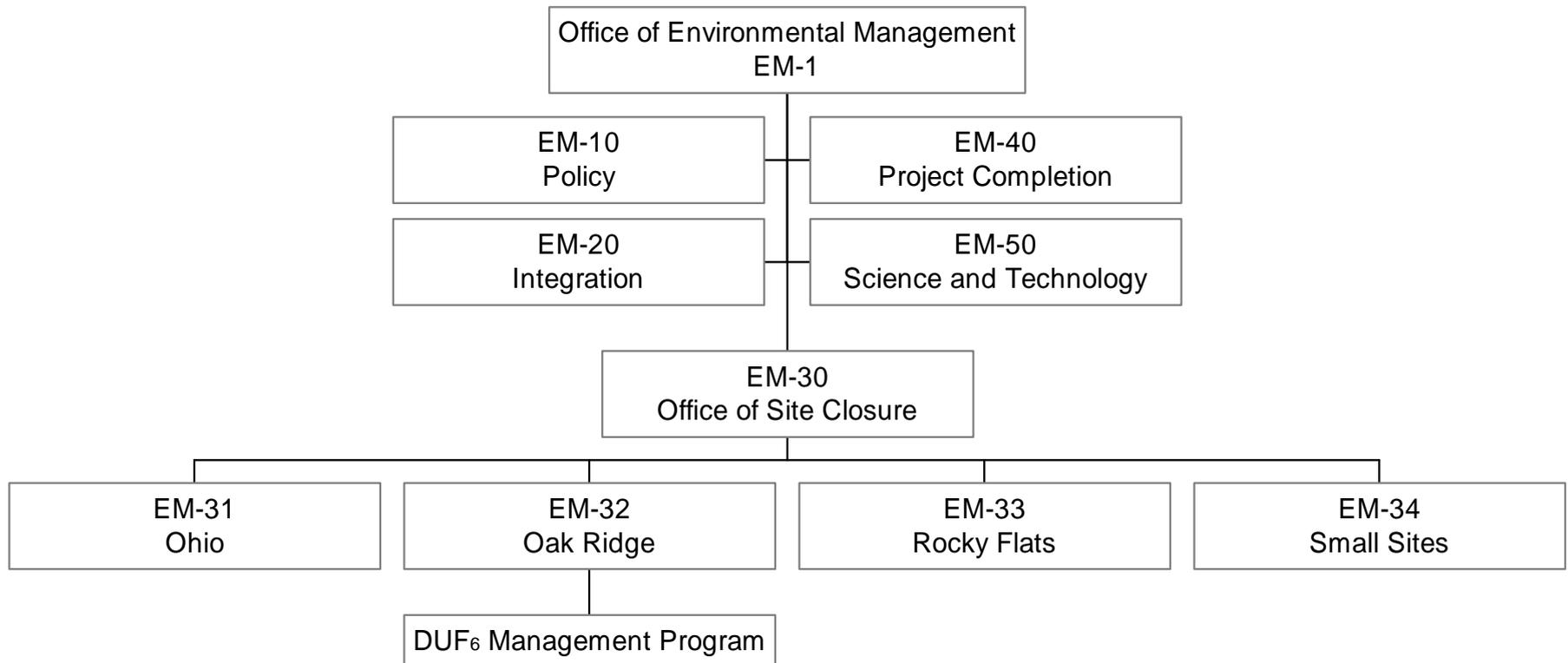
Depleted Uranium Hexafluoride (DUF_6) Management Program



*Presentation for
DUF₆ Conversion Project
Environmental Impact Statement Scoping Meetings
November/December 2001*



DUF₆ Management Program Organizational Chart





DUF₆ Management Program

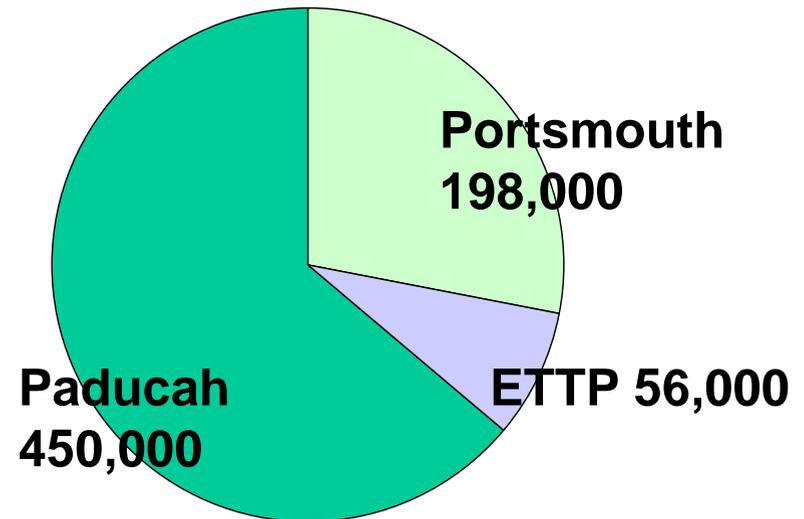
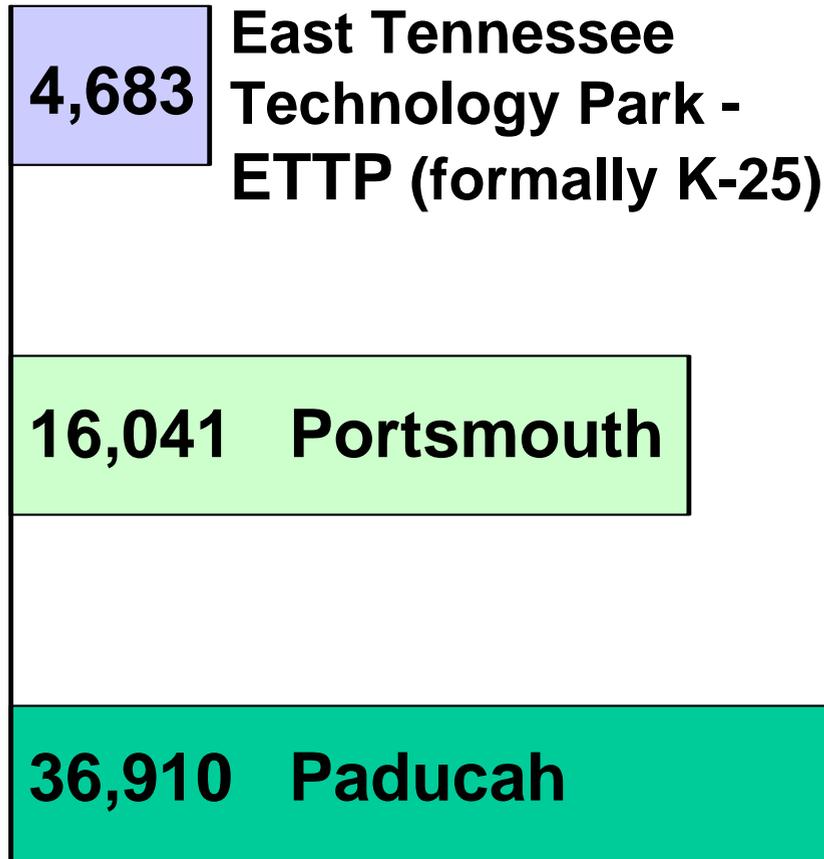
- **Mission: Safely and efficiently manage the DOE inventory of DUF₆ in a way that protects the health and safety of workers and the public, and protects the environment**



DUF₆ Inventory Distribution

57,634 Cylinders

704,000 Metric Tons of DUF₆





Deteriorating Storage Conditions Create Environmental and Safety Concerns



- Breaches
- Rust & Corrosion
- Yard Conditions
- Water Damage
- Ground Contact





Cylinder Management

Cylinder management involves safely storing the Department's inventory of DUF_6 at the Paducah, Portsmouth, and ETP sites until the DUF_6 is either used or disposed.





Long Term DUF₆ Management

The issue:

704,000 metric tons of DUF₆ stored outdoors in 57,634 carbon steel cylinders subject to corrosion and breaching, requiring perpetual maintenance.

National Environmental Policy Act (NEPA) Approach:

Tiered environmental review

- Programmatic EIS (PEIS) address broad issues
- Site Specific EIS is a focused review associated with implementing the PEIS Record of Decision (ROD)



PEIS and ROD for Long Term DUF₆ Management

Alternatives

- No Action
- Storage as UF₆
- Storage as Oxide
- Use as Oxide
- Use as Metal
- Disposal as Oxide

The Preferred Alternative

- **Draft PEIS (December 1997)** - Begin Conversion, to metal and/or oxide when use is identified.
- **Final PEIS (April 1999)** - Begin Conversion as soon as possible.

Record of Decision (August 1999)

- Begin conversion promptly
- Conversion facilities built consistent with Plan submitted in response to **P.L. 105-204**, consistent with NEPA



Public Law 105-204 (McConnell Act)

- **Prepare and Submit to Congress a Plan, consistent with NEPA, that uses USEC Funds set aside for DUF₆ disposition to:**
 - Establish facilities that treat and recycle the Department's DUF₆ inventory.
 - Build these treatment (conversion) facilities at Paducah and Portsmouth.
 - Begin construction of facilities by Jan 31, 2004.
- **Plan submitted in July 1999**



DUF₆ Conversion Contract Scope

- **Design, build, and operate for five years conversion plants at Paducah and Portsmouth**
 - Conversion to be completed in no more than 25 years.
- **Maintain the DUF₆ and conversion product inventories**
 - Six month storage for conversion products
- **Transport ETTP cylinders to Portsmouth for conversion**
- **Arrange for and transport excess conversion products to appropriate disposal facility**
- **Schedule to be defined by contractor such that:**
 - Construction begins by January 2004
 - ETTP cylinders transported by December 2009



Draft Scope for the EIS to the DUF₆ Conversion Project

Proposed Alternatives

- No Action
- One Plant
- **Two Plants**
- Existing Conversion Capabilities
- OTHERS ?

Environmental Issues Associated with

- Construction, operation, maintenance, D&D of the facilities.
- Transport ETTP cylinders to conversion site.
- Transport conversion products not beneficially used to a LLW site.
- OTHERS?

Decision Needed

What alternative to follow in implementing the “begin conversion promptly” PEIS ROD



Draft Scope for the EIS to the DUF₆ Conversion Project

**We are seeking
your input
on the proposed EIS scope**



What Happens Next in the DUF₆ NEPA Process

- **Transcripts of the Scoping Meetings will be placed in Oak Ridge, Paducah, Portsmouth, and DOE-HQ reading rooms/information rooms and DUF₆ Web Site.**
- **Draft EIS scheduled for June 2002**
 - Public meetings in Paducah, Portsmouth, and Oak Ridge
 - Scoping comments summary
 - 45-day comment period
 - Federal Register announcement will contain details
- **Final EIS scheduled for January 2003**
- **ROD no earlier than 30-days after Final EIS**



DUF₆ Management Program Web Site

<http://web.ead.anl.gov/uranium>



Management Information Network

A resource for the public, industry, and the scientific community

Search:

The Depleted UF₆ Management Information Network Web Site is an online repository of information about the U.S. Department of Energy's (DOE's) inventory of depleted uranium hexafluoride (DUF₆), a product of the uranium enrichment process. The site informs the public and other stakeholders about DUF₆ and DOE's program for management of its DUF₆ inventory, and facilitates public involvement.

News and Events

9/25/2001 [Press Release for DUF₆ Conversion EIS](#)

9/24/2001 [NOI for Depleted UF₆ Facilities](#)

[News Details >>](#)

Mailing List

Sign up to receive updates about this web site.

[E-mail to a friend](#)



DUF₆ Guide

Introductory information about depleted uranium: how it is created, used, and stored.



DUF₆ Uranium Management

DOE's DUF₆ management program; cylinder surveillance and maintenance, DUF₆ conversion, and beneficial uses development.



DUF₆ Conversion EIS

Environmental impact statement for construction and operation of DUF₆ conversion facilities.



Documents

Downloadable documents about depleted UF₆ management, the EIS, and related topics.



News & Events



Frequently Asked Questions



Internet Resources



Glossary/Acronyms

[DUF₆ Guide](#) | [DUF₆ Management and Uses](#) | [DUF₆ Conversion EIS](#) | [Documents](#)
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