



U.S. DEPARTMENT OF
ENERGY

OFFICE OF
**ENVIRONMENTAL
MANAGEMENT**

Oak Ridge Environmental Management Program Positioned for Success in 2016 and Beyond

Jay Mullis, Deputy Manager
Oak Ridge Office of Environmental Management

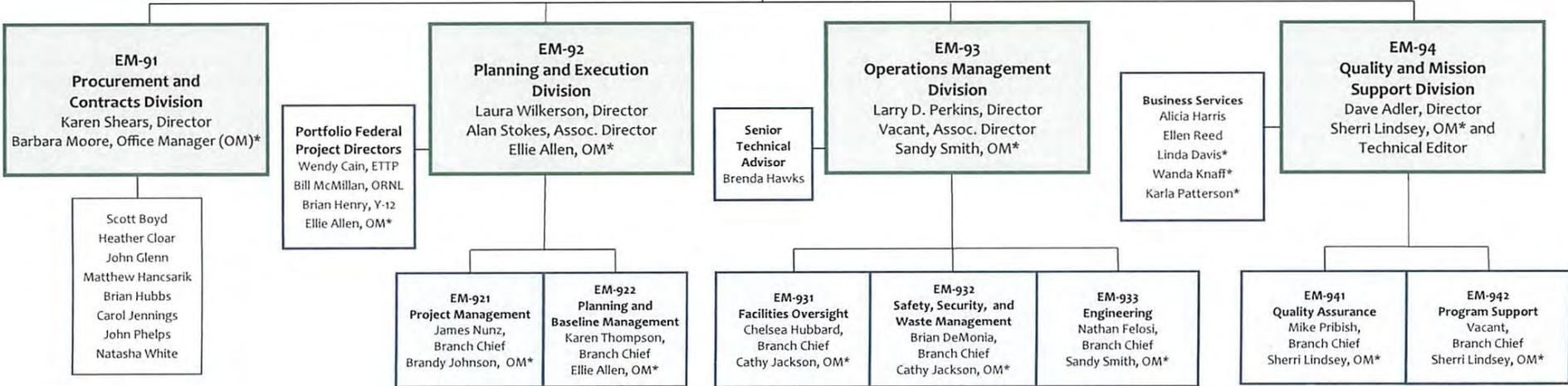
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We are well organized to execute the cleanup mission in Oak Ridge



OAK RIDGE OFFICE OF ENVIRONMENTAL MANAGEMENT (OREM)

SUE CANGE, MANAGER
 JAY MULLIS, DEPUTY MANAGER
 MIKE KOENTOP, EXECUTIVE OFFICER
 Rhonda Ward, Executive Assistant*



Oak Ridge EM has a clearly defined near-term cleanup plan

Vision 2016 ✓

Completion of all Gaseous
Diffusion Plant demolition at ETTP

Vision 2020

Remaining portion of ETTP cleaned
up and reindustrialized

Vision 2024

Expand cleanup work to Y-12 to
address mercury contamination



Vision 2016 Accomplishments

4.5 MILLION SQUARE FEET DEMOLISHED

720 ACRES TRANSFERRED

5,000  CONVERTERS SHIPPED OFFSITE

137 MILES  PIPING REMOVED

56,000 TRUCKLOADS WASTE SHIPPED ONSITE
1,600 TRUCKLOADS SHIPPED OFFSITE



FY17 funding supports continued progress on program priorities

Dollars in Millions

Appropriation Account	FY 2016 Current	FY 2017 President Budget	FY 2017 Senate Mark	FY 2017 House Mark
<u>Defense Environmental Cleanup</u>				
U233 Disposition Program	35.9	37.3	43.3	44.3
OR Cleanup and Waste Disposition	74.6	54.6	68.5	54.6
OR Nuclear Facility D&D (Y-12 & ORNL)	111.9	93.8	131.8	106.9
Mercury Treatment Facility - Design	9.4	5.1	5.1	5.1
Sludge Facility Buildout - Design	0.0	0.0	0.0	0.0
EMDF - Design	0.0	0.0	6.0	2.0
OR Technology Development and Deployment	2.8	3.0	3.0	3.0
OR Community and Regulatory Support	4.4	4.4	5.5	4.4
Safeguards & Security	12.8	15.0	15.0	15.0
Total Defense Environmental Cleanup	251.8	213.2	278.2	235.3
<u>Non-Defense Environmental Cleanup</u>				
Historic Preservation	6.0	0.0	6.0	0.0
Total Non-Defense Environmental Cleanup	6.0	0.0	6.0	0.0
<u>UE D&D (Decontamination & Demolition) Fund</u>				
ETTP Cleanup	211.6	178.2	213.5	183.2
Total UE D&D Fund	211.6	178.2	213.5	183.2
Total Oak Ridge	469.4	391.4	497.7	418.5

OREM will use lessons learned to ensure continued cleanup success in Oak Ridge

The best management practices, construction logic, and lessons learned through the successful clean up projects at ETTP...



... will be applied as DOE transitions to the next phase of large, high-priority D&D projects at Y-12 and ORNL



Future large-scale demolition requires additional infrastructure to ensure success

Design/construct a comprehensive mercury treatment facility

The treatment facility will immediately reduce mercury released to surface water and is an important control measure for future cleanup at Y-12



Mercury Treatment Facility Model

Design/construct additional onsite disposal capacity

Additional onsite disposal will allow OREM to transition from cleanup at ETTP to Y-12 without delay, and provides the safest and most cost effective approach to waste disposal



Demolition Debris Disposal

DOE is focusing increased attention on reducing risk associated with contaminated excess facilities

- Inspector General and Government Accountability Office issued three reports raising concerns about DOE's management of excess facilities
 - There are ~350 excess facilities in Oak Ridge, which accounts for 25% of DOE's inventory
 - Forty-six of the facilities are classified as high risk, which accounts for 40% of DOE's inventory
- Work to reduce risks and stabilize facilities has begun and will continue



Reducing risk at Y-12 supports growing missions in national security



Reducing risk at ORNL protects investments in science and advanced manufacturing



*Includes facilities that are currently excess and facilities projected to become excess over 10 years

- Treating and disposing of Transuranic waste resulting from past nuclear operations
- Direct disposition and processing U-233
- Surveillance and maintenance of facilities awaiting D&D and base operations
- Life extension programs and engineering evaluations to ensure critical infrastructure remains operable



OREM is continuing to execute our reservation groundwater strategy

- 30-year commitment to study and address groundwater contamination on and around the Oak Ridge Reservation
- Active groundwater removal and treatment systems in place at all three sites
- Collecting data and performing modeling to learn more about groundwater flow patterns
- Currently finishing Offsite Groundwater Assessment Project
 - Three-year project that sampled more than 40 locations in Anderson and Roane counties
 - Preliminary data review indicates no site-related contaminants exceed recognized EPA drinking water standards
- Working with the State of Tennessee and EPA to determine the next project under the groundwater strategy



OREM is well positioned to make significant progress in FY 2017 and beyond

- OREM has a comprehensive plan to complete cleanup of the Oak Ridge Reservation
- Congressional support provides necessary funding to safely and efficiently make progress on program priorities
- Partnerships with key stakeholders and environmental regulators a key component to future success

