



The East Tennessee Technology Park in Oak Ridge, Tenn. was once a shuttered uranium enrichment complex. EM's cleanup has transformed the site into a multi-use industrial park for the community with private businesses, conservation areas, and a national park.

Contents

Our Mission1

Key Issues 13

The Year's Top News......4

Members & Liaisons..... 16

Our Mission

The Oak Ridge Site Specific Advisory Board (ORSSAB) is a federally appointed citizens' panel that provides independent recommendations to the Department of Energy's (DOE) Oak Ridge Environmental Management (OREM) Program.

The board provides advice to the DOE EM program regarding environmental restoration, waste management, long-term stewardship, land use, and economic development.

Recommendations regarding environmental justice, health and safety issues, historic preservation, and other concerns may also be developed at the request of the DOE assistant secretary for EM or the OREM manager. ORSSAB is one of eight site specific boards across the nation that comprise the EM SSAB and may also participate in joint recommendations with that organization.

The board is committed to reflecting the concerns of the communities impacted by EM activities on the Oak Ridge Reservation (ORR) and serving as a communications link

between the public and relevant government agencies, including local governments.

ORSSAB provides several avenues for the public to learn about and express views on OREM's cleanup work. All board and committee meetings are open to the public and are announced in the Federal Register, newspaper advertisements, on our website, and various social media outlets.

Meetings are held at the DOE Information Center in Oak Ridge at 1 Science.gov Way and may also be attended virtually via Zoom on request. Recordings are uploaded to YouTube at www.youtube.com/user/ORSSAB.

The board maintains a web site at **www.energy.gov/orssab**. Information is also available by calling the ORSSAB support office at 865-241-4583 or 865-241-4584 or email us at **orssab@orem.doe.gov**.



Unlike most other DOE facilities, the ORR is almost entirely within the city limits of Oak Ridge. It contains three main facilities: East Tennessee Technology Park, Oak Ridge National Laboratory, and the Y-12 National Security Complex.

ORSSAB was chartered under the Federal Advisory Committee Act in 1995. The board is composed of up to 22 members, chosen to reflect a diversity of gender, race, occupations, views, and interests of persons living near the ORR. Members are appointed by DOE and serve without compensation. Members may serve up to three two-year terms.

At the close of the year, the board consisted of 20 voting members from Anderson, Campbell, Knox, Loudon, Morgan, and Roane counties. More about members who served, including some who exited the board mid-year, can be found in the "Members" section starting **on Page 14**.

Non-voting participants include liaisons from DOE, the U.S. Environmental Protection Agency Region 4 (EPA), and the Tennessee Department of Environment and Conservation (TDEC), which advise the board on their agencies' policies and views.

FY2023 Board Officers

ORSSAB officers for FY2023 were Leon Shields, chair; Amy Jones, vice chair; and Shell Lohmann, secretary. Michael Sharpe was chair of the EM & Stewardship Committee, and Harriett McCurdy was co-chair.

Board Meetings

The board meets the second Wednesday of most months at 6 p.m. in Oak Ridge to hear presentations by EM personnel

working on relevant projects, listen to and discuss input from concerned citizens, consider recommendations to DOE, and conduct other business. In October, an annual meeting was held to evaluate the board's work during the year and plan activities for the next year. For 2023, meetings were held virtually via Zoom and as hybrid in-person and through Zoom.

The board conducts its deliberations under ORSSAB bylaws and Robert's Rules of Order and strives to consider all relevant positions in reaching decisions.

Committees

General business is handled at the monthly Executive Committee meeting, which is composed of the elected officers of the board and the chair of the EM & Stewardship Committee. This committee holds general administrative authority to set board agendas, coordinate the work of other committees, and transact business as necessary.

The EM & Stewardship Committee is responsible for monitoring the major cleanup activities on the ORR as well as stewardship requirements for areas of the reservation that have been remediated, but remain contaminated long-term. It originates recommendations to be considered at full board meetings. All board members are part of this committee.

Committees usually meet monthly, and all meetings are open to the public.





Join the Board

A broad spectrum of backgrounds and viewpoints is desired for board membership; technical expertise is not required. Applications for membership are accepted at any time and are actively solicited through a variety of media during specific recruitment periods.

Residents from the counties affected by DOE operations are encouraged to apply. These counties include Anderson, Blount, Campbell, Knox, Loudon, Meigs, Morgan, Roane, and Union.

Applications may be obtained by emailing the ORSSAB support offices at **orssab@orem.doe.gov** or visiting our website at **www.energy.gov/orssab**.

Abbreviations

CAB	Citizens Advisory Board	ORNL	Oak Ridge National Laboratory
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act	ORR	Oak Ridge Reservation
		ORSSAB	Oak Ridge Site Specific Advisory Board
DDFO	Deputy Designated Federal Officer	TDEC	Tennessee Department of Environment and Conservation
DOE	U.S. Department of Energy		
EM	Environmental Management	TRU	Transuranic
EMDF EMWMF	Environmental Management Disposal Facility Environmental Management Waste Management Facility	TWPC	Transuranic Waste Processing Center
		WIPP	Waste Isolation Pilot Plant
		Y-12	Y-12 National Security Complex
EPA	U.S. Environmental Protection Agency		
ETTP	East Tennessee Technology Park		
OREM	Oak Ridge Office of Environmental Management		

The Year's Top News OREM, UCOR Break Ground on Disposal Facility



OREM and contractor UCOR accomplished an EM priority four months ahead of schedule when they broke ground on the Environmental Management Disposal Facility (EMDF) in August 2023.

OREM and contractor UCOR accomplished an EM priority four months ahead of schedule when they broke ground on the Environmental Management Disposal Facility (EMDF) in August 2023.

National, state and local leaders joined OREM and UCOR to celebrate the start of the \$550 million infrastructure project that will keep cleanup momentum on track at Oak Ridge.They also recognized partnerships with the EPA and TDEC that made it all possible.

The current onsite disposal facility, the Environmental Management Waste Management Facility (EMWMF), is nearing full capacity following EM's achievement of core clenaup at ETTP, including demolishing more than 500 structures. It was DOE's largest completed environmental cleanup effort to date, but hundreds of buildings still remain at Y-12 and ORNL requiring demolition.

The new EMDF will provide the disposal capacity OREM needs to complete cleanup at those sites in the coming decades. EMDF will support projects that remove old, dilapidated facilities and clear land the DOE Office of Science and National Nuclear Security Administration (NNSA) can reuse to support research and national security missions. EM is complying with all federal and state requirements. It is also incorporating numerous engineering features into the facility's design, under the oversight of EPA and TDEC, to ensure its waste remains isolated from the environment. Additionally, DOE will continue sending all highly contaminated waste out of state for disposal.

The EMDF groundbreaking marked the start of early site preparation for the facility. The project will be conducted in three phases, and EMDF is scheduled to be operational in 2029.



Design plans for EMDF include four cells.



The K-25 Viewing Platform, now under construction, is expected to be open to the public lin 2025. Located next to the K-25 History Center, this new facility will provide visitors a complete view of K-25's massive 44-acre footprint.

Viewing Platform Brings K-25 Historical Perspective

Officials celebrated progress on a facility that will give the public a new perspective of what was once the world's largest building as they broke ground for the K-25 Viewing Platform at the East Tennessee Technology Park.

The K-25 Viewing Platform will be adjacent to the recently opened K-25 History Center and provide visitors a complete view of the building's massive 44-acre footprint.

Its construction is one of the final components of a multi-project agreement OREM signed in 2012 to commemorate the history of the former Oak Ridge Gaseous Diffusion Plant, where the K-25 Building was located. OREM completed the other elements in previous years, which included construction of the K-25 History Center and preservation of the historic Alexander Inn.

The K-25 Viewing Platform is expected to be complete and open to the public in early 2025.

While the K-25 History Center focuses on the men and women who built and operated the Oak Ridge Diffusion Plant during the Manhattan Project and Cold War, the viewing platform will help visitors understand the scope and magnitude of the former K-25 Building.

Originally constructed in 1944, the K-25 Building was the largest structure in the world and carried an equally immense mission to help end a global war by producing uranium for the world's first nuclear weapon. Yet despite its size and urgent work, the public would not learn of its existence in Oak Ridge until the end of World War II. Uranium enrichment operations ceased there in 1985, and the site was permanently shut down in 1987. Afterward, DOE began a massive environmental cleanup effort to transform the site into a multi-use industrial park for the community. That effort involved tearing down five massive enrichment facilities, including the K-25 Building, and 500 other structures that supported operations at the site. OREM and UCOR completed demolition of the K-25 Building in 2013 and finished all demolition at the site in 2020.



From left, American Museum of Science and Energy Director Alan Lowe; Roane County representative Bonnie Argus; U.S. Army Corps of Engineers Nashville District Deputy Commander Maj. Todd Mainwaring; Geiger Brothers Project Engineer Ian Fitzpatrick; OREM Chief Engineer Laura Wilkerson; Oak Ridge Historian Ray Smith; UCOR President and CEO Ken Rueter; and Gregor Smee, Smee + Busby Architects break ground on the K-25 Viewing Platform.

January

Crews Complete Critical Upgrades to Liquid and Gaseous Waste Operations Infrastructure



The Oak Ridge Office of Environmental Management's Distributed Control System upgrade project included the design, fabrication and installation of a fully new system complete with a new fiber optic cabling system.

OREM and its contractor UCOR have performed extensive upgrades designed to extend the life of the Liquid and Gaseous Waste Operations (LGWO) facilities.

LGWO treats wastewater from OREM's cleanup operations and ORNL research and development laboratories. Made up of 60 facilities and 27 miles of piping, this infrastructure is critical for ongoing EM and Office of Science missions.

Most recently, UCOR finished replacing the Distributed Control System (DCS), which controls LGWO's instrumentation. The upgrade project was necessary for the waste treatment system to remain operational.

With the old system running on obsolete components, the upgrade project included the design, fabrication and installation of a fully new system complete with a new fiber optic cabling system between the LGWO facilities, network cabinets, control cabinets, new software and a new backup system.

The DCS controls and monitors 2,216 process points across 18 facilities; those points span three waste treatment systems that comprise LGWO: the Liquid Low Level Waste, Process Waste Treatment and Gaseous Waste systems.

UCOR planned and executed troubleshooting before the new DCS installation began to ensure safe compliance and system testing for infrastructure compatibility. That extensive effort was completed ahead of schedule and under budget.

In addition to the system upgrades, UCOR is completing other actions to maintain safe and reliable operability of the LGWO systems.

Another project involved installing a new pretreatment facility that treats low-level liquid waste and allows it to be diverted from storage tanks directly to the Process Waste Treatment System. That change alleviates previous storage volume issues. Crews also replaced a diesel generator that powers critical pumping stations and valve boxes when power is interrupted.

OREM and UCOR are also in the midst of an \$18 million project to replace more than a mile of above-ground piping and valves, making the system more efficient and reliable and helping avoid the possibility of disrupting ongoing ORNL operations. That work is slated to continue through 2024.

February

Oak Ridge Transports First Waste Shipment to Waste Isolation Pilot Plant Under New Contract

The Transuranic Waste Processing Center (TWPC) shipped its first load of transuranic (TRU) waste for disposal since coming under the management of OREM cleanup contractor UCOR.

TWPC work was recently moved under the Oak Ridge Reservation contract that continues for the next decade, ensuring appropriate resources and expertise are available to successfully address the remaining challenging TRU waste at Oak Ridge.

Employees at the facility are addressing a stockpile of legacy defense-related research waste. The early 2023 shipment included 35 drums and weighed nearly 80,000 pounds. After a two-day trip, the load arrived safely at EM's Waste Isolation Pilot Plant (WIPP) in Carlsbad, New Mexico, for permanent disposal.

To complete the shipment, personnel prepared and loaded the waste containers over two days. A 10-person TWPC



Nearly 80,000 pounds of legacy transuranic waste leave Oak Ridge for EM's Waste Isolation Pilot Plant in New Mexico. Once the shipment was ready, representatives from Tennessee's highway patrol and emergency management agency inspected the trailer carrying the shipment and approved its release.

(Continued on page 7)

team worked closely with WIPP's Central Characterization Program mobile load team.

Once the shipment was ready for departure, representatives from Tennessee's highway patrol and emergency management agency inspected the trailer and approved its release. With that approval, WIPP authorized the shipment.

While TWPC employees have processed, repackaged and certified approximately 98 percent of Oak Ridge's inventory of legacy TRU waste, the site is steadily working to ship its remaining inventory of processed TRU waste to WIPP.

By February 2023, Oak Ridge had shipped approximately 85 percent of its contact-handled TRU waste and 70 percent of its remote-handled TRU waste to WIPP.

Unlike contact-handled waste, remote-handled waste has higher radioactivity levels and must be processed using special equipment. TRU waste contains elements heavier than uranium on the periodic table and consists of clothing, tools, rags, residues, debris, soil and other items contaminated with small amounts of plutonium and other radioactive elements.

With its first TRU waste shipment successfully completed, UCOR is set to continue regular shipments to WIPP until the site's entire inventory is removed.

EM constructed the TWPC in 2003 to address the legacy stockpile of defense-related research waste.

March

Electric Vehicles, Solar Arrays Drive Sustainability at Oak Ridge

The first fully electric vehicle quietly pulled into a parking space in Oak Ridge in March 2023.

The new addition to the site was part of a broader transition to an electric vehicle fleet across the EM complex. The cleanup program aimed to add 150 electric vehicles to its fleet in 2023.

OREM cleanup contractor UCOR was slated to receive 11 of the vehicles in the first phase of the effort.

An important component of OREM's integrated sustainability program, electric vehicles will be delivered as they become available through the U.S. General Services Administration and steadily replace the existing inventory.

UCOR is also the first DOE contractor in Oak Ridge to participate in the Tennessee Valley Authority's Electric Vehicle Fleet Advisory Program, which supports the shift to electric vehicles and associated charging infrastructure

The latest initiative is part of a long-running focus on sustainability for the Oak Ridge Reservation.



As a part of the Brownfields to Brightfields initiative, UCOR teamed with RSI and Vis Solis to deploy multiple solar arrays at Oak Ridge's East Tennessee Technology Park. The collection of solar panels is providing 1.2 megawatts of renewable power to the grid.

As a part of a brownfields-to-brightfields initiative, UCOR worked with subcontractor RSI to deploy three solar arrays at Oak Ridge's East Tennessee Technology Park (ETTP), providing 1.2 megawatts of renewable power to the grid.

UCOR and RSI also led the Powerhouse Six project, a utility-scale, 1-megawatt solar facility development capable of generating enough electricity to power 133 average-size homes annually and offset greenhouse gas emissions equal to more than 200 passenger vehicles per year. This successful project played a key role in ETTP's selection as a Federal Green Challenge award winner.

April

Evolving Oak Ridge Partnership Accelerates Cleanup, Helps Fight Against Cancer

OREM joined partners in a growing collaboration to celebrate advances in cancer treatment research that have emerged from an unexpected place — old nuclear material.

OREM and contractor Isotek are tasked with eliminating the uranium-233 inventory stored at ORNL because it presents risks and is costly to keep safe and secure. A private nuclear innovation company, TerraPower, approached Isotek with a plan for the company's employees to extract rare medical isotopes from this material before it's prepared for disposal. Isotek initially processed material with lower levels of radiation. It has since progressed to high-dose uranium-233 processing, which is providing larger amounts of medical isotopes.

Through this public-private partnership, up to 100 times more doses of next-generation cancer treatments will be available annually than are currently available worldwide. That translates to half a million doses annually. Isotek reinvested the funds it received from TerraPower into the cleanup project, helping accelerate the project and begin processing sooner.



Isotek is extracting thorium-229 from uranium-233 before the uranium is prepared for disposal. The Thorium will generate up to 100 times more doses of next generation cancer treatments annually than are currently available worldwide.

Isotek is extracting thorium-229 from the uranium-233 for TerraPower. That company then uses the material to create the actinium-225 needed for targeted alpha therapy.

TerraPower recently announced a collaboration agreement with Cardinal Health to produce and distribute actinium-225, which will help extend the reach and impact of this effort. It will be used in drug trials for a variety of cancers.

May

Crews Make Molten Salt Reactor Experiment at ORNL Safer as It Awaits Demolition

EM crews are slated to take down hundreds of old, contaminated buildings at ORNL and Y-12.

Many of them will remain standing for years to come due to the large amount of work required to demolish them. The Oak Ridge Office of Environmental Management (OREM) is tasked with keeping them safe until then.

That sometimes requires improvements to maintain safe conditions and prepare the structures for deactivation. A precursor to demolition, deactivation is the process of placing an excess facility into a stable condition to minimize existing risks and protect workers, the public and the environment.

The Molten Salt Reactor Experiment (MSRE) facility at ORNL is a prime example of a structure requiring such improvements, and OREM cleanup contractor UCOR is taking several steps to address associated challenges.

Crews in 2023 performed upgrades to the high bay – where the critical systems reside and improved infrastructure through work such as installing electrical upgrades and an emergency generator.

For the first time in 26 years, workers conducted sampling at the reactor. They measured the amount of fluorine generated in gases produced as byproducts from salt tanks.

Plans had long been underway to sample the gases but concerns over brittle pipes and safe access presented challenges difficult to resolve. Following installation of new robust piping and enhanced safety features, the team was able to safely perform the work.

OREM and UCOR's plans for the reactor's eventual deactivation and demolition are progressing.

Crews prepared for that work by removing components in the facility. That project led to a downgraded radiological level in a work area there.

They also installed a new portable maintenance shield that enables workers to use long-reach tools, reducing risk of injury and radiological exposure. That system is scheduled to go operational next year. It replaces the current gas removal system, minimizes failure points in the facility, and reduces hazards and required maintenance and oversight.

A study is underway to develop cleanup alternatives for MSRE. The study evaluates alternatives that incorporate one or more basic types of remedial actions, including grouting and removal of contaminated equipment.

June

Crews Remove Radioactive Source at ORNL's Building 3026 After 'Needle in Haystack' Search

EM workers completed a big task involving a small item by safely removing a highly radiated segment of wire roughly the size of a straightened-out paper clip from a cleanup project at ORNL.



Oak Ridge crews lift and remove heavy shielded plugs from the roof of a hot cell structure at the former Radioisotope Development Laboratory. They identified and packaged a tiny radiated item on the floor there through the opening atop the structure.

(Continued on page 9)

The wire — only 3 to 4 inches in length — presented major challenges as crews cleaned out the East Cell Bank to get it ready for demolition. The hot cell structure was the last remaining component of the former Radioisotope Development Laboratory, also known as Building 3026.

Crews with OREM previously demolished the outer structure of the East Cell Bank and five other hot cells in the former laboratory over the previous 13 years.

The cells were heavily shielded concrete rooms that provided researchers protection from radioactive material as they conducted research. The laboratory was built in 1945 to support isotope separation and packaging and was later used to examine irradiated reactor fuel experiments and components.

In the recent project at the East Cell Bank, the first challenge entailed locating and identifying the exact source of the elevated radioactive readings. Workers were operating through an opening atop the hot cell structure, approximately 25 feet from the floor where debris was located.

With other debris scattered in the room, searching for the segment of wire was like trying to find a needle in a haystack. Once the wire was located, the next challenge was retrieving it.

The project team considered multiple options for safely packaging the radiological source to protect personnel during waste packaging, transportation and disposal. OREM cleanup contractor UCOR safely removed the component using a long-reach tool and placed it in a concrete-shielded 85-gallon drum. The drum was filled with cement and placed in a specialized container to be shipped for disposal.

Those tasks were performed in the concrete-shielded East Cell Bank, which was under a six-story protective cover that provided added safety measures.

July

New Operations Base at Old Salvage Yard Supports Future Cleanup at Y-12

An area OREM cleaned up years ago became a new base of operations for hundreds of workers who will conduct large-scale cleanup at the Y-12 National Security Complex.

The Old Salvage Yard was established in the 1970s for storing scrap metal. In 2012, OREM finished a project that removed 21 million pounds of old scrap metal and opened the 7-acre area for reuse. Years later, it turned out that OREM and contractor UCOR would be the ones to reuse it.

UCOR had staged its operations for a massive demolition project at the footprint of the former Biology Complex. That station provided crews close proximity to the former Biology Complex. That project has since been completed, and the footprint is needed as the site of the National Nuclear Security Administration's (NNSA) new Lithium Processing Facility.

The transition to a new, centralized location for OREM helps ensure other critical deactivation and demolition work can continue seamlessly at Y-12. It enhances logistics and efficiency by providing space near some of the largest upcoming demolition projects at Y-12. It also features infrastructure to support employees and field work, such as workspaces for daily briefings, superintendent offices and shower trailers.

UCOR began designing the infrastructure for the new location in 2022 and began construction in early 2023.

The project required close collaboration with NNSA and its management and operating contractor for Y-12, Consolidated Nuclear Security. It included a variety of moving parts from agreements to transfer the site to adding utilities and relocating trailers for offices and worker support.

August

Crews Ready Former Uranium Enrichment Facility Alpha-2 for Teardown at Y-12

OREM and contractor UCOR completed deactivation efforts in August 2023 at Alpha-2, a multi-story former uranium enrichment facility spanning nearly 325,000 square feet. The work began in 2020.

EM's deactivation and demolition (D&D) work at Oak Ridge presents unique challenges amid ongoing missions at Y-12. Alpha-2, co-located with other active facilities at Y-12, required utilities to be rerouted prior to demolition. UCOR worked closely with Y-12 management and operations contractor Consolidated Nuclear Security (CNS) on that task.



Alpha-2 is a former uranium enrichment facility at the Y-12 National Security Complex that dates back to the Manhattan Project era.

(Continued on page 10)



EM crews take samples in the basement of Alpha-2.

A precursor to demolition, deactivation is the process of placing an excess facility into a stable condition to minimize existing risks and protect workers, the public and the environment.

Before the Alpha-2 demolition, slated for 2024, workers had to deactivate the basement and reroute nearby utilities. UCOR helped CNS create a design for the rerouting, which would also enable demolition of the Old Steam Plant at Y-12. EM crews finished preparing the plant for teardown in 2021.

Deactivation at Alpha-2 included clearing asbestoscontaminated piping, removing floor and ceiling tiles and draining oil from equipment. By August 2023, crews had disposed of nearly 3,000 cubic yards of waste and removed 280,000 pounds of lead-shielding blocks.

September

Crews Demolish Low Intensity Test Reactor at ORNL, Delivering EM Priority

OREM and cleanup contractor UCOR safely completed demolition of the Low Intensity Test Reactor at ORNL, checking off a second EM 2023 priority at the site in as many months.

The teardown also marked the second reactor EM crews took down in ORNL's central campus over the prior year, following the removal of the Bulk Shielding Reactor in 2022. The Low Intensity Test Reactor, also known as Building 3005, was built in 1949 as a criticality testing facility that used highly enriched fuel with water as a coolant. It operated until 1968.

Teardown of the three-story facility began in March, when crews removed the outer structure and various ancillary facilities. Next, workers used a high-reach crane to remove a trolley and bridge crane from the building. They then removed precast cement slabs and shield blocks to access and address the main reactor structure.

Once the slabs and shield blocks were removed, crews used a crane to raise the 37,600-pound reactor structure out of its housing. They placed the 30-foot-long reactor in a specialized carbon metal container for shipment for disposal.

In total, the demolition project produced more than 1.1 million pounds of waste.



In the final step of the Low Intensity Test Reactor demolition project, a crane raised the 37,600-pound reactor structure from its housing, placing the 30-foot-long facility in a specialized carbon metal container for shipment for disposal.

October

Crews Break Ground on Lithium Processing Facility on Former Biology Complex Site

EM's steady work removing old, contaminated structures at Oak Ridge is paving the way for new uses of land, including a site where the National Nuclear Security Administration (NNSA) hosted a groundbreaking ceremony for its new Lithium Processing Facility.

OREM and contractor UCOR finished a project in late 2022 that opened the 18-acre area at Y-12 for the NNSA facility. OREM crews had cleared away the former Biology Complex comprised of 11 structures dating back to the 1940's.

November



OREM finished removing the former Biology Complex and transferred the land it sat on back to the National Nuclear Security Administration in 2022. The EM project cleared 18 acres of land for the Y-12 National Security Complex to construct its new Lithium Processing Facility.

This success story in reuse of land once used for the Manhattan Project and Cold War demonstrates that OREM and UCOR are achieving more than risk reduction through their cleanup at Y-12 and Oak Ridge National Laboratory: They're opening space to support important missions.

The groundbreaking held by NNSA and Consolidated Nuclear Security (CNS), the Y-12 management and operations contractor, marked the beginning of site preparation for the construction project.

The new 245,000-square-foot facility will feature updated technology, increase processing capacity and make the work environment safer for employees. Construction is forecasted to begin in mid-2025, with completion projected in the early 2030s.

Y-12 is a supplier of lithium materials to support U.S. defense missions, and it's the only DOE and NNSA facility with lithium processing and production capabilities.

Today, nearly 60 percent percent of NNSA's facilities are more than 40 years old, with many dating to the Manhattan Project. OREM and UCOR are changing that with numerous projects already underway to continue the transformation and enable modernization at Y-12.



Officials with the National Nuclear Security Administration and Consolidated Nuclear Security, the Y-12 National Security Complex management and operations contractor, break ground for the new Lithium Processing Facility.

Crews Complete Landfill V Expansion Ahead of Schedule, Supports ORNL & Y-12 Cleanup



EM crews completed construction of the final permitted cell in Landfill V ahead of schedule. The 5.7-acre expansion adds 456,000 cubic yards of capacity to the landfill, bringing its total capacity to 2.1 million cubic yards.

OREM lead cleanup contractor UCOR finished constructing the final permitted cell in Landfill V ahead of schedule.

Landfill V is part of the Oak Ridge Reservation Landfills, which accept sanitary, industrial and construction waste generated from cleanup across the site.

The 5.7-acre expansion provides almost a half million cubic yards of additional disposal space to support ongoing cleanup at Y-12 and ORNL. That equates to approximately 50,000 dump truck loads of added capacity.

The buildout allows OREM to use the landfill for another 15 to 20 years, providing disposal space to nearby cleanup missions.

UCOR subcontracted the expansion effort to CTI and Associates, a small business focused on environmental consulting and engineering.

Enlarging Landfill V's disposal capacity also extends the life of the EMWMF, an important on-site disposal facility for low-level waste was at 85 percent capacity by late 2023.

While OREM disposes of sanitary, industrial and construction waste in Landfill V, it sends low-level contaminated waste to EMWMF. These complimentary efforts ensure space at EMWMF is used efficiently.

UCOR and its independent quality assurance firm, Thompson Engineering, completed a final report documenting all construction and testing activities for the Landfill V expansion. This report was submitted to TDEC for approval before any waste was placed in the newly expanded area of the landfill.

(Continued on page 12)

OREM is also preparing the site of EMDF for construction. That facility, which is slated to begin operations in the late 2020s, will provide an additional 2.2 million cubic yards of waste disposal capacity for low-level contaminated waste.

OREM is working to have that facility available as EMWMF reaches full capacity.

December

OREM, UCOR Host Pilot Safety Program to Identify Strengths, Gaps to Excellence



A strong safety culture helps ensure workers in Oak Ridge remain safe as they conduct challenging and complex cleanup work at Oak Ridge National Laboratory and the Y-12 National Security Complex.

OREM and cleanup contractor UCOR hosted a new safety culture assistance team that will visit DOE worksites to identify strengths and any gaps to excellence.

A 21-person team of individuals from DOE headquarters, various DOE prime contractors, the U.S. Nuclear Regulatory Commission and electric utility company Duke Energy conducted a series of interviews, focus groups and workplace observations to obtain insight into the safety culture at Oak Ridge.

As part of its pilot visit to a DOE worksite, the team shared its observations, including how UCOR employees felt empowered to stop work for perceived safety issues.

A strong safety culture helps ensure workers in Oak Ridge remain safe as they conduct challenging and complex cleanup work at Oak Ridge National Laboratory and the Y-12 National Security Complex. The DOE Safety Culture Improvement Panel is working to finalize the safety culture assistance visit process, which provides real-time insight into the status of an organization's safety culture and safety conscious work environment specifically focusing on leadership, employee and worker engagement, and organizational learning.

A second pilot visit is scheduled at another DOE site in 2024, and plans are underway to support several additional requests.



A new safety culture assistance visit team, shown here at Oak Ridge, is comprised of individuals from DOE headquarters, various DOE prime contractors, the U.S. Nuclear Regulatory Commission and electric utility company Duke Energy.

Key Issues

In FY 2023, ORSSAB sent two locally generated recommendations to DOE and endorsed one recommendation developed by the chairs of the eight site specific advisory boards.

Full text of the recommendations and responses is available on the ORSSAB website at energy.gov/orem/listings/orssab-recommendations-responses.

Recommendations on FY2025 OREM Budget

Each year the DOE-EM Program develops its budget request for the fiscal year two years beyond the current year, including requests from DOE field offices to develop the EM Program budget request to the president.

DOE-EM Headquarters typically issues guidelines to the field offices advising them how much funding they should reasonably expect when developing their FY+2 budget requests. The field offices then brief the public, the regulatory agencies, and the respective site-specific advisory boards and seek input from each regarding budget requests.

On March 8, 2023, the OREM program presented on its FY 2025 budget formulation process to ORSSAB. This presentation provided content and discussions that ORSSAB used to draft its recommendations.

In creating its recommendations for the FY 2025 OREM budget, ORSSAB focused on general near-term and long-term cleanup priorities identified by OREM. Project-specific objectives provided additional details for discussions that took place at the March 22, 2023 EM & Stewardship Committee meeting.

The board referred to the OREM 10-year Program Plan, the EM Strategic Vision, the current EM Budget Request, and the board's previous Recommendations for additional guidance on budget recommendations.

Recommendations

ORSSAB supports OREM's Program Plan and recommends fully funding the activities that are currently supported by that Plan for FY 2025, broadly understood as follows:

- Complete remediation & transfer all potential property at ETTP.
- Continue demolition of excess contaminated facilities at ORNL & Y-12.

- Continue to develop infrastructure to enable cleanup at ORNL & Y-12.
 - o Mercury Treatment Facility, including mercury technology development.
 - o CERCLA waste disposal facility (EMDF).
- Continue disposition of U-233 material.
- Continue disposition of legacy transuranic debris and sludges, including use of data from the onsite sludge test area to inform design of the future Sludge Processing Facility.
- Maintain and operate facilities at ORNL and Y-12.

With this support, ORSSAB recommends funding the FY 2025 budget to include all activities necessary to complete these cleanup priorities in an effective, timely and safe manner.

Related to this, ORSSAB is also concerned that inflationary pressures exist to an extent that has not been realized in 40 years; therefore, ORSSAB further recommends that the funds requested for FY 2025, 2 years from now, reflect the appropriate amount necessary to offset those inflationary pressures. Recommendation 255: Recommendations on Groundwater Remedy Selections in the Main Plant and K-31/K-33 Areas at the East Tennessee Technology Park at the U.S. Department of Energy Oak Ridge Reservation, Oak Ridge, Tennessee

As a result of past research and industrial activities on the Oak Ridge Reservation (ORR), groundwater beneath several areas of the reservation has become contaminated. Groundwater investigations have been done on and adjacent to the ORR since the 1980s. OREM, in partnership with regulators at the EPA and TDEC, used findings from groundwater research, sampling, and analysis over the decades to develop a groundwater strategy document (**DOE/OR/01-2628**). Several strategy objectives were identified to guide the path forward for groundwater remediation on the ORR and these strategies were integrated into the Federal Facility Agreement (FFA), which sets milestones for cleanup actions on the ORR.

Early actions were taken in the 1990s for off-site contamination and high-risk/high-priority releases. In the 2000s, Watershed Interim Records of Decision (RODs) were signed to address contaminant sources and building demolition projects.

In 2020, OREM completed removal of all contaminated and unneeded buildings at East Tennessee Technology Park (ETTP) as part of the Vision 2020 project, with soil remedial actions slated for completion within the following year. Now, the site will be the focus of the first large-scale decisions on groundwater for the Oak Ridge Reservation (ORR).

ETTP is divided into three sections for groundwater remediation planning. One section is the Main Plant Area, which encompasses most of the operations area at the former enrichment complex. Another section is the area where the large K-31 and K-33 uranium enrichment buildings once stood. The third section is called Zone 1, which is the area immediately surrounding the Main Plant and K-31 and K-33 areas.

The Proposed Plan for an Interim Record of Decision (ROD) for Groundwater in the Main Plant Area at ETTP (DOE/OR/01-2921&D2/R1) was released for public input in January 2023. The scope covered by the Proposed Plan includes six areas of groundwater contamination (i.e., groundwater plumes) within the Main Plant Area. These areas are located below the water table in the unconsolidated weathered soil/rock and bedrock zones.

The Proposed Plan for the Record of Decision for Groundwater in the K-31/K-33 Area (DOE/OR/01-2922&D2) was released for public input in March 2023. The proposed plans describe the alternatives analyzed, identify the preferred alternative for each respective area, and explain the rationale for each preferred alternative.

DOE accepted public comments on both proposed plans, with comments accepted on the Main Plant Area plan from April 5, 2023, through May 19, 2023, and on the K-31/K-33 Area plan from April 26, 2023, through June 12, 2023.

ORSSAB has been interested in the status of groundwater on and around the ORR for several years, and during that time OREM and contractor experts have provided several presentations on groundwater conditions. Most recently, Regulatory Affairs Specialist and FFA Projects Manager Roger Petrie presented board members with information on groundwater at ETTP on May 10, 2023, and June 14, 2023, with the presentations covering the Main Plant Area proposed plan and the K-31/K-33 Area proposed plan, respectively.

ORSSAB members also toured groundwater sites at ETTP on June 6, 2023, and the EM & Stewardship Committee had detailed discussions on May 24, 2023, and June 28, 2023.

Recommendations

Main Plant Area

Based on previous positive outcomes using enhanced in-situ bioremediation and its relatively low cost, ORSSAB supports its selection as the preferred alternative as detailed in the "Proposed Plan for an Interim Record of Decision for Groundwater in the Main Plant Area at the East Tennessee Technology Park, Oak Ridge, Tennessee" – dated January 2023. However, our concerns remain about the predictive positive outcomes being complicated by the uniquely complex hydrogeology in the area combined with additional contaminants of concern within the six targeted TCE plumes. Therefore, ORSSAB recommends the following after the first significant injection:

- 1. In addition to monitoring the six treated plumes, monitor downgradient and around those plumes to determine if the contaminants have migrated.
- 2. Monitor the microorganisms to evaluate continued viability.
- 3. Report the results of monitoring and evaluation to ORSSAB once this information is available.

K-31/K-33 Area

Based on information presented showing that the forces of nature appear to be lowering concentrations of contaminants in the K31/K33 area to acceptable levels, ORSSAB supports the selected alternative of monitored natural attenuation along with land use controls in this area.

ORSSAB was one of eight SSABs to jointly endorse the following recommendation. More information about the other boards organized under the EM SSAB umbrella can be found at **energy.gov/emssab**.

Recommendations on the EM SSAB Chairs Recommendations

According to the EM SSAB charter (Section 3), the EM SSAB provides EM senior management "with advice and recommendations concerning issues affecting the EM program." The EM SSAB has made at least 10 recommendations to DOE since 2018, often at the request of DOE. The recommendation process includes three parts: (1) the EM SSAB recommendation, (2) the DOE response to the recommendation, and (3) the final policy action or implementation of the recommendation by DOE. While parts (1) and (2) are well recognized (e.g., in public postings on the EM SSAB website and responses distributed to local Boards), it is part (3), implementation, that makes EM SSAB recommendations meaningful and the recommendation process an effective use of time and other resources, those of both EM SSAB members and DOE.

It is important to review the implementation of recommendations for several reasons:

- 1. Ensuring accountability: Recommendation implementation reviews help ensure that DOE is held accountable for the advice it requests and/or receives from its volunteer Board members. By examining whether recommendations have been implemented as written, EM SSAB can assess how its efforts are valued and identify areas where further deliberations and recommendations are needed.
- 2. Improving effectiveness: Recommendation reviews provide an opportunity to assess whether recommended activities are working as intended and identify areas for im-provement. By examining the results of recommendation implementation, EM SSAB and DOE can make adjustments to recommended activities to ensure they achieve their intended goals.
- 3. Enhancing transparency: Reviews of recommendation implementation increase trans-parency by providing a clear understanding of how recommendations are being imple-mented and the outcomes they are producing. This transparency is critical for building trust in DOE and ensuring that the public has confidence in DOE and its clean-up activi-ties.
- 4. Promoting learning: Recommendation implementation reviews provide an opportunity for EM SSAB and DOE to learn from their experiences and identify best practices for making and implementing recommendations. By sharing these best practices, EM SSAB and DOE can promote more effective and efficient recommendation making and im-plementation in the future.

Recommendations

The EM SSAB recommends:

- DOE provide clear and publicly accessible information regarding implementation of EM SSAB Chairs recommendations for the last five years. In addition to a clear statement about im-plementation status (e.g., "Implementation of the recommendation is complete (or "ongoing", "suspended", or "discontinued"), the information should include an explanation of any devia-tions from the DOE response to the recommendation.
- 2. DOE report to the EM SSAB at least annually a summary of the status of all EM SSAB Chairs recommendation items and any recommendation action item completed during the re-porting period.

Members & Liaisons



Atilio Anzellotti

Atilio Anzellotti is a senior scientist with PETNET Solutions and a resident of Oak Ridge. He would bring a unique perspective to the board as he has dual citizenship (US and Venezuela). His B.S. and M.S. degrees in chemistry were received in Venezuela from the University of Los Andes and the Venezuelan Institute for Scientific Research, respectively. He

received a Ph.D. in chemistry from Virginia Commonwealth University. Mr. Anzelotti is active in the community and is a member of the American Chemical Society and the Oak Ridge Environmental Quality Board. He is interested in environmental and public health issues.



Candace Atkinson is the lead 911 dispatcher for the Anderson County Sheriff's Office. She earned a bachelor of science degree in Occupational Safety and Health from Eastern Kentucky University holds a variety of healthrelated certifications related to her career in law enforcement and emergency services, including CPR and safety communications. She also holds various

Candace Atkinson

certifications from the Federal Emergency Management Agency (FEMA). She is a member of the Omega Nu Lambda National Honor Society and the Southern States Police Benevolent Association. Candace is interested in environmental, civic and public health issues. She lives in Oak Ridge.



Kris Bartholomew



Raiyan Bhuiyan

Kris Bartholomew is the owner of Turn Key Plumbing and Construction, a small family-owned business. A high school graduate with some college, Kris has received licensures related to his trade. Those licenses include general contractor and subsurface sewage installer. He is interested in environmental and public health issues. He lives in Lenoir City.

Raiyan Bhuiyan is earned a bachelor of science degree in Nuclear Energy Engineering Technology from Thomas Edison State University, where he was a recipient of the Nuclear Regulatory Commission Scholarship. He was also a graduate of the Naval Power School during his time serving in the U.S. Navy and has received certifications in CPR and as an IBM Data Science

Professional. Raiyan is interested in environmental and workforce issues. He lives in Oak Ridge.



Mary Butler



pharmacist with Aurora Pharmacy. She received a bachelor of science in pharmacy from the University of Wisconsin. She retired to Rockwood in 2020 and is eager to engage in the community here as she was previously active in several organizations in her native Wisconsin. Mary is interested in civic and educational issues.

Mary Butler is a former staff

Harold Conner, Jr., is a senior engineering advisor with Strata-G. In this role, he focuses on supporting community outreach, university partnerships, student internships and mentoring. Harold is a former K-25 plant manager, serving from 1968-1996. He has bachelor of science and master of science degrees in Chemical Engineering from

Harold Conner, Jr.

the University of Tennessee, Knoxville (UT), where he was the program's first African American graduate in 1968. He received his Ph.D. in Industrial and Systems Engineering from the University of Alabama at Huntsville. He is active in many community organizations including: the UT Knoxville Alumni board; the UT Tickle College of Engineering board; the STEM Scouts board; the American Museum of Science and Energy board; and Strata-G's board. He is a fellow of the American Institute of Chemical Engineers and the American Society for Engineering Management. He is also a lifetime member of the National Society of Black Engineers and the National Organization of Black Chemists and Chemical Engineers. Harold lives in Knoxville and is interested in educational and minority issues.



Paul Dill retired in 2018 as a project manager with Project Enhancement Corp. He received a B.S. in industrial engineering/technology management from Roger Williams University and an M.A. in psychology from Ashford University. Mr. Dill also earned a Master Project Manager certification from the American Academy of Project Management. He is currently an

Paul Dill

associate member of the American Psychological Association and a member of the Society for Personality and Social Psychology. Mr. Dill lives in Oliver Springs, which includes portions of Anderson, Roane, and Morgan counties. He is interested in environmental and public health issues.

(Continued on page 17)



Thomas Geissberger is a recent college graduate who works at the Knoxville Area Rescue Mission and was previously employed as a team director for the Tennessee Clean Water Network nonprofit since 2019. He graduated with a B.S. in Geology and Environmental Studies from the University of Tennessee in 2020 and received an A.A. in General

Rosario Gonzalez is a returning board

2018. She recently retired as cafeteria manager of St. Mary's Catholic Church

member who served from 2016 through

Cafeteria in Oak Ridge. She completed

her secondary education in Mexico and

received her GED from Pellissippi State.

She lives in Oak Ridge and is interested in environmental and minority issues.

Steve Pyatt Insurance and a licensed agent

Amy Jones is the agency manager for

for Madison Insurance Group, serving

as senior benefits coordinator for their

agent at Stephenson Realty & Auction.

She owned her own business, Double

as lead agent for their Georgia office and

Medicare division. She is also a real estate

Thomas Geissberger

Studies from Pellissippi State Community College. He is a member of the Phi Sigma Theta National Honor Society and Phi Kappa Phi Honor Society, completed the tnAchieves Program, and was selected for the Oak Ride Associated Universities Higher Education Research Experience Program during his time as a student. He is interested in environmental and public health issues and lives in Knoxville.



Rosario Gonzalez



Amy Jones J Enterprises of TN, in Rocky Top, Tennessee, for more than 20 years. Amy is active in a variety of community organizations, including the Anderson County Chamber of Commerce, the Anderson County Headstart Policy Council, the Women's Ministry Banquet at Main Street Baptist, the Anderson County Republican Party, the Tennessee Republican Party, the Order of Amaranth, and the Order of the Eastern Star. She founded Christmas for Rocky Top Kids in 2018. She lives in Bricveille and is interested environmental, economic, and county government issues.



Noah Keebler

Noah Keebler is a nuclear electronics technician with Ametek, which is a manufacturer of electronic instruments and electromechanical devices. Prior to that he was a radiological instrumentation specialist with Perma-fix Environmental Services. Mr. Keebler received an A.S. in Electrical Engineering from Roane State Community College. He holds a

certification in Instrumentation from Ludlum Measurements and several other work-related certifications. Noah has Occupational Safety and Health Administration training, electrical safety experience and radiation worker training and is a member of the East Tennessee Chapter of the Health Physics Society. He has an interest in environmental issues. He lives in Knoxville.



Michelle (Shell) Lohmann is the human resources director for U.S. Cellular. Previously, she was the program manager for the University Recruiting and Graduate Education Programs for Oak Ridge National Laboratory/University of Tennessee in Knoxville. Shell is a member of the United Way of Greater

Shell Lohmann

Knoxville and has an interest in labor and environmental issues. A high school graduate, Shell lives in Lenoir City.



Mike Mark



Michael (Mike) Mark is a former first responder and hazmat professional. He earned a high school diploma and has many certifications related to his career. He lives in Harriman and is interested in environmental and economic development issues.

Thomas McCormick is the city manager for the Town of Oliver Springs, which includes portions of Anderson, Roane, and Morgan counties. He received a B.S. in political science from Middle Tennessee State University. He also has numerous certifications from the State of Tennessee, including as a water and wastewater treatment plant operator. He lives in Oliver Springs and is interested

Thomas McCormick

in city/county government and environmental issues.



Ann (Harriett) McCurdy retired in 2014 after more than 40 years as a teacher for middle- and high-school students both in the United States and abroad, with a focus on the sciences. Most recently she served as a teacher of science and biology for grades 6-10 at Yangon Academy in Yangon, Myanmar. Prior to that, she taught a variety of science courses and

Harriett McCurdy

environmental studies courses in China, Morocco, Kuwait, and Ecuador. Harriett received an M.A. in teaching biology and her teaching certificate from Washington University and a B.A. in biology from Earlham College. She is president

(Continued on page 18)

Page 17

of the Oak Ridge League of Women Voters and a member of Tennessee Citizens for Wilderness Planning, which is dedicated to achieving and perpetuating protection of natural lands and waters by means of public ownership, legislation, or cooperation of the private sector with a focus on the Cumberland and Appalachian regions of Tennessee. Harriett lives in Oak Ridge and is interested in educational and environmental issues.



Christine Michaels is president of the Oak Ridge Chamber of Commerce. She received a bachelor of science in Public Relations from Empire State College and has an Economic Gardening Certification for entrepreneurial economic development and an Institute for Organization Management certification from the U.S. Chamber of Commerce. She is a member

Christine Michaels

of several organizations including: the Anderson County Economic Development Board, Adventure Anderson County (tourism board), Altrusa Foundation Board, Flatwater Tales Storytelling Festival Committee, and the East Tennessee Economic Development Board. She is a Paul Harris Fellow with the Rotary Club. Christine lives in Oak Ridge and is interested in economic development and business issues.



Charles Moore is a source house technician with Mirion Technologies and is pursuing a degree in chemistry from Roane State Community College. He is interested in economic development and environmental issues. He lives in Knoxville.

Charles Moore



Michael Sharpe

Michael Sharpe is a SharePoint administrator and performs other technology- and web-based tasks for Oak Ridge Associated Universities, which manages the Oak Ridge Institute for Science and Education for DOE. It provides science, education, workforce development, and health services that include some OREM areas such as

decontamination verifications to support cleanup. He received a B.S. in business administration from Tusculum University and an A.S. in computer programming from ITT Technical Institute. He is interested in civic and environmental issues and lives in Lenoir City.



Tonya Shannon works in accounts payable in the finance department for Morgan County and serves as a funeral director through Service Corp. International. She lives in Wartburg and is interested in public health and civic issues.

Tonya Shannon



Leon Shields is the supervisor for field operations for the Lenoir City Utilities Board. He is also the owner of Instructional Concepts, which provides training in industrial, public, and private application of firearms, explosives, vehicle extrication, and rescue operations. He is a firearms instructor/deputy for the Loudon County Sheriff's Office, an

Leon Shields

instructor/third party examiner for the State of Tennessee, a firefighter director with Loudon County Fire Rescue, Chairman of the Lenoir City Planning Commission/Board of Zoning Appeals, a Commissioner with the Lenoir City Housing Authority/Rural Development, and a Commissioner with the Loudon County Regional Planning Commission. A high school graduate, Leon is a member of a number of civic organizations, including the Boys and Girls Clubs of Tennessee Valley, Lenoir City High School Technical Advisory Board, the local chamber of commerce, and others. Leon lives in Lenoir City and has an interest in civic issues.



Bonnie Shoemaker retired in 2008 after 34 years at the DOE East Tennessee Technology Park and ORNL working in a variety of capacities, including chemical laboratory analyst, environmental compliance specialist, plant shift superintendent, emergency management specialist, and engineering technician. She is the recipient of two

Bonnie Shoemaker

awards for operations and technical support in environmental compliance and emergency management. Bonnie received her B.S. in Biology from UT. She has an interest in environmental and public health issues. Bonnie lives in Clinton. She was appointed to the board in June 2017.



Rachel Stewart is a recent UT Knoxville graduate with a bachelor of arts in College Scholars with an emphasis on Environmental Justice and Radioactive Waste Management. She interned with the Nuclear Threat Initiative in Washington, DC, during the summer of 2023. Rachel lives in Knoxville and is interested in public health and minority issues.

Rachel Stewart

(Continued on page 19)



John Tapp is a civil and environmental engineer with nearly 50 years of experience in all areas of environmental protection and restoration, including private and public utility management, civil and environmental engineering, strategic planning, budgeting, and project development. John has recently worked as a Technical Assistance Consultant for

FEMA in the water and wastewater field with deployments to the US Virgin Islands and the California Camp Wildfire. Prior work included HDR-ICA Engineering, where he provided consulting in a broad range of areas, including environmental permitting and interaction with state and federal regulatory agencies, and work with the Kentucky Infrastructure Authority, where he managed the statewide planning effort for the Authority. He spent the majority of his career as a founding partner in Commonwealth Technology, an environmental and engineering consulting firm, and previously worked with the Kentucky Division of Water, the EPA, and the U.S. Public Health Service. John received his B.S. and M.S. degrees in Civil Engineering and his Ph.D. in Agricultural Engineering from the University of Kentucky. He has published more than 50 publications and papers. John has an interest in environmental and economic development issues. He is a member and past president of the Kentucky-Tennessee Water Environment Association, and a member of the Water Environment Federation, the Karns Community Club, and the Enhance Powell Committee. John lives in Powell.



Thomas Tuck

Thomas Tuck is a banking executive with TNBank. He served as president of the bank since 1995 and in March of 2020 transitioned to part-time employment as part of a leadership transition/retirement. He received a B.S. in business and marketing from the University of Tennessee and is a Certified Banker through the School of

Banking of the South. He is a member of boards of directors for local organizations including the Oak Ridge Chamber of Commerce, Oak Ridge Heritage & Preservation Association, and the East Tennessee Economic Council. He is a member of the Y-12 Community Relations Council. He is interested in civic issues and economic development. He lives in Knoxville.

Agency Liaisons

These individuals serve as points of contact between the board and their respective agencies. A DOE liaison must be present at all board meetings. TDEC and EPA liaisons are often on hand to contribute to discussion and answer board member questions.

Reservation.

John Arthur (Jay) Mullis II is the

Manager of the Department of Energy's Oak Ridge Office of Environmental Management (OREM). He is responsible

for safely executing the environmental

cleanup of the 32,400-acre Oak Ridge

Laura Wilkerson served as the OREM

Deputy Manager in 2023. She was recently promoted to Chief Engineer.



Samantha Urguhart-Foster represents the Environmental Protection Agency. She is part of the Superfund Division in the agency's Region 4 Office, which covers the Southeast.

Samantha Urguhart-Foster, EPA



Kristof Czartoryski is an environmental consultant with the Tennessee Department of Environment and Conservation. He is part of the agency's Division of Remediation in Oak Ridge.

Kristof Czartoryski TDEC



Jay Mullis



Laura Wilkerson



Melyssa Noe

Melyssa Noe took over as the board's Deputy Designated Federal Officer in April 2022. Previously, she served as the board's Alternate Deputy Designated Federal Officer. She is branch chief of program support in the Quality and Mission Support Division for OREM.



Roger Petrie

Roger Petrie serves as the board's Alternate Deputy Designated Federal Officer. He is the Federal Facility Agreement Project Manager for OREM.