



U.S. DEPARTMENT OF  
**ENERGY**

OFFICE OF  
ENVIRONMENTAL  
MANAGEMENT

# Southern States Energy Board

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Ellen Edge

*TEPP Program Manager/NTSF Program Lead*

Office of Packaging and Transportation

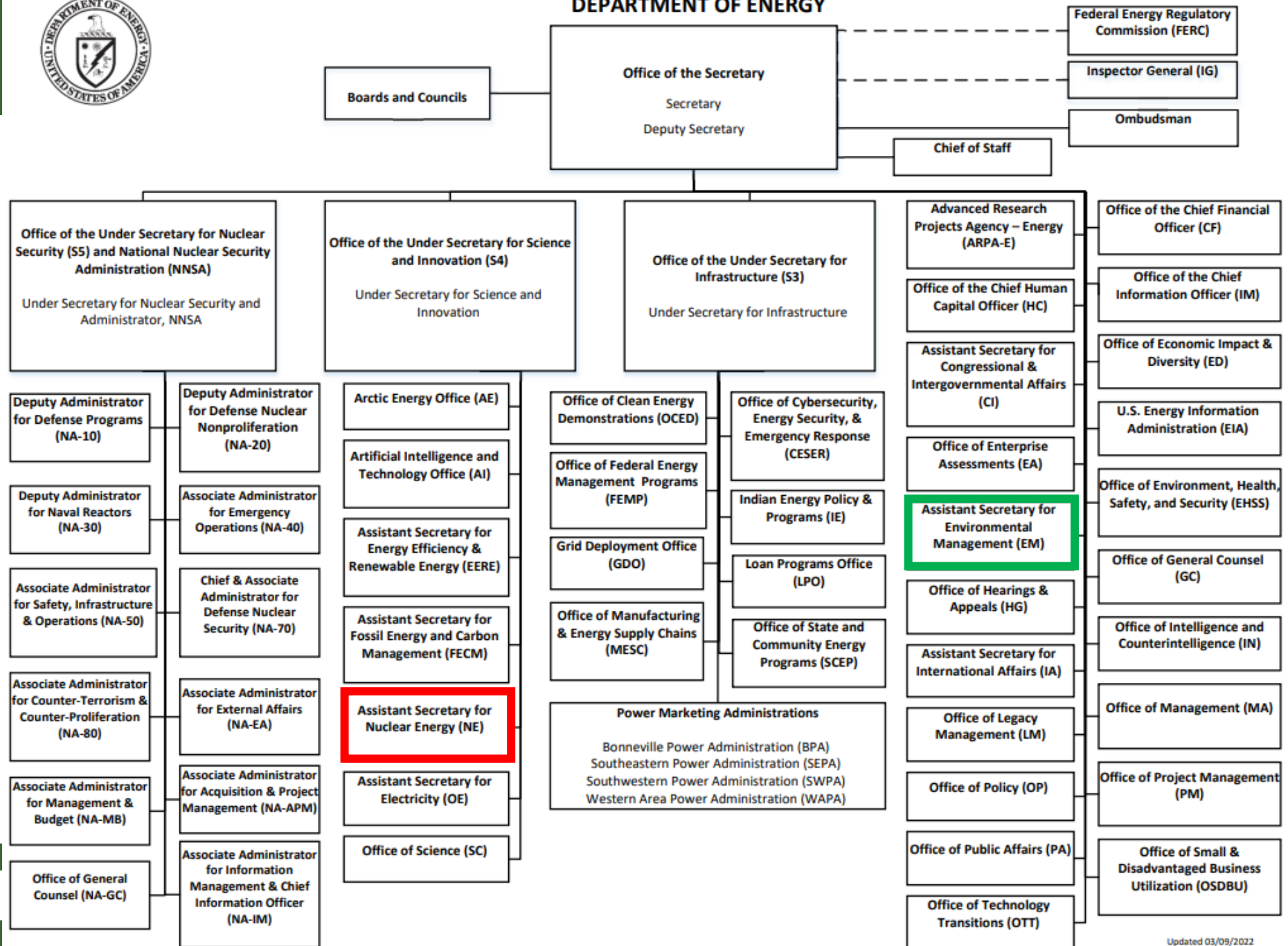
December 13, 2023

# Discussion Topics

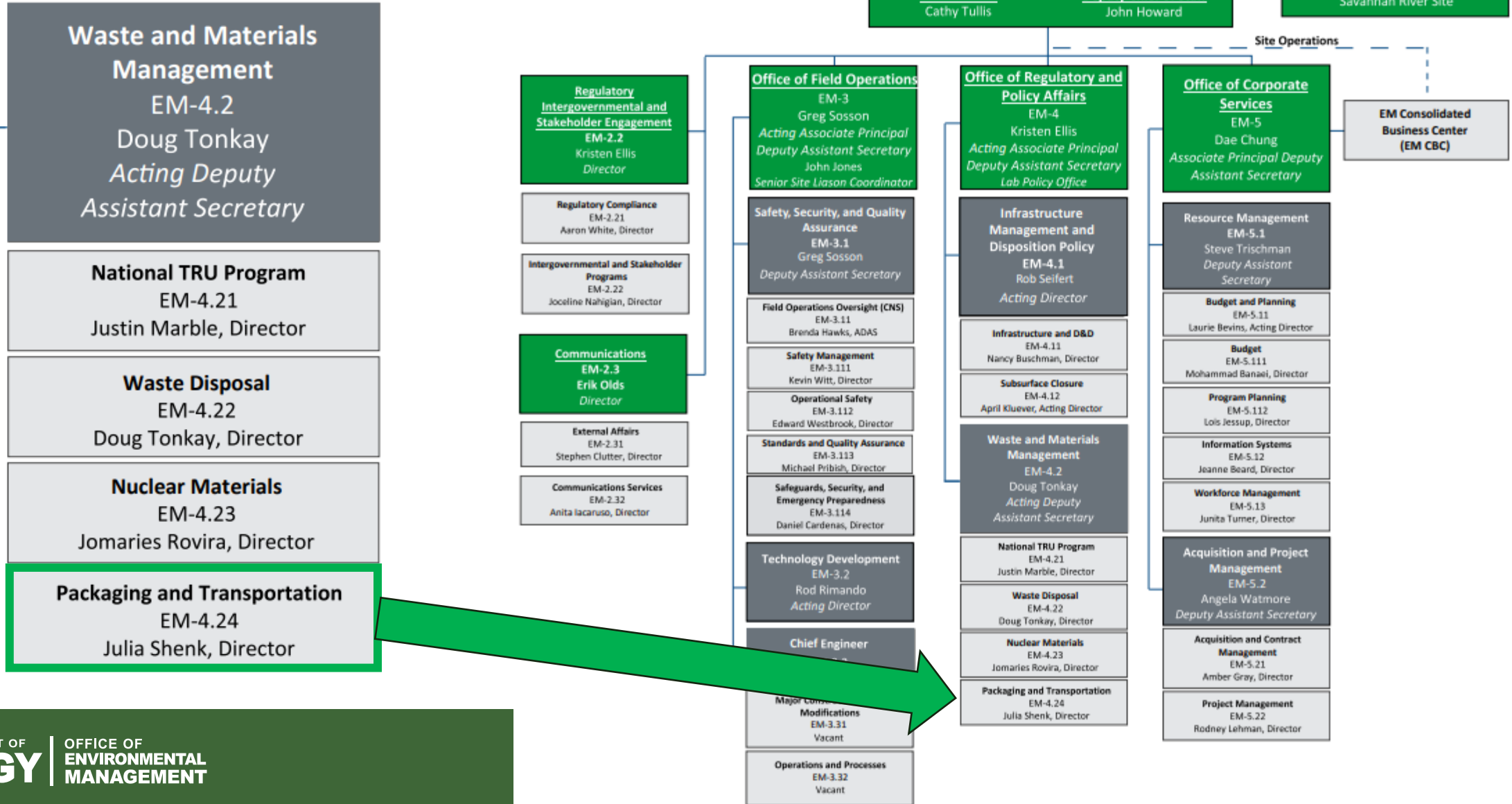
- Office of Environmental Management
- Portsmouth Update
- Office of Packaging and Transportation Update
- Transportation Compliance Assurance Program (TCAP)



# DEPARTMENT OF ENERGY



# Office of Environmental Management Org Chart September 26, 2023



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# DOE Environmental Management Office's Mission: CLEANUP

## EM Sites



- EM's mission is to safely and efficiently address the environmental liability resulting from decades of nuclear weapons production and government-sponsored nuclear energy research
- The production and research work resulted in environmental contamination at 107 sites throughout the United States, housing more than 5,000 contaminated facilities
- Remediation included liquid radioactive waste, plutonium, depleted uranium, contaminated soil, and contaminated groundwater

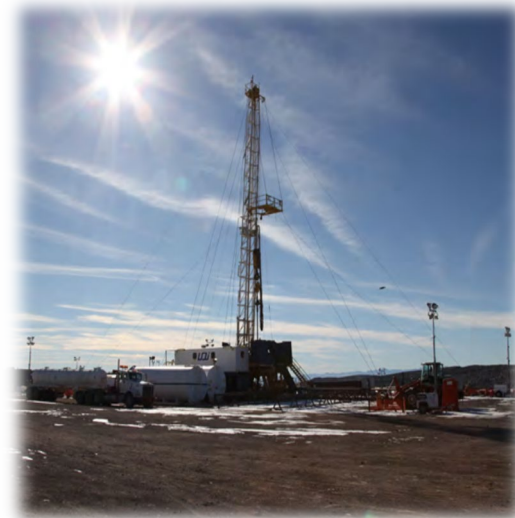




# Significant Mission Progress



- Over the past three decades, EM achieved significant and lasting progress in tackling this environmental legacy
- EM eliminated, or mitigated, at most sites the environmental, safety, and health risks from the most dangerous legacy wastes and contaminated facilities
- Contaminant pathways have been effectively controlled in groundwater and soils
- The program's combined active remediation footprint has been reduced by 90%, from approximately 3,300 square miles to less than 300
- Significant legacy cleanup work remains at 15 sites



# Success Through Collaboration

- 30+ years of EM cleanup underpinned by 30 years of stakeholder engagement
- DOE / EM Guiding Principles
  - Openness
  - Transparency
  - Stakeholder consideration
- Multi-tiered public engagement shapes understanding and policy, while helping to advance EM success.





# Example of Success

Public and intergovernmental involvement is an essential component of DOE-EM's success. Through frequent and ongoing collaboration, DOE-EM has made significant progress in completing environmental cleanup and restoration.



Fernald (former EM cleanup site in Ohio)



Rocky Flats (former EM cleanup site in Colorado)



# Citizen Advisory Boards

- EM Site-Specific Advisory Boards (SSAB)
  - Hanford, Idaho, Los Alamos, Nevada, Oak Ridge, Paducah, Portsmouth, Savannah River
- EM Advisory Board (EMAB)
  - Provides independent and expert advice/recommendations for the EM Assistant Secretary



# Tribal Interaction and Consultation

- DOE consults with several Tribes around the EM Complex, pursuant to DOE Order 144.1 – American Indian and Alaska Native Tribal Government Policy.
- Field Offices located near tribal lands may have actions or projects that affect tribal rights or resources, to include cooperative agreements to support tribal involvement in DOE decisions.



# Tribes and Pueblos

| EM Site               | Tribal Nation(s)   |
|-----------------------|--|
| Hanford               | Confederated Tribes and Bands of the Yakama Nation (WA)<br>Confederated Tribes of the Umatilla Indian Reservation (OR)<br>Nez Perce Tribe (ID)<br>Wanapum Band of Indians (WA) |
| ETEC                  | Santa Ynez Band of Chumash Indians   |
| Idaho                 | Shoshone-Bannock Tribes  |
| Los Alamos            | San Ildefonso Pueblo<br>Cochiti Pueblo<br>Santa Clara Pueblo<br>Jemez Pueblo   |
| Nevada                | Consolidated Group of Tribes and Organizations (CGTO)  |
| West Valley           | Seneca Nation of Indians   |
| Carlsbad Field Office | Nambe Pueblo<br>Pojoaque Pueblo<br>San Ildefonso Pueblo<br>Tesuque Pueblo<br>Shoshone-Bannock Tribes<br>Confederated Tribes of the Umatilla Indian Reservation                 |



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# Update on the Office of Packaging and Transportation

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# Our OPT Mission

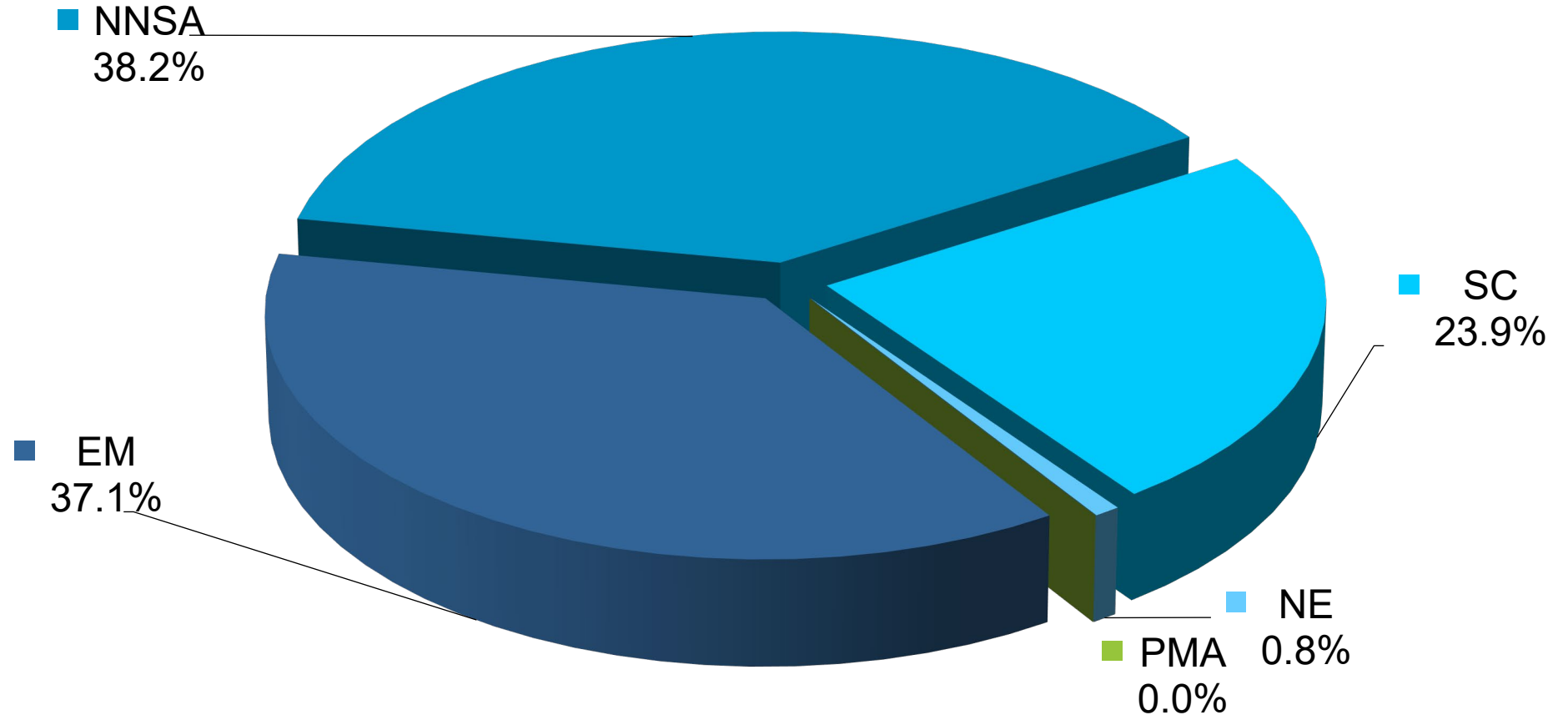
The Office of Packaging and Transportation protects people and the environment by ensuring safe, compliant, and efficient packaging and transportation of materials critical to successful Department operations. We achieve this mission by conducting packaging and transportation assessments and oversight; assisting field sites; and developing, managing, and advocating policies, orders, guidance and tools in accordance with DOE requirements and government regulations.



# FY23 DOE Offsite HAZMAT Shipments by Program\*

\*Data Pulled  
before FY23  
completion, in  
September, 2023

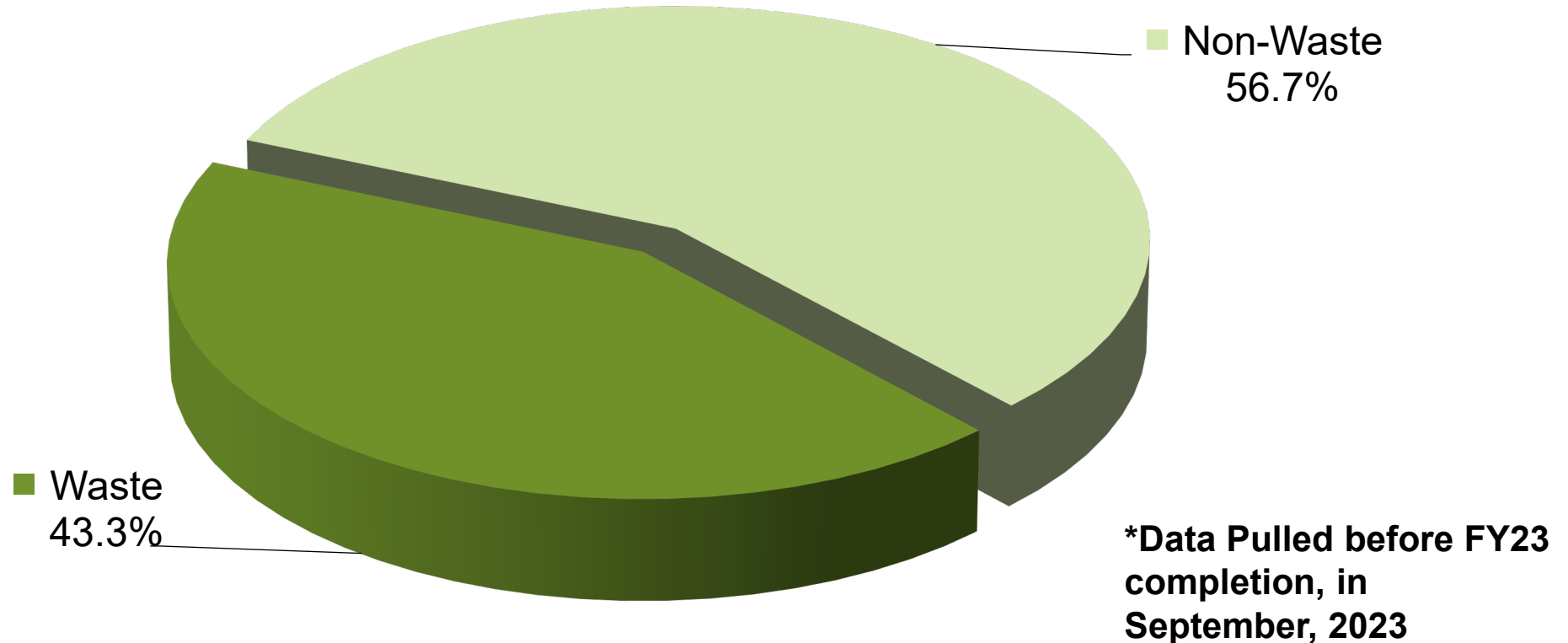
|       |       |
|-------|-------|
| EM    | 1,246 |
| NE    | 27    |
| SC    | 804   |
| NNSA  | 1,283 |
| PMA   | 0**   |
| Total | 3,360 |



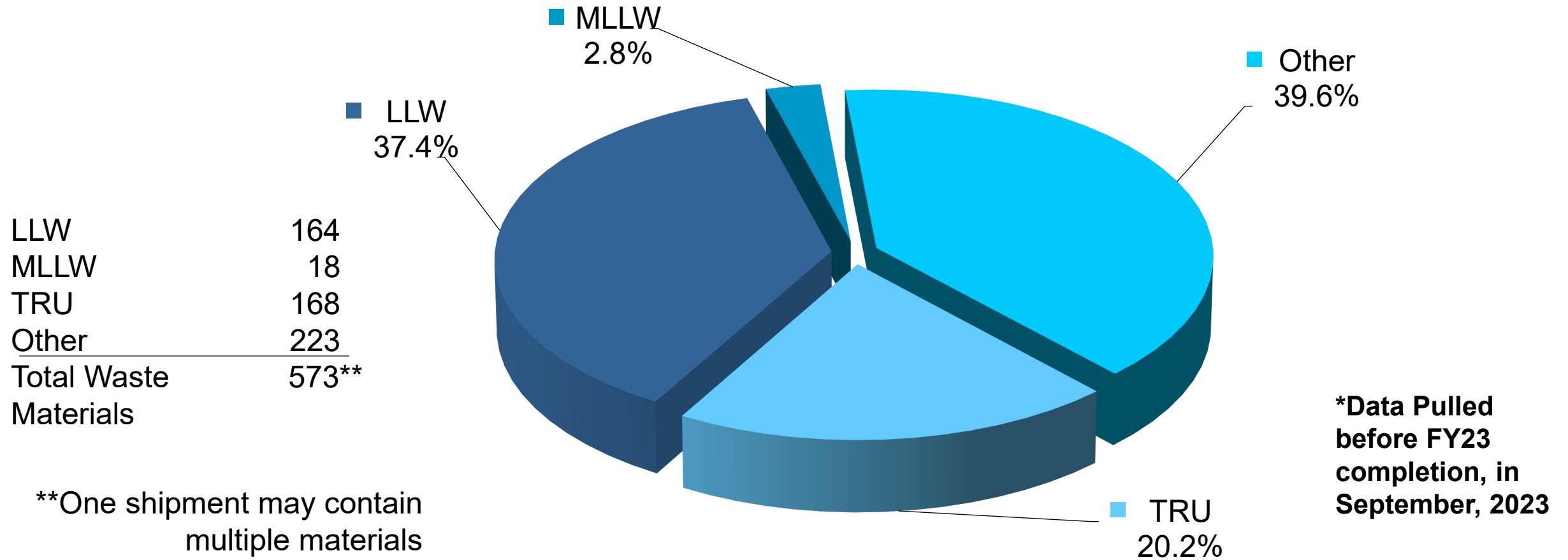
# FY23 EM Offsite HAZMAT Shipments\*

|           |         |
|-----------|---------|
| Waste     | 540     |
| Non-Waste | 708     |
| <hr/>     |         |
| Total     | 1,248** |

\*\*One shipment may contain both waste and non-waste



# FY23 EM Offsite HAZMAT Waste Materials Shipped\*





# National Transportation Stakeholders Forum

- Annual Meetings
  - The 2023 Annual Meeting was held in St. Louis, MO
  - The 2024 Annual Meeting will be held in Denver, CO
  - The 2025 Annual Meeting will be hosted by the Western Interstate Energy Board



# National Transportation Stakeholders Forum

- Webinars
  - 2023 Newcomers Orientation was held on May 9, 2023
  - Federal Railroad Administration (FRA) Safety Coordination and Compliance Oversight Plan (SCCOP) was held on September 28, 2023



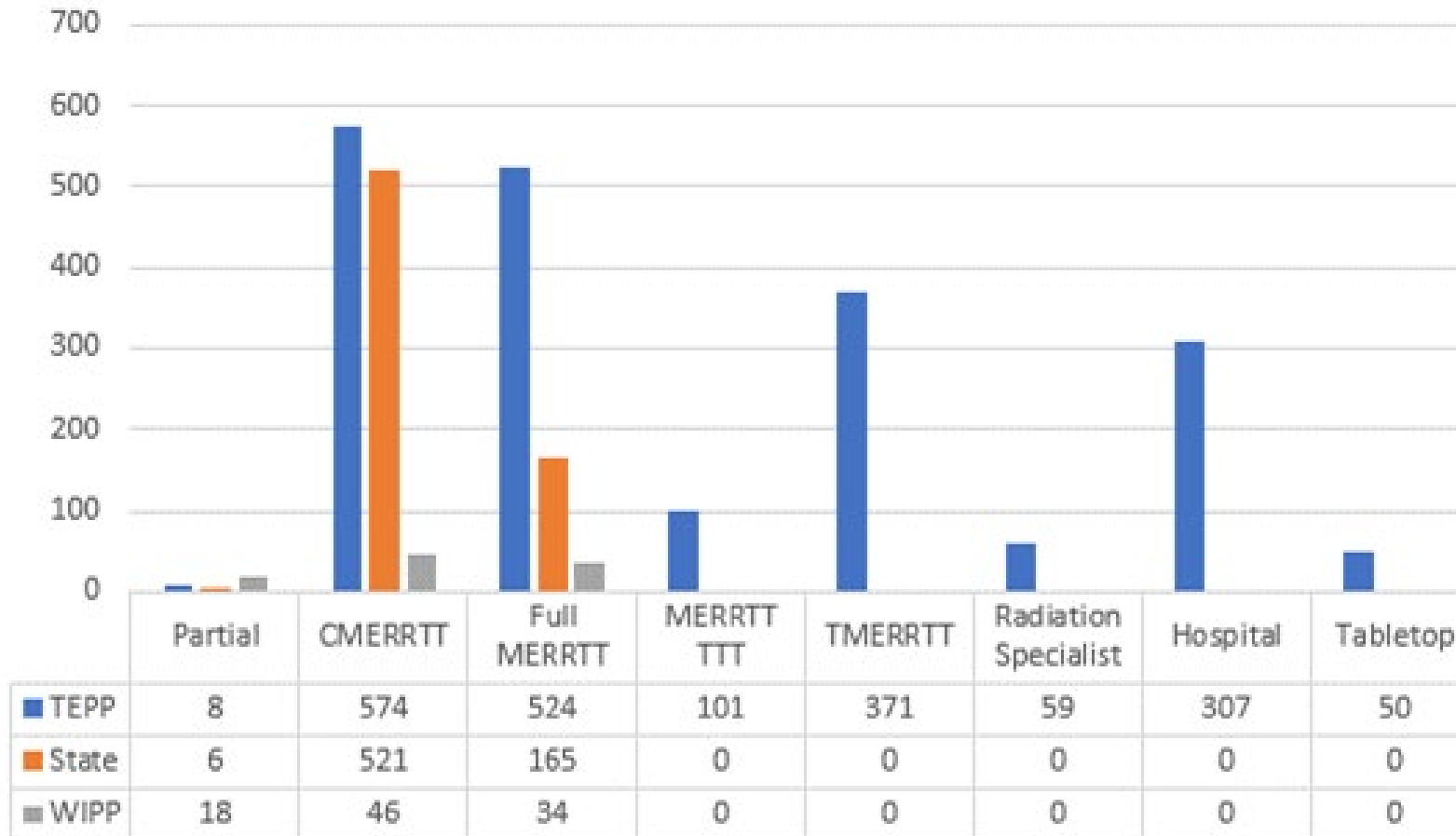
# National Transportation Stakeholders Forum

- *Ad Hoc Working Groups (AHWG)*
  - Management Plan updates are beginning in November 2023
  - Three Office of Nuclear Energy AHWGs are currently active



# Transportation Emergency Preparedness Program (TEPP)

FY '23 Total TEPP Trained







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# Transportation Compliance Assurance Program (TCAP)

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**Prakash Kunjeer, Program Manager**

# TCAP Purpose

- Systematic approach to evaluate and ensure compliance with applicable regulations, policies and Orders
- Identify opportunities for process improvements for P&T operations
- Share lessons learned and best practices from other sites

# TCAP History

- Department of Energy (DOE) Order 460.2, Departmental Materials Transportation and Packaging Management, requires DOE organizations and their contractors to ensure that all packaging and transportation operations across the DOE complex are fully compliant with all applicable international, federal, state, tribal, and local laws, rules, and regulations.
- At the contractor level, DOE Order 460.2 contractor requirements document (CRD also requires that self-assessments of packaging and transportation operations are performed, at a minimum, every three years.
- EM Chief Operating Officer has identified OPT as the Office responsible for the development and execution of this program (memorandum dated August 23, 2011).

# TCAP Roles and Responsibilities

- EM Senior Advisor: Administers DOE Order 460.2B
- OPT:
  - Evaluates and ensures compliance of packaging and transportation (P&T) activities
  - Provides assistance to Field Offices in meeting Order requirements
- Field Office Management : Oversight of P&T safety and operations
- TCAP Program Manager:
  - Develops & maintains TCAP policies & procedures
  - Coordinates & supports field TCAP activities with federal Team Lead
- Field Office Point of Contact (POC): Coordinates with OPT for the TCAP assessments
- TCAP Team Lead
  - Plans, coordinates and communicates TCAP assessment
  - Documents results to Field Office Manager via OPT



# TCAP Process

The TCAP process consists of:

- 1) Identifying the DOE site to be evaluated
- 2) Self-Assessment performed by Contractor
- 3) Onsite evaluation performed by TCAP Team
- 4) Draft Report issued for a factual accuracy reviewed by all parties
- 5) Final Report issued to site management
- 6) Corrective Actions Plan (CAP)
- 7) Closeout memorandum by TCAP Program Manager to Field Office POC at completion of corrective actions.

# TCAP Checklists

- All checklists reviewed and revised according to subject matter experts across the DOE complex. They have been updated to reflect applicable regulatory requirement updates (e.g., 49CFR 100-185), as well as any updates or changes to applicable DOE directives (e.g., DOE 460.2B).
- The checklists are stand alone documents supporting the TCAP Management Plan Performance Objectives and provide evaluation criteria.
- The checklists will be revised as necessary to remain current with applicable DOE Orders and regulatory requirements.

# TCAP Performance Objectives

- P&T Quality Assurance
- **Hazmat Packaging**
- Hazmat Shipper
- **Transportation Management**
- Contractor Motor Carrier Operations
- **Onsite Railroad Operations**
- Transportation Emergency Response
- **Hazmat Employee Training**
- Transportation Security Plan
- **Waste Characterization Process**
- Transportation Safety Documents

# TCAP Results

- **Best Business Practices:** Activities and practices that demonstrate gains in effectiveness and/or efficiency in the areas of safety, compliance, cost and/or mission milestones. These practices may be shared with other sites as lessons learned and opportunities for improvement.
- **Findings:** Practices and/or procedures that are considered to be in violation of federal regulations, DOE Orders, or other applicable regulatory and policy requirements.

**Note:** Findings will require corrective actions.



# TCAP Performance Levels

- Observations: Practices and/or procedures that are not considered to be in violation of federal regulations, DOE Orders, or other applicable regulatory and policy requirements; however, if no remedial actions are taken could potentially result in a violation.
- Opportunities for Improvement: Operational improvements suggested by subject matter experts or the TCAP team based on recognized practices at other DOE sites or in the private sector to enhance P&T operations.

**Note:** Adopting suggestions is at the sole discretion of the site or contractor.

# Contacts

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# QUESTIONS?

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