

# Reflections from DOE Sites on Implementing EMS 15 Years of Best Practices

**Una Song** 

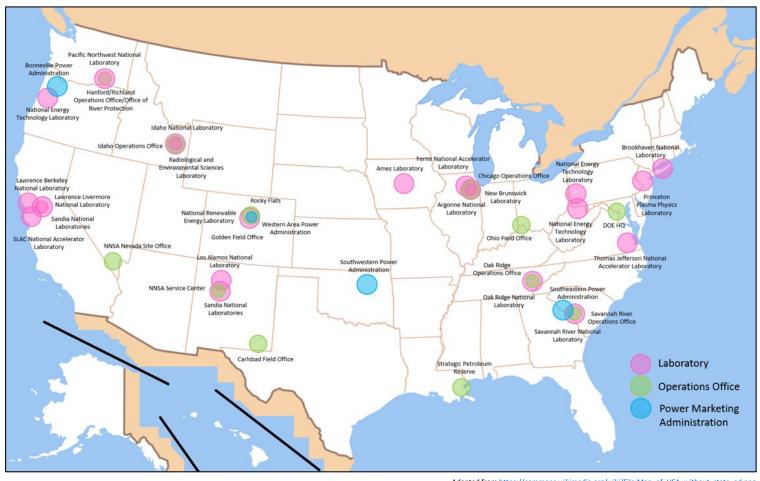
U.S. Department of Energy (DOE)

Office of Sustainable Environmental Stewardship





## **DOE Locations**



Adapted from https://commons.wikimedia.org/wiki/File:Map of USA without state ad.png



### DOE Use of EMS and ISO 14001

- Since 2005, all DOE sites have had an ISO 14001-compliant Environmental Management System (EMS) in place
- DOE Order 436.1, Departmental Sustainability (2011)
  - "DOE sites must use EMS(s) as a platform for [Site Sustainability Plan] implementation and programs with objectives and measurable targets that contribute to the Department meeting its sustainability goals."
- AU21-16-N1-0050 Memorandum for Distribution: Departmental Use of Environmental Management Systems (2017)
  - Clarifies EMS implementation and maintenance, in the absence of affirmative federal guidance

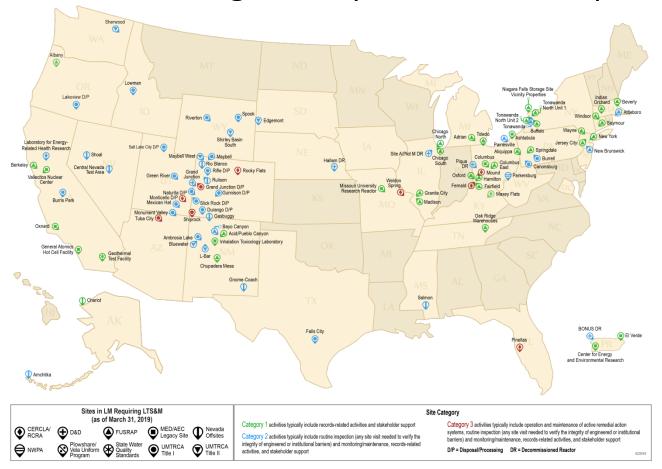


#### **DOE Site Best Practices**

 Placeholder – the sites will present and then I will present the rest of the slides in this deck.

# DOE Office of Legacy Management

Responsible for ensuring DOE's post-closure responsibilities are met





# Legacy Management Challenges

- Large number of dispersed sites with varying activities
  - 94 sites in 28 states and Puerto Rico; expecting to receive approximately 32 additional sites by 2028
  - Complexity is added because regulations vary between regions, states, and tribes
  - Complexity is added because physical conditions and the climate vary from site to site
- Small work force distributed across 10 offices in 8 states
- As new sites and scope are added, LM evaluates and monitors compliance requirements, sustainability goals, and related funding and then adjusts its EMS accordingly
- Achieving sustainability goals is an ongoing challenge
  - Recent mission expansion will increase the LM activities that are subject to the sustainability goals
  - Timely collection, evaluation, and reporting of data from many sites



## Legacy Management Best Practices

- Solution: one enterprise-wide EMS that covers all sites and offices
  - Compels use of virtual teams for most functions
  - As new sites and scope are added, LM evaluates and monitors compliance requirements, sustainability goals, and related funding and then adapts its EMS accordingly

#### • Benefits:

- Use of team members from multiple functional areas and staffed sites improves overall breadth and depth of operational knowledge and efficiencies
- Reduces time and materials and increases cost savings when developing, reviewing, and issuing programmatic reports covering all sites
- Allows for implementing sustainability projects at the sites that would allow us to achieve the goals most cost-effectively



## Questions

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## Additional Information



# Legacy Management Best Practices (continued)

- Solution: Developed/implemented a joint system between LM and Contractor
  - Collaboratively maintain the EMS

#### • Benefits:

- Improves effectiveness through sound management with support from both sides
- Allows response to changing circumstances and quick adaptation of the EMS
- Reduces time and materials and increases cost savings when developing, reviewing, and issuing joint manuals, as well as conducting audits and assessments
- Increases communications leading to better understanding of work scope,
  planning, roles, responsibilities, and authorities and Security



# Legacy Management Best Practices (continued)

- Leadership (collaboration between LM and contractor senior management)
  - Jointly signed Workforce Environment, Safety, and Health Posture
  - Approve over-arching manuals and reports
  - Participate in Management Review and evaluate the EMS
- Integration into business operations
  - The Contractor's Environmental Compliance Group is integrated into program/project implementation to ensure activities are performed with the highest degree of environmental protection and safety in mind
  - Established an Environmental Review Form to identify potential environmental impacts and concerns of proposed actions earlier in the work planning process
  - Conducts site inspections to identify changing conditions early and, if necessary, act to ensure protection of human health and the environment



# Legacy Management Best Practices (continued)

- Communications
  - Regularly meets with stakeholders to provide status updates on sites
    - Enhances transparency
    - Improves external communication
    - 71 public meetings in the past year
  - Post-programmatic information and reports on the LM website
    - o Site Sustainability Plans, Annual Site Environmental Reports (ASER), EMS/Facility Reports
    - Program Update newsletter sent to more than 14,000 stakeholders quarterly
- Training
  - New EMS team members are given a welcome package to assist with initial learning of their roles, responsibilities, and the EMS
- Management Review
  - Distribute materials quarterly and hold an annual meeting (trends and cumulative information) for review and evaluation