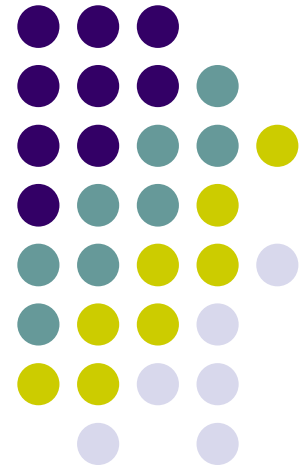


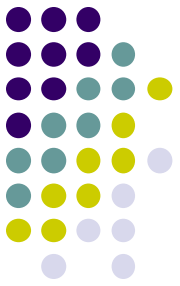
# Waste Management Working Group FY2021 EFCOG Annual Meeting



Renee Echols  
Firewater Associates, LLC  
Working Group Chair  
June 9, 2021

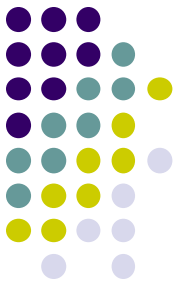


# Waste Management Working Group



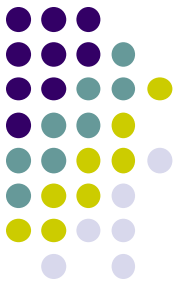
- WMWVG Leadership:
  - Renee Echols, Chair, Firewater
  - Tammy Monday, Vice Chair, Studsvik
  - Jeff England, Secretary, NAC International
  - DOE Liaisons
    - Mark Senderling, DOE EM4.2
    - Ahmad Al-Daouk, NNSA NA-53
  - EFCOG Sponsoring Director
    - Billy Morrison, Veolia

# WMWG



- Subgroups:
  - Challenging Waste
    - Tammy Monday, Chair, Studsvik
    - Dan Dilday, Vice Chair, Argonne National Lab
  - Decontamination & Decommissioning
    - Dan Macias, Chair, UCOR
    - John Wrapp, Vice Chair, UCOR
  - Packaging & Transportation
    - Paul Jones, Chair, Perma-Fix
    - Cavanaugh Mims, Vice Chair, Turnkey
  - Transuranic Waste (new)
    - Dan Pancake, Chair, Argonne National Lab

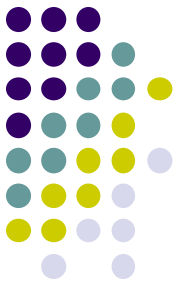
# EFCOG Strategic Initiatives



- Waste Management organizations provide support to ensure continued operations at DOE sites.
- During COVID, these organizations continued working to maintain waste in a safe configuration or shipped to disposal.
- The WMWG shares lessons learned that are vital to safe and compliant waste management practices.

# WMWG Dashboard

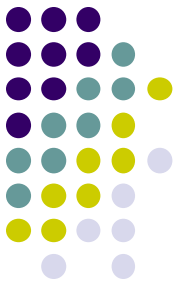
## FY21 Work Plan



Focus Area/ Activity	Deliverables	Accomplishments
Radioactive Waste Management DOE O 435.1 Provide technical support for order compliance, revision, disposal authorization statements for onsite cells, and 435.1 training	Training and Implementation strategy recommendations	Provided training module improvements and helped with modification for training to be conducted virtually.
	Technical assistance to LFRG for disposal requirements	Provided technical assistance and participated on LFRG reviews for ORO EMWMF Cell 6 Expansion; Idaho Calcine Bin Sets PA
Waste Management Best Practices	Develop and Present a Minimum of two Best Practices	Expanded on the DOE EA-31 complex wide assessment of waste management programs. Four BPs were developed and posted in collaboration with: Knolls Atomic Power Lab, NNSS, LANL, and Idaho AMWTP.

# WMWG Dashboard

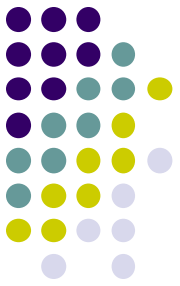
## FY21 Work Plan



Focus Area/ Activity	Deliverables	Accomplishments
Waste Classification Support	Provide technical support, document reviews, and comments for DOE waste classification initiatives (e.g., HLW interpretation, Less than 100 nCi/g TRU, etc.).	Support not requested this FY
DOE Problematic/Challenging Waste Disposition	Focus on identification and resolution of challenging waste streams, and support EM 4.2 as needed. Collect and track waste streams for future focus.	Selected sodium bearing waste stream (Hanford) to work for resolution to apply to other sites with sodium (Idaho, Oak Ridge). Hanford Prime contractor change/transition and other regulatory constraints have slowed progress on this initiative however, ongoing collaboration continues among sites.

# WMWG Dashboard

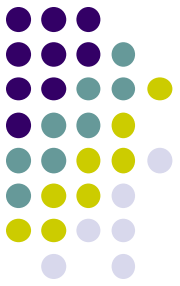
## FY21 Work Plan



Focus Area/ Activity	Deliverables	Accomplishments
Focus D&D Subgroup activities on waste generation issues.	Select D&D and waste management organization collaboration. First area selected to collaborate is Oak Ridge – how will D&D planning be impacted by high mercury and beryllium concentrations.	ORO has established a Mercury Review Committee for purpose of identifying and testing technologies that will address these contaminants. WMWG is providing technical support to the committee, and will provide support on technologies for testing, identifying possible challenging waste stream generation.
Nevada National Security Site Disposal Compliance Support. Goal is to minimize non-conformances for disposal that impact all generators.	Provide technical reviews, information sharing, and process improvements to assist EM-NV/RWAP for their efforts to increase regulator and stakeholder confidence in disposal compliance.	Provided corrective action document support, waste profile reviews, and other support as requested.

# WMWG Dashboard

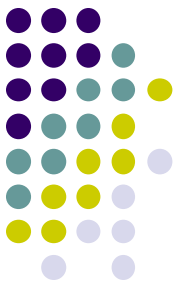
## FY21 Work Plan



Focus Area/ Activity	Deliverables	Accomplishments
<p>Transuranic (TRU) Waste forum to support EM and NNSA on WIPP Disposal Compliance. Goal is to minimize costs associated with non-conformances at WIPP.</p>	<p>Establish a subgroup, develop and charter and recruit leadership of the group.</p>	<p>Subgroup has been established and chair identified. Still working to finalize membership and charter.</p>
	<p>Focus on application of complex-wide lessons learned from events with TRU waste non-compliances. Specific focus will center on point of generation issues (“process side”).</p>	<p>Working with leadership from EM and its National TRU Program and NNSA to determine best path forward to support DOE and generators.</p>

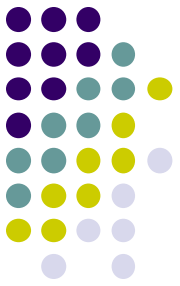


# FY 2022 Upcoming Focus Areas and Planned Achievements



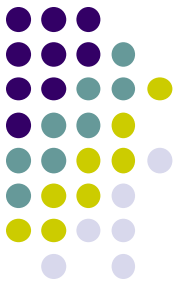
- EM's Strategic Vision 2021-2031 waste management issues/challenges:
  - Waste treatment technologies and regulatory solutions that support EM's vision – Mercury for ORO cleanup, tank wastes, miscellaneous legacy waste streams.
  - Support to NNSA for its waste management community of practice.
- Anticipated deliverables include:
  - Sodium bearing wastes technical paper;
  - Establishment of a technical forum to support TRU waste generators from EM and NNSA that facilitates engagement and communication.

# FY 2022 Upcoming Focus Areas and Planned Achievements



- Provide support of EM 4.2's renewed initiative for DOE O 435.1 revision.
- Continue to support 435.1 training.
- Continue support to LFRG.

# Coronavirus Impacts/Lessons Learned



- Our largest in person meeting – WM21 Conference was conducted virtually through support from the WM Symposia. Although we had good attendance (75+), difficult format to support dialogue and collaboration.
- It is more challenging for members to participate in WG activities during COVID due to competing work commitments, thus in person collaborations are preferred.
- We have begun planning restart of in-person meetings beginning at National Cleanup Workshop in September.