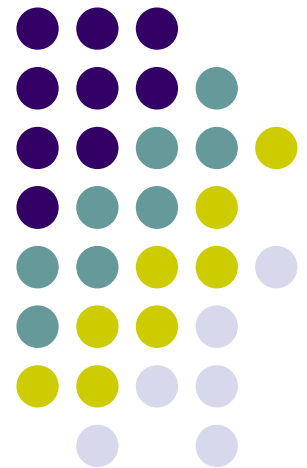


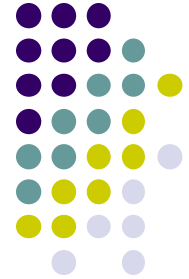
“EFCOG’s Knowledge Portal Review” 2013 Waste Management Symposium Adding Value and Providing Solutions



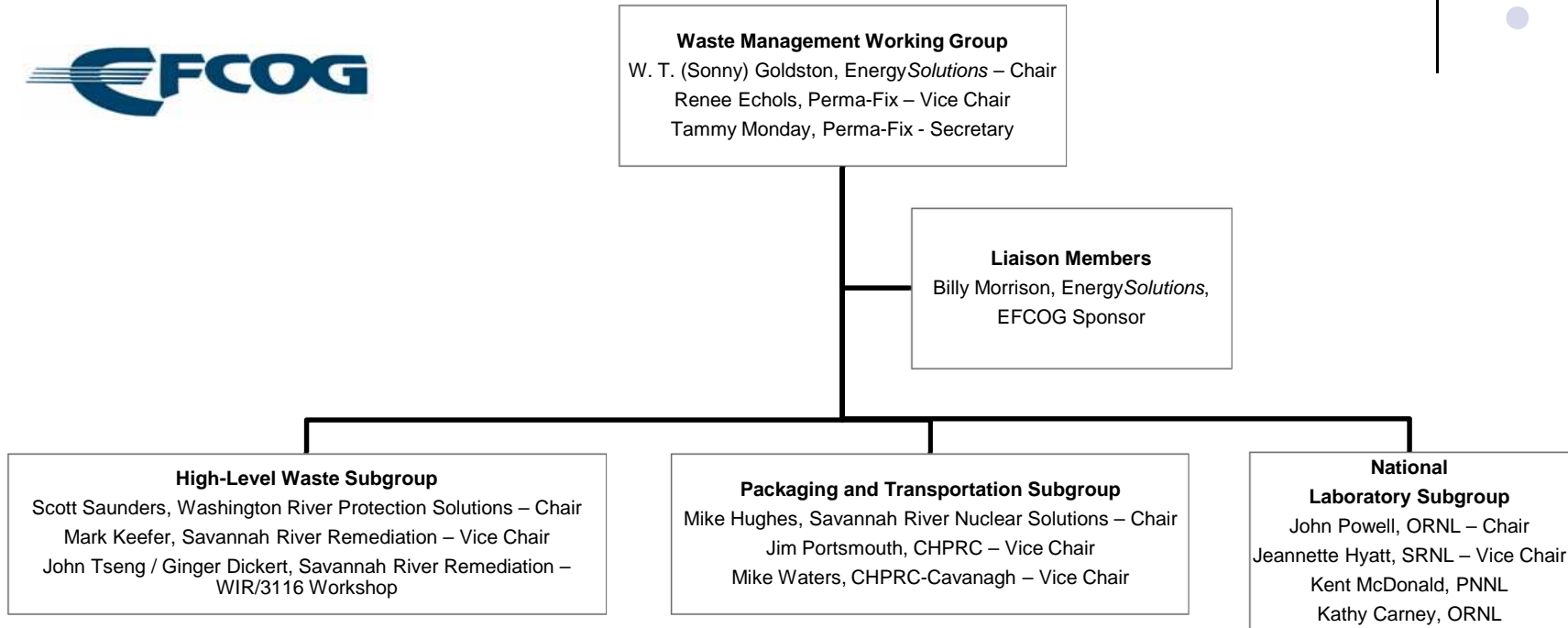
Presented by

Sonny Goldston, Chair
Waste Management Working Group
Panel Session 53
February 26, 2013





Waste Management Working Group



DOE-HQ Waste Management

Working Group Sponsors

Frank Marcinowski, EM-30
Christine Gelles, EM-30
Steve O'Connor, EM-33
Bill Levitan, EM-10
Randy Scott, NNSA
Dave Michlewicz, Science, SC-31
Ken Picha, EM-20
Jay Rhoderick, EM-20
Ahmad Al-Daouk, NNSA

Waste Management Working Group Organization Chart
Effective Date: January 31, 2013, (Rev. 6)

DOE Order 435.1A Rad Waste Complex-Wide Review



- Conducted by DOE and EFCOG members
- “Boots-on-the-ground” at all large DOE sites and paper review by most small sites (over 30 sites total)
- All recommendations were formally addressed
 - Some are areas for improvement (negative)
 - Some are suggestions for positive change (Best Practices) from implementation experience in the field
 - 68 Best Practices
 - 139 Areas for Improvement

DOE O 435.1A EFCOG Direct Input to Requirements & Guide



- Strengthen Radioactive Waste Management Basis
- Pre-generation planning (e.g., waste with no path to disposal)
- Storage – 1 year limit all waste types
- Disposal (non-DOE radioactive wastes (ownership))
- Unreviewed Waste Management Question Evaluation
- Protecting assumptions from PA/CA
- Consolidation for reduced risk, cost reduction, based on disposal PA
- Classification prior to Disposal – Guidance and EFCOG Library
- *CERCLA Institu Closure*

EFCOG Direct Input to High-level Waste Requirements



- The definition of HLW is made consistent with the Nuclear Waste Policy Act of 1982
- Includes National Defense Authorization Act for 2005, Section 3116 process
- Rewrites to the Waste Incidental to Reprocessing (WIR) technical basis, evaluation, and citation process
- The WIR Citation rewritten to provide guidance consistent with the EFCOG citation procedures written for SRS and West Valley (consistent with Hanford)
- The WIR Evaluation and 3116 process rewritten to take advantage of lessons learned from SRS Tank Closures and West Valley Melter

Low-level Waste Technical Requirements: Input by EFCOG



Chapter 1 – Disposal Authorization Statement Process

Chapter 2 – Performance Assessment

Chapter 3 – Composite Analysis

Chapter 4 – Closure Plan

Chapter 5 – PA/CA Monitoring Plan*

Chapter 6 – Waste Acceptance Criteria

Chapter 7 – PA/CA Maintenance Plan*

Chapter 8 – Unreviewed Disposal Question Evaluation*

Chapter 9 – Annual Summary*

Chapter 10 – Obtaining Waste Disposal Authorization

* Written and edited by EFCOG Team and input to others

EFCOG Review of DOE Order 435.1A



Started: August 31, 2012

Completed: January 24, 2013

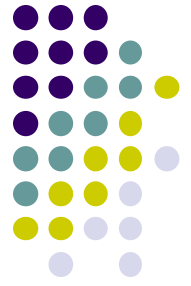
- DOE provided resolution to each comment
 - The EFCOG review resulted in 622 comments:
 - 17 companies provided comments
 - Order – 162 comments
 - Guide – 265 comments
 - DAS Technical Standard – 182 comments
 - TRU Technical Standard – 13 comments
- Path Forward
 - General Counsel Review
 - Public Review Period
 - Review Comments
 - Revcom
 - Issued for Training and Implementation

EGCOG Waste Management Working Group Solutions to DOE



- Lessons Learned WIR Workshop at WM13
- Interface with NRC performance-based revision to 10CFR61 regulations for LLW disposal
- Serve on EM's LLW, Tank Waste and TRU Waste Corporate Boards
- National Laboratory Subgroup provided NNSA Alternatives to Pump & Treat for Groundwater Remediation (significant life-cycle cost savings)
- National Laboratory Subgroup providing Remote-Handled TRU Waste packaging solutions

EGCOG Waste Management Working Group Solutions to DOE



- Packaging and Transportation Subgroup
 - Trailer and Supersack (solutions to reduce contamination events) Report to DOE Oct 2012
 - Hub concept for staging waste containers (East – West) – potential for significant cost savings – Study for DOE
 - DOT over-the-road contamination limits (49CFR173) vs. DOE release limits (10CFR835) Report to DOE
 - Suspect Counterfeit Bolts-Tiedowns Report to DOE
 - Advanced Traffic Management System/dose software replacement-IT governance with the BMWG