



Deactivation & Decommissioning and Facility Engineering (DD/FE) Working Group



**Waste Management 2008 Symposia Panel:
US DOE - Energy Facility Contractors Group's Knowledge Portal (EFCOG) Review
February 28, 2008, in Phoenix, AZ**

**By Russ Mellor, VP - Closure Sites Energy & Environment
Washington Group International**



PURPOSE

Deactivation & Decommissioning and Facility Engineering (DD/FE) Working Group

Partner with DOE Environmental Management's Office of Deactivation & Decommissioning and Facility Engineering in identifying and addressing key opportunities for improved performance in D&D safety and project execution across the DOE complex through application of experience, including lessons learned, and technology transfer.



WHO WE ARE

Deactivation & Decommissioning and Facility Engineering (DD/FE) Working Group

- EFCOG Sponsoring Director: George Jackson - Fluor
- DOE Sponsor: Yvette Collazo
- Steering Committee:
 - Mike Lackey - Fluor
 - Yvette Collazo
 - George Jackson
 - Joe Yanek - Fluor
 - John Longenecker - Longenecker & Associates
- Task Group Officers:
 - Chair: Mike Lackey
 - Vice Chair: Russ Mellor – URS Washington Division
 - Secretary: Lanny Dusek - Fluor
- 16 Active Members Comprise the Task Group
 - Represent a Diverse Mix of Companies and Sites



BRIEF HISTORY

Deactivation & Decommissioning and Facility Engineering (DD/FE) Working Group

- Task Group formation requested by EM in conjunction with a restructuring
- August 2006 Board approved proceeding with formation of the Task Group
- October 2006 Task Group kick off meeting held (17 attendees)
 - Charter adopted
 - Leadership elected
 - Actions initiated
- November 2006 Charter reviewed with Board
- December 2006 and February 2007 Task Group telephone conferences held
- March 2007 achieved Working Group status



ACTIVITIES

Deactivation & Decommissioning and Facility Engineering (DD/FE) Working Group

- March 6, 2007 – Working Group met at Hanford
 - Included tour of ALARA Center as model for potential creation of a D&D Knowledge Resource Center
 - Established three Task Groups to focus on specific actions
 - DOE 413.3A EM Clean-up Projects Guide Review
 - Independent Verification of Cleanup Initiative Review
 - D&D Knowledge Resource Center Creation
- April 19 and August 3, 2007– Working Group held telephone conferences
- August 14 – D&D Knowledge Resource Center Task Group met at Hanford



ACTIVITIES

Deactivation & Decommissioning and Facility Engineering (DD/FE) Working Group

- December 7 – Working Group met in Dallas, TX
 - Reviewed current projects
 - Assessed representation of current membership
 - Decided to pursue adding members from CWI in Idaho and from PNNL in Richland, WA
 - Identified two new initiatives to evaluate for action:
 - Promote safe open-air demolition of structures containing asbestos without prior abatement as the industry standard
 - Develop a product (e.g., brochure, video, or paper) that creates a compelling case for D&D; told within the context of DOE's "D&D Story"



REVIEW ACTIVITIES

Deactivation & Decommissioning and Facility Engineering (DD/FE) Working Group

- Working Group members are actively participating in DOE 413.3A EM Cleanup Projects Guide preparation
 - DOE is replacing DOE M413.3, “Project Management for the Acquisition of Capital Assets Manual” with a set of guides, one of which is “EM Cleanup Projects”

- Working Group members coordinated comments in May 2007 on the proposed EM Headquarters Authorized Limit and Independent Verification Business Plan
 - DOE is establishing a standard process for Independent Verification of Cleanup
 - DD/FE commented on release of real property (i.e., real estate)
 - RP commented on release of personal property (i.e., material leaving a site)



LESSONS LEARNED & BEST PRACTICES

Deactivation & Decommissioning and Facility Engineering (DD/FE) Working Group

- Presented papers on D&D Lessons Learned and Best Practices at conferences:
 - IAEA International Conference on Environmental Remediation and Radioactive Waste Management, Bruges, Belgium, September 2 – 6
 - ANS Decommissioning, Decontamination & Reutilization Topical Meeting, Chattanooga, TN, September 16 – 19

- Continued creating Best Practices to add to the new DD/FE Topical Area on the EFCOG Best Practices Web Site
 - 6 completed and uploaded to the site
 - 11 in progress



LESSONS LEARNED & BEST PRACTICES

Deactivation & Decommissioning and Facility Engineering (DD/FE) Working Group

- [Best Practice #49](#) - Evaluation and Control of Airborne Fungal Populations for Worker Protection during the Deactivation of an Abandoned Process Facility (U) (09/01/07)
- [Best Practice #50](#) - Post-Deactivation Surveillance and Maintenance of Excess Facilities (09/01/07)
- [Best Practice #51](#) - Use of Commercial Rigid Polyurethane Foam for Decontamination and Decommissioning (09/01/07)
- [Best Practice #52](#) - Implementation of NFPA Arc Flash Requirements in D&D (12/18/07)
- [Best Practice #53](#) - Assets for Value Contracts (12/18/07)
- [Best Practice #54](#) - Open Air Demolition of Radiological Contaminated Structures (02/19/08)



D&D KNOWLEDGE RESOURCE CENTER

Deactivation & Decommissioning and Facility Engineering (DD/FE) Working Group

Instituting a D&D Knowledge Resource Center to provide real-time solutions to D&D challenges across the DOE Complex

- Effort includes two pieces
 - Hotline
 - Database/website
 - Combine to form the Knowledge Resource Center
- D&D Hotline task team established
- Database development team formed
 - Florida International University is developing the database/website



D&D KNOWLEDGE RESOURCE CENTER

Deactivation & Decommissioning and Facility Engineering (DD/FE) Working Group

■ Hotline

- D&D Hotline has been established and is operational at the Hanford ALARA Center
- Call-in number is 509-376-0818
- “Hotline” points of contact (federal and contractor) have been identified at most DOE sites
 - The POCs provide information to the hotline staff about D&D efforts at their sites
 - The POCs field questions from hotline staff



D&D KNOWLEDGE RESOURCE CENTER

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■ Database/website

- Draft functional requirements document (FRD) has been developed
- Database has been developed and is being populated
- Website search capability of the database has been demonstrated



D&D KNOWLEDGE RESOURCE CENTER

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■ Hotline Next Steps

- Formalize the role of the site points of contact (POCs)
- Establish a sub-network of subject matter specialists (SMS) at each site
 - SMSs would support site POCs in answering questions and providing input on site activities via an SMS Data sheet.
 - The SMS data sheets would be additional input for the database
- Develop a 5 minute DVD “spot” and a brochure for DOE and Contractor personnel to advertise the Hotline



D&D KNOWLEDGE RESOURCE CENTER

Deactivation & Decommissioning and Facility Engineering (DD/FE) Working Group

- Database/website Next Steps
 - Finalize the FRD
 - Finalize website development and roll out for DOE/Contractor use
 - Continue database population