

November 17, 2009

## DEACTIVATION & DECOMMISSIONING AND FACILITY ENGINEERING

### WORKING GROUP

#### 2009 ANNUAL REPORT TO THE DIRECTORS

## INTRODUCTION

**Vision:** The Deactivation and Decommissioning (D&D) and Facility Engineering (DD/FE) Working Group provides leadership to focus on improving safety and reducing D&D life cycle costs across the Department of Energy (DOE) Complex.

**Purpose:** The DD/FE Working Group is a working committee whose intent is to facilitate the objectives of the Energy Facility Contractors Group (EFCOG) to partner with the Office of Deactivation & Decommissioning and Facility Engineering in the DOE Office of Environmental Management (EM) 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.

**Objectives:** The DD/FE Working Group is committed to the following objectives:

- Promote, coordinate, and facilitate the active exchange of successful D&D programs, practices, procedures, technology and other pertinent information of common interest which have been effectively utilized by contractors and subcontractors for DOE facilities as well as in nuclear power plant decommissioning and other environmental cleanup scenarios.
- Identify, analyze and produce for distribution through EM Headquarters important lessons learned that could in a safe manner reduce life cycle costs of EM's D&D Program.
- Develop D&D case studies for future workshops / training courses.

**Scope:** The DD/FE Working Group scope is defined as follows:

- The DD/FE Working Group will operate within the scope of EFCOG.
- The area to be addressed by the DD/FE Working Group is facility D&D, including soil and groundwater remediation topics where they integrally relate to facility D&D.
- The DD/FE Working Group will facilitate interaction with outside agencies and organizations regarding application of D&D principles and methods in the DOE Complex.
- The DD/FE Working Group will communicate with other EFCOG groups to avoid duplication of effort.
- Facilities will be covered from the point of ceasing their operating mission through their final declaration of cleanup status. However, activities during the operating mission that

prepare for efficient and safe D&D when the mission ceases will be also be within the scope.

- The DD/FE Working Group will not lobby, advocate independent positions, or try to change DOE policy. However, D&D practices as applied to DOE missions may be discussed and suggestions for improvement made to the DOE.

## **MEMBERSHIP**

The Working Group (WG) membership fell from 18 active participants to a low of 8 active participants in March 2009. This drop in membership was due to contractor realignment at the operating sites and to the start of American Recovery and Reinvestment Act (ARRA) projects across the complex. Through aggressive recruiting, the number has steadily risen and the WG now consists of 22 active members.

The members come from a number of contracting companies and DOE, and represent the national laboratories and major DOE sites and projects in the Complex. Leadership for the DD/FE Working Group is provided by:

### **Working Group Officers**

- Chair: Bob Richardella, VP Remediation Services, Time Solutions LLC
- Vice Chair: Lance Mezga, Manager, Excess Facilities D&D Program, UT-Battelle Oak Ridge National Laboratory
- Secretary: Kent Dorr, Director, North American Operations Nuclear Business Group, CH2MHILL

### **Task Group Leads**

#### Best Practices

- Mike Auble, Senior Project Manager for D&D, Lawrence Livermore National Laboratory

#### ARRA Support Team

- Kent Dorr

#### D&D Knowledge Resource Center Implementation

- Bob Richardella

#### D&D Promotional Products Team

- Anne White, President, Bastet Technical Services

### **Steering Committee**

Pete Knollmeyer, VP Environmental/Nuclear Operations, Fluor Government Group

Joe R. Yanek, Senior Director EHS&Q, Fluor Corporation

### **DOE Sponsor**

Paula Kirk, Office of D&D and Facility Engineering

### **EFCOG Sponsoring Director**

Pete Knollmeyer

### **Succession Planning Timeline**

The current Working Group leadership was installed in March 2009. Terms are usually for one year. The vice-chair normally succeeds the chair.

## **ACHIEVEMENTS**

The DD/FE Working Group formed at the request of DOE's EM Office of Engineering and Technology to focus on D&D activities with the following purposes:

- Improve identification, dissemination and implementation of D&D Best Practices across the Complex
- Identify transformational changes that can be made to positively affect safety and the D&D baseline over the long term

Members made significant progress in realizing their goals during the past year, nearly tripling the number of active members. Additionally, four Task Groups were formed to focus attention on the following initiatives: Identification and development of solutions to problems that arise as a result of execution of ARRA-funded projects; development of D&D promotional products with the goal to assure continued funding for D&D projects after ARRA funded projects are complete; establishing stronger technical support relationships with Florida International University (FIU) and the ALARA centers, the goal being to enhance the ability of these organizations to support the D&D community.

The progress made in accomplishing the DD/FE Working Group's objectives was guided by interactions of the full Working Group as follows:

- Monthly Telephone Conferences
- March 5, 2009 – Winter Working Group Meeting (Phoenix, AZ)
- August 25, 2009– Summer Working Group Meeting (Idaho Falls, ID)
- Numerous Task Group telephone conferences were also conducted.

## **PLANNING FOR THE YEAR AHEAD**

The next meeting of the DD/FE Working Group is being planned to be held in conjunction with "Waste Management 2010 in Phoenix. The Working Group members reluctantly agreed to try the WM venue one additional time. The meeting will be held on Tuesday of the conference, rather than Thursday as was the case last year, as a way to bolster attendance.

The Working Group will sponsor a technical information exchange meeting for the general D&D community. Current plans are to have the meeting at a major construction equipment manufacture's plant in Illinois in the spring. Demonstrations of demolition equipment will be provided and participants will have the opportunity to demo the equipment themselves.

The Working Group will identify site points of contact and subject matter experts in D&D techniques. These individuals will support the FIU Knowledge Management data base development and be a resource to the help lines at the ALARA centers.

The Working Group will compile a primer for ARRA reporting based on the experience gained over the past year at the operating sites. This information will be made available to the Hanford ALARA center and the FIU Knowledge Management data base project.

## **LESSONS LEARNED**

The Working Group lost a significant number of members in the last 12 months. This was due to a number of factors, including realignment of the prime contractors at a number of sites resulting in reassignment of staff to other functions not related to D&D. In addition, initiation of the ARRA projects had a significant impact on the ability of Working Group members to perform their assignments and remain active in the Working Group. The lesson learned is that recruitment for the Working Group must be an ongoing activity, every bit as important as completing the business of the Group.

## **EFFECTIVENESS EVALUATION**

The effectiveness of the Working Group was impacted by a 60% drop in active membership as noted above. Membership has been increased significantly, and the Working Group is back to working on tasks that will have positive impact on the D&D community.

## **RECOMMENDATIONS**

The DD/FE Working Group should continue functioning in 2010, pursuing the plans described above as structured with Task Groups ensuring an on-going focus on specific initiatives.

## EFCOG MEMBER COMPANY MATRIX

	AMWG	CAWG	DD/FE
3M			
ABS Consulting, Inc.			
Advanced Technologies and Laboratories Int'l			
AnovaWorks, PLLC			
AREVA Federal Services LLC			
Argonne National Laboratory			
B&W Pantex			
B&W Y-12			
Babcock & Wilcox			X
Bartlett Services, Inc.			
Bechtel Group, Inc.			
Bechtel National, Inc.			X
Booz Allen Hamilton			
Brookhaven National Laboratory			
Burns and Roe Enterprises, Inc.			
Cavanagh Services Group, Inc.			
CDM Federal Programs Corporation			X
CH2M HILL Plateau Remediation Company			X
CH2M HILL, Inc.			X
CH2M-WG Idaho, LLC			
CSC Applied Technology Division			
Dade Moeller & Associates			
EnergyX, LLC			
EnergySolutions, LLC			
Envirocon, Inc.			X
Epsilon Systems Solutions, Inc.			
ESI International			
Fluor Hanford			X
Fluor Government Group			X
Honeywell FM&T, LLC			
Idaho National Laboratory			X
Innovations Group, Inc.			
Jacobs Engineering Group			
Jefferson Science Associates, LLC			
Kiewit Federal Group, Inc.			
L&L Associates, Inc.			
Lawrence Berkeley National Laboratory			
Lawrence Livermore National Laboratory			X
Lockheed Martin Information Technology			
Los Alamos National Laboratory			X
Merrick & Company			
Midwest Research Institute (NREL)			
Mission Support Alliance, LLC			
National Security Technologies			

Navarro Research and Engineering, Inc.			X
North Wind, Inc.			
Northrop Grumman Shipbuilding			
Nuclear Fuel Services, Inc.			
Pacific Northwest National Laboratory			
Parsons			
Pro2Serve			
S.M. Stoller Corporation			
Sandia National Laboratories			X
Savannah River Nuclear Solutions			
Savannah River Remediation LLC			
Schneider Electric			
Shaw Environmental & Infrastructure, Inc.			
SLAC National Accelerator Laboratory			
SM&A			
Technology Ventures Corporation			
TerranearPMC, LLC			X
Tetra Tech, Inc.			
Theta Pro2Serve Management Company, LLC			
Time Solutions, LLC			X
TLI Solutions, Inc.			
URS Washington Division			
UT-Battelle			X
Vista Engineering Technologies, LLC			
Wackenhut Services, Inc.			
Washington Closure Hanford			
Washington River Protection Solutions LLC			
Washington TRU Solutions (WIPP)			
West Valley Environmental Services			