



**Engineering Practices Working Group  
2006 EFCOG ANNUAL MEETING**

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## EPWOG Mission and Objectives

- **Mission:**
  - Promote Engineering Excellence in the execution of DOE missions by sharing best practices, applying lessons learned, and providing integrated recommendations to DOE officials
- **Objectives:**
  - EPWOG facilitates the objectives of the EFCOG as it relates to Engineering Practices.
  - EPWOG serves as the initiator and sponsor of various subgroups to address specialized subjects





## Work Group Structure and Leadership

- DOE Sponsors: Larry Bailey (EM-3), Mike Donnelly (OECM), Chip Lagdon (Nuc Safety), and Jay McDonald (NNSA Oak Ridge)
- EFCOG Director Sponsor: Tom Stevens, AREVA (Framatome ANP)
- Richard Salizzoni, Chair, WSRC (Nov 2005)
- Ken Keith, Vice Chair, BWXT Y12 (Nov 2005)
- Four Subgroup Chairs
  - Fire Protection: Eric Gosswiller, Idaho National Laboratory
  - Configuration Management: Cherri DeFigth-Price, CH2M Hill Hanford Group Inc
  - Engineering Standards: Stan Palmer, Idaho National Laboratory
  - Value Management: Richard Harrington, Washington Closure Hanford
- Forty Companies, ~145 members (core and subcommittees)



## 2005 Accomplishments

- **EPWOG Safety System Design Adequacy Report**
  - Positively recognized by DNFSB
  - Adopted at several sites
  - Key input for DNFSB 2004-2, Active Confinement Systems, Evaluation Methodology
- **EPWOG members developed portions of the 2004-2 Evaluation Methodology Report in support of DOE HQ**
- **EPWOG member companies provided SME support to DOE HQ team updating HEPA Filter Standards**
- **CM Subgroup developed drawing management approaches adopted at several sites resulting in more cost effective CM**
- **Task Team developing engineering approaches for non-nuclear facilities to improve efficiency (joint effort between CM and Engineering Standards Subgroups)**
- **Active participation and accomplishments by all subgroups**



## 2005 Accomplishments

- Routine communications and practices help member companies:
  - Excavation and penetration program benchmarking
  - Human Performance training for Engineers developed and distributed
  - Fire Protection Subgroup comments on DOE and NFPA standards
  - Technology utilization sharing (e.g. digital radiography utilization, photography/laser scanning to develop record drawings and designs)
  - Lessons learned and benchmarking communications





## Planned 2006 Accomplishments

- Provide EPWOG core group supporting Safety in Design/DOE 413.3 Revisions
- Continue teaming with DOE HQ on 2004-2 Implementation Plan activities
- Develop task plan and begin implementation to evaluate alternatives to IEEE standards for safety related electrical designs
- Finalize Engineering Effectiveness recommendations for non-nuclear activities
- Support DOE HEPA Filter Standard Revisions
- Continue sharing Engineering Practices





## **Interfaces With Other Working Groups**

- **Integration with SAWG, Project Mgt, and Infrastructure Mgt on Safety in Design/DOE 413.3 Revision**
- **Integration with SAWG on**
  - **Safety System Design Adequacy report enhancements**
  - **Alternatives to IEEE standards for safety related electrical designs**
  - **2004-2 implementation activities**





## **Keys to success for 2006**

- **Robust member company interaction and involvement on major activities**
- **Effective integration on issues that span multiple working groups**

