



# **ISM Working Group 2007 EFCOG ANNUAL MEETING**

**Joe Yanek  
Fluor Corporation  
Working Group Chair  
February 19, 2007**





## **2006 Key Issues Addressed by ISM WG**

- **Re-vitalization of ISM**
- **Electrical Safety**
- **10CFR851 Worker Health and Safety Rule**
- **Assisted in Formation of EFCOG D&D WG**
- **Best Practices Website**
- **New Task Groups formed for ORPS, Human Performance, Chemical Safety & Lifecycle Management**



## ISM WG Organization Leadership

- **DOE Sponsor(s):**
  - Pat Worthington (HSS), Chuan Wu (EM), Patty Bubar (HSS) & Frank Russo (NNSA)
- **Sponsoring Director:**
  - Bob Pedde, WSRC
- **WG Chair:**
  - Joe Yanek, Fluor Corporation
- **Vice Chairs:**
  - Tony Umek, FH & Susan Kimmerly BJC
- **Subgroup Chairs – See Organization Chart**
- **Participation: ~37 Companies & 300 Individuals**



## **2006 Accomplishments/Deliverables**

- **Assisted in DOE HQ Initiative to Re-vitalize ISM Implementation across the Complex**
  - ISM Manual, DOE Order 226.1
  - Co-hosted DOE ISM Champions Denver Workshop
- **Electrical Safety & 10CFR851 Project Teams**
- **QA SG addressed issues related to Constr. Projects, Supplier Quality, Requirement Tailoring and Quality Engineering**
- **Envir. SG Established an Envir. Mngt. System Guidebook on the EFCOG Website**



## 2006 Continued

- **Envir. SG**
  - Completed key customer surveys for monitoring Envir. Impacts and Perf. Effectiveness
- **F&I SG**
  - Supported implementation of DNFSB 2004-1
  - Supported Implementation of CAS Elements/DOE O226.1
  - Co-leading DOE/Contractor Joint Task Team for Metrics
- **ISMPPM SG Supported DOE HPI Implementation**
- **Chem. Safety Task Group Co-sponsored 2006 Chemical Safety Workshop & Development of DOE Chem. Mngt. Handbook Vol. 2**
- **Occ. Med SG addressed Pandemic Flu and RAP Team Deployments**



## **Interfaces With Other Working Groups**

- **Engineering Practices (QASG), Project Management (QASG, Environmental SG), Acquisition Management (QASG), PAAA (F&I SG), Energy Efficiency (Environmental SG), Infrastructure (ISM PM SG), plus**



## **10CFR851 Project Team**

- **Focused Project Team to Address Implementation of new Worker Safety & Health Rule**
- **Three (3) Sub-teams Established**
  - **Technical, Legal and Enforcement**
- **Mirror DOE 851 Project Team Established**
- **>100 Issues Identified, Staffed and Submitted to DOE Project Team for Ultimate Disposition**
- **Project Team Activity Completed but will continue as Resource for EFCOG Member Assistance during initial Rule Implementation Phase**



# Electrical Safety Improvement Project





## Background

- April 2004: DOE initiates Electrical Safety Campaign
- April 2005: DOE Secretary's letter – “We must do better”
- June 2005: DOE-EM issues “Electrical Safety Challenge”
- July 2005 – January 2006
  - Electrical safety occurrences increase and comprise largest percentage of DOE's Near Misses
- January 2006
  - DOE/EFCOG Joint Electrical Safety Improvement Project initiated



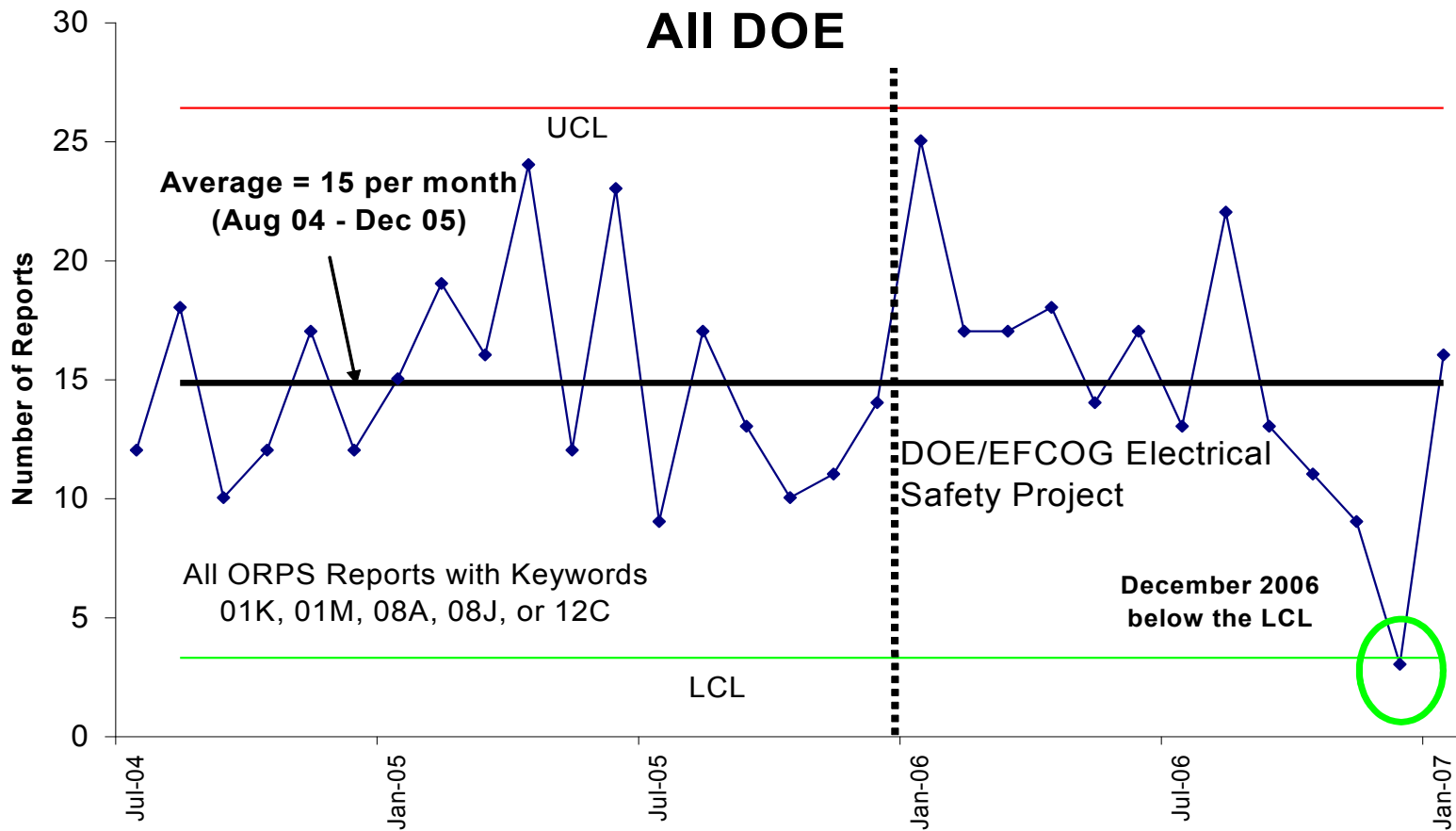
- ESIP Structured around Seven Project Areas
- Key deliverables completed (December 2006)
  - Assessment CRADS issued
  - Baseline assessments completed per DOE Special Operations Report #2006-01
  - Technical qualifications published
  - Training modules in place
  - Severity Index Tool piloted and ready for use
- Permanent EFCOG Electrical Safety Task Group formed and integrated with DOE (met in Las Vegas)



- Recurring causes for electrical safety occurrences:
  - Training
  - Policies/guidance and procedures
  - Inadequate planning, hazard identification
  - Special conditions missed, lack of verification
- Non-electrical workers involved in almost 60% of the occurrences
- August 2006 – January 2007
  - Electrical ORPS events and near misses decreasing DOE-wide (30% reduction)



# Electrical Events ORPS by Month All DOE





## ESIP Summary

- Electrical shocks one month from an improving trend
- Electrical “Near Miss” Events decreasing (as % of total)
  - 71% January 2004 – June 2005
  - 55% July 2005 – April 2006
  - 27% May 2006 – December 2006
- Electrical Events still a Concern
  - To early to claim success
  - Near Miss Frequency still Significant
  - Targeted, realistic training seen as having high payoff



## **Planned 2007 Activities**

- **Co-host 2007 Chemical Management Workshop**
- **HPI and Safety Culture Implementation**
- **Establishing New Task Groups**
  - Electrical Safety (Previous ESIP)
  - Nanotechnology Safety
  - Operational Readiness Reviews
  - On-site Transportation Safety
- **Publish Guides/Papers on:**
  - Performance Analysis, Attributes of an Effective Quality Improvement Program, IH Guide for Low Hazard Exposure Assessments
- **Pilot Program for Sharing Evaluation Data on Common Suppliers**



## 2007 Activity Schedule

- **Spring ISM WG Meeting at Atlanta Airport Marriott on April 30<sup>th</sup>**
  - Occupational Medicine and Environmental SGs meeting concurrent with Professional Meetings
- **Fall ISM Wg Meetings TBD**
- **Workshops: Chemical Safety 3/07**



## Suggestions for 2007

- **Consider Developing Proposal for EFCOG Meeting Center at Previous Albuquerque Energy Training Center Facility**
  - Ease of Travel Access, Facility Space can handle Large Groups, Low Government Per Diem Rates and Hotel Availability
- **Re-focus “All” Best Practice Activities through ISM’s F&I Sub-Group**
  - Critical we provide Central Focus to Customers and Members
- **Establish Member Company Participation Matrixes on EFCOG Website**