

Solving Cleanup Challenges Through Risk Reduction

***ENHANCING SAFETY IN
ENVIRONMENTAL MANAGEMENT***

Chuan Wu

Chief Safety Officer

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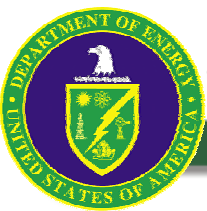
Dae Chung

Deputy Assistant Secretary, Safety Management & Operations

2007 Waste Management Symposium

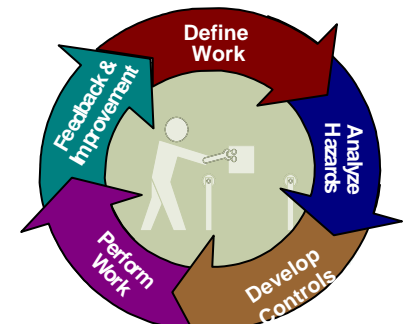
February 26 – March 1, 2007

Tucson, Arizona



EM Environmental Management

safety ❖ performance ❖ cleanup ❖ closure



Solving Cleanup Challenges Through Risk Reduction

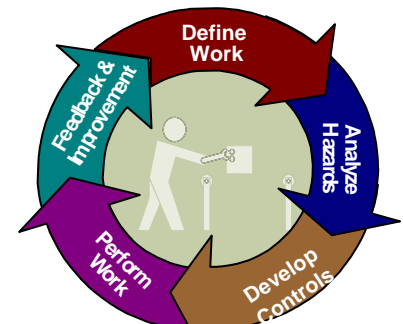
Presentation Outline

- **EM Activities and Challenges**
- **Key EM Initiatives to Enhance Safety Management**
 - Integrating Safety into Operations & Project Management
 - Field Initiatives to Improve Safety
 - Strengthening Safety Management Oversight
 - Measuring Safety Performance



EM *Environmental Management*

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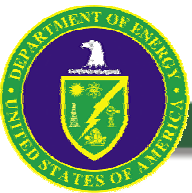
The Environmental Management Program

114 Sites

31 States

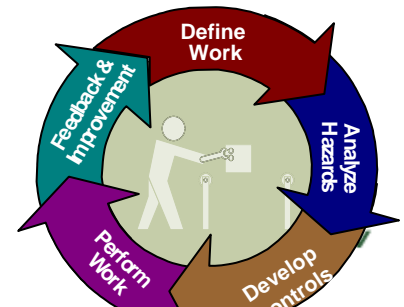
~ \$6 B Annual Budget

~ 30,000 Workforce (federal and contractor)



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Solving Cleanup Challenges Through Risk Reduction

EM Has Made Significant Progress in Three Key Areas in a Safe, Secure & Compliant Manner . . .



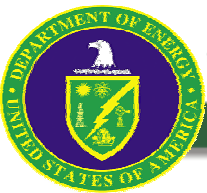
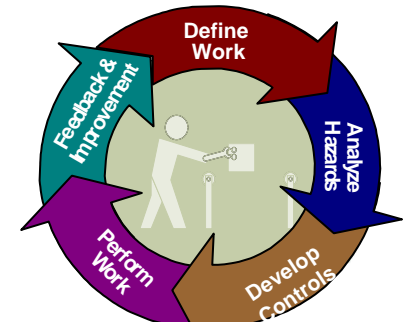
- **Nuclear materials disposition**



- **Facilities/sites cleanup and closure**



- **Radioactive/mixed waste disposal**



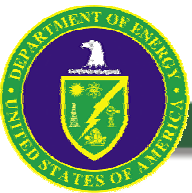
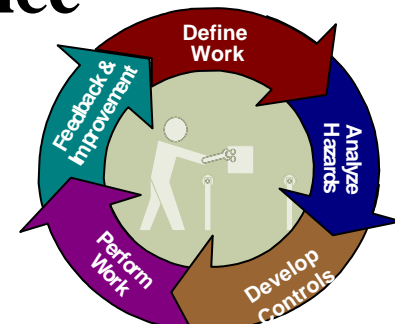
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Integrating Safety into Operations and Project Management

- **Projectization of all EM activities**
- **Safety integration in all phases of project management**
- **Training, qualification and certification of FPDs**
- **Operations & project management lessons learned with safety emphasis**
- **Project reviews including safety performance**



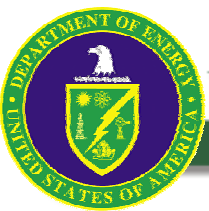
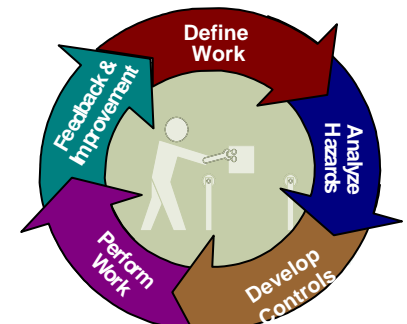
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Site Initiatives to Improve Safety - Examples

- **Human Performance Improvement – ORP & RL**
 - HPI Lessons Learned Report
- **Just-in-Time Lessons Learned – Idaho & ORP**
- **Time Out for Safety – SRS & WIPP**
- **Electrical Safety Improvements – EFCOG**
- **VPP participation**
 - Various levels of recognition
 - Legacy of Stars Award – SRS & West Valley



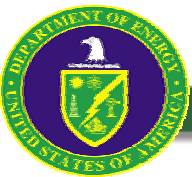
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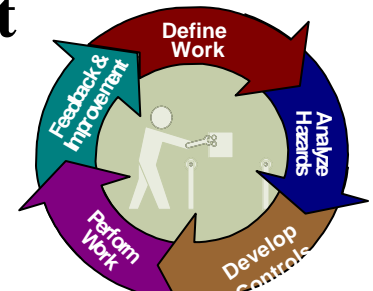
Strengthening Safety Management & Oversight

- **Development & Implementation of ISM Systems**
 - Define ISM roles, responsibilities, goals, objectives & measures
 - Incorporate EMS and QA into ISMS
- **Integrated oversight assessment schedule (EM-60 lead)**
 - Safety, QA & EMS
- **Rigorous facility readiness review (ORR & RA)**
- **Chief Operating Officer (COO) interactions with Field offices (face-to-face meetings, conference calls, VTCs)**
- **Chief of Nuclear Safety (CNS) oversight activities**
- **Constructive feedback & continuous improvement**



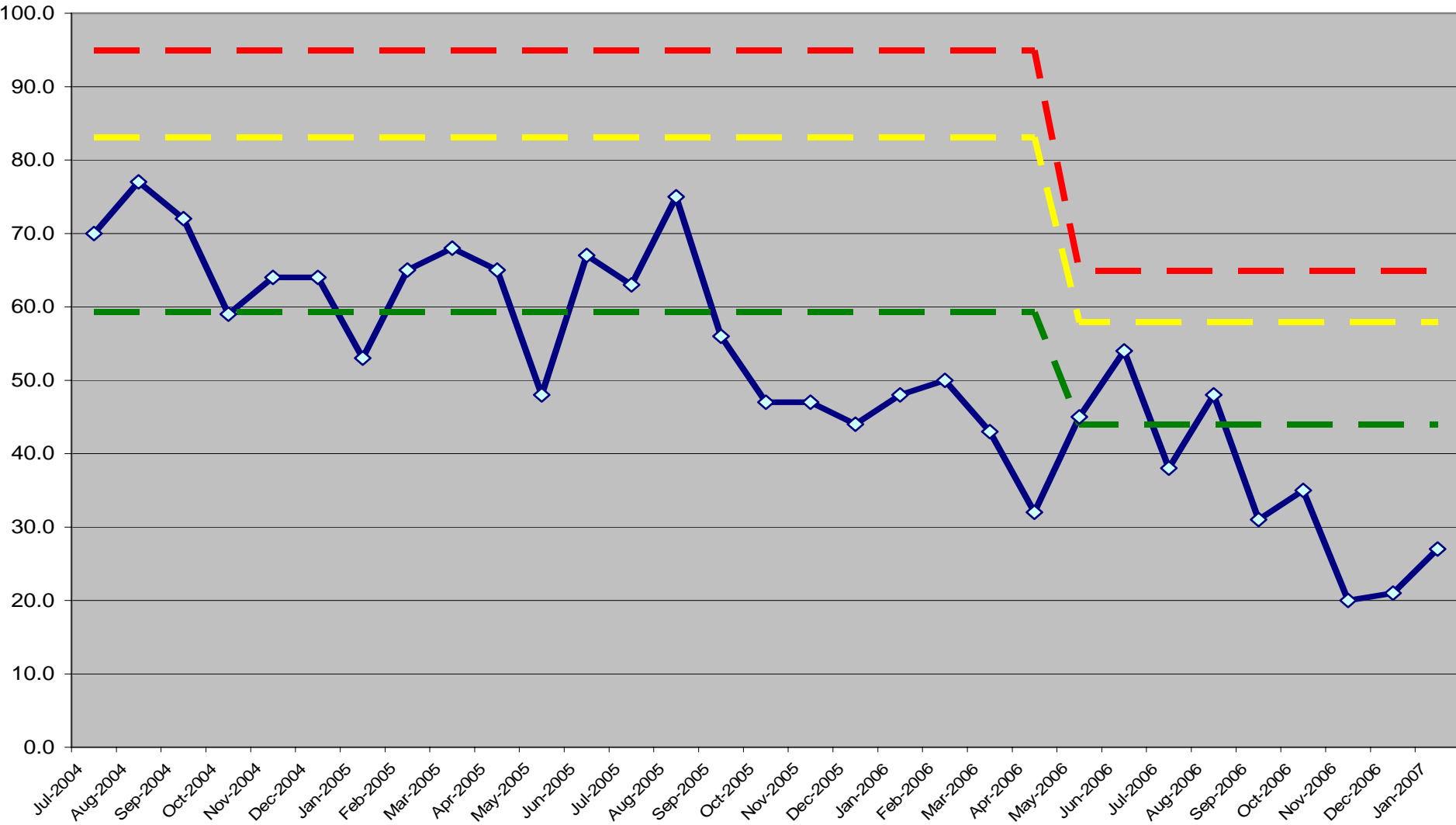
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Measuring Safety Performance

EM Wide Total Occurences

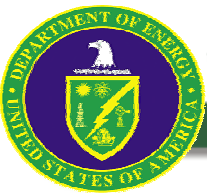


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Summary

Our safety record is good, but we can not be complacent. We must continue to strive for a zero accident workplace by

- Maintaining the highest safety standards in all that we do
- Effectively integrating safety into facility design, construction & operations



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