



U.S. Department of Energy
Office of Civilian Radioactive Waste Management



Project Update

Presented to:

DOE/NRC Quarterly Management Meeting

Presented by:

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U.S. Department of Energy

September 15, 2005

Rockville, Maryland

Enclosure 3

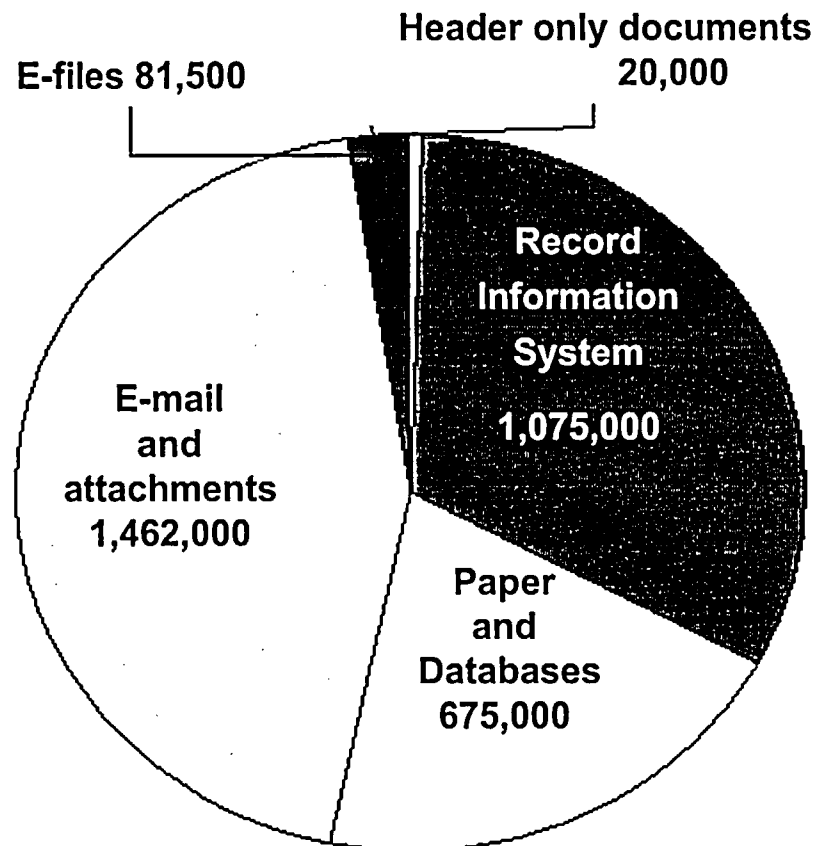
Goals and Objectives

- Summarize Licensing Support Network activities
- Provide an update on DOE's preparations to complete the License Application and supporting systems and documentation
- Summarize Yucca Mountain Project (YMP) challenges and our progress towards resolution
- Summarize budget, management processes, and Quality Assurance (QA)



Licensing Support Network

3,300,000 Documents



USGS E-mail Issue

- **Condition Report (CR) 5223 elevated to a Level A on June 20, 2005**
- **Root cause analysis estimated completion by mid-October**
- **Root cause charter addresses these questions:**
 - **Did technical product output and/or software and data related to infiltration analysis/model report meet applicable qualification requirements?**
 - **Did a culture exist at the time the e-mails were generated that promoted and/or ignored noncompliance with the QA program?**
 - **Did Project QA miss an opportunity to identify conditions adverse to quality?**



USGS E-mail Issue

(Continued)

- **Corrective action underway to replace and remediate the moisture infiltration work. Projected completion in April 2006**
- **Planning underway for self-assessment on Project QA, management processes, and nuclear culture**



July 2005 Annunciator Panel

Primary and Secondary Metrics

WORK EXECUTION	Primary				Secondary			
	Q Y Y Y *	Y Y Y Y *	Y Q Q Q	Q Y Q Q *				
	1.1 Licensing	1.1.1 LA Development (1.5.02.02)	1.1.2 NRC Commitments (1.6.02.03)	1.1.3 NRC Interactions Effectiveness				
	DOE: J. Ziegler BSC: D. Deelman Y	DOE: V. Boyle BSC: D. Deelman Y	DOE: J. Ziegler BSC: D. Deelman G	DOE: J. Ziegler BSC: D. Deelman G				
	Q Q Q Q *	Y Y Y Y *	Q Q Q Q *	Y Q Q Q *				
	1.2 Facilities EPC Performance IOC (Design)	1.2.1 Fuel Handling Facility IOC (Design)	1.2.2 Cask Handling Facility IOC (Design)	1.2.4 Design Quality				
	DOE: R. Crum BSC: R. Torsini Y	DOE: R. Crum BSC: R. Torsini Y	DOE: R. Crum BSC: R. Torsini G	DOE: K. Lachman BSC: R. Torsini G				
	Q Y Y Y *							
	1.3 Preclosure Safety Analysis Documents							
	DOE: K. Lachman BSC: D. Deelman Y							
	V V Q Y *	Q Q Q Y	V V Q Y *					
	1.4 Post Closure	1.4.1 Post Closure Safety Analysis Documents	1.4.2 Total System Performance Assessment					
	DOE: J. Ziegler BSC: D. Deelman Y	DOE: J. Ziegler BSC: D. Deelman Y	J. Ziegler D. Deelman					
	Y Y Y Y	Y Y Y Y	Q Q Q Q					
	1.5 Site Operations	1.5.1 Site Status	1.5.2 Site Performance					
	DOE: S. Wade BSC: R. Fry Y	DOE: S. Wade BSC: R. Fry Y	DOE: S. Wade BSC: R. Fry G					
	Q H Q Y *							
	1.6 Licensing Support Network							
	DOE: K. Grooms BSC: None G							

Organization and Safety Culture

KEY PROCESSES	Organization & Safety Culture			
	Q Q Q Q *	Q Q Q Q *	Q Q Q Q *	
	2.1 Safety Performance	2.1.1 Industrial Safety Performance	2.1.2 Emergency Management	
	DOE: S. Wade BSC: M. Sullivan G	DOE: S. Wade BSC: M. Sullivan G	DOE: S. Wade BSC: M. Sullivan G	
	Y Y Q Q *	Q Q Q Q *	Y Y Q Q *	Y Y Y Y *
	2.2 Performance Improvement	2.2.1 Lessons Learned Effectiveness	2.2.2 Self Assessment Effectiveness	2.2.3 Corrective Action Program Effectiveness
	DOE: R. Spence BSC: D. Sorenson G	DOE: R. Spence BSC: D. Sorenson G	DOE: R. Spence BSC: D. Sorenson Y	DOE: R. Spence BSC: D. Sorenson Y
	Q Q Q Q *			
	2.3 Work Management			
	DOE: R. Spence BSC: D. Sorenson G			
	Q Q Q Q			
	2.4 SCVE			
	DOE: M. Van Der Pij BSC: R. Hilly Y			
	Q Q Y Y	Q Q Q Q	Y Y Y Q	Y Y Y Y
	2.5 Human Performance	2.5.1 Error Prevention Behavior & Results	2.5.2 Error Detection Behavior & Results	2.5.3 Error Correction Behavior & Results
	DOE: R. Spence BSC: D. Sorenson Y	DOE: R. Spence BSC: D. Sorenson D	DOE: R. Spence BSC: D. Sorenson D	DOE: R. Spence BSC: D. Sorenson Y
	Y Q Q Q			
	2.6 Quality Performance			
	DOE: D. Brown BSC: M. Maron Y			



Corrective Action Program Status

- As of August 23, 638 total condition reports open
- Corrective Action Program status yellow
 - Continued yellow status from July management review
- While goal of 90% of plans approved within 30 days not achieved, overall average of 23 days for completion of all plans
- Level B & C CR action plans have an average of 86 days to complete versus the 60-day goal
- While improvement is occurring in the Corrective Action Program's (CAP) effectiveness, continued and increased management attention required



Condition Report Status

- **Level A Condition Reports**

- CR 5223 Potential willful non-compliance of Project QA
- CR 3235 Improper CR closure / Ineffective CAP corrective actions
- CR 6278 Yucca Mountain Site Characterization Project Requirements Document is not current

- **Level B Condition Reports**

- CR 5559 Extensive rework of technical work products
- CR 6233 Evaluate contract changes for Project Requirements Document



Summary

- **Good progress on Licensing Support Network**
- **Steady progress on closure of the U.S. Geological Survey issue and corrective actions**
- **Continued progress on License Application work**
- **Schedule for preclosure and design interactions is being established**
- **Management emphasis on replacing critical QA and licensing positions and strengthening organizational capabilities to perform as a licensee**





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www.ocrwm.doe.gov

Quality Assurance Overview

Presented to:

DOE/NRC Quarterly Management Meeting

Presented by:

R. Dennis Brown

Director, Office of Quality Assurance

Office of Civilian Radioactive Waste Management

U.S. Department of Energy

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Quality Assurance Overview

- **Quality Assurance Requirements and Description (QARD)**
- **Corrective Action Program Oversight**
- **Trending**
- **Office of Quality Assurance (OQA) Audits/ Surveillances**
- **Management & Operating (M&O) Contractor Quality Assurance (QA) Audits/Surveillances**



Quality Assurance Requirements and Description (QARD)

- QARD Rev 17 accepted by NRC on August 4, 2005
- Implementation in progress



Corrective Action Program Oversight

- M&O surveillance of effectiveness of Condition Report (CR) actions
- Four M&O surveillances of Level C CR processing
- OQA surveillance of DOE Level C CR processing



Trending

- **Separate procedures for OCRWM and M&O Contractor**



Office of Quality Assurance Audits/Surveillances

- **Completed Audits**
 - Office of Repository Development
 - AQAP and Applicable Site Activities
 - BSC Procedural Adequacy
 - Office of Quality Assurance
 - Software QA Activities
- **Completed Surveillances**
 - Review of QAMA process



Office of Quality Assurance Audits/Surveillances

(Continued)

- **Upcoming Audits**
 - BSC Compliance Audit
 - BSC Design
 - OCRWM



Office of Quality Assurance Audits/Surveillances

(Continued)

- **Completed EM/OCRWM Audits**
 - INEEL Spent Nuclear Fuel
 - Hanford Spent Nuclear Fuel



Management and Operating Contractor Quality Assurance Audits/Surveillances

- **Completed QA Audits**
 - **Corrective Action Process**
 - **Scientific Investigation, Measuring and Testing Equipment and Sample Control**
- **Completed QA Surveillances**
 - **Seven surveillances of AMR activities including Data Submittals, Use of Data, and IRANs**
 - **Pre-closure Safety Analysis Calculation**
 - **Six surveillances of YMP Site Activities**
 - **Two surveillances of Training Activities**
 - **Specifications**



Management and Operating Contractor Quality Assurance Audits/Surveillances

(Continued)

- **Upcoming QA Audits**
 - U.S. Geological Survey
 - National Laboratories including LANL, LBNL, SNL
 - BSC Procurement Process
- **Upcoming Notable QA Surveillances**
 - Corrective Action Program Charter and Initiatives
 - Four surveillances of Direct Support Subcontractors implementing OCRWM procedures for YMP Activities

