ENCLOSURE 4



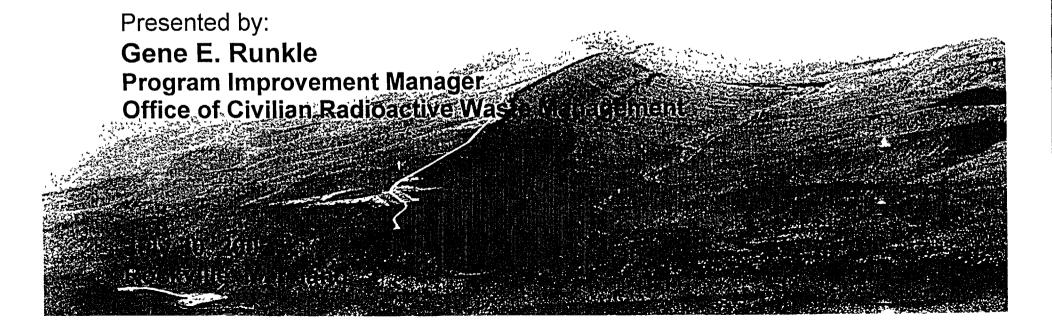


U.S. Department of Energy Office of Civilian Radioactive Waste Management

Management Improvement Initiatives

Presented to:

DOE/NRC Quarterly Quality Assurance Meeting



Outline

- History and Background
- Lessons Learned
- Five Key Areas for Improvement
- How Are We Going to Manage?
- Effectiveness Indicators
- Conclusions

History and Background

- 1998: Senior managers began transition from work technically sufficient for site suitability to traceability needed for licensing
- 2001: Quality Assurance (QA) organization identified recurring conditions adverse to quality (BSC 01-C-001 and -002)
 - Root cause analysis identified weaknesses in management systems, quality processes, and roles and responsibilities
 - Management recognized need for sustained initiative to:
 - Clarify roles, responsibilities, authority, and accountability
 - Improve effectiveness of QA program implementation
 - Drive culture to consistency with NRC-regulated environment

History and Background

(Continued)

- 2002: OCRWM Management Improvement Initiatives (OMII) submitted to NRC
 - Document did not meet previous commitments or expectations
 - OCRWM committed to submit a revised document that reflects:
 - Actions to address deficiencies and recommendations
 - Remedial and corrective actions for corrective action reports
 - Other relevant actions to improve OCRWM management practices
- Revised document completed in July 2002



Source Documents

- 15 documents were reviewed, including:
 - Corrective Action Reports (CARs) [2]
 - Root Cause Analyses [2]
 - Concerns Program Trend Report [1]
 - NRC-DOE Correspondence [3]
 - DOE/BSC Internal Evaluation and Correspondence [4]
 - Quality Assurance Management Assessments [2]
 - External Evaluation Report (Morgan, Lewis & Bockius) [1]
- Management Improvement Initiatives Appendix A references source documents and correlates with action summaries



Lessons Learned

- Lessons Learned Evaluation Team reviewed OMII submittal process
 - Reference: OCRWM-LL-2002-066 (Completed July 2002)
- Team found Yucca Mountain Project management system needs improvements in:
 - Program standards, policies, administrative controls and direction to employees
 - Oversight, employee relations, and employee feedback
 - Accountability
- Findings common to both DOE (line and QA) and BSC; impact all levels of organizations



Lessons Learned

(Continued)

- Recommended corrective actions are:
 - Conduct management meetings to communicate lessons learned and future expectations
 - Issue letters to clearly define performance expectations, responsibilities, and authorities
 - Redirect or establish Deputy Manager for conflict identification and resolution, issue escalation, and independent assessment of CAR/Deficiency Reports (DRs)
 - Establish senior review board for independent review of significant issues and plans
- Actions address Program's weaknesses and envelope lower-level deficiencies and recommended actions from source documents

Five Key Areas for Improvement

- Project Roles, Responsibilities, Authority, and Accountability (R2A2)
- Quality Assurance Programs and Processes
- Project Procedures
- Corrective Action Program
- Safety-Conscious Work Environment



Roles, Responsibilities, Authority, and Accountability (R2A2)

- Objective: Define ownership and accountability
- Current: Support site suitability; R2A2 confusion
- Desired: Align for licensing; understand and accept
- Approach: Realignment, clarification, and definition
 - Issue DOE policy statement identifying expectations
 - Clarify R2A2 to align authority and responsibility
 - Orient DOE staff to hold BSC accountable
 - Orient BSC staff to organization and R2A2
 - Issue DOE Program Manual on implementing requirements
 - Revise DOE annual performance appraisals

Quality Assurance Programs and Processes

- Objective: Implement QA requirements and processes
- Current: Quality processes need improvement; requirements documentation confusing and difficult
- Desired: Define and clarify roles and responsibilities
- Approach: Focus on quality at working level
 - Issue DOE policy statement on expectations
 - Clarify R2A2 for Office of Quality Assurance (OQA)
 - Orient DOE and BSC staffs on R2A2
 - Review Quality Assurance Requirements and Description
 - Reflect QA requirements in implementing procedures
 - Revise DOE annual performance appraisals

Project Procedures

- Objective: Institute effective and efficient procedures
- Current: Overly prescriptive and inefficient
- Desired: Effective and efficient DOE and BSC procedures
- Approach: Realign R2A2; review and revise procedures
 - Clarify OCRWM R2A2
 - Review existing procedures
 - Issue new or revised procedures
 - Train personnel prior to implementation



Corrective Action Program

- Objective: Single corrective action program
- Current: Multiple management systems
- Desired: Single, Project-wide system
- Approach: Simplify and communicate program
 - Assign OQA Director responsibility for administration and hold accountable
 - Establish DOE task team for requirements and specifications
 - Develop and implement BSC system identify and minimize adverse repetitive conditions
 - Implement single OCRWM corrective action program
 - Define and implement self-assessment and lessons-learned programs based on corrective action program

Safety-Conscious Work Environment

- Objective: Foster and sustain Safety Conscious Work Environment (SCWE)
- Current: Lack of SCWE understanding, common values, and timely actions
- Desired: SCWE embraced; work environment encourages input without fear of harassment, intimidation, retaliation, or discrimination (HIRD); prompt and meaningful response to concerns

Safety-Conscious Work Environment

(Continued)

- Approach: SCWE Policy with clear expectations, training, reinforcement, and communication
 - Modify BSC and other DOE contracts for SCWE
 - Eliminate backlog of open OCRWM employee concerns
 - Establish DOE and BSC policies and procedures
 - Develop/Revise SCWE training modules
 - Establish internal BSC mechanisms for employee concerns
 - Conduct employee and supervisor/manager training
 - Have external SCWE expert group evaluate YMP



Appendix B

- Contains action summaries for CARs BSC-01-C-001 and -002 for modeling and software
 - BSC is responsible for these corrective actions
 - Corrective actions listed as complete have been verified
 - Effectiveness will be verified during routine Office of Quality Assurance audits and surveillances

How Are We Going to Manage?

- Establish vision, policies, and procedures yielding continuous improvement
- Establish rigor, discipline, safety-consciousness, formality, and accountability
- Create team of competent change agents dedicated to continuous improvement
- Assure success by measuring performance and providing resources to implement improvements

How Are We Going to Manage?

(Continued)

Effectiveness Review and Closure Process

- Responsible manager reviews and approves each action
- OCRWM OQA reviews and agrees action is complete
- Outside experts review overall effectiveness

Effectiveness Indicators

- Establish goals to manage and hold accountable
- Goals establish desired end state
- Interim goals measure progress toward end-state goals



Conclusions

- Senior management has reviewed and taken stock of changes needed to improve management systems and prevent further recurrence of adverse conditions
- Revised Management Improvement Initiatives sets forth plans for effective implementation of changes
- Rey elements of revised approach include:
 - Recognition that managers' behaviors and accountability need to change
 - Identification of 5 key areas where improvements are needed
 - Personal commitment of Dr. Chu, OCRWM Director, to make resources available, review progress, and report to NRC