

The Status of Quality Assurance



EM *Environmental Management*

safety ❖ performance ❖ cleanup ❖ closure

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Presented by

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BIOGRAPHICAL SKETCH

SANDRA L. WAISLEY

- Sandra Waisley currently serves at the U.S. Department of Energy (DOE) as Director of Standards and Quality Assurance for the Office of Environmental Management (EM). She has also held the positions of Director of Facility Engineering and D&D, Director of Technology Development and Demonstration, and Associate Deputy Assistant Secretary (ADAS) for Budget Operations in the EM Program. Prior to joining EM, Ms. Waisley was Associate Chief Operating Officer in the Office of Civilian Radioactive Waste Management (RW), Washington, D.C., from 2000 to 2002. Before joining DOE/RW, Ms. Waisley served as the Associate Deputy Assistant Secretary and Acting Deputy Assistant Secretary for the Office of Natural Gas and Petroleum Technology, Office of Fossil Energy. She managed DOE's domestic and international oil and gas research and development programs, both upstream and downstream.
- Between 1977 and 1989, Ms. Waisley worked for major oil companies, including British Petroleum (BP) of America, Sohio Petroleum Company, and Exxon USA. At BP, Houston, Texas, she served as the Production Manager of Geosciences for Eastern U.S. Onshore, and at Sohio, she was the Supervisor of Geosciences for Lisburne Field, North Slope, Alaska. Ms. Waisley started her career with Exxon as an Exploration Geologist, progressing to Operations Geologist, Senior Production Geologist, and Operations Manager responsible for exploration prospecting, well planning, and drilling.
- Ms. Waisley holds a M.P.P. degree in Public Policy and Applied Economics from the University of Michigan at Ann Arbor, a M.A. degree in Geological Sciences/Geophysics from the University of Texas at Austin, and a B.S. in Geological Sciences from Cortland State College, NY.

Brief Overview of EM

- Responsible for safe environmental cleanup of approximately 50 years of work related to the development of nuclear weapons and nuclear energy research
- Annual budget of approximately \$6 Billion
 - \$12 Billion in FY 2010 (includes funds allocated by the American Recovery and Reinvestment Act of 2009)

Diversity of EM Projects

- Design, Construction, and Operation of new nuclear facilities for treatment of radioactive waste into a safe, stable form to enable ultimate disposition
- Storage of nuclear material in a stable, safe configuration in secure locations to protect national security
- Transportation and disposal of transuranic and low-level wastes
- Decontaminating and decommissioning (D&D) of facilities.
- Remediation of soil and ground water contaminated with the radioactive and hazardous constituents

The Importance of QA

- A recent series of high profile project set backs, including significant schedule delays and cost overruns, attributed in part to the lack of effective QA integration
- These set backs have affected the various phases of the project life cycle and business management processes
 - Design, construction, operation, procurement, suppliers, parts, etc.





Our Mission

- To ensure work is performed safely and correctly via proper implementation and continuous improvement of the EM Integrated Quality Assurance Management System and its integration with the Integrated Safety Management System.





Our Goals



- Establish a single, integrated EM Corporate Quality Assurance Program to ensure consistent implementation of the quality requirements for the EM Mission
- Establish a systematic approach for QA Program oversight
- Develop key criteria and attributes for evaluating the quality and technical rigor for implementation of the appropriate requirements and standards to support the Critical Decision process

Our Strategy to Improve QA

- **Clarify and Communicate QA Requirements and Management Expectations**
 - EM Quality Assurance Program (QAP)
 - Reflects a Federal law (10 CFR 830.122), DOE Order (414.1C), national consensus standard (ASME NQA-1-2004), and EM Management Expectations
- **Improve Business Management Practices through Mentoring and Oversight**
 - Subcontracting and flow down of QA requirements from prime contractors to subcontractors
 - Procurement and purchase of items and services
- **Enhance Indigenous QA Expertise and Knowledge**
 - Intensive QA training for Federal employees and contractors (e.g., NQA-1 Lead Auditor, NQA-1 Software QA)
 - Supplier outreach & awareness
- **Strengthen QA Oversight and Monitoring of Work Performance**
 - Performance-based QA audits
 - Tracking of QA corrective actions commitments and status

From the Past to the Present

Actions	FY 2008 Accomplishments	FY 2009 Plan
<p>1. Corporate Standard Review Plan (SRP)</p>	<ul style="list-style-type: none"> - SRP Outline - 6 Review Modules - 3 Pilot Tests 	<ul style="list-style-type: none"> - SRP Handbook for FPDs - 10 Review Modules - 6 SRP Pilot Tests
<p>2. EM Audits and Assessments</p>	<ul style="list-style-type: none"> - 15 Site/Project Audits [Compliance-Based] 	<ul style="list-style-type: none"> - 14 Site/Project Audits [Performance Based] - 5 Vendor Surveillances
<p>3. EM/RW HLW/SNF Audits/Surveillances</p>	<ul style="list-style-type: none"> - QARD Development - 4 Site Audits (SR, ORP, RL, ID, NNSFP) - 3 Readiness Review Surveillances 	<ul style="list-style-type: none"> - 6 Site Audits & Status Reviews

Actions	FY 2008 Accomplishments	FY 2009 Plan
<p>4. EM Corporate QA Program and QA Implementation Plans (QIPs)</p>	<ul style="list-style-type: none"> - Corporate QAP Development (NQA-1, 2004, 2007 Addendum) 	<ul style="list-style-type: none"> - QAP Implementation (HQ/Sites) [Gap Analysis; Implementation Plans and Procedures] - EM/HQ Reviews and Approves Site QIP Submissions
<p>5. ISM/QA Annual Declaration/ Validation</p>	<ul style="list-style-type: none"> - QA Annual Declaration and Validation Process Developed (integrated w/ ISM) 	<ul style="list-style-type: none"> - 2009 Annual Declaration and Validation Process (w/ ISM)
<p>6. Corporate Performance Metrics System</p>	<ul style="list-style-type: none"> - Corporate Performance Metrics System Development (CPMS) - CPMS Pilot Tests (3) 	<ul style="list-style-type: none"> - CPMS Will Be Used in 2009 Annual Declaration and Validation Process (11 sites)

Actions	FY 2008 Accomplishments	FY 2009 Plan
7. QA Corporate Board	<ul style="list-style-type: none"> - QA Corporate Board Established - EM/EMFCOG QA Improvement Project Plan (5 Focus Areas) <ul style="list-style-type: none"> *Flow Down of Requirements *Adequate Nuclear Suppliers *CGI and Services Dedication Implementation *Graded Approach Implementation *Line Mgmt. Understanding of QA 	<ul style="list-style-type: none"> - QA Corporate Board (3 Mtgs.) - EM/EFCOG QA Improvement Project Plan (5 Focus Areas)
8. Nuclear Suppliers Outreach	<ul style="list-style-type: none"> - Denver, CO National Nuclear Suppliers Outreach - 7/08 	<ul style="list-style-type: none"> - Augusta, GA Regional Nuclear Suppliers Outreach (3/09) - Nuclear Suppliers QA Training (7/09) - Partnership w/ NEI (Workshops)

Actions	FY 2008 Accomplishments	FY 2009 Plan
9. Corrective Action Program	<ul style="list-style-type: none"> - CA Database Maintained/Updated (CA Reviewed During Audits) 	<ul style="list-style-type: none"> - CA Tracking and Monitoring Program Development and Implementation (EM QA HUB)
10. QA Centralized Training Platform (“Academy”)	<ul style="list-style-type: none"> - QA Centralized Training Platform Established – Federal Community - 1st NQA-1 Training Course (40 Hr.) 	<ul style="list-style-type: none"> - Project Plan Development - NQA-1 Training Course (40 Hr.) for Feds/Contractors - NQA-1 Training Course (4 and 40 Hr.) for Suppliers - NQA-1 Training Course (2 Hr.) for FPDs/IPTs - SQA Training Course (3 Days) - EM Intern Program Training [DOE Professional Development Program, FIU Interns] - NQA-1 Course/Certification Prg.- Community Colleges

Actions	FY 2008 Accomplishments	FY 2009 Plan
<p>11. EM HQ and Site QA Resources</p>	<ul style="list-style-type: none"> - HQ/Site QA Managers Established - HQ/Site QA <u>Federal</u> Resources Summary/Analysis - HQ/Site QA Resources Hiring 	<ul style="list-style-type: none"> - HQ/Site QA Resources Hiring - HQ/Site QA <u>Federal</u> Resources Summary and Analysis - EM <u>Contractor</u> QA Resources Summary and Analysis
<p>12. Other Activities</p>	<ul style="list-style-type: none"> - DOE O 414.1C Revision - DOE Quality Council - DOE Safety Software QA - DOE HEPA Activities - QA Oversight SOPP - QA Community of Practice - QA Quarterly Newsletter 	<ul style="list-style-type: none"> - DOE O 414.1C Revision - DOE Quality Council - DOE Safety Software QA - DOE HEPA Activities - QA Community of Practice - QA Quarterly Newsletter

EMQA Culture Maturity

