



Department of Energy  
Washington, DC 20585

MAR 04 1993

Mr. Joseph J. Holonich, Director  
Repository Licensing & Quality Assurance  
Project Directorate  
Division of Nuclear Material Safety  
and Safeguards  
U.S. Nuclear Regulatory Commission  
Washington, D.C. 20555

Subject: Office of Civilian Radioactive Waste Management Affected  
Organizations

Dear Mr. Holonich:

In accordance with a request from your staff during the last Quality Assurance bi-monthly meeting, enclosed is a list of organizations that support OCRWM and are affected by and responsible for implementing the requirements of DOE/RW-0333P, Quality Assurance Requirements and Description. Included in the list is a brief description of each organization's current scope of work.

If you have any questions, please contact me or Donald Horton of the Office of Quality Assurance at (202) 586-6046 or (202) 586-8858, respectively.

Sincerely,

Dwight E. Shelor  
Associate Director for  
Systems and Compliance  
Office of Civilian Radioactive  
Waste Management

Enclosure

cc:

D.Horton, RW-3  
S. Zimmerman, State of Nevada

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## OFFICE OF CIVILIAN RADIOACTIVE WASTE MANAGEMENT AFFECTED ORGANIZATIONS

This list describes the current scope of work of organizations that support OCRWM and are affected by and responsible for implementing the requirements of DOE/RW-0333P, *Quality Assurance Requirements and Description*.

### A. OCRWM-MANAGED CONTRACTORS

Each of the following OCRWM-managed contractors are required to develop and implement a QA program that meets the applicable requirements of DOE/RW-0333P.

1. TRW Environmental Safety Systems (TRW) - OCRWM's Management and Operating (M&O) contractor, is responsible for: *a)* design and analysis of the nuclear waste management system; *b)* providing licensing strategy options, leadership, and resources; *c)* providing siting and design services for the MRS and the geologic repository; and *d)* developing a transportation system.
2. Science Applications International Corporation (SAIC) - provides technical and managerial support to the Yucca Mountain Project (YMP) in the following areas: *a)* environmental compliance and field programs including meteorology and radiological monitoring; *b)* transportation studies; *c)* radio-logical, sociological, and environmental programs; and *c)* land access.
3. Reynolds Electrical and Engineering Company, Inc. (REECo) - DOE's M&O contractor for the Nevada Test Site, is responsible for the following YMP support: *a)* Exploratory Studies Facility surface and subsurface construction, drilling, and mining; *b)* operation and maintenance of site facilities, except the sample management facility; and *c)* procurement and logistical services for YMP, as requested.
4. Raytheon Services of Nevada (RSN) - is responsible for: *a)* the design of YMP underground and surface facilities related to underground structures; and *b)* services and support in YMP drilling engineering, geophysical engineering, and vadose zone hydrology.
5. EG&G Energy Measurements (EG&G) - is responsible for: *a)* operating the YMP Technical Database; and *b)* for providing YMP support in remote sensing, air/ortho/satellite photography and imaging; the Geographical Information System operation; and geologic 3-D visualization.
6. General Atomic (GA) - is responsible for: *a)* designing, prototyping, and load testing a legal weight transportation cask system; and *b)* obtaining NRC certification of the system.
7. Babcock & Wilcox (B&W) - is responsible for: *a)* redesigning, prototyping, and load testing the BR-100 transportation cask system; and *b)* obtaining NRC certification of the system.

### B. OCRWM DIRECT-SUPPORT ORGANIZATIONS

The following OCRWM organizations are required to perform their work in accordance with OCRWM QA Program documents.

1. SAIC - provides direct support to YMP in connection with: *a)* planning; *b)* evaluation; *c)* field investigation; *d)* laboratory analysis; *e)* institutional activities; *f)* regulatory licensing; and *g)* quality assurance.
2. Roy F. Weston, Inc. (Weston) - is responsible for providing assistance to OCRWM Headquarters in the following areas: *a)* program management; *b)* institutional activities; *c)* technical support.
3. CER Corporation (CER) - is responsible for providing QA support to OCRWM Headquarters.

4. Asta Engineering (Asta) - is responsible for performing management assessments of OCRWM.

### C. GOVERNMENT AGENCIES INCLUDING NATIONAL LABORATORIES

Each of the following government agencies are required to develop and/or implement a QA Program that meets the requirements of DOE/RW-0333P.

1. DOE Office of Environmental Restoration and Waste Management (EM) - The Vitrification Projects Division within EM is responsible for vitrifying high-level waste at Savannah River, West Valley, Hanford, and Idaho National Engineering Laboratory.
2. U.S. Geological Survey (USGS) - is responsible for site characterization activities related to geology, hydrology, tectonics, volcanism, seismicity, cartography, and geophysics.
3. Sandia National Laboratories (SNL) - is responsible for: a) repository systems development and conceptual design; b) data management and analysis; c) determining thermal properties of the host rock; d) repository sealing performance requirements, materials evaluation, design, and testing; e) analytical and computational models for the mechanical, thermal, hydrologic and transport behavior of geologic media; f) flow and transport experiments for validation of analytical and computational methods; g) characterization of regional climatology; and h) repository performance assessment.
4. Lawrence Livermore National Laboratory (LLNL) - is responsible for: a) characterization of the waste package environment; b) waste package material development and testing; c) waste package design, performance analysis, and testing; d) defense waste studies; and e) development of an engineered barrier system.
5. Los Alamos National Laboratory (LANL) - is responsible for: a) coordinating and serving as a technical lead on ESF testing; b) nuclide migration, geochemistry, mineralogy, volcanism, and petrology studies; c) design of the ESF integrated data acquisition system; and d) hydrologic research (through the DOE Albuquerque Field Office).
6. Oak Ridge National Laboratories (ORNL) - is responsible for: a) developing and maintaining spent-fuel and high-level waste databases and models; and b) supporting the support systems and operational planning components of the transportation program.
7. Lawrence Berkeley Laboratories (LBL) - is responsible for: a) supporting geological and hydrological studies; and b) performance assessment modeling and code development.
8. Pacific Northwest Laboratories (PNL) - is responsible for assisting OCRWM in the following areas: a) performance assessment activities; b) materials characterization; c) systems integration; and d) other technical activities as directed by OCRWM.
9. Energy Information Administration (EIA) - is responsible for collecting, analyzing, and reporting data on spent fuel.

UNITED STATES DEPARTMENT OF ENERGY  
WASHINGTON, D.C. 20585

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*Mr. Joseph Holovich  
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