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11/23/94

**SANDIA NATIONAL LABORATORIES
YUCCA MOUNTAIN SITE CHARACTERIZATION PROJECT
QUALITY ASSURANCE IMPLEMENTING PROCEDURE
ORGANIZATION**

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Date: 8/24/94

EFFECTIVE DATE: 9/9/94

~~SNL YMP~~
~~CONTROLLED DOCUMENT~~
~~(If Numbered in Red Ink)~~

~~Copy Number~~ 000014

UNCONTROLLED

102.7

INFORMATION COPY

SNL
YMP

RATIONALE FOR REVISION

Document No. QAIP 1-2 Rev. No. 07 Effective Date: _____

Document Title: Organization

ICN No.s That Are Incorporated _____

Change No. Rev 05
3 pg(s) All Sect/Subset
Step No.(s) All

Description (briefly describe the change):
Add new QARD requirements.
Add reference section.
Remove reference to QAPD.

Rationale (provide justification including the source causing the change, e.g., QARD change, SDR, etc.):
New QARD requirements.
Procedure update.

Change No. Rev 06
4 pg(s) All Sect/Subset
Step No.(s) All

Description:
Organizational title change.
Additional QARD requirements.

Rationale:
General update.

Change No. Rev 07
5 pg(s) 3,5,7,8 Sect/Subset
Step No.(s) T of C, Org. Chart, 4.2.6

Description: JL 8/23/94

Add Department 6314 to Organization

Rationale:
New Department added to YMP activities.

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1.0 PURPOSE

This procedure describes the organization and responsibilities of the Sandia National Laboratories Yucca Mountain Site Characterization Project (SNL YMP).

2.0 SCOPE

This procedure applies to all SNL YMP personnel. The organizational positions within the SNL YMP for which responsibilities are described include the YMP Management Department Manager and department managers. The applicable responsibilities of functional positions within the SNL YMP departments are described in SNL YMP procedures.

Requirements applicable to delegation of work/responsibility and quality assurance are included.

3.0 DEFINITIONS

The terms used in this procedure are consistent with the definitions provided in other SNL YMP quality assurance documents.

4.0 RESPONSIBILITIES

The SNL YMP organizational structure and levels of authority are shown in Figure 1. A description of the responsibility and authority of each position is described in this section. All departments delineated in this procedure report functionally to the SNL YMP Management Department Manager for SNL YMP activities. They report administratively to Nuclear Waste Management Center Director, with the exception of the Geoscience Assessment and Validation Department described in Section 4.2.7.

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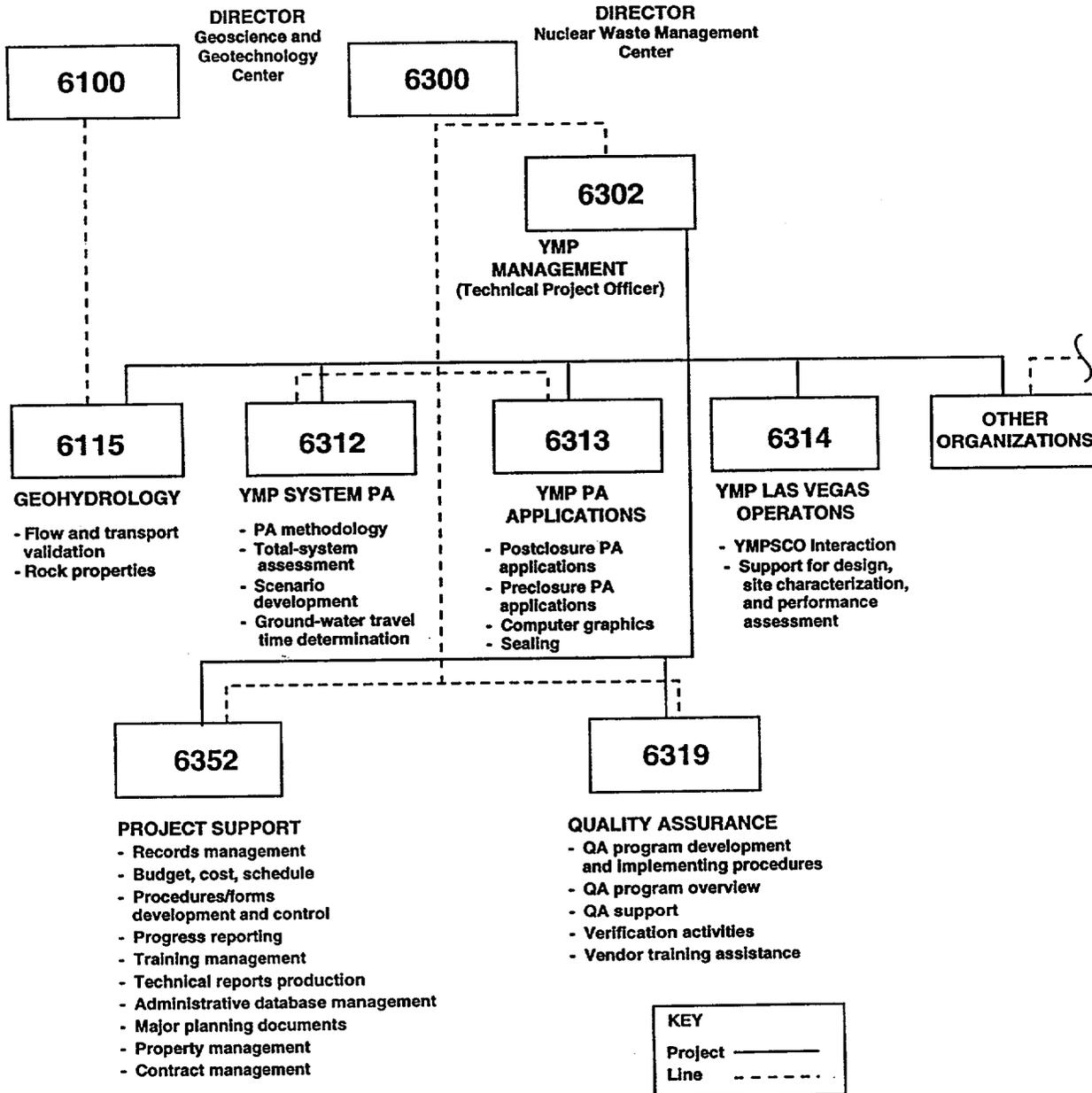


Figure 1. Sandia National Laboratories Yucca Mountain Site Characterization Project.

4.0 RESPONSIBILITIES, Continued

The quality assurance program provides for both the achievement of quality and the verification of that achievement. The departments have total responsibility for both achievement of quality and for detailed verification by persons or organizations not directly responsible for performing the work. The Quality Assurance Department through the conduct of overview activities such as audits, surveillances, and reviews, has the responsibility to provide assurance to the YMP Management Department Manager of the department's achievement and verification of quality.

4.1 Project Manager The SNL YMP Management Department (Dept. 6302) Manager, also known as the SNL Yucca Mountain Site Characterization Project (YMP) Technical Project Officer (TPO), is responsible for establishing and implementing the SNL YMP Quality Assurance Program, ensuring that Project activities for which SNL is responsible are implemented according to the Program, and ensuring that all Project documents and activities are consistent with the OCRWM Quality Assurance Requirements and Description (QARD) DOE/RW-0333P.

4.2 SNL YMP Department Managers The technical and administrative activities of the SNL YMP are performed and/or managed mostly by seven departments; each department has designated responsibilities within the YMP Work Breakdown Structure (WBS) Dictionary. The manager of each department has administrative, programmatic, and technical responsibility for the department.

4.2.1 YMP System Performance Assessment Department Manager The YMP System Performance Assessment Department Manager (Dept. 6312) is responsible for repository postclosure performance assessment as applied to the resolution of issues derived directly from the numerical criteria stated in NRC regulations. The Manager's responsibilities include developing and applying methods for calculating radionuclide releases to the environment.

4.2.2 YMP Performance Assessment Applications Department Manager The YMP Performance Assessment Applications Department Manager (Dept. 6313) is responsible for applying performance assessment methods for both preclosure and postclosure performance and design analyses, and developing and conducting appropriate rock mechanics laboratory and field tests

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4.0 RESPONSIBILITIES, Continued

4.2.2 YMP Performance Assessment Applications Department Manager (continued)

to provide a basis for validation of design and analysis methods, modeling, and design activities necessary for developing seals for various types of underground openings. The manager's responsibilities include conducting analyses in support of specific performance assessment and design issues; developing and supporting design methodologies for underground excavations; developing, verifying, and validating design software; and testing related to thermal-mechanical design of the repository.

4.2.3 Project Support Department Manager

The Project Support Department Manager (Dept. 6352) is responsible for functional areas including procedure and forms production and control, technical reports publication, records management, training management, project control (e.g., planning, scheduling, budgeting, cost control, and status reporting); coordination of major planning documents such as work plans; placement and management of support contracts; procurement of property with Nuclear Waste Funds and disposal of surplus equipment; and implementation and maintenance of a networked Administrative Information Management System (AIMS).

4.2.4 Quality Assurance Department Manager

The Quality Assurance Department Manager (Dept. 6319) is responsible for

- describing, integrating, and monitoring agreed-upon quality assurance activities within the scope of the quality assurance program,
 - ensuring QARD requirements are incorporated into implementing procedures and performing reviews of QARD revisions to assess the need for changes to procedures as appropriate.
 - ensuring the correct application of appropriate quality assurance requirements by line management through review and concurrence of the quality assurance program detailed technical quality assurance administrative procedures,
 - monitoring the quality assurance program through overview activities that, as a minimum, include surveillances, audits, and reviews, and
 - verifying the adequacy and implementation effectiveness of organizations' and subtier organizations' quality assurance program.
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4.0 RESPONSIBILITIES, Continued

4.2.4 Quality Assurance Department Manager (continued)

The Quality Assurance Department Manager has:

- an organizational position at the same level as the highest line manager responsible for performing activities affecting quality,
- no other duties or responsibilities unrelated to quality assurance that could prevent full attention to quality assurance program matters,
- sufficient freedom from cost and schedule considerations when opposed to quality considerations,
- access to senior management and management at the next higher program organizational level to identify, and obtain resolution of, unresolved quality concerns, and
- review and approval recommendation authority for quality assurance programs and revisions, and interpretations thereof.

In order for an individual to be assigned to the position of QA Department Manager, the individual must have knowledge and experience in the areas of quality assurance and management.

4.2.5 Geohydrology Department Manager

The Geohydrology Department Manager (Dept. 6115) is responsible for collecting, interpreting, and analyzing rock-property data describing the Yucca Mountain site; conducting experiments to validate performance assessment models describing the unsaturated zone; and performing data collection. These data will be used in the analyses which will establish the adequacy of the site in meeting regulatory requirements. The manager reports functionally to the TPO for SNL YMP activities and administratively to the Geoscience and Geotechnology Center Director.

4.2.6 YMP Las Vegas Operations

Department 6314 is primarily responsible for direct interaction with the Yucca Mountain Site Characterization Project Office (YMPSCO) and for supporting SNL site characterization, design, and performance assessment activities. The manager's responsibilities include facilitating SNL interactions with YMPSCO, planning and implementing site characterization activities, and providing support in the form of analyses and guidance to performance assessment and design.

5.0 REQUIREMENTS

5.1 Delegation of Work/ Responsibilities

5.1.1 SNL YMP Management Department Manager

The YMP Management Department Manager has delegated the work of establishing and implementing the SNL YMP Quality Assurance Program to the line department managers and the Quality Assurance Department Manager; however, he retains responsibility for achieving SNL YMP quality objectives.

5.1.2 SNL YMP Department Managers

A Department Manager may delegate responsibilities and authorities for attaining quality objectives, including adhering to the SNL YMP Quality Assurance Program, to other individuals or organizations, but responsibility for achieving project objectives is retained by the department manager, and, ultimately, retained by the Technical Project Officer.

5.2 Quality Assurance

5.2.1 Reporting Independence of Personnel

SNL YMP line personnel and Quality Assurance Department personnel have sufficient authority, access to work areas, and organizational freedom to:

- identify quality problems,
- initiate, recommend, or provide solutions to quality problems through designated channels,
- verify implementation of solutions, and
- assure that further processing, delivery, installation, or use of items important to safety or waste isolation are controlled until proper disposition of an unsatisfactory condition has occurred.

Quality Assurance Department personnel shall overview, by audits, surveillances, and reviews, the achievement and verification of quality activities performed by or for SNL YMP personnel.

6.0 RECORDS

None

7.0 REFERENCES

DOE/RW-0333P, Quality Assurance Requirements and
Description
