



NEVADA NUCLEAR WASTE STORAGE INVESTIGATIONS

QMP-01-01

Revision 0

WMPO ORGANIZATION

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**UNITED STATES DEPARTMENT OF ENERGY
NEVADA OPERATIONS OFFICE**

WMPD ORGANIZATION

Originated by: QASC

Approved by/date: *J. K. Kenil* for
WMPD Director 10/29/84

Effective date: 12/10/84

J. H. Ruidi
DOE/NV QAD Director 11-18-84

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QASC QA Manager

UNCONTROLLED

1.0 PURPOSE AND SCOPE

This procedure describes the organization and responsibilities of the Waste Management Project Office personnel.

2.0 APPLICABILITY

The organization and responsibilities outlined in this procedure apply to all Nevada Nuclear Waste Storage Investigations activities.

3.0 DEFINITIONS

3.1 Nevada Test Site Support Contractor - Organizations (Fenix & Scisson, Holmes & Narver, Reynolds Electrical Engineering) directly under contract to the U.S. Department of Energy, Nevada Operations Office (DOE/NV) for activities at NTS that support major NNWSI Project activities.

3.2 Participating Organizations - The U.S. Government agencies (United States Geological Survey), national laboratories (Los Alamos National Laboratory, Sandia National Laboratories, Lawrence Livermore National Laboratory), and major organizations (Science Applications International, Westinghouse) that participate directly in NNWSI Project activities.

3.3 Quality Assurance Support Contractor - The organization (Science Applications International) which supports the WMPO in the development and implementation of the NNWSI Project Quality Assurance requirements.

3.4 Appendix A, Definitions, of NNWSI-SOP-02-01 contain general definitions used in conjunction with the NNWSI Project.

4.0 RESPONSIBILITIES

4.1 DOE/NV Manager

4.1.1 Has the ultimate organizational responsibility for the NNWSI Project, Nevada Test Site including the work associated with the Participating Organizations and NTS Support Contractors.

4.1.2 Provides policy guidance for DOE/NV activities.

4.1.3 Assures WMPO is provided with matrix staff support from other NV offices and divisions including contracts and procurement, environmental health and safety, legal, public affairs, quality assurance, resource management and budget, and others when requested by WMPO.

4.2 Director WMPO

4.2.1 Develops, recommends, interprets, and implements policies and plans to manage the NNWSI Project that has been assigned to DOE/NV by the DOE office of Civilian Radioactive Waste Management (OCRWM). Directs the Participating Organizations and NTS Support Contractors through the issuance of technical and programmatic guidance, technical integration of the NNWSI Project, project planning and documentation, and quality assurance.

4.2.2 Conducts administrative duties necessary for WMPO to function as an integral part of the Nevada Operations Office, including management and supervision.

4.2.3 Initiate and monitor the procurement actions necessary to support WMPO. Provides technical guidance and administrative support for contracts and agreements to achieve NNWSI Project objectives.

4.2.4 Prepares and issues technical and programmatic guidance to the Participating Organizations and NTS Support Contractors that support the NNWSI Project.

4.2.5 Responsible for the development and implementation of a QA program that meets the requirements of the Nuclear Regulatory Commission (NRC) as outlined in 10 CFR 60.

4.2.6 Assures that peer reviews are conducted when needed.

4.2.7 Conducts program planning and preparation of an integrated budget for the NNWSI Project. Prepares a periodic summary of program costs, technical milestone progress, and program status activities.

4.2.8 Organizes and coordinates interactions with the State of Nevada, manages the consultation and coordination programs required by law, and conducts the necessary public affairs activities.

4.2.9 Develops and coordinates the strategies for the technical program and for the regulatory review of the geologic repository facilities.

4.2.10 Requests matrix support from other NV offices and divisions.

4.3 Assistant Director WMPO

4.3.1 Assumes the responsibilities of the Director WMPO during the absence of the Director WMPO.

4.4 Geologic Investigation Branch Chief

4.4.1 Provides the management direction and administrative and technical support necessary to integrate and conduct site characterization activities, including geologic and hydrologic surveys, drilling and borehole testing, performance assessment, regulatory and institutional interface, environmental characterization studies and monitoring, and documentation activities.

4.4.2 Plans, develops, manages, documents, and integrates the site characterization activities conducted for WMPO by the Participating Organizations and NTS Support Contractors.

4.4.3 Provides the management direction and administrative support necessary to conduct the drilling and borehole testing activities, including well drilling permits, necessary land acquisition, and environmental monitoring and documentation.

4.4.4 Directs the implementation of the required quality assurance/quality control program for acquisition, analysis, interpretation, and storage of site characterization data.

4.4.5 Directs analyses of the geologic and hydrologic data necessary to establish the suitability of the proposed site for a radioactive waste repository, including model and computer code development and documentation.

4.4.6 Directs preparation and assures coordination and review of the documents, such as the Site Characterization Report, Site Recommendation Report, Safety Analysis Report, Environmental Assessment, Environmental Report, etc., that are required by the DOE/NV and by regulatory agencies such as the Nuclear Regulatory Commission.

4.4.7 Provides interface with the NRC in presenting the work of the NNWSI Project and communicating to the Participating Organizations and NTS Support Contractors the necessary requirements to obtain a license for a radioactive waste repository.

4.4.8 Maintains thorough knowledge of requirements of 10 CFR 60, 10 CFR 960, and 40 CFR 191 as they apply to site characterization for a radioactive waste repository.

4.4.9 Identifies the need for functional matrix support from DOE/NV staff consistent with the DOE/NV matrix management organizational concept to the Director of WMPD.

4.4.10 Analyzes the budget requirements to support the site characterization, site evaluation, and regulatory review for the NNWSI Project.

4.4.11 Monitors and evaluates cost/benefit of the utilization of resources and the degree to which proposed objectives have been achieved.

4.4.12 Assures that the activities under his purview are conducted in accordance with the NVO-196-17, Quality Assurance Plan.

4.4.13 Initiates, and either conducts peer reviews or has peer reviews conducted.

4.5 Technology Development and Engineering Branch Chief

4.5.1 Provides management direction and the administrative and technical support necessary to integrate and conduct development of technology and engineering activities, including the design, construction, and operation of major test facilities; repository systems documentation and analysis; waste package design and performance evaluation; repository design and performance evaluation; and documentation activities.

4.5.2 Plans, develops, manages, documents, and integrates the technology development and engineering activities conducted for WMPD by the Participating Organizations and NTS Support Contractors.

4.5.3 Directs the conceptual development of major technology projects and provides management administrative integration and coordination support necessary to design, construct, and operate major test facilities on NTS.

4.5.4 Directs the implementation of the required quality assurance/quality control program for technology development, including engineering and construction activities for facilities, systems, and components on major tests and a repository.

4.5.5 Directs the development and maintenance of the geologic disposal system definition covering functional requirements, performance measures, performance criteria, and constraints that will serve as the technical basis for the design of a repository in tuff.

4.5.6 Administers the development, integration, review, and approval of a site-specific conceptual design and the subsequent engineering plans and specifications of the repository.

4.5.7 Administers the construction of the repository to assure timely and economical completion consistent with approved plans, schedules, and budgets.

4.5.8 Provides for the design and development of the waste package, including receipt, handling, and permanent disposal of high-level radioactive waste.

4.5.9 Provides for the operation and eventual decommissioning of test facilities necessary to support the development of radioactive waste handling, storage, and disposal.

4.5.10 Oversees the design, procurement, and construction of major exploratory facilities necessary to support site characterization.

4.5.11 Identifies the need for functional matrix support from DOE/NV staff consistent with the NV matrix management organizational concept to the Director of WMPO.

4.5.12 Maintains thorough knowledge of requirements of 10 CFR 60, 10 CFR 960, and 40 CFR 191, as they apply to design, construction, and operation of nuclear-related facilities and repositories.

4.5.13 Analyzes the budget requirements to support technology development and engineering activities in support of the NNWSI Project.

4.5.14 Monitors and evaluates the cost/benefit of the utilization of resources and the degree to which proposed objectives have been achieved in waste package development systems analysis, test facilities operations, and repository design and analysis.

4.5.15 Assures that the activities under his direct control are conducted in accordance with the NVO-196-17 Quality Assurance Plan.

4.5.16 Initiates, and either conducts peer reviews or has peer reviews conducted.

4.6 WMPO Branch Staff Personnel

4.6.1 Assist the Branch Chief to whom they report in implementing the NNWSI Project activities for which they are responsible.

4.6.2 Assure that the Participating Organizations and NTS Support Contractors implement the NVO-196-17 on those activities for which they are responsible.

4.7 Director, Quality Assurance Division

4.7.1 Reviews the NNWSI Project QAP, WMPO QAPP, and the implementing procedures for each.

4.7.2 Provides Guidance to WMPO in Quality Assurance.

4.7.3 Provides assistance with audits, reviews, and other QA activities when requested by WMPO.

4.7.4 Provides the WMPO with a matrix support individual (Project Quality Manager) to manage and implement NNWSI QA activities.

4.7.5 Performance of an annual independent audit of the WMPO QA activities and report the results to management.

4.8 DOE/NV Office and Division Directors

4.8.1 Assists the Director, WMPO, to implement NNWSI Project activities in their areas of administrative authority and control.

4.8.2 Assign matrix staff support personnel to WMPO as required.

4.9 Quality Assurance Support Contractor (QASC)

4.9.1 Assists WMPD by developing, implementing, and maintaining the NNWSI Project Quality Assurance Plan, the WMPD Quality Assurance Program Plan, and Implementing Procedures for the waste management activities.

4.9.2 Reviews Participating Organizations' and NTS Support Contractors' QAPPs and QA Implementing Procedures.

4.9.3 Makes recommendations to WMPD on participants' compliance with regulatory and NNWSI Project quality assurance requirements.

4.9.4 Conducts QA audits and surveillances of the Participating Organizations and NTS Support Contractors for WMPD.

4.9.5 Provides administrative support to WMPD in carrying out QA responsibilities and requirements.

5.0 PROCEDURE

5.1 The Waste Management Project Office organizational structure is shown in Exhibit 01.

5.2 The DOE/NV utilizes a matrix management organizational concept to support WMPD. The administrative responsibility, authority, and accountability for DOE/NV matrix personnel, including Nevada Test Site Office (NTSO) and QAD, that support the NNWSI Project remains with the respective DOE/NV organizational element. The functional responsibility and accountability of the personnel is to WMPD.

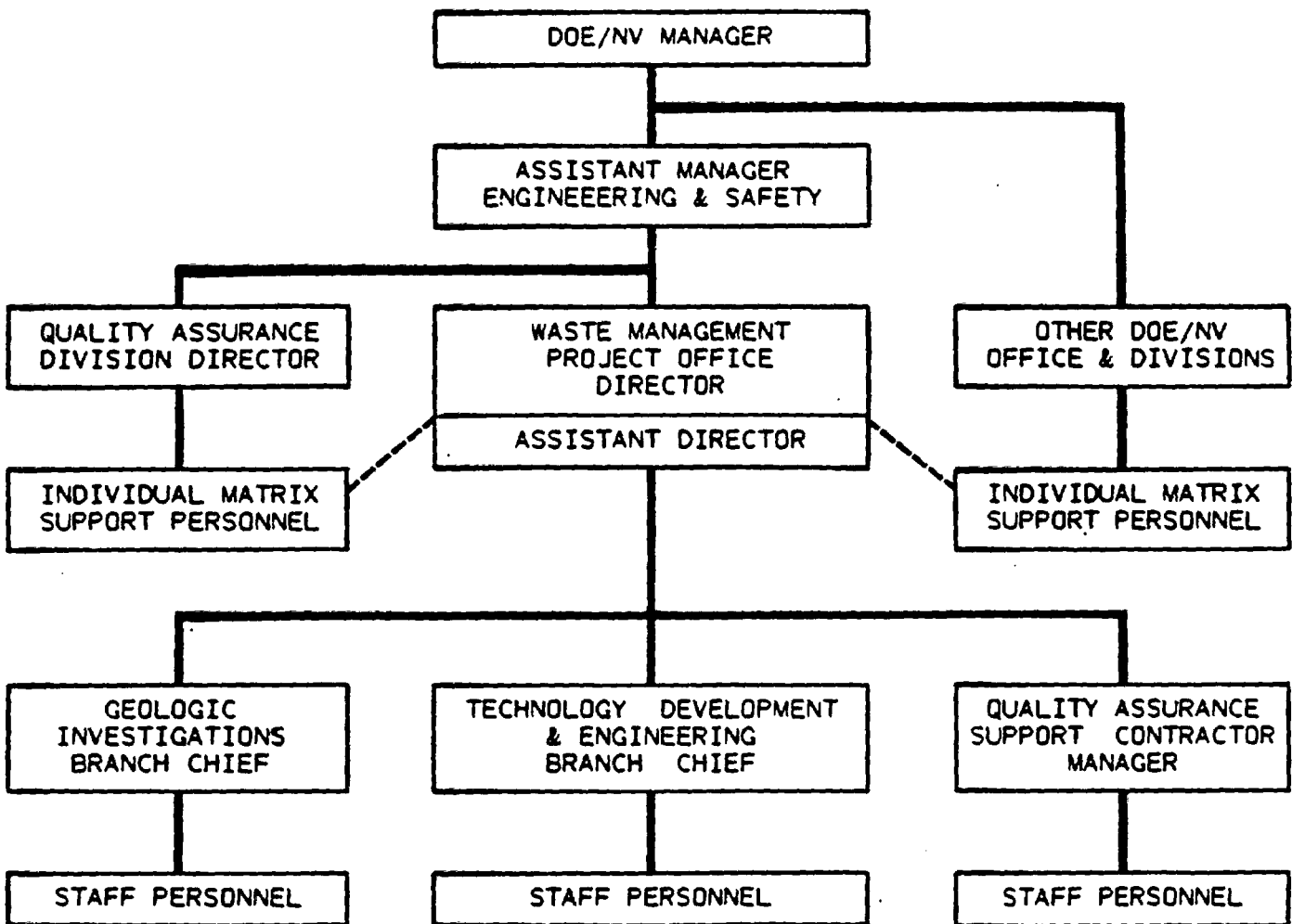
6.0 REFERENCES

- 6.1 NVO-196-17, NNWSI Project Quality Assurance Plan.
- 6.2 NVO-196-18, WMP0 Quality Assurance Program Plan.
- 6.3 DOE/NV Organizational Chart.

EXHIBIT 01

WMPO ORGANIZATION CHART

(including matrix & QASC support)



————— DOE/NV & Project Participant Administrative Responsibility, Authority and Accountability

- - - - - DOE/NV Matrix Support Functional Responsibilities and Accountabilities