Selected NRC Products
High-Level Waste Program

December 30, 1991

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INTRODUCTION

The purpose of this list is to identify selected U.S. Nuclear Regulatory Commission (NRC) high-level waste program products and provide a summary of current and planned documents issued by the NRC staff. The list is not intended to be directive in nature but rather to offer a collection of products generated by the high-level waste (HLW) program in order to provide timely guidance/advice for prelicensing and eventual licensing phases. It is necessary to use a variety of documents to provide such guidance because of: a) variability in the nature of the technical issues in HLW; b) the site-specific nature of many of the issues; c) the evolving nature of issues with time as the exploratory site investigations are carried out; and d) variability in what is an appropriate level of detail that must be addressed in guidance.

Due to the uncertainties in investigative results and changes of priorities and schedules, guidance flexibility is needed. The variety of existing documents and procedural forms allows the staff to take a flexible approach in assuring efficient, timely and complete guidance in the prelicensing and licensing phases. This summary permits interested parties who have limited time and who cannot, practically speaking, follow the great amount of detail that is the subject of the prelicensing guidance process to be informed of how the process is working. This summary offers a listing of generic as well as site-specific products which have been or are being planned. The document will be reviewed and reissued on a periodic basis.

The summary is divided into three major components: Regulations, Licensing Guidance Process; and NRC Review Plans. Copies of the referenced documents can be obtained from the NRC Public Document Room.

I. REGULATIONS

While there are a number of NRC and other Federal agencies rules and regulations which pertain to the prelicensing and licensing actions, this list includes only those products produced by the HLW Program.

10 CFR Part 60--Disposal of High-Level Radioactive Wastes in Geologic Repositories.

	TITLE	ISSUE DATE
o	Licensing Procedures for HLW in Geologic Repositories	February 1981
	- Site Characterization and State/Tribal Participation (Final)	July 1986
	- Negotiated Rulemaking on Submission and Management of Records and Documents (Final)	April 1989

	- NEPA/EIS Adoption (Final)	July 1989
o	Technical Criteria for HLW in Geologic Repositories	June 1983
	- Unsaturated Zone	July 1985
	- EPA Standard (Proposed)	June 1986
	- Repository Operations Criteria (Proposed)*	TBD

*Previously titled "Design Basis Accident Dose Limit" in SECY-88-285

10 CFR Part 61 was amended on May 25, 1989 (54 FR 22578) to require geologic repository disposal of greater-than-class-c low-level waste (LLW) unless the Commission has approved an alternative means of disposal.

II. LICENSING GUIDANCE PROCESS

This section is divided into ten areas: Site Characterization Analysis (SCA) and Semi-annual update reviews; Regulatory Guides; Staff Positions and Staff Technical Positions; Documented Technical Meetings; Site Visits, Observations of Department of Energy (DOE) Quality Assurance (QA) Program Audits, Observations of DOE QA Program Surveillances, and NRC Staff Audits; Safety Evaluations; Environmental Assessment Reviews; Contractor Reports (Research and Special Studies); State/Tribal Interactions; and Program Planning and Management Reviews.

A. SITE CHARACTERIZATION ANALYSIS AND SEMI-ANNUAL REPORTS

On December 22, 1987, the President signed into law a bill amending the Nuclear Waste Policy Act (the Nuclear Waste Policy Amendments Act of 1987, Pub. L. No. 100-203). The primary effect of the legislation is to focus DOE's site characterization efforts on the Yucca Mountain in Nevada to determine its suitability as a site for a geologic repository. Accordingly, DOE issued a Consultative Draft Site Characterization Plan (CDSCP) for the Yucca Mountain site on January 8, 1988. A plenary session on the CDSCP was held in Reno, Nevada on January 28-29, 1988. The NRC staff completed its review of the CDSCP and transmitted its draft point papers to DOE on March 7, 1988. Subsequently, DOE conducted consultations with the NRC and State of Nevada to discuss comments on the CDSCP. One such workshop was held in March to discuss NRC's draft comments, and the NRC continued efforts to resolve these comments in a workshop with DOE in April on alternative conceptual models. The NRC transmitted the final point papers to DOE on May 11, 1988. After consideration of the comments received and workshop discussions, DOE issued the statutory SCP required by the Nuclear Waste Policy Act (NWPA) and 10 CFR Part 60 on December 28, 1988. NRC completed its review of the SCP and transmitted its SCA to DOE on July 31, 1989. The SCA was issued as NUREG-1347 in August 1989. Follow up will be provided by DOE issuing semi-annual progress reports which will be commented on by the NRC as required under the NWPA (Section 113). On March 2, 1990 the DOE issued its first semi-annual report, covering the period

September 1[illegible], 1988 through September 30, 1989. The NRC transmitted review comments to DOE on June 25, 1990.

B. REGULATORY GUIDES

Regulatory Guides are drafted by the staff to establish a standard approach to licensing. They are not directives, but reflect acceptable procedures or actions which would be considered acceptable by the staff.

The current plans are to issue standard format and content documents as Regulatory Guides.

TITLE	DESCRIPTION	ISSUE DATE
Regulatory Guide 4.17	Standard Format and Content of Site Characterization Plans for High-Level Waste Geologic Repositories	March 1987
Regulatory Guide TBD	Draft Format and Content for a License Application	November 1990*
Regulatory Guide TBD	Topical Guidelines for Inclusion of Information in the Licensing Support System (LSS)	TBD

*Date noticed in the Federal Register.

C. STAFF POSITIONS AND STAFF TECHNICAL POSITIONS

Prior to the passage of the Nuclear Waste Policy Amendments Act of 1987, the Staff Technical Positions (STPs) had been divided into two types: Generic Technical Positions, dealing with issues which relate to licensing activities for repositories independent of the technology or site selected, and Site STPs, which give site specific guidance/advice. Now with the focus on one site, all STPs will be related to the Yucca Mountain site.

STPs provided a format for establishing the staff's positions on site specific issues. Issue-oriented Site Technical Positions (ISTPs) were generated in each technical review area (geology/geophysics, geochemistry, waste package, repository design/rock mechanics, and hydrogeology) for each site. ISTPs constituted what the staff considered to be a systematic and comprehensive identification of issues which need to be resolved for licensing. The ISTPs were coordinated with DOE/NRC workshops in individual program areas.

The concept of STPs was developed to provide maximum flexibility in completing a series of technical positions that have sufficient formality to record staff positions and to notify the prospective licensee (DOE). STPs will be initiated by the need for documentation of a staff concern or in response to a major question raised by the licensee, and will be issued as appropriate throughout the pre-licensing period. They establish acceptable methods of

analysis, minimum information needs, or acceptable methods of data gathering and form the basis for tracking issues over time. In addition, they provide criteria that, when met, would allow staff to conclude that DOE has complied with the applicable regulations.

	TITLE (Final unless otherwise noted)	ISSUE DATE
o	Documentation of Computer Codes, (NUREG-0856) 48FR31761	July 1983
o	Modeling Strategy Document for HLW Performance Assessment	July 1984
o	Licensing Assessment Methodology for HLW Geologic Repositories (Draft)	July 1984
o	ISTP for Nevada Nuclear Waste Storage Investigations (NNWSI) (Draft)	September 1984
o	Determination of Radionuclide Solubility in Groundwater for Assessment of High-Level Radionuclide Waste Isolation	November 1984
o	Waste Package Reliability Analysis	December 1985
o	In-Situ Testing During Site Characterization	December 1985
o	Design Information Needs in Site Characterization Plans	December 1985
o	Borehole and Shaft Seals	February 1986
o	Interpretation and Identification of the Disturbed Zone (Draft)	July 1986
o	Groundwater Travel Time (Draft)	July 1986
o	Determination of Radionuclide Sorption for HLW Repositories	January 1987
o	Qualification of Existing Data for HLW Repositories (NUREG-1298)	February 1988
o	Peer Review for HLW Repositories (NUREG-1297)	February 1988
o	Guidance for Determination of Anticipated Processes and Events and Unanticipated Processes and Events (Draft) (PLEASE NOTE THAT THIS IS NOW BEING INCORPORATED UNDER THE CONFORMING AMENDMENTS TO THE EPA STANDARD)	February 1988

o	Items and Activities in the High-Level Waste Geologic Repository Program Subject to Quality Assurance Requirements (NUREG-1318)	April 1988
o	Tectonic Models under 10 CFR Part 60 (Draft)	June 1989
o	Postclosure Seals, Barriers, and Drainage System in an Unsaturated Medium (NUREG-1373)	August 1989
o	Investigations to Identify Fault Displacement and Hazards at a Geologic Repository (2nd Draft)	April 1991
o	Staff Technical Position on Regulatory Considerations in the Deisgn and Construction of the Exploratory Shaft Facility (NUREG-1439)	July 1991
	Geologic Repository Operations Area Underground Facility Design -- Thermal Loads (Draft)	October 1991

In addition to STPs, the staff also issues Staff Positions (SPs). They are issued as guidance to the Office of Nuclear Material Safety and Safeguards (NMSS) staff responsible for the review of a license application for the construction and operation of a geologic repository for high-level waste. In an SP, the interpretation of a specific requirement in 10 CFR Part 60. Because the SP is a requirement in 10 CFR Part 60. Because the SP is a staff position, it is not a substitute for the Commission's regulations and is not binding upon other parties to the licensing proceedings. Those SPs issued by the staff are listed below.

NUMBER	TITLE	ISSUE DATE
SP 60-001	"Clarification of the 300-1000 Year Period for Substantially Complete Containment (SCC) of High-Level Wastes with the Waste Packages under 10 CFR 60.113(A)(1)(ii)(A)"	August 1990
SP 60-002	"Performance Objectives Relating to Isolation of the Waste"	August 1990
SP 60-003	"Definition of the Term Performance Objectives as used in 10 CFR 60.133(i)"	August 1990

D. DOCUMENTED TECHNICAL MEETINGS

The purpose of the technical meetings is to assure that an information flow is maintained between the NRC and DOE which facilitates the accomplishment by each agency of its responsibilities relative to site investigation and site characterization. Technical meetings are held to review data, review and consult on interpretation of data, identify potential licensing issues, agree on the adequacy of methods and approaches for acquisition of information and data as well as available data. Schedules of activities pertaining to these technical meetings will be made publicly available to all interested parties. A written report agreed to by both NRC and DOE will be prepared for each meeting including agreements reached. The meetings are open to participation by State/Tribal representatives and allow public attendance as observers.

Prior to the passage of the Nuclear Waste Policy Amendments Act of 1987, meetings were listed as either site-specific or generic in nature. Now that all meetings are related to the Yucca Mountain Project, and will be listed as such, BWIP and Salt Workshops and Technical Meetings previously held have been deleted from this document. The Generic Workshops and Technical Meetings are still being included due to their historical nature and since they pertained to the Yucca Mountain Project as well as the others previously considered for the repository.

YUCCA MOUNTAIN PROJECT WORKSHOPS AND TECHNICAL MEETINGS

MEETING	DATE
Commission Briefing by DOE (OCRWM)	December 17, 1991
Regulatory Strategy Meeting with NRC/DOE	November 20, 1991
Interactions Scheduling Meeting with DOE/NRC	November 20, 1991
Performance Assessment Technical Exchange	November 19-20, 1991
DOE/NRC Quality Assurance Meeting	November 14, 1991
NWTRB Meeting on Structural Geology and Geoengineering	November 12-13, 1991
Procedural Agreement Meeting with NRC/DOE	October 28, 1991
Performance Assessment Technical Exchange	October 29-30, 1991
NWTRB meeting on Effects of Thermal Loading on Repository Design	October 8-10, 1991
NWTRB/DOE Meeting on Transportation and Systems	September 25-26, 1991
NRC/DOE Meeting on ESF Design	September 16, 17, 1991
NRC/DOE Procedural Agreement Meeting	September 12, 1991

Meeting with DOE and State of Nevada on items of interest regarding QA	August 29, 1991
NWTRB Panel mtg on Transportation and Systems	August 15, 1991
Technical Exchange with DOE regarding Data Management	July 30, 1991
NWTRB on International Waste Management	July 16, 17, 1991
NWTRB Public mtg on ESF Design Status	July 15, 1991
NWTRB Panel mtg on HG&G and SG&G	June 25-27, 1991
NRC/DOE Bi-monthly QA Meeting	June 25, 1991
NRC/DOE Interactions Meeting	May 30, 1991
NWTRB Panel meeting on Performance Assessment with DOE and NRC	May 20-21, 1991
Bi-monthly QA Meeting	April 25, 1991
NWTRB Panel Meeting on Quality Assurance	March 26-27, 1991
NRC/DOE meeting on Radionclide Retardation Testing and Modeling	March 20-21, 1991
DOE/EPRI/NWTRB panel meeting on Volcanism	March 1, 1991
Technical Exchange with DOE on Seismic Hazards	February 20, 1991
DOE Software QA Workshop	February 4-7, 1991
Exploratory Shaft Facility Alternative Study	January 29-31, 1991
DOE Software QA Workshop	January 22-23, 1991
NRC/DOE periodic QA meeting	January 18, 1991
NWTRB meeting on Exploratory Shaft Facility	January 17, 1991
Interactions Scheduling Meeting with NRC and DOE	December 13, 1990
NRC/DOE/EPA Interactions Meeting on Performance Assessment	November 27-28, 1990
NWTRB meeting with NRC/DOE on Alternatives Analysis Study for the Exploratory Shaft Facilitites	November 19, 1990

NRC/DOE Meeting to discuss Quality Assurance	November 8, 1990
NWTRB Quality Assurance Panel Meeting	November 1-2, 1990
NRC/DOE Licensing and Management Meeting	October 29, 1990
NRC/DOE Technical Exchange/Calico Hills Testing	October 12, 1990
NWTRB Meeting on Exploratory Shaft Facility and Surface Base Testing	October 11, 1991
NRC/DOE Technical Exchange/Unsaturated Zone Testing	September 26, 27, 1990
Technical Exchange with DOE On Sorption Testing	September 13, 1990
NRC/DOE Licensing and Management Meeting	September 5, 1990
NWTRB - EBS Panel Meeting	August 28-29, 1991
NRC/DOE QA Meeting	July 31, 1990
NRC/DOE Interactions Scheduling Meeting	July 31, 1990
NRC/DOE periodic QA meeting	July 19, 1990
NRC/DOE Licensing and Management Meeting	July 19, 1990
Technical Exchange and Field Trip on Significant Faults	June 12, 1990
NRC/DOE QA Meeting	May 23, 1990
Meeting to discuss the proposed QA Workshop	May 22, 1990
NRC/DOE QA Meeting	April 27, 1990
NWTRB - Seismic Design Basis	April 12, 1990
Technical Exchange on Exploratory Shaft Facility	April 7, 1990
NWTRB Meeting on Yucca Mountain Seizmic Issues	April 4, 1990
NRC/DOE QA Meeting	March 21, 1990
Interactions Scheduling Meeting	March 20, 1990

NWTRB - Repository Design Process and Performance Assessment	March 19, 1990
Technical Assessment Review of the ESF Anomaly	March 6, 1990
NRC/DOE Bimonthly QA Meeting	February 15, 1990
Technical Exchange on Calcite and Silica	February 6, 1990
Technical Exchange on Data Management	January 9, 1990
Technical Exchange on the Draft Technical Position on Seismic Hazards Evaluation	December 19-20, 1989
NRC/DOE Bimonthly QA Meeting	December 13, 1989
Technical Exchange on Tectonic Models	November 28-29, 1989
Meeting on Interactions Scheduling	November 7, 1989
Technical Exchange and Site Visit on Tectonics	Oct. 31-Nov. 2, 1989
Technical Exchange on Container Material	October 26, 1989
Technical Exchange on the ESF	October 4, 1989
Technical Exchange on Tectonics	September 26, 1989
NRC/DOE Bimonthly QA Meeting	September 7, 1989
Meeting on Tectonics	August 30-31, 1989
Meeting on Substantially Complete Containment	August 29, 1989
Meeting to Discuss Interactions	July 26, 1989
NRC/DOE Bimonthly QA Meeting	July 11, 1989
Meeting on Design Control Process and DOE's QA Programs	July 6-7, 1989
Meeting on SCP/DAA Preliminary Concerns	May 9-10, 1989
Meeting on Quality Assurance	May 9, 1989
NRC/DOE/NV/CNWRA Meeting on Ongoing Work	April 25, 1989
Meeting on Quality Assurance	March 22, 1989
Meeting on Quality Assurance	February 23, 1989
Meeting on Air Force Overflights	February 8, 1989

Meeting on QA Issues	January 25, 1989
Meeting on Study Plans	December 15, 1988
Meeting on ESF Design Control	December 8, 1988
Meeting on ESF Design Control	November 23, 1988
Meeting on DOE's QA Program Description	November 18, 1988
Meeting on ESF Design Control	November 3, 1988
Meeting on ESF Open Items	October 19-21, 1988
Meeting on DOE/OCRWM QA Requirements Document	September 28, 1988
Exploratory Shaft Facility Technical Meeting	July 18-19, 1988
Meeting on OCRWM QA Program	July 7-8, 1988
Alternative Conceptual Models	April 11-14, 1988
Workshop on NRC's Draft Point Papers on the CDSCP	March 21-24, 1988
DOE's QA Program Workshop	March 18, 1988
Seismotectonics Technical Meeting	September 22-23, 1987
Exploratory Shaft Meeting	April 14-15, 1987
Management Meeting	June 12, 1986
Management Meeting	February 19-20, 1986
Exploratory Shaft Design/Construction	August 27-28, 1985
Waste Package	July 23-25, 1985
Management Meeting	March 11, 1985
Sample Acquisition for Topopah Spring Member and Calico Hills Tuff	February 4, 1985
QA Visit	December 13-14, 1984
Geology Data Review	September 17-28, 1984
Hydrology Data Review	July 25-28, 1984
Design/Rock Mechanics Data Review	July 17-20, 1984

Geochemistry	July 10-13, 1984
Waste Package	October 18-19, 1983
Geology	October 4-6, 1983
Hydrology	September 20-21, 1983
Hydrology Data Review	January 27-28, 1983
Conceptual Design	January 24-25, 1983
Hydrology	January 18-19, 1983
Geochemistry	January 12-13, 1983
Site Technical and Program Review	May 17-19, 1982
Peer Review of NNWSI	August 24-28, 1981
Site Technical and Program Review	February 16-24, 1981
Site Technical and Program Review	September 24-25, 1979
Geochemistry and Hydrogeology	March 2, 1979
Site Technical and Program Review	February 23-24, 1978
Seismic/Geologic Design Criteria for Waste Repository	January 25, 1978

GENERIC WORKSHOPS AND TECHNICAL MEETINGS

MEETING	DATE
Issues Hierarchy and Issue Resolution Strategy	October 8-9, 1987
Generic Design Basis Accident Dose Limit	August 26, 1987
Q-List GTP	August 25, 1987
NRC Staff Comments on OGR QA Plan	August 19, 1987
QA Technical Meeting on Peer Review and Qualification of Existing Data GTPs	May 14, 1987
Issues Hierarchy and Issue Resolution Strategy	March 3-4, 1987
DWPF Vitrification Process, Waste Form and Supporting Data Base Technical Meeting	December 9-10, 1986
Waste Acceptance Process Meeting	July 31, 1986

Level of Detail in the SCP	May 7-8, 1986
Pilot Project Demo/Status of NWPA Program	April 29, 1986
EA Site Ranking Methodology Briefing	April 23, 1986
Licensing Support System Coordinating Group	April 22, 1986
Rod Consolidation	December 17, 1985
Generic QA Meeting	December 4-5, 1985
Generic Seismo-Tectonics Meeting	December 3-4, 1985
Site Characterization Plans--Chapter 8	October 29-30, 1985
Subsystem Performance Allocation	September 26-27, 1985
DOE Position Paper on Retrievability and Retrieval	July 31, 1985
Exploratory Shaft Facility Design/Construction, Licensing Issues, and the Exploratory Shaft Test Plans	July 18, 1985
Q-list Methodology	July 1, 1985
Appendix 7 to Site Specific Agreement--On-Site Representatives Activities	June 14, 1985
Management Meeting with DOE	May 30, 1985
Design Information Needs for SCPs	April 18, 1985
Performance Allocation Meeting	April 17, 1985
Review of Report "Recommended Safety, Reliability, QA and Management Techniques with Possible Application by DOE to the HLW Repository Program"	April 11, 1985
Discussion of NRC Comments on DOE's Draft EAs	April 8-9, 1985
DOE Annotated Outline for Site Characterization Plans	February 13, 1985
Development of Licensing Issues and Information Management Systems	February 8, 1985
QA Site Visits Summary Briefing	January 28, 1985
Briefing on NRC Licensing Process	January 28, 1985

NRC's Comments on DOE Draft Mission Plan	December 17, 1984
Preparation for QA Visits to Project Sites	November 30, 1984
Transportation Model Workshop	November 27-28, 1984
NRC Licensing Process Briefing to DOE Field Offices	November 5-8, 1984
QA Review Plan and Upcoming QA Site Visits	October 24, 1984
QA Site Visits Planning Meetings	October 18, 1984
In-Situ Testing Planning Meeting	August 9, 1984
DOE Siting Guidelines	April 18, 1984
Discussion of the OCRWM Mission Plan	April 11, 1984
NRC Review Plan of QA for Site Characterization	May 12, 1983

E. SITE VISITS, OBSERVATIONS OF DOE QA PROGRAM AUDITS, OBSERVATIONS OF DOE QA PROGRAM SURVEILLANCES, AND NRC STAFF AUDITS

The purpose of site visits is for the staff to gain an understanding of ongoing programs. In particular, the staff (1) performs reviews of selected documents; (2) holds discussions with DOE and its contractors; and (3) observes instrument, data collection, and processing activities. Following site visits, the NRC staff issues a short report summarizing the results. (There were site visits prior to 1988, but they were mainly for familiarization with the site and maintaining cognizance of the ongoing programs, versus the site visits by the staff listed below for the purposes stated above.)

The purpose of NRC observations of DOE audits and surveillances is to assess whether DOE is meeting the NRC's quality assurance (QA) program requirements. From the observations, the staff is able to assess the adequacy of DOE's audit and surveillance programs, gain confidence in DOE's technical oversight, and obtain information on the adequacy of the audited (or surveilled) organization's implementation of their QA program. After each observation, a report is issued discussing the results.

The purpose of NRC staff audits is to independently assess the adequacy of the audited organization's implementation of their QA program. During the audit, staff (1) holds discussions with audited organization's staff, (2) compares QA records with QA program requirements, and (3) observes activities in progress with regard to QA program requirements. Following the audit, staff issues a report summarizing the audit and results.

Site Visits

USGS Seismic Monitoring Program	Feb 29-March 3, 1988

NRC/DOE/State of Nevada Volcanism Field Visit	May 1-5, 1989
Hydrology Site Visit, Mercury, NV	July 24-28, 1989
Air Core Drilling Demonstration, Milford, Utah	August 19, 1989
Prototype Drilling and Core Sample Handling (drilling site near Superior, AZ)	March 19-22, 1990

Observations of DOE QA Program Audits

Westinghouse	Aug 31-September 4, 1987
Westinghouse	November 9-21, 1987
Fenix & Scisson (F&S)	Feb 22-March 4, 1988
PNL/Materials Characterization Center (MCC)	February 22-25, 1988
Holmes & Narver (H&N)	March 28-April 1, 1988
USGS, Menlo Park, CA	April 26-28, 1988
USGS, Denver, CO	June 8-17, 1988
Sandia National Laboratories (SNL), Albuquerque, NM	July 25-29, 1988
Reynolds Electrical & Engineering Co, Las Vegas, NV (REEco)	Aug 22-26, 1988
Los Alamos National Laboratory (LANL)	October 3-7, 1988
Lawrence Livermore National Laboratory (LLNL)	October 24-27, 1988
H&N (Supplemental)	November 1-4, 1988
F&S (Supplemental)	November 7-10, 1988
F&S	April 10-14, 1989
H&N	April 24-26, 1989
LLNL	June 5-9, 1989
USGS, Denver, CO	August 14-23, 1989
SNL Albuquerque, NM	September 11-15, 1989
REEco	September 25-29, 1989
LANL	November 13-21, 1989

LANL	March 26-30, 1990
LLNL	May 14-18, 1990
USGS, Denver, CO	June 25-29, 1990
H&N	July 31-August 2, 1990
SNL	August 20-24, 1990
F&S	September 25-28, 1990
OCRWM	October 15-19, 1990
YMPO	October 22-26, 1990
SAIC	November 13-16, 1990
KOH	January 7-11, 1991
REEco	February 25-March 1, 1991
LANL	March 25-29, 1991
SAIC	June 21, 1991
LLNL	July 31, 1991
SNL	August 19, 1991
YMPO	October 28, 1991
REECo	November 18, 1991

OBSERVATIONS OF DOE QA PROGRAM SURVEILLANCES

RSN	October 21, 1991
USGS	November 12, 1991
USGS	July 10, 1991
Raytheon	June 24-25, 1991
YMPO	May 5-10, 1991
SNL	May 6-10, 1991
LLNL	May 29, 1991
Raytheon	March 3-6, 1991

LANL	February 25-28, 1991
USGS Software QA Program	February 20-23, 1990
USGS Study Plans	April 17-19, 1990
SNL	April 23-26, 1990
YMPO	June 6-11, 1990
LLNL	August 21, 1990
SNL	September 4-7, 1990
OCRWM	February 4, 1991
LANL	February 25-March 1, 1991
Raytheon	March 4-8, 1991

NRC Staff Audits

Los Alamos QA Program (HLW Repository)	June 8-12, 1987
CNWRA	March 3, 1989
CNWRA	June 28, 1990
Savannah River	February 4, 1991
West Valley	June 17-21, 1991
CNWRA	July 23-26, 1991

F. SAFETY EVALUATIONS

Safety Evaluations are formal staff evaluations of documents submitted by the DOE. They contain the staff's analysis of DOE's approaches for addressing various aspects of the Commission's regulations and whether these approaches will protect the public health and safety.

NNWSI QA Plan (88-9)	December 30, 1988
OCRWM QA Program Description	May 2, 1989
OCRWM QA Requirements Document	May 8, 1989
H&N QA Plan	October 3, 1989
REECo QA Plan	October 3, 1989
F&S QA Plan	October 24, 1989

SNL QA Plan	October 24, 1989
USGS QA Plan	October 24, 1989
LLNL QA Plan	October 24, 1989
LANL QA Plan	November 1, 1989

G. ENVIRONMENTAL ASSESSMENT (EA) REVIEWS

The staff has reviewed and commented on all DOE's draft and final EAs. These reviews were part of the continuing interface between the staffs of the DOE and NRC which will lead to early identification of potential licensing issues. The staff comments identified open items which are relevant to the potential licensing of each site based on information currently available and which will need to be resolved during site characterization.

NRC staff comments on the DOE Draft Environmental Assessments	March 20, 1985
NRC staff comments on the DOE Final Environmental Assessments	Dec. 22, 1986

H. CONTRACTOR REPORTS

In establishing the basis for guidance, the NRC staff periodically requires assistance from contractors. Reports giving details of the results of such assistance are published as NUREG/CR documents. Some NUREG/CR reports are a reflection of results of experimental programs whereas others are technical evaluations utilizing existing expertise and data. The following lists divide these reports into eight technical review areas and also differentiate reports produced for the Office of NMSS from those produced for the Office of Nucelar Regulatory Research (RES).

1. Performance Assessment

TITLE	NUMBER	DATE
a) NMSS		
o SWIFT Self-Teaching Curriculum	NUREG/CR-1968	March 1982
o DNET Self-Teaching Curriculum	NUREG/CR-2391	March 1983
o PATH 1 Self-Teaching Curriculum	NUREG/CR-2394	October 1982
o NRC Report on Dosimetry and Health Effects Self-Teaching Curriculum	NUREG/CR-2422	March 1983
o Summary of Repository Siting Models (Final Report)	NUREG/CR-2782	July 1982

TITLE	NUMBER	DATE
a) NMSS (cont'd)		
o Repository Site Data Report for Tuff: Yucca Mountain, Nevada	NUREG/CR-2937	November 1983
o Parameters and Variables Appearing in Repository Siting Models	NUREG/CR-3066	December 1982
o Benchmark Problems for Repository Siting Models	NUREG/CR-3097	December 1982
o Parameters and Variables Appearing in Radiological Assessment Codes	NUREG/CR-3160	June 1983
o A Summary of Computer Codes for Radiological Assessment	NUREG/CR-3209	March 1983
o Evaluation of Engineering Aspects of Backfill Placement for HLW Deep Geologic Repositories	NUREG/CR-3218	May 1984
o Technical Assistance for Regulatory Development: Review and Evaluation of the EPA Standard 40 CFR 191 for Disposal of High-Level Waste	NUREG/CR-3235	April 1983
o Verification of the Network Flow and Transport/Distributed Velocity Method (NWFT/DVM) Computer Code	NUREG/CR-3378	June 1984
o A Summary of Repository Design Models	NUREG/CR-3450	November 1983
o Benchmark Problems for Radiological Assessment Codes	NUREG/CR-3451	August 1983
o Benchmark Problems for Repository Design Models	NUREG/CR-3636	February 1984
o A Summary of Computer Codes for Waste Package Performance Assessment	NUREG/CR-3699	April 1984
o SWIFT II Self-Teaching Curriculum	NUREG/CR-3925	August 1986
o Techniques for Determining Probabilities of Events and Processes Affecting the Performance of Geologic Repositories	NUREG/CR-3964 Vol. 1 (Literature Review)	June 1989
o Repository Site Data Report for Unsaturated Tuff: Yucca Mt, Nevada	NUREG/CR-4110	November 1985

o Repository Environmental Parameters and Models Relevant to Assessing the Performance of HLW packages (Basalt, Tuff and Salt)	NUREG/CR-4134 Revision 1	May 1985 October 1987
o Methodologies for Assessing Long-Term Performance of HLW Packages	NUREG/CR-4477	January 1986
o Assessing Compliance with the EPA HLW Standard: An Overview	NUREG/CR-4510	October 1986
o TOUGH User's Guide	NUREG/CR-4645	August 1987
o User's Manual for the NEFTRAN Computer Code	NUREG/CR-4766	September 1987
o Modeling One-Dimensional Radionuclide Transport Under Time-Varying Fluid Flow Conditions	NUREG/CR-5412	November 1989
o Components of an Overall Performance Assessment Methodology	NUREG/CR-5256	February 1990
o Review of Techniques for Propagating Data and Parameter Uncertainties in HLW Repository Performance Assessment Models	NUREG/CR-5393	March 1990
o Technical Basis for Review of HLW Repository Modeling	NUREG/CR-5398	March 1990
Risk Methodology for Geologic Disposal of Radioactive Waste-Scenario Selection Procedures	NUREG/CR-1667	April 1990
Elicitation and Use of Expert Judgment in Performance Assessment for High-Level Radioactive Waste Repositories	NUREG/CR-5411	May 1990
Use of Performance Assessment in Assessing Compliance with the Containment Requirements in 40 CFR Part 191	NUREG/CR-5521	September 1990

RES

TITLE	NUMBER	DATE
o Model Feasibility of Radioactive Pathways from Atmosphere to Surface Water	NUREG/CR-5475	March 1990
o Risk Methodology for Geologic Disposal of Radioactive Waste:		

-- Sandia Waste Isolation Flow and Transport (SWIFT) Mode	NUREG/CR-0424	October 1978
-- The Network Flow and Transport (NWFT) Model	NUREG/CR-1190	March 1982
-- Distributed Velocity Method of Solving Convective-Dispersion Equation	NUREG/CR-1376	October 1980
-- Model Description and User Manual for Pathways Model	NUREG/CR-1636 Vol. 1	May 1981
-- Sensitivity Analysis of the Environmental Transport	Vol. 2	May 1981
-- Asymptotic Properties of the Environmental Transport	Vol. 3	May 1981
-- Effects of Variable Hydrologic Patterns on the Environmental Transport Model	Vol. 4	April 1982
-- Dosimetry and Health Effects	NUREG/CR-2166	October 1981
-- The DNET Computer Code User's Manual	NUREG/CR-2343	April 1982
-- Final Report	NUREG/CR-2452	August 1987
o User's Manual for the Sandia Waste-Isolation Flow and Transport Model (SWIFT) Release 4.81	NUREG/CR-2324	January 1982
o Data Input Guide for SWIFT II; The Sandia Waste-Isolation Flow and Transport Model for Fractured Media Release 4.84	NUREG/CR-3162	April 1986
o Theory and Implementation for SWIFT II; The Sandia Waste-Isolation Flow and Transport Model for Fractured Media Release 4.84	NUREG/CR-3328	August 1986
o The Role of Geochemical Factors in the Assessment and Regulation of Geologic Disposal of High-Level Radioactive Waste	NUREG/CR-3490	March 1984
o Reliability of Geotechnical, Environmental, and Radiological Instrumentation in Nuclear Waste Repository Studies	NUREG/CR-3494	November 1983

o On the Development of Environmental Radiation Standards for Geologic Disposal of High-Level Radioactive Waste	NUREG/CR-3714	July 1984
o Uncertainties in Long-Term Repository Performance Due to the Effects of Future Geologic Processes	NUREG/CR-3832	August 1984
o Climatic Calibration of Pollen Data	NUREG/CR-3847	June 1984
o Stress-Corrosion Cracking of Low-Strength Carbon Steels in Candidate HLW Repository Environments	NUREG/CR-3861	February 1987
o A Three-Dimensional Computer Model to Simulate Fluid Flow and Containment Transport Thru a Rock Fracture System	NUREG/CR-4042	January 1985
o Critical Parameters for a High-Level Waste Repository	NUREG/CR-4161 Vol. 1: Basalt Vol. 2: Tuff Vol. 3: Salt	 May 1985 May 1987 July 1987
o Permeameter Studies of Water Flow Through Cement and Clay Borehole Seals in Granite, Basalt and Tuff	NUREG/CR-4748	October 1986
o Demonstration of a Performance Assessment Methodology for HLW Disposal in Basalt Formations	NUREG/CR-4759	June 1989
o High-Level Waste Preclosure Systems Safety Analysis--Phase 2, Final Report	NUREG/CR-4846	June 1987
o System Performance of HLW Package Components	NUREG/CR-4956	September 1987

2. Hydrology

a) NMSS

TITLE	NUMBER	DATE
o An Appraisal of Nuclear Waste Isolation in the Vadose Zone in Arid and Semiarid Regions (with Emphasis on the NTS)	NUREG/CR-3158	October 1983
o Unsaturated Flow and Transport Through Fractured Rock Related to HLW Repositories	NUREG/CR-3206	March 1983
o Pressure Testing of Fractured Rocks--	NUREG/CR-3213	July 1983

A Methodology Employing 3-Dimensional Cross-Hole Tests		
o Prediction of Far-Field Subsurface Radionuclide Dispersion Coefficients from Hydraulic Conductivity Measurement	NUREG/CR-3612	March 1984
o Relationship Between the Gas Conductivity and Geometry of a Natural Fracture	NUREG/CR-3680	April 1984
o Radionuclide Transport as Vapor Through Unsaturated Fractured Rock	NUREG/CR-4654	July 1987
o Unsaturated Flow and Transport Through Fractured Rock Related to HLW Repositories--Final Report - Phase II	NUREG/CR-4655	May 1987
o Dating Ground Water and the Evaluation of Repositories for Radioactive Waste	NUREG/CR-4912	April 1987

3. Geochemistry

a) NMSS

TITLE	NUMBER	DATE
o Proceedings of the Conference on the Application of Geochemical Models to High-Level Nuclear Waste Repository Assessment	NUREG/CP-0062	June 1985
o Status of Geochemical Problems Relating to the Burial of High-Level Radioactive Waste, 1982	NUREG/CR-3062	March 1983
o Evaluation of Radionuclide Geochemical Information Developed by DOE High-Level Nuclear Waste Repository Site Projects	NUREG/CR-3730	March 1984
o Progress in Evaluation of Radionuclide Geochemical Information Developed by DOE High-Level Nuclear Waste Repository Site Projects	NUREG/CR-3851 (Oct-Dec 1983) (Jan-Mar 1984) (Apr-Jun 1984) (Jul-Sep 1984)	 Sep 1984 Vol 1 Oct 1984 Vol 2 Feb 1985 Vol 3 Oct 1985 Vol 4
o Progress in Evaluation of Radionuclide Geochemical Information Developed by DOE	NUREG/CR-4236 (Oct-Dec 1984)	 Oct 1985 Vol 1

High-Level Nuclear Waste Repository Site Projects	(Jan-Mar 1985)	Dec 1985 Vol 2
	(Apr-Jun 1985)	Apr 1986 Vol 3
Annual Report	(Oct 84-Sep 85)	Jul 1986 Vol 4
o Progress in Evaluation of Radionuclide Geochemical Information Developed by DOE High-Level Nuclear Waste Repository Site Projects	NUREG/CR-4708	
	(Oct 85-Mar 86)	Jan 1987 Vol 1
	(Apr 86-Sep 87)	Jul 1988 Vol 2
	(Oct 87-Jun 89)	Aug 1989 Vol 3
o Progress in Development of a Methodology for Geochemical Sensitivity Analysis for Performance Assessment	NUREG/CR-5085	August 1989
o Progress in Evaluation of Radionuclide Geochemical Information Developed by DOE High-Level Nuclear Waste Repository Site Projects	NUREG/CR-5236 (Oct 87-Jan 89)	August 1989
o NRC Nuclear Waste Management Geochemistry 1983	NUREG/CP-0052	May 1984
o Uncertainties in Geologic Disposal of HLW - Groundwater Transport of Radionuclides and Radiological Consequences	NUREG/CR-2506	July 1983
o Valence Effects on Absorption: A Preliminary Assessment of the Effects Valence State Control on Sorption RES (Continued)	NUREG/CR-2863	February 1983
o Radionuclide Migration Around Uranium Ore Bodies--Analogue of Radioactive Waste Repositories	NUREG/CR-3941	October 1984
o Valence Effects on Solubility and Sorption	NUREG/CR-4309	March 1986
o Temperature Effects on the Solubility and Speciation of Selected Actinides	NUREG/CR-4582	June 1986
o A Study of Natural Glass Analogues as Applied to Alteration of Nuclear Waste Glass	NUREG/CR-4842	February 1987

4. Design/Rock Mechanics

a) NMSS

TITLE	NUMBER	DATE
o Information Base for Waste Repository Design	NUREG/CR-0495 Vols. 1-7	March 1979
o Identification of Characteristics Which Influence Repository Design--Tuff	NUREG/CR-2614	April 1984
o Evaluation of Alternative Shaft Sinking Techniques for HLW Deep Geologic Repositories	NUREG/CR-2854	March 1983
o Thermal Impact of Waste Emplacement and Surface Cooling Associated with Geologic Disposal of Nuclear Waste	NUREG/CR-2910	March 1983
o Relationship of an In Situ Test Facility to a Deep Geologic Repository for HLW	NUREG/CR-2959	March 1983
o In Situ Test Programs Related to Design and Construction of HLW Deep Geologic Repositories	NUREG/CR-3065 Vols. 1 and 2	March 1983
o Assessment of Retrieval Alternatives for the Geologic Disposal of Nuclear Waste	NUREG/CR-3489	May 1984
o Parameters and Variables Appearing Repository Design Models	NUREG/CR-3586	January 1984
o Stability of Disposal Rooms During Waste Retrieval	NUREG/CR-5335	March 1989
o Sensitivity of the Stability of a Waste Emplacement Drift to Variation in Assumed Rock Joint Parameters in Welded Tuff	NUREG/CR-5336	April 1989
o Analysis of Alternative Waste Isolation Concepts	NUREG/CR-5389	June 1989
o Rock Mass Modification Around a Nuclear Waste Repository in Welded Tuff	NUREG/CR-5390	August 1989
o Basis for In-situ Geomechanical Testing at the Yucca Mountain Site	NUREG/CR-5400	July 1989
o Examination of the Use of Continuum	NUREG/CR-5426	August 1989

Versus Discontinuum Models for Design and Performance Assessment for the Yucca Mountain Site		
o Analysis of Emplacement Borehole Rock and Liner Behavior for a Repository at Yucca Mountain	NUREG/CR-5427	September 1989
o Variation of Heat Loading for a Repository at Yucca Mountain	NUREG/CR-5428	September 1989
o UDEC (Universal Distinct Element Code) Version ICG1.5	NUREG/CR-5429	September 1989
o FLAC (Fast Lagrangian Analysis of Continua) Version 2.20	NUREG/CR-5430	October 1989

b) RES

TITLE	NUMBER	DATE
o Rock Mass Sealing--Experimental Assessment of Borehole Plug Performance, Annual Report, 6/82-5/83	NUREG/CR-3473	September 1983
o Experimental Assessment of the Sealing Effectiveness of Rock Fracture Grouting	NUREG/CR-4541 RES (Continued)	March 1987
o Rock Mass Sealing--Experimental Assessment of Borehole Plug Performance, Annual Report, 6/84-5/85	NUREG/CR-4642	June 1986
o Size Influence on the Sealing Performance of Cementitious Borehole Plugs	NUREG/CR-4738	September 1986
o The Sealing Performance of Bentonite/ Crushed Basalt Borehole Plugs	NUREG/CR-4983	November 1987

5. Waste Package

a) NMSS

o Container Assessment--Corrosion Study of HLW Container Materials (Quarterly Progress Reports)	NUREG/CR-2317	1981-1982
o Nuclear Waste Management Technical Support in the Development of Nuclear	NUREG/CR-2333 Vols. 1-3	February 1982

Waste Form Criteria for the Nuclear Regulatory Commission

o Review of DOE Waste Package Program -- National Waste Package Program	NUREG/CR-2482	Feb 1982 Vol 1
	(Parts 1 and 2)	Apr 1983 Vol 2
	(Apr 82-Sep 82)	Mar 1983 Vol 3
	(Oct 82-Mar 83)	Sep 1983 Vol 4
	(Apr 83-Sep 83)	Aug 1984 Vol 5
	(Oct 83-Mar 84)	Mar 1985 Vol 6
	(Apr 84-Sep 84)	Mar 1985 Vol 7
	(Oct 84-Mar 85)	Dec 1985 Vol 8
	(Apr 85-Sep 85)	Dec 1985 Vol 9
o Packing Material Testing Required to Demonstrate Compliance with 1000-Year Radionuclide Containment	NUREG/CR-2755	January 1983
o Review of Waste Package Verification Tests, Semi-Annual Report	NUREG/CR-3091	
	(Apr 82-Sep 82)	Apr 1983 Vol 1
	(Oct 82-Mar 83)	Aug 1983 Vol 2
	(Apr 83-Sep 83)	Feb 1984 Vol 3
	(Oct 83-Mar 84)	Jul 1985 Vol 4
	(Apr 84-Sep 84)	Jul 1985 Vol 5
	(Oct 84-Mar 85)	Oct 1985 Vol 6
	(Apr 85-Sep 85)	Jan 1986 Vol 7
o Waste Package Performance After Repository Closure	NUREG/CR-3219	
-- Post-Emplacement Monitoring	Vol. 1	July 1983
	Vol. 2	May 1983
o. Waste Package Reliability	NUREG/CR-4509	February 1986
o Stress Corrosion Cracking Tests on HLW Container Materials in Simulated Tuff Repository Environments	NUREG/CR-4619	June 1986
o Evaluation and Compilation of DOE Waste Package Test Data	NUREG/CR-4735	
	(Dec 85-Jul 86)	Mar 1987 Vol 1
	(Aug 86-Jan 87)	Oct 1987 Vol 2
	(Feb 87-Jul 87)	May 1988 Vol 3
	(Aug 87-Jan 88)	Aug 1988 Vol 4
	(Feb 88-Jul 88)	Oct 1989 Vol 5

b) <u>RES</u>

o Long-Term Performance of Materials Used for HLW Packaging	NUREG/CR-3427	
	(Apr 83-Jun 83)	Aug 1983 Vol 1

	(Jul 83-Sep 83)	Dec 1983 Vol 2
	(Oct 83-Dec 83)	Mar 1984 Vol 3
(Annual Report)	(Apr 83-Apr 84)	Jun 1984 Vol 4
o Long-Term Performance of Materials Used for HLW Packaging	NUREG/CR-3900	
	(Apr 84-Jun 84)	Sep 1984 Vol 1
	(Jul 84-Sep 84)	Jan 1985 Vol 2
	(Oct 84-Dec 84)	May 1985 Vol 3
(Annual Report)	(Apr 84-Apr 85)	Jul 1985 Vol 4
o Long-Term Performance of Materials Used for HLW Packaging	NUREG/CR-4379	
	(Apr 85-Jun 85)	Sep 1985 Vol 1
	(Jul 85-Sep 85)	Jan 1986 Vol 2
	(Oct 85-Dec 85)	Mar 1986 Vol 3
(Annual Report)	(Apr 85-Mar 86)	Jun 1986 Vol 4
o Fracture in Glass/HLW Canister	NUREG/CR-4198	May 1985
o Investigation of the Stability of Clay/Basalt Packing Materials	NUREG/CR-4585	March 1986
o Long-Term Performance of High-Level Glass Waste Forms	NUREG/CR-4795	November 1987
o Long-Term Performance of Spent Fuel Waste Forms	NUREG/CR-4954	September 1987
o Long-Term Performance of Container Materials for High-Level Waste	NUREG/CR-4955	November 1987
o Effects of Manufacturing Variables on Performance of HLW Low Carbon Steel Containers	NUREG/CR-5001	April 1990

6. Geology/Geophysics

a) NMSS

o Information Needs for Characterization of High-Level Waste Repository Sites in Six Geologic Media	NUREG/CR-2663 Vols. 1 and 2	July 1985
o Effects of Earthquakes on Underground Facilities: Literature Review and Discussion	NUREG/CR-4609	June 1986
o Survey of Geophysical Techniques for Site Characterization in Basalt, Salt and Tuff	NUREG/CR-4957	July 1987

b) RES

o Indirect Rock Mass Investigations for Optimizing Borehole Drilling Programs	NUREG/CR-3143	
--Executive Summary	Vol. 1	October 1983
--Summary of Wave Propagation Geophysical Techniques	Vol. 2	November 1983
--Ray Optic Geotomography	Vol. 3	October 1983
--Wave Diffusion Geotomography	Vol. 4	October 1983
o Geomorphic Controls on the Management of Nuclear Waste	NUREG/CR-3276	October 1983
o Crosshole Geophysical Methods Used to Investigate the Near Vicinity of High Level Waste Repositories	NUREG/CR-3758	August 1984

7. Quality Assurance

a) NMSS

TITLE	NUMBER	DATE
o Recommended Safety, Reliability, QA and Management Aerospace Techniques with Possible Application by DOE to the HLW Repository Program	NUREG/CR-4271	July 1985
o. QA Plan for Computer Software Supporting the U.S. NRC's HLW Management Program	NUREG/CR-4369	January 1986

8. Regulatory and Others

a) NMSS

o Analysis of Regulatory Uncertainties Related to the Site Characterization Plan and the Exploratory Shaft Facility	CNWRA 89-002	April 1989
o Analysis and Evaluation of Regulatory Uncertainties in 10CFR60 Subparts B & E	CNWRA 89-003	May 1989
o Identification and Evaluation of Regulatory and Institutional Uncertainties in 10 CFR Part 60	CNWRA 90-003	February 1990

I. STATE/TRIBAL INTERACTIONS

Nuclear Waste Policy Act (NWPA) Section 117(a) states that NRC must provide the states and Indian tribes timely and complete information regarding

its determinations or plans made regarding siting, development, or design for licensing, construction, operation, regulation, or decommissioning. In a continuing effort to keep the states and tribes involved, NRC staff has made numerous presentations to the states and tribes on current NRC activities in the NWPA process.

Due to the Nuclear Waste Policy Amendments Act of 1987, which focuses DOE's site characterization efforts on the Yucca Mountain site in Nevada, the NRC is now limiting the routine distribution of significant NRC high-level waste documents to parties associated with the Yucca Mountain site. They also receive a weekly notice of NRC/DOE upcoming meetings, both tentative and firmly established. These upcoming meetings are also announced on a toll-free telephone recording for use by the general public. Notices of availability of significant HLW documents are sent to several hundred parties who have expressed an interest in keeping abreast of the HLW program.

The State of Nevada and local representatives are recognized as participants in all NRC/DOE meetings related to the Yucca Mountain site.

J. PROGRAM PLANNING AND MANAGEMENT REVIEWS

TITLE	ISSUE DATE
NRC comments on the DOE draft report to the President, An Evaluation of Commercial Repository Capacity for Disposal of Defense High-Level Waste	Oct. 5, 1984
SECY-84-449, Recommendations of the DOE Panel on Alternative Means of Financing and Managing Radioactive Wastes (AMFM)	Nov. 26, 1984
Staff comments to the Chairman on DOE AMFM	Mar. 8, 1985
NRC comments on the Draft DOE Project Decision Schedule	Oct. 24, 1985
NRC comments on level of detail in Section 8.3 of the DOE Site Characterization Plan	Dec. 12, 1985
Report on Section 10 of draft Project Decision Schedule transmitted from NMSS to DOE	Dec. 16, 1985
NRC comments on DOE Monitored Retrievable Storage (MRS) Facility	Feb. 5, 1986
SECY-86-66, Status of Activities Under the Nuclear Waste Policy Act of 1982, to Commission	Feb. 26, 1986
Joint NRC/DOE Notice of Technical Assistance issued	Apr. 3, 1986
10 CFR Part 72 revisions concerning licensing of the MRS published in the Federal Register	May 23, 1986

SECY-86-92, Proposed Revisions to 10 CFR Part 60 to Conform to EPA Standards	June 19, 1986
SECY-87-137, First Quarterly Progress Report on the Pre-licensing Phase of DOE's Civilian High-Level Radioactive Waste Management Program	June 8, 1987
SECY-87-267, Second Quarterly Progress Report on the Pre-licensing Phase of DOE's Civilian High-Level Radioactive Waste Management Program	Oct. 26, 1987
SECY-88-39, Third Quarterly Progress Report on the Pre-licensing Phase of DOE's Civilian High-Level Radioactive Waste Management Program	Feb. 9, 1988
SECY-88-39A, Quarterly Progress Report on the Pre-Licensing Phase of DOE's Civilian High-Level Radioactive Waste Management Program	May 10, 1988
SECY-88-39B, Quarterly Progress Report on the Pre-Licensing Phase of DOE's Civilian High-Level Radioactive Waste Management Program	Aug. 9, 1988
SECY-88-285, Regulatory Strategy and Schedules for the High-Level Waste Repository Program	Oct. 5, 1988
SECY-88-39C, Quarterly Progress Report on the Pre-Licensing Phase of DOE's Civilian High-Level Radioactive Waste Management Program	Nov. 16, 1988
SECY-89-037, Quarterly Progress Report on the Pre-Licensing Phase of DOE's Civilian High-Level Radioactive Waste Management Program	Feb. 3, 1989
SECY-89-037A, Quarterly Progress Report on the Pre-Licensing Phase of DOE's Civilian High-Level Radioactive Waste Management Program	May 12, 1989
SECY-89-037B, Quarterly Progress Report on the Pre-Licensing Phase of DOE's Civilian High-Level Radioactive Waste Management Program	Sep. 27, 1989
SECY-90-032, Quarterly Progress Report on the Pre-Licensing Phase of DOE's Civilian High-Level Radioactive Waste Management Program	Jan. 29, 1990
SECY-90-032A, Quarterly Progress Report on the Pre-Licensing Phase of DOE's Civilian High-Level Radioactive Waste Management Program	Apr. 27, 1990

SECY 90-187, Topical Guidelines for the Licensing Support System	May 1990
SECY-90-207, First Update of the Regulatory Strategy and Schedules for the High-Level Waste Repository Program	Jun. 7, 1990
SECY-90-032B, Quarterly Progress Report on the Pre-Licensing Phase of DOE's Civilian High-Level Radioactive Waste Management Program	Aug. 3, 1990
SECY-90-032C, Quarterly Progress Report on the Pre-Licensing 1990 Phase of DOE's Civilian High-Level Radioactive Waste Management Program.	November 6,
SECY-91-058, Quarterly Progress Report on the Pre-Licensing Phase of DOE's Civilian High-Level Radioactive Waste Management Program.	March 1, 1991
SECY-91-125, Quarterly Progress Report on the Pre-Licensing Phase of DOE's Civilian High-Level Radioactive Waste Management Program	May 8, 1991
SECY-91-343, Quarterly Progress Report on the Pre-Licensing Phase of DOE's Civilian High-Level Radioactive Waste Management Program	October 24, 1991

III. NRC REVIEW PLANS

Review Plans document the procedure which will be used by the staff in reviewing major documents submitted by the DOE. They identify the questions that will be asked and the independent analysis that will be performed by the staff. The primary purpose of review plans is to standardize and organize the staff's review of licensing documents. They provide, indirectly, guidance to the licensee in terms of the kinds of data and information that is expected in documents such as the SCP. They also provide useful information to interested parties about how NRC is doing its job. Review plans for SCPs and Quality Assurance programs have been written. Other review plans, such as the License Application Review Plan, will be prepared as needed.

TITLE	ISSUE DATE
Standard Review Plan for Site Characterization Plans (Draft) (Superseded by the December 1987 Plans)	August 1983
Standard Review Plan for Draft Environmental Assessments	January 1985
Standard Review Plan for Final Environmental Assessments	March 1986
Administrative Plan and Procedures for NRC Staff Review of DOE's Consultation Draft Site Characterization Plans	December 1987
Draft Technical Review Plan for NRC Staff Review of DOE's Site Characterization Plans	December 1987
Draft Review Plan for NRC Staff Review of DOE Study Plans and Procedures	December 1987

Administrative Plan and Procedures for NRC Staff Review of DOE's Site Characterization Plan	December 1988
Revised Technical Review Plan for NRC Staff Review of DOE's Site Characterization Plans	December 1988
Supplement to the Site Characterization Plan Review Plan	February 1989
Review Plan for High-Level Waste Repository Quality Assurance Program Descriptions (Revision 2)	March 1989
Review Plan for NRC Staff Review of DOE Site Characterization Plan Program Reports	August 1990

AVAILABILITY OF INFORMATION

- HLW documentation, including NUREG/CR reports, received by the Division of High-Level Waste Management (DHLWM) and generated by HLWM and its contractors is routinely sent to NRC's Public Document Room (PDR), 2120 L Street, NW, Lower Level, Washington, DC, 20555. Telephone 202/634-3273. Contact the PDR for information and copies of NRC's HLW correspondence.

- Copies of NUREGs and NUREG/CRs can be obtained by contacting the Superintendent of Documents, U.S. Government Printing Office, P.O. Box 37082, Washington, DC 20013-7082. Copies are also available from the National Technical Information Service, Springfield, VA 22161.

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