



Department of Energy

Washington, DC 20585

MAR 17 1994

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

Dear Mr. Holonich:

Enclosed with this letter is a controlled copy of Study Plan 8.3.1.8.5.2, R 0, "Characterization of Igneous Intrusive Features," as enclosure 1, prepared by the U. S. Department of Energy (DOE) for the Yucca Mountain site. The study plan numbers correspond to the same numbers used in the Site Characterization Plan (SCP) for the Yucca Mountain site.

Study plans are prepared, reviewed, and approved under Yucca Mountain Site Characterization Project Office (YMPO) quality assurance procedures. It should be noted that there may be some inconsistencies in the milestone report titles and schedules given in this study plan and those in the SCP. Study plans, in general, represent a further evolution of the study in the areas related to schedules and milestones relative to the SCP, and as such, represent DOE's current plans.

This study plan was submitted to YMPO for review before the 1993 DOE/U.S. Nuclear Regulatory Commission (NRC) study plan agreement became effective. Therefore, DOE has reviewed the study plan for consistency with the content requirements for study plans, as given in Attachment B to the Summary of the DOE/NRC meeting on the Level-of-Detail for the SCP (May 7-8, 1986). A list of technical procedures that will be used in conjunction with this study plan is enclosure 2.

Site Characterization Analysis Comment 52 is partially addressed by this study plan. Geophysical data collected under this study will be used to evaluate the potential for subsurface magma, as discussed in Sections 2.3.1, 3.3.3, and 4.0.

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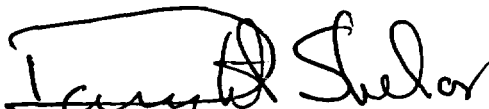
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The Document Transmittal/Acknowledgement Record for your controlled copy of the study plan should be signed and dated and returned to the Document Control Center in Las Vegas, Nevada.

If you have any questions, please contact Ms. Sheila Long at 202-586-1447.

Sincerely,

A handwritten signature in dark ink, appearing to read "Dwight E. Shelor", written over a horizontal line.

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

Enclosures

1. Study Plan 8.3.1.8.5.2,
Revision 0
2. List of Technical Procedures

cc: w\enclosures

Alice Cortinas, CNWRA, San Antonio, TX

cc: w/enclosure 2

R. Nelson, YMPO

T. J. Hickey, Nevada Legislative Committee

R. Loux, State of Nevada

D. Bechtel, Las Vegas, NV

Eureka County, NV

Lander County, Battle Mountain, NV

P. Niedzielski-Eichner, Nye County, NV

W. Offutt, Nye County, NV

L. Bradshaw, Nye County, NV

C. Schank, Churchill County, NV

F. Mariani, White Pine County, NV

V. Poe, Mineral County, NV

J. Pitts, Lincoln County, NV

J. Hayes, Esmeralda County, NV

B. Mettam, Inyo County, CA

C. Abrams, NRC

TECHNICAL PROCEDURES FOR STUDY 8.3.1.8.5.2

USGS Technical Procedure GPP-20: Measurement of subsurface temperature

USGS Technical Procedure GPP-21: Measurement of thermal conductivity of rocks