

Center for Nuclear Waste Regulatory Analyses

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September 5, 1996
Contract No. NRC-02-93-005
Account No. 20-5708-671

U.S. Nuclear Regulatory Commission
ATTN: Dr. Banad N. Jagannath
Division of Waste Management
TWFN Mail Stop T7J-2
Washington, DC 20555

Subject: RDTME KTI Intermediate Milestone No. 20-5708-671-640: Sensitivity Study of
Drift Stability on Repository Preclosure Performance—CNWRA Report

Reference: Letter of August 27, 1996 from B.N. Jagannath of NRC to A.H. Chowdhury of
CNWRA

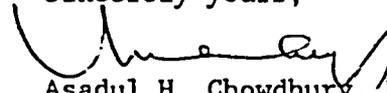
Dear Dr. Jagannath:

The subject document is specified as a deliverable in the Operations Plan for the RDTME KTI. Attached is the Center for Nuclear Waste Regulatory Analyses (CNWRA) document entitled "A Parametric Study of Drift Stability in Jointed Rock Mass, Phase 1: Discrete Element Thermal-Mechanical Analysis of Unbackfilled Drifts." To better reflect the content of the document, the title has been changed from that originally identified in the operations plan. This report documents the results of a thermal-mechanical parametric study of emplacement drifts without backfill, rock support, and seismic load for 100 yr of heating.

This technical document fulfills the requirements for the subject milestone which is due September 9, 1996, based on the revised schedule as stated in the reference.

If you have any questions on this report, please contact me at (210)522-5151 or Mikko P. Ahola at (210)522-5799.

Sincerely yours,



Asadul H. Chowdhury, Manager
Repository Design, Construction, and
Operations

AHC/yl

Enclosure

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September 24, 1996

Dr. Asadul Chowdhury, Manager
CNWRA RDCO Program Element
CNWRA/San Antonio Office
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6220 Culebra Road
San Antonio, TX 78238-5166

SUBJECT: RDTM KTI INTERMEDIATE MILESTONE 20-5708-671-640: SENSITIVITY STUDY
OF DRIFT STABILITY ON REPOSITORY PRECLOSURE PERFORMANCE;
CNWRA 96-009

Reference: Letter of September 5, 1996, from A. Chowdhury of Center to
B. Jagannath of NRC transmitting the IM deliverable

Dear Dr. Chowdhury:

The subject report on " A parametric Study of Drift Stability in Jointed Rock Mass - Phase I: Discrete Element Thermal-Mechanical Analysis of Unbackfilled Drifts," submitted as a deliverable for Intermediate Milestone 20-5708-671-640, has been reviewed. The title of the report is different from the title mentioned as IM deliverable in the CNWRA Operations Plan. This change is accepted as it better reflects the contents of the report. The scope of work presented in the report and the submittal date are in accordance with the provisions in the CNWRA FY96 Operations Plan. Although the programmatic review has been completed, the technical review is in progress. Because of other high priority work, the technical review is behind schedule, and the technical comments will be transmitted to CNWRA by the end of October 1996. Based on the programmatic review, the report is accepted as a deliverable for IM 20-5708-671-640. The decision on placing this report in the PDR will be made after the technical review is completed. The action taken by this letter is within the scope of the current contract.

Please contact me at (301) 415-6653, if you have any questions regarding this matter.

Sincerely,

/s/

Dr. Banad N. Jagannath, Manager
NRC RDTM KTI Program Element
Engineering and Geosciences Branch
Division of Waste Management
Office of Nuclear Material Safety
and Safeguards

TICKET: CNWRA 960078

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