



Department of Energy
Office of Civilian Radioactive Waste Management
Yucca Mountain Site Characterization Office
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QA: N/A

SEP 26 2002

OVERNIGHT MAIL

Janet R. Schlueter, Chief
High-Level Waste Branch
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Office of Nuclear Material Safety
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U.S. Nuclear Regulatory Commission
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TRANSMITTAL OF REPORTS ADDRESSING KEY TECHNICAL ISSUE (KTI)
AGREEMENT UNSATURATED AND SATURATED FLOW UNDER ISOTHERMAL
CONDITIONS (USFIC) 5.09

This letter transmits three reports that satisfy the subject KTI agreement. Specifically, the KTI agreement states:

USFIC 5.09: "Provide additional information in an updated AMR or other document for both the regional and site scale model (for example, grid construction, horizontal and vertical view of the model grid, boundary conditions, input data sets, model output, and the process of model calibration). The updated USGS Regional Groundwater Flow Model is a USGS product, not a Yucca Mountain Site Characterization Project product. It is anticipated that this document will be available in September 2001.

DOE believes that the requested information is now available in the current version of the Calibration of the Site-Scale Saturated Zone Flow Model AMR and will be carried forward in future AMR revisions."

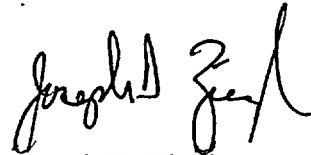
Enclosure 1, a report entitled *A Three-Dimensional Numerical Model of Predevelopment Conditions in the Death Valley Regional Ground-Water Flow System, Nevada and California*, U.S. Geological Survey Water-Resources Investigations, Report 02-4102, is a revision to the regional-scale flow model. Enclosure 2, a report entitled *Calibration of the Site-Scale Saturated Zone Flow Model*, MDL-NBS-HS-000011, Revision 00, ICN 01, provides the current version of the site-scale flow model. Enclosure 3, a report entitled *The Use of Death Valley Regional Flow System Results in the Site-Scale Flow and Transport Calculations* provides a discussion of how the latest regional-scale model could be used in future site-scale calculations. This approach for addressing this agreement has been discussed with your staff.

NMSSD.7
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SEP 26 2002

The U.S. Department of Energy considers USFIC 5.09 to be fully addressed by the enclosed information, and pending review and acceptance by U.S. Nuclear Regulatory Commission, it should be closed.

There are no new regulatory commitments in the body or the enclosures to this letter. Please direct any questions concerning this letter and its enclosures to Timothy C. Gunter at (702) 794-1343 or Drew H. Coleman at (702) 794-5537.



Joseph D. Ziegler
Acting Assistant Manager, Office of
Licensing and Regulatory Compliance

OL&RC:TCG-1813

Enclosures:

1. *A Three-Dimensional Numerical Model of Predevelopment Conditions in the Death Valley Regional Ground-Water Flow System, Nevada and California*, U.S. Geological Survey Water-Resources Investigations Report 02-4102
2. *Calibration of the Site-Scale Saturated Zone Flow Model*, MDL-NBS-HS-000011, Revision 00, ICN 01
3. *The Use of Death Valley Regional Flow System Results in the Site-Scale Flow and Transport Calculations*

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