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Washington, DC 20585

November 16, 2009

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YUCCA MOUNTAIN - REQUEST FOR ADDITIONAL INFORMATION - SAFETY EVALUATION REPORT, VOLUME 3 - POSTCLOSURE CHAPTER 2.2.1.3.9 - RADIONUCLIDE TRANSPORT IN THE SATURATED ZONE, 1ST SET - (DEPARTMENT OF ENERGY'S SAFETY ANALYSIS REPORT SECTION 2.3.9)

Reference : Ltr, Sulima to Williams, dtd 9/8/09, "Yucca Mountain – Request for Additional Information – Safety Evaluation Report, Volume 3 – Postclosure Chapter 2.2.1.3.9 – Radionuclides Transport in the Saturated Zone, 1st Set – (Department of Energy's Safety Analysis Report Sections 2.3.9)"

The purpose of this letter is to transmit the U.S. Department of Energy's (DOE) response to the final Request for Additional Information (RAIs) identified in the above-referenced letter. The RAI response is provided as an enclosure to this letter. DOE submitted the response to RAI number 2 from this set on October 9, 2009.

Most of the DOE references cited in the RAI response have previously been provided with the License Application. A DOE reference cited in the RAI response, which has not been previously provided to the Nuclear Regulatory Commission, is included with this submittal.

There are no commitments in the enclosed RAI response. If you have any questions regarding this letter, please contact me at (202) 586-9620, or by email to jeff.williams@rw.doe.gov.

Jeffrey R. Williams, Supervisor
Licensing Interactions Branch
Regulatory Affairs Division
Office of Technical Management

OTM: CJM-0104

Printed with soy ink on recycled paper

Enclosures (2):

1. Response to RAI Volume 3, Chapter 2.2.1.3.9, Set 1, Number 1

2. Triay, I.R.; Meijer, A.; Conca, J.L.; Kung, K.S.; Rundberg, R.S.; Strietelmeier, B.A.; and Tait, C.D. 1997. *Summary and Synthesis Report on Radionuclide Retardation for the Yucca Mountain Site Characterization Project*. Eckhardt, R.C., ed. LA-13262-MS. Los Alamos, New Mexico: Los Alamos National Laboratory. ACC: MOL.19971210.0177.

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EIE Document Components:

Enclosure #	File Name	File Size, KB
N/A	001_NRC_Tran_Ltr_3.2.2.1.3.9_Set_1_RAI_1.pdf	N/A
Enclosure 1	002_Encl_RAI_2_3.2.2.1.3.9_Set_1_RAI_1.pdf	1,955
Enclosure 2 (Part 1 of 2)	003_MOL.19971210.0177_LA-13262-MS_Part1of2.pdf	9,125
Enclosure 2 (Part 2 of 2)	004_MOL.19971210.0177_LA-13262-MS_Part2of2.pdf	10,062