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**ATTN: Document Control Desk**

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YUCCA MOUNTAIN - SUPPLEMENTAL RESPONSE TO REQUEST FOR  
ADDITIONAL INFORMATION - SAFETY EVALUATION REPORT, VOLUME 3 -  
POSTCLOSURE CHAPTER 2.2.1.3.1 - DEGRADATION OF ENGINEERED  
BARRIERS 2ND SET - (U.S. DEPARTMENT OF ENERGY'S SAFETY ANALYSIS  
REPORT SECTION 2.3.6.8)

Reference 1: Ltr, Sulima to Williams, dtd 03/16/09, "Yucca Mountain – Request for  
Additional Information – Safety Evaluation Report, Volume 3 –  
Postclosure Chapter 2.2.1.3.1– Degradation of Engineered Barriers 2nd  
Set – (U.S. Department of Energy's Safety Analysis Report Section  
2.3.6.8)"

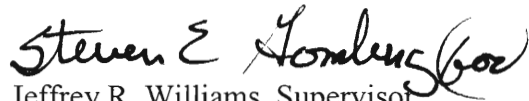
Reference 2: Ltr, Williams to Sulima, dtd 4/13/2009, "Yucca Mountain – Request for  
Additional Information – Safety Evaluation Report, Volume 3 –  
Postclosure Chapter 2.2.1.3.1– Degradation of Engineered Barriers 2nd  
Set – (U.S. Department of Energy's Safety Analysis Report Section  
2.3.6.8)"

The purpose of this letter is to transmit the U.S. Department of Energy's supplemental response to the Request for Additional Information (RAI) Number 3 from the 2nd Set of the RAIs regarding Volume 3, Chapter 2.2.1.3.1, Degradation of Engineered Barriers, identified in reference 1 above. The original response to this RAI was provided by reference 2 above. The supplemental response was developed based on our understanding of the technical areas requiring further clarification, as discussed in an October 13, 2009, public teleconference. During the teleconference, the NRC asked one main clarification question and four additional questions. The response to these questions, along with the transcription of the questions as read in the public teleconference, is provided as an enclosure to this letter.



All DOE references cited in the supplemental RAI response have previously been provided with the License Application (LA) or as part of a previous RAI response. The reference provided with the previous RAI response is identified within the enclosed response reference section.

There is a commitment in the enclosed 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](mailto:jeff.williams@rw.doe.gov).



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OTM:CJM-0102

Enclosure:

Supplemental response to RAI Volume 3, Chapter 2.2.1.3.1, Set 2, Number 3

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