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Washington, DC 20585

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YUCCA MOUNTAIN - REQUEST FOR ADDITIONAL INFORMATION (RAI) –VOLUME 2, CHAPTER 2.1.1.7, SET 6 (DEPARTMENT OF ENERGY'S SAFETY ANALYSIS REPORT SECTIONS 1.2.3, 1.2.4, 1.2.5, 1.2.6, 1.2.8, 1.3.3,1.4.1 and 1.4.2) – Design of SSCs Electrical

Reference: Ltr, Jacobs to Williams, dtd 5/5/09, "Yucca Mountain - Request for Additional Information – Volume 2, Chapter 2.1.1.7, Set 6 (Department of Energy's Safety Analysis Report Section 1.2.3, 1.2.4, 1,2.5, 1.2.6, 1.2.8, 1.3.3, 1.4.1, and 1.4.2)"

The purpose of this letter is to transmit the U.S. Department of Energy's (DOE) responses to nine RAI's identified in the above referenced letter regarding DOE's SAR Sections 1.2.3, 1.2.4, 1.2.5, 1.2.6, 1.2.8, 1.3.3, 1.4.1, and 1.4.2 pertaining to electric power. The Nuclear Regulatory Commission's (NRC) requests correspond to NRC's Safety Evaluation Report, Volume 2, Chapter 2.1.1.7, *Design of SSCs*. Each RAI response is provided as a separate enclosure.

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

Steven E Hamburg for

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

OTM:SAB-0780

Enclosures (9):
Responses to Four Requests for Additional Information
Volume 2, 2.1.1.7-1 through 2.1.1.7-9, Set 6

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