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YUCCA MOUNTAIN – REQUEST FOR ADDITIONAL INFORMATION –VOLUME 2, CHAPTER 2.1.1.3, SET 3 (U.S. DEPARTMENT OF ENERGY’S SAFETY ANALYSIS REPORT SECTIONS 1.6 AND 1.7) – Identification of Hazards & Initiating Events

Reference: Ltr, Jacobs to Williams, dtd 04/09/09, “Yucca Mountain – Request for Additional Information –Volume 2, Chapter 2.1.1.3, Set 3 (U.S. Department of Energy’s Safety Analysis Report Sections 1.6 and 1.7)”

The purpose of this letter is to transmit nine (9) of the U.S. Department of Energy’s (DOE) responses to Request for Additional Information (RAI) Numbers 3, 4, 5, 7, 13, 14, 18, 19, and 21, identified in the above-referenced letter. The responses address questions regarding operational hazards. DOE previously submitted its response to RAI Number 1 of this set, related to ash fall hazards, on April 17, 2009.

In addition to the RAI responses, DOE is providing seven (7) references, not previously provided to the NRC, as enclosures to this transmittal. The references are available on the Licensing Support Network. Three of the references, identified in RAI numbers 5 and 21, contain electronic attachments. These attachments will be provided to the NRC separately on optical storage media. DOE expects to submit the remaining RAIs in this set on or before July 31, 2009.

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.

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Licensing Interactions Branch
Regulatory Affairs Division
Office of Technical Management

OTM: SEG-0702



Enclosures (14):

1. Response to Request for Additional Information, Volume 2, Chapter 2.1.1.3, Third Set, Number 3
2. Response to Request for Additional Information, Volume 2, Chapter 2.1.1.3, Third Set, Number 4
3. Response to Request for Additional Information, Volume 2, Chapter 2.1.1.3, Third Set, Number 5
4. Response to Request for Additional Information, Volume 2, Chapter 2.1.1.3, Third Set, Number 7
5. Response to Request for Additional Information, Volume 2, Chapter 2.1.1.3, Third Set, Number 13
6. Response to Request for Additional Information, Volume 2, Chapter 2.1.1.3, Third Set, Number 14
7. Response to Request for Additional Information, Volume 2, Chapter 2.1.1.3, Third Set, Number 18
8. Response to Request for Additional Information, Volume 2, Chapter 2.1.1.3, Third Set, Number 19
9. Response to Request for Additional Information, Volume 2, Chapter 2.1.1.3, Third Set, Number 21
10. BSC (Bechtel SAIC Company) 2007. *Thermal Evaluation of the CRCF-1 Lower Transfer Room Cells*. 060-00C-DS00-00100-000-00A. Las Vegas, Nevada: Bechtel SAIC Company. ACC: ENG.20071002.0053; ENG.20080227.0001.
11. BSC 2008. *Pool Water Treatment and Cooling System*. 050-M0C-PW00-00100-000-00C. Las Vegas, Nevada: Bechtel SAIC Company. ACC: ENG.20080212.0002; ENG.20080528.0001; ENG.20080630.0015.
12. BSC 2008. *WHF and RF Thermal Evaluation*. 000-00C-DS00-01200-000-00A. Las Vegas, Nevada: Bechtel SAIC Company. ACC: ENG.20080213.0005.
13. BSC 2007. *Straight Wind Hazard Curve Analysis*. 000-00A-MGR0-00100-000-00A. Las Vegas, Nevada: Bechtel SAIC Company. ACC: ENG.20071023.0002.
14. BSC 2007. *Nuclear Criticality Calculations for the Wet Handling Facility*. 050-00C-WH00-00100-000-00A. Las Vegas, Nevada: Bechtel SAIC Company. ACC: ENG.20071212.0001; ENG.20080331.0008.
15. BSC 2007. *Nuclear Criticality Calculations for Canister-Based Facilities - Commercial SNF*. 000-00C-MGR0-03600-000-00A. Las Vegas, Nevada: Bechtel SAIC Company. ACC: ENG.20071106.0033; ENG.20080317.0004; ENG.20080516.0003.
16. BSC 2008. *Nuclear Criticality Calculations for Canister-Based Facilities - DOE SNF*. 000-00C-MGR0-03900-000-00A. Las Vegas, Nevada: Bechtel SAIC Company. ACC: ENG.20080107.0028; ENG.20080211.0013.

EIE Component Listing:

File Name	File Size, KB
001_NRC_Trans_Ltr_2.2.1.1.3_Set_3_No_2.pdf	
002_Encl_9_Resp_2.2.1.1.3_Set_3_No_2.pdf	407
003_060_00C_DS00_00100_000_00A_CACN.pdf	18,489
004_050_MOC_PW00_00100_000_00C_CACN.pdf	8,295
005_000_00C_DS00_01200_000_00A.pdf	3,441
006_000_00A_MGR0_00100_000_00A.pdf	3,528
007_050_00C_WH00_00100_000_00A_CACN.pdf	6,467
008_000_00C_MGR0_03600_000_00A_CACNs.pdf	26,696
009_000_00C_MGR0_03900_000_00A_CACN.pdf	14,325

Note: All files were reviewed using the NRC preflight profile provided on its website and have been determined to meet NRC specifications in the October 2008 revision of Guidance for Electronic Submissions to the NRC. Many of the PDF files in this submittal include errors introduced by accessibility tagging for compliance with Section 508 of the Rehabilitation Act. As discussed with NRC staff, this tagging frequently causes the preflight to return “fonts not embedded” error messages. Specifically, the content is usually flagged as unembedded Times-Roman font. The Adobe preflight errors for unembedded fonts have been reviewed and represent non-printing and non-displaying Section 508 tagging information.

cc w/encls:

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