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Washington, DC 20585

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**ATTN: Document Control Desk**

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YUCCA MOUNTAIN – REQUEST FOR ADDITIONAL INFORMATION –VOLUME 2, CHAPTER 2.1.1.2, SET 1 (DEPARTMENT OF ENERGY’S SAFETY ANALYSIS REPORT SECTIONS 1.2.4, 1.2.5, 1.2.8, 1.3.4, 1.4.2, 1.14.2 and 1.14.3) – Description of Systems, Structures and Components

Reference: Ltr, Jacobs to Williams, dtd 07/10/09, “Yucca Mountain - Request For Additional Information – Volume 2, Chapter 2.1.1.2, Set 1 (Department Of Energy’s Safety Analysis Report Sections 1.2.4, 1.2.5, 1.2.8, 1.3.4, 1.4.2, 1.14.2 and 1.14.3)”

The purpose of this letter is to transmit the U.S. Department of Energy’s (DOE) responses to six out of fifteen Requests for Additional Information (RAI) identified in the above-referenced letter. Responses to RAI 6 and RAI 7 were submitted on August 4, 2009. DOE expects to submit the remaining responses to the RAIs in Set 1 on or before October 14, 2009. Each RAI response is provided as a separate enclosure. Drawings listed as attachments to RAI 1 are provided as separate enclosures. Additionally, references not previously submitted are enclosed.

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](mailto:jeff.williams@rw.doe.gov).

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OTM: SAB-0963



## Enclosures (35):

1. Response to RAI, Volume 2, 2.1.1.2, Set 1, Number 1
2. Response to RAI, Volume 2, 2.1.1.2, Set 1, Number 2
3. Response to RAI, Volume 2, 2.1.1.2, Set 1, Number 3
4. Response to RAI, Volume 2, 2.1.1.2, Set 1, Number 4
5. Response to RAI, Volume 2, 2.1.1.2, Set 1, Number 5
6. Response to RAI, Volume 2, 2.1.1.2, Set 1, Number 10
7. BSC (Bechtel SAIC Company) 2007. *Interlocking Drip Shield Main Assembly*. 000-M00-SSE0-00401-000 REV 00B.
8. BSC 2007. *Drip Shield Sub-Assembly*. 000-M00-SSE0-00501-000 REV 00B.
9. BSC 2007. *Drip Shield Sub-Assembly*. 000-M00-SSE0-00502-000 REV 00B.
10. BSC 2007. *Drip Shield Connector (DSC) Sub-Assembly*. 000-M00-SSE0-02101-000 REV 00B.
11. BSC 2007. *Drip Shield Lifting Features Sub-Assembly*. 000-M00-SSE0-02701-000 REV 00B.
12. BSC 2004. *Design and Engineering, Drip Shield Plate - 1*. 000-M00-SSE0-00601-000-00A.
13. BSC 2004. *Design and Engineering, Drip Shield Plate - 2*. 000-M00-SSE0-00701-000-00A.
14. BSC 2004. *Design and Engineering, Drip Shield Base*. 000-M00-SSE0-00801-000-00A.
15. BSC 2004. *Design and Engineering, Drip Shield Stabilization Pin*. 000-M00-SSE0-00901-000-00A.
16. BSC 2004. *Design and Engineering, Drip Shield Stabilization Pin Washer*. 000-M00-SSE0-01001-000-00A.
17. BSC 2007. *Drip Shield Bulkhead*. 000-M00-SSE0-01101-000 REV 00B.
18. BSC 2007. *Drip Shield Peripheral Bulkhead*. 000-M00-SSE0-01201-000 REV 00B.
19. BSC 2007. *Drip Shield Bulkhead Longitudinal Stiffener*. 000-M00-SSE0-01301-000 REV 00B.
20. BSC 2004. *Design and Engineering, Drip Shield Internal Support Plate*. 000-M00-SSE0-01401-000-00A.
21. BSC 2004. *Design and Engineering, Drip Shield External Support Plate*. 000-M00-SSE0-01501-000-00A.
22. BSC 2007. *Drip Shield Bulkhead Flange*. 000-M00-SSE0-01601-000 REV 00B. Las Vegas, Nevada: Bechtel SAIC Company. ACC: ENG.20070426.0007.
23. BSC 2007. *Drip Shield Right Support Beam Connector*. 000-M00-SSE0-01701-000 REV 00B.
24. BSC 2007. *Drip Shield Left Support Beam Connector*. 000-M00-SSE0-01801-000 REV 00B.
25. BSC 2007. *Drip Shield Support Beam Large*. 000-M00-SSE0-01901-000 REV 00B.
26. BSC 2004. *Design and Engineering, Drip Shield Connector Guide*. 000-M00-SSE0-02001-000-00A.
27. BSC 2004. *Design and Engineering, DSC Plate - 1*. 000-M00-SSE0-02201-000-00A.
28. BSC 2004. *Design and Engineering, DSC Plate - 2*. 000-M00-SSE0-02301-000-00A.
29. BSC 2004. *Design and Engineering, DSC Connector Guide*. 000-M00-SSE0-02401-000-00A.
30. BSC 2007. *Drip Shield Connector Left Support Beam*. 000-M00-SSE0-02501-000 REV 00B.
31. BSC 2007. *Drip Shield Connector Right Support Beam*. 000-M00-SSE0-02601-000 REV 00B.
32. BSC 2007. *Drip Shield Lifting Feature Front Plate*. 000-M00-SSE0-02801-000 REV 00B.
33. BSC 2007. *Drip Shield Lifting Feature Side Plate*. 000-M00-SSE0-02901-000 REV 00B.
34. BSC 2007. *Drip Shield Lifting Feature Top Plate*. 000-M00-SSE0-03001-000 REV 00B.
35. BSC 2009. *Project Design Criteria Document*. 000-3DR-MGR0-00100-000-008.

cc w/encls:

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EIE Document Components:

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001_NRC_Trans_Ltr_2.2.1.1.2_Set_1_No_2.pdf	
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Note: These PDF files for supporting responding to Yucca Mountain Repository License Application RAIs were prepared with Adobe Acrobat Version 8 using the current job options file provided by the NRC on its website. Some files included in this submittal may have been initially prepared with another version of Acrobat and another job options file. All files were reviewed using the NRC preflight profile provided on its website and have been determined to meet NRC specifications in the June 2009 revision of Guidance for Electronic Submissions to the NRC. As discussed with NRC staff, the addition of accessibility tagging for compliance with Section 508 of the Rehabilitation Act 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 nonprinting and nondisplaying Section 508 tagging information.