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10 CFR 50.4
10 CFR 52.79

December 29, 2009

UN#09-519

ATTN: Document Control Desk
U.S. Nuclear Regulatory Commission
Washington, DC 20555-0001

Subject: UniStar Nuclear Energy, NRC Docket No. 52-016
Update to Calvert Cliffs Nuclear Power Plant, Unit 3 FSAR Section 3.7 and
response to FSAR Section 3.7 RAI sets 19, 25, 58, 63, 65, 112, 113, 139, 158,
159, 167, 168, 179, 180, 181, and 193.

Reference: G. Gibson (UniStar Nuclear Energy) Letter to Document Control Desk (NRC),
Update to Calvert Cliffs Nuclear Power Plant, Unit 3 FSAR Sections 2.5.4 and
2.5.5, dated October 9, 2009

The purpose of this letter is to provide an update to Final Safety Analysis Report (FSAR) Section 3.7 of the Calvert Cliffs Nuclear Power Plant (CCNPP) Unit 3 Combined License Application (COLA), Revision 6. This update incorporates the updated geotechnical data provided in the update to CCNPP Unit 3 FSAR Sections 2.5.4 and 2.5.5, (Reference), the completion of a System for Analysis of Soils Structure Interaction (SASSI) analysis for the Ultimate Heat Sink Makeup Water Intake Structure and Electrical Building, and addresses issues identified by the NRC via Requests for Additional Information (RAIs). This letter contains three enclosures:

- Enclosure 1 provides a revision of CCNPP Unit 3 FSAR Section 3.7. Because of the extent of changes, redline/strikeout was suppressed in the text to improve readability. The revised text is only identified by revision bar. The revised text, tables, and figures will be incorporated into a future revision of the COLA.

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- Enclosure 2 provides responses to all RAI questions asked to date regarding FSAR Section 3.7: RAI sets 19, 25, 58, 63, 65, 112, 113, 139, 158, 159, 167, 168, 179, 180, 181, and 193. For those questions with a previously provided response, reference to the response letter and a brief update tying the response to the revised FSAR Section 3.7 text is provided.
- Enclosure 3 provides conforming changes to other FSAR Section and COLA Parts. The revised text will also be incorporated into a future revision of the COLA.

ITAAC changes to address the backfill shear wave velocity are being prepared which will be consistent with current industry approach. The revised ITAAC will be submitted by January 31, 2010.

This letter does not include any new regulatory commitments and does not contain any sensitive or proprietary information.

If there are any questions regarding this transmittal, please contact me at (410) 470-4205, or Mr. Michael J. Yox at (410) 495-2436.

I declare under penalty of perjury that the foregoing is true and correct.

Executed on December 29, 2009



Greg Gibson

- Enclosures:
- 1) Revision of CCNPP Unit 3 FSAR, Section 3.7.
 - 2) Responses to RAIs on CCNPP Unit 3 FSAR Section 3.7
 - 3) Conforming Changes to other FSAR Sections and COLA Parts

cc: Surinder Arora, NRC Project Manager, U.S. EPR Projects Branch
Laura Quinn, NRC Environmental Project Manager, U.S. EPR COL Application
Getachew Tesfaye, NRC Project Manager, U.S. EPR DC Application (w/o enclosure)
Loren Plisco, Deputy Regional Administrator, NRC Region II (w/o enclosure)
Silas Kennedy, U.S. NRC Resident Inspector, CCNPP, Units 1 and 2
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