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March 19, 2010

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

Subject: UniStar Nuclear Energy, NRC Docket No. 52-016
Response to Request for Additional Information for the
Calvert Cliffs Nuclear Power Plant, Unit 3,
RAI No. 215, Stability of Slopes

Reference: Surinder Arora (NRC) to Robert Poche (UniStar Nuclear Energy), "FINAL RAI
No. 215 RGS1 4333" email dated February 23, 2010

The purpose of this letter is to respond to the request for additional information (RAI) identified in the NRC e-mail correspondence to UniStar Nuclear Energy, dated February 23, 2010 (Reference). This RAI addresses stability of slopes, as discussed in Section 2.5.5 of the Final Safety Analysis Report (FSAR), as submitted in Part 2 of the Calvert Cliffs Nuclear Power Plant (CCNPP) Unit 3 Combined License Application (COLA), Revision 6.

The enclosure provides our response to RAI No. 215, Question 02.05.05-1. No COLA revision is necessary based upon this response.

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

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NRO

If there are any questions regarding this transmittal, please contact me at (410) 470-4205, or Mr. Wayne A. Massie at (410) 470-5503.

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

Executed on March 19, 2010

A handwritten signature in black ink, appearing to read 'Greg Gibson', with a long horizontal line extending to the right.

Greg Gibson

Enclosure: Response to NRC Request for Additional Information RAI No. 215, Stability of Slopes, Calvert Cliffs Nuclear Power Plant, Unit 3

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
U.S. NRC Region I Office

Enclosure

**Response to NRC Request for Additional Information
RAI No. 215, Stability of Slopes,
Calvert Cliffs Nuclear Power Plant, Unit 3**

RAI No. 215

Question 02.05.05-1

Section 2.5.5.1.3 states that in locations where Category I structural fill replaced in-situ soils, the groundwater level was chosen as 55 ft in slope stability analysis. Section 2.4.12.5 indicates that the post construction groundwater level ranges from 6 to 16 ft below surface (corresponding to elevations of El. 77 to El. 67). Please discuss the effect of higher groundwater level on stability of the site slopes.

Response

The slope stability analysis presented in FSAR Section 2.5.5.1.3 is based on the lower groundwater elevation level of 55 feet, which is the correct groundwater elevation. The higher groundwater elevation currently described in FSAR Section 2.4.12.5 will be updated as part of the response to RAI 101, Questions 02.04.12-9 through 02.04.12-11 (currently in development).