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10 CFR 50.4  
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March 25, 2011

UN#11-115

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 300, AC Power Systems (Onsite)

- References:
- 1) Surinder Arora (NRC) to Robert Poche (UniStar Nuclear Energy), "FINAL RAI 300 EEB 5500" email dated March 22, 2011
  - 2) UniStar Nuclear Energy Letter UN#10-036, from Greg Gibson to Document Control Desk, U.S. NRC, Departure from U.S. EPR Final Safety Analysis Report, Tier 2, Section 8.3.1, Onsite Power System, dated February 18, 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 March 22, 2011 (Reference). This RAI addresses AC Power Systems (Onsite), as discussed in Section 8.3 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 7.

The enclosure provides our response to RAI 300, Question 08.03.01-16. This response supersedes the information provided in Reference 2 in its entirety. Our response does not include any new regulatory commitments and does not impact COLA content. This letter does not contain any sensitive or proprietary information.

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MRD

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 25, 2011



Greg Gibson

Enclosure: Response to NRC Request for Additional Information RAI 300, Question 08.03.01-16, AC Power Systems (Onsite), 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)  
Charles Casto, 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

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**Enclosure**

**Response to NRC Request for Additional Information  
RAI 300, Question 08.03.01-16, AC Power Systems (Onsite),  
Calvert Cliffs Nuclear Power Plant, Unit 3**

**RAI 300**

**Question 08.03.01-16**

UniStar Nuclear Energy letter UN#10-036, dated February 18, 2010 (ADAMS Accession Number ML100500489), documented a departure from information described in U.S. EPR Final Safety Analysis Report (FSAR), Tier 2, Section 8.3.1, Onsite Power System. The departure addressed site-specific aspects of the design of the non-Class 1E Normal Power Supply System (NPSS) electrical distribution system supply power to the Circulating Water System (CWS) cooling towers, as discussed in Calvert Cliffs Nuclear Power Plant (CCNPP) Unit 3 FSAR Section 8.3.1.1.2, submitted in Part 2 of the CCNPP Unit 3 Combined License Application (COLA), Revision 6.

The letter contained page markups for the departure as Enclosure 2 from U.S. EPR FSAR Tier 2, Section 8.3.1.1.2, NPSS. These changes were to be incorporated into a future revision of the COLA. The latest revision (Revision 7) for the CCNPP Unit 3 COLA, issued on December 20, 2010, did not include the above revisions to CCNPP Unit 3 FSAR sections 1.8.2 and 8.3.1.1.2 identified in Enclosure 2 of the above UniStar letter. Nor did the UniStar letter provide any explanation why these changes were not included in the COLA revision.

Please describe why these changes committed to in UniStar letter UN#10-036 were not included in the latest COLA revision. If, however, the changes provided in the enclosure to this letter are no longer applicable, please provide a justification and a request to withdraw the page markups provided in the letter.

**Response**

The statements made in UniStar Letter UN#10-036<sup>1</sup>, were based on the information contained in Revision 1 of the U.S. EPR FSAR.

During development of Revision 7 of the CCNPP Unit 3 COLA, changes that occurred in Revision 2 of the U.S. EPR FSAR were incorporated in the CCNPP Unit 3 COLA. One of the changes to the U.S. EPR FSAR was in Tier 2, Table 8.3-3, and Figure 8.3-3, whereby the description of 480V Load Centers supplying loads in the Cooling Tower Structure area was designated as conceptual design information. As a result, the departure from U.S. EPR FSAR, Tier 2, Section 8.3.1.1.2, Table 8.3-3, and Figure 8.3-3, was no longer necessary.

The U.S. EPR FSAR Normal Power Supply System conceptual design information for the portion of the distribution system that supplies the Circulating Water System components is addressed in CCNPP Unit 3 COLA Revision 7, FSAR Section 8.3.1.1.2.

**COLA Impact**

The COLA FSAR will not be revised as a result of this response.

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<sup>1</sup> G. Gibson (UniStar Nuclear Energy) to Document Control Desk (NRC), "Departure from U.S. EPR Final Safety Analysis Report, Tier 2, Section 8.3.1, Onsite Power System," letter UN#10-036 dated February 18, 2010.