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April 14, 2010

UN#10-093

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 223, Reactor Coolant Pressure Boundary Leakage Detection

Reference: Surinder Arora (NRC) to Robert Poche (UniStar Nuclear Energy), "FINAL RAI  
223 SBPB 4480" email dated April 5, 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 April 5, 2010 (Reference). This RAI addresses Reactor Coolant Pressure Boundary Leakage Detection, as discussed in Section 5.2.5 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 responses to RAI 223, Questions 05.02.05-3 and 05.02.05-4. Our responses do not include any new regulatory commitments and do not impact COLA content. This letter does not contain any sensitive or proprietary information.

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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 April 14, 2010



Greg Gibson

Enclosure: Response to NRC Request for Additional Information RAI 223, Questions 05.02.05-3 and 05.02.05-4, Reactor Coolant Pressure Boundary Leakage Detection, 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

GTG/RDS/mdf

**Enclosure**

**Response to NRC Request for Additional Information  
RAI 223, Questions 05.02.05-3 and 05.02.05-4,  
Reactor Coolant Pressure Boundary Leakage Detection,  
Calvert Cliffs Nuclear Power Plant, Unit 3**

**RAI 223**

**Question 05.02.05-3**

This is a follow-up question for RAI 166, Question 05.02.05-1. In response to Question 05.02.05-1, the applicant, in a letter dated October 27, 2009, promised to provide the requested procedures and alarm setpoints, but had not made changes to the FSAR.

To date, the FSAR does not address the procedures, nor does it make any commitment to developing them.

Based on the October 27, 2009, response letter, the staff is not able to determine whether the promised procedures would be consistent with the guidance in RG 1.45 Revision 1 Regulatory Position C.3.3 or when the procedures would be made available for NRC inspection. The applicant is requested to provide in the FSAR the information discussed above.

**Response**

AREVA has communicated to UniStar Nuclear Energy (UNE) on a preliminary basis that they intend to respond to U.S. EPR RAI 365, Questions 05.02.05-9 and 05.02.05-10 by providing a COL item requiring a COL Applicant that references the U. S. EPR design certification to develop procedures in accordance with Regulatory Guide 1.45, Revision 1.

At such time that it is incorporated and reflected in the U.S. EPR FSAR, COLA FSAR Table 1.8-2 and Section 5.2.5 will be updated to include this requirement.

**COLA Impact**

FSAR Table 1.8-2 and Section 5.2.5 will be revised to address the new COL item following incorporation in the U.S. EPR FSAR.