Greg Gibson
Vice President, Regulatory Affairs

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10 CFR 50.4 10 CFR 52.79

May 3, 2010

UN#10-122

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. 101, Groundwater

Reference:

- John Rycyna (NRC) to Robert Poche (UniStar Nuclear Energy), "RAI No 101 RHEB 2092.doc (PUBLIC)" email dated April 20, 2009
- 2) UniStar Nuclear Energy Letter UN#10-088, from Greg Gibson to Document Control Desk, U.S. NRC, Response to Request for Additional Information for the Calvert Cliffs Nuclear Power Plant, Unit 3, RAI No. 101, Questions 02.04.12-9 to 02.04.12-11, Groundwater and RAI No. 104, Question 02.04.13-4, Liquid Radioactive Release, dated March 31, 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 20, 2009 (Reference 1). This RAI addresses Groundwater, as discussed in Section 2.4.12 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 5.

Reference 2 stated that responses to Questions 02.04.12-9, 02.04.12-10 and 02.04.12-11 would be provided by May 3, 2010.

Enclosure 1 provides responses to RAI No. 101, questions 02.04.12-9, 02.04.12-10 and 02.04.12-11 and includes revised COLA content. Enclosure 2 provides updated pages of the

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UN#10-122 May 3, 2010 Page 2

FSAR. Enclosure 3 provides updated pages of the Environmental Report (ER). Enclosure 4 provides updated pages to COLA Part 7 Departures and Exemption Requests. Enclosure 5 provides the groundwater model report that is the basis for the updated COLA text. Enclosure 6 provides a DVD containing the groundwater model input files.

A Licensing Basis Document Change Request has been initiated to incorporate these changes into a future revision of the COLA. Our responses do not include any new regulatory commitments. This letter 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. Wayne A. Massie at (410) 470-5503.

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

Executed on May 3, 2010

Christian Clement for Greg Gibson

Enclosures:

- 1) Response to NRC RAI No. 101, Questions 02.04.12-9, 02.04.12-10 and 02.04.12-11, Calvert Cliffs Nuclear Power Plant, Unit 3
- 2) Update of COLA Part 2, FSAR to incorporate the new Groundwater Model, Calvert Cliffs Nuclear Power Plant, Unit 3
- 3) Update of COLA Part 3, ER to incorporate the new Groundwater Model, Calvert Cliffs Nuclear Power Plant, Unit 3
- 4) Update of COLA Part 7, Departures and Exemption Requests to incorporate the new Groundwater Model, Calvert Cliffs Nuclear Power Plant, Unit 3
- 5) Bechtel Power Corporation Report, Groundwater Model for the Calvert Cliffs Nuclear Power Plant Unit 3 Site
- 6) DVD Containing the Groundwater Model input Files
- 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