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March 27, 2009

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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. 77, Reactor Vessel Integrity

References: 1) John Rycyna (NRC) to Robert Poche (UniStar), "RAI No 77 CIB1 1541.doc (PUBLIC)," email dated March 12, 2009

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, dated March 12, 2009 (Reference 1). This RAI addresses Reactor Vessel Integrity, as discussed in Section 5.3.3 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 4.

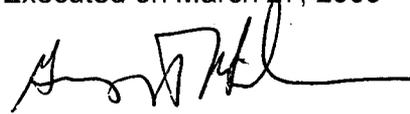
The enclosure provides our response to RAI No 77, Question 05.03.03-1, which includes revised COLA content. A Licensing Basis Document Change Request has been initiated to incorporate this change in a future revision of the COLA. Our response to Question 05.03.03-1 adds a new COL Item to FSAR Section 5.3.3; otherwise, there are no new regulatory commitments.

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

DO NOT
NRO

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

Executed on March 27, 2009

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. 77, Reactor Vessel Integrity, Calvert Cliffs Nuclear Power Plant Unit 3

cc: John Rycyna, NRC Project Manager, U.S. EPR COL Application
Getachew Tesfaye, NRC Project Manager, U.S. EPR DC Application (w/o enclosure)
Thomas Fredrichs, NRC Environmental Project Manager, U.S. EPR COL Application
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. 77, Reactor Vessel Integrity,
Calvert Cliffs Nuclear Power Plant Unit 3**

RAI No. 77

Question 05.03.03-1

The as-procured reactor vessel material properties will be available to the COL holder after the acceptance of the reactor vessel. In order to provide sufficient time for NRC review of the RTPTS evaluation using the as-procured reactor vessel material properties, the staff requests that a more specific and timely milestone for submitting the PTS evaluation to the NRC be established. Therefore, the staff requests that a license condition be added in Section 5.3.3 to state that within a reasonable period of time following acceptance of the reactor vessel (e.g., 1 year after the acceptance of the reactor vessel), the COL holder shall submit to the NRC staff its plant-specific PTS evaluation.

Response

The CCNPP Unit 3 COLA will be updated to include a license condition requiring submittal of the plant-specific Pressurized Thermal Shock (PTS) evaluation to NRC staff within one year of acceptance of the reactor vessel by the licensee.

COLA Impact

COLA Part 2 (FSAR) Section 5.3.3 will be revised to include the following supplement:

5.3.3 REACTOR VESSEL INTEGRITY

~~No departures or supplements.~~ The information in this subsection is incorporated by reference with no departures and the following supplement:

The plant-specific pressurized thermal shock (PTS) evaluation will be submitted to the NRC within one year of acceptance of the reactor vessel by the licensee.

COLA Part 10 (ITAAC) will add the following item to the end of Appendix A (Proposed Combined License Conditions):

11. REACTOR VESSEL INTEGRITY

COL application FSAR Section 5.3.3 requires submittal of the plant-specific pressurized thermal shock (PTS) evaluation to the NRC within one year of acceptance of the reactor vessel by the licensee.

PROPOSED LICENSE CONDITION

The plant - specific PTS evaluation will be submitted to the NRC within one year of acceptance of the reactor vessel by the licensee.