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10 CFR 50.4
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January 8, 2009

UN#09-003

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. 38 Revision 3,
Question 05.03.01-1, Reactor Vessel Materials

Reference: John Rycyna (NRC) to George Wrobel (UniStar), "RAI No. 38 CIB1 1546.doc
(P)," email dated December 8, 2008

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 December 8, 2008 (reference above). This RAI addresses the Reactor Vessel Materials, as discussed in Section 5.3 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 3.

The enclosure provides our response to RAI No. 38, Revision 3, Question 05.03.01-1. Our response to RAI Question 05.03.01-1 does not include any new regulatory commitments and does not include revised COLA content.

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

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MRD

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

Executed on January 8, 2009

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

Greg Gibson

Enclosure: Response to NRC Request for Additional Information, RAI No. 38 Revision 3,
Question 05.03.01-1, Reactor Vessel Materials, Calvert Cliffs Nuclear Power
Plant, Unit 3

cc: U.S. NRC Region I
U.S. NRC Resident Inspector, Calvert Cliffs Nuclear Power Plant, Units 1 and 2
NRC Environmental Project Manager, U.S. EPR Combined License Application
NRC Project Manager, U.S. EPR Combined License Application
NRC Project Manager, U.S. EPR Design Certification Application (w/o enclosure)

Enclosure

**Response to NRC Request for Additional Information, RAI No. 38 Revision 3, Question
05.03.01-1, Reactor Vessel Materials, Calvert Cliffs Nuclear Power Plant, Unit 3**

RAI No. 38

Question 05.03.01-1:

Section 5.3 “Reactor Vessel” of the Calvert Cliffs COL FSAR fully incorporates Section 5.3 of the U.S. EPR DCD and provides the implementation milestones for the reactor vessel surveillance program (RVSP) in Calvert Cliffs COL FSAR Table 13.4-1. U.S. EPR DCD (Revision 0) Section 5.3.1.6 “Material Surveillance” states that a full description of the program has been addressed in the section. However, the NRC staff finds that additional information is needed to fully describe the program. The NRC staff requested AREVA provide the following additional information:

- (a) EPR FSAR Section 5.3.1.6 “Material Surveillance” does not discuss locations of capsules or lead factors. Discuss the locations and the associated lead factors of the surveillance capsules in the FSAR.
- (b) Section 5.3.1.6 of the FSAR states that a COL applicant will identify the implementation milestones for the material surveillance program (listed as COL Information Item 5.3-1). The FSAR also states that the material surveillance program has been fully described. However, the staff needs additional information (e.g. capsule environment and capsule preparation) to evaluate the adequacy of a fully described surveillance capsule program. RG 1.206 states, “because the material surveillance program is an operational program, as discussed in SECY-05-0197, the [COL] applicant must describe the program and its implementation.” A full description of the material surveillance program should be provided prior to COL issuance. Any information that will not be included in the FSAR should be identified as COL action items.

Because the NRC staff has not received a response from AREVA at this time, it is unclear whether these questions should be addressed in conjunction with the design certification or the COL application review. If any of this information is outside the scope of design certification, it would be the responsibility of the COL applicant to provide it. Please discuss how you intend to address the RVSP for CCNPP3.

Response to Question 05.03.01-1:

The Calvert Cliffs COL FSAR incorporates Section 5.3 of the U.S. EPR FSAR by reference and provides the implementation milestones for the reactor vessel surveillance program (RVSP) in Calvert Cliffs COL FSAR Table 13.4-1 as required by the COL item in Section 5.3.1.6. The U.S. EPR FSAR Section 5.3.1.6 states that the material surveillance program has been fully described. Should the staff require additional information to address any remaining issues concerning the reactor vessel surveillance program, outside of the implementation milestones listed in COL FSAR Table 13.4-1, the request should be addressed to AREVA for the U.S. EPR FSAR.

See AREVA response to U.S. EPR FSAR RAI No. 64, question 05.03.01-5 for additional information that addresses this RAI question on FSAR Section 5.3.1.6, Material Surveillance (transmitted from AREVA to NRC on 10/22/08).

COL FSAR Impact:

The FSAR will not be changed as a result of this question.