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10 CFR 50.4
10 CFR 52.79

August 6, 2009

UN# 09-327

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. 126, Electrical Systems - Inspections, Tests, Analyses, and Acceptance
Criteria

Reference: John Rycyna (NRC) to Robert Poche (UniStar Nuclear Energy), "RAI No 126
EEB 2323.doc" email dated July 14, 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 Energy, dated July 14, 2009 (Reference). This RAI addresses Electrical Systems - Inspections, Tests, Analyses, and Acceptance Criteria, as discussed in Appendix B of the Inspections, Tests, Analyses, and Acceptance Criteria (ITAAC) and ITAAC Closure, as submitted in Part 10 of the Calvert Cliffs Nuclear Power Plant (CCNPP) Unit 3 Combined License Application (COLA), Revision 5.

The enclosure provides our response to RAI No. 126, Questions 14.03.06-1 and 14.03.06-2, and includes revised COLA content. A Licensing Basis Document Change Request has been initiated to incorporate these changes into a future revision of the COLA. Our response to RAI 126 does not include any new regulatory commitments.

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

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

Executed on August 6, 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. 126, Questions 14.03.06-1 and 14.03.06-2, Electrical Systems - Inspections, Tests, Analyses, and Acceptance Criteria, Calvert Cliffs Nuclear Power Plant, Unit 3

cc: John Rycyna, NRC Project Manager, U.S. EPR COL Application
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)
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GTG/JMR/kat

Enclosure

**Response to NRC Request for Additional Information
RAI No. 126, Questions 14.03.06-1 and 14.03.06-2,
Electrical Systems - Inspections, Tests, Analyses, and Acceptance Criteria,
Calvert Cliffs Nuclear Power Plant, Unit 3**

RAI No. 126

Question 14.03.06-1

COLA Part 10, Inspections, Tests, Analyses and Acceptance Criteria (ITAAC), Appendix B, Table 2.4-29, "Offsite Power System ITAAC," addresses the interface requirements of U.S. EPR FSAR Tier 1 section 2.5.5. The staff did not find that item 5.4 of U.S. EPR FSAR Tier 1 Section 2.5.5 was addressed. Item 5.4 requires verification that the transmission system will not subject the reactor coolant pumps to a sustained frequency decay of greater than 3.5 Hz/second. Provide a basis for this departure in the Table 2.4-29 list of ITAAC addressing interface requirements.

Response

An ITAAC will be added to Table 2.4-29, {Offsite Power System Inspections, Tests, Analyses, and Acceptance Criteria} to confirm that the transmission system will not subject the reactor coolant pumps to a sustained frequency decay of greater than 3.5 Hz/sec. Table 14.3-3— {Interface Requirements Screening Summary} will also be revised to indicate that an ITAAC is selected for this interface requirement.

COLA Impact

Part 10 of the CCNPP Unit 3 COLA will be revised to add an ITAAC to Table 2.4-29 and Part 2, Table 14.3.3 will be revised as shown in the below markup.

Table 2.4-29—{Offsite Power System Inspections, Tests, Analyses, and Acceptance Criteria}

	Commitment Wording	Inspection, Test or Analysis	Acceptance Criteria
<u>6</u>	<u>The transmission system will not subject the reactor coolant pumps to a sustained frequency decay of greater than 3.5 Hz/second.</u>	<u>Analysis of the transmission system will be conducted.</u>	<u>A report exists and concludes that the transmission system will not subject the reactor coolant pumps to a sustained frequency decay of greater than 3.5 Hz/sec.</u>

Table 14.3-3—{Interface Requirements Screening Summary}
(Page 2 of 3)

U.S. EPR FSAR Tier 1 Section #	Interface Requirement	Selected for ITAAC
4.10 and 2.5.5	Interface requirements for the offsite power system, including the switchyard, are provided in Section 2.5.5 of Tier 1 of the U.S. EPR FSAR. The transmission system will not subject the reactor coolant pumps to a sustained frequency decay of greater than 3.5 Hz/second.	No. The frequency decay analysis is provided in Section 8.2.2.4. <u>Yes</u>

Question 14.03.06-2

COLA Part 10, ITAAC, Appendix B Table 2.4-31 Item 4 "Class 1E Emergency Power Supply Components for Site-Specific Systems ITAAC," addresses site-specific Class 1E systems associated with the UHS System (UHS Makeup Water System, UHS Makeup Water Intake Structure ventilation System and UHS Electrical Building ventilation System). Because these site-specific UHS systems are an integral part of the Class 1E electrical system, confirm that all inspections, tests and analyses are to be conducted in accordance with the requirements of U.S. EPR FSAR Tier 1 for Class 1E Emergency Power Supply System (i.e., analysis described in Item 5.11 of Table 2.5.1-3, U.S. EPR FSAR Tier 1) and incorporated by reference in COLA Part 10, ITAAC, Appendix B, Section 2.1.

Response

The electrical equipment noted in COLA Part 10, ITAAC, Appendix B, Table 2.4-31 "Class 1E Emergency Power Supply Components for Site-Specific Systems Inspections, Tests, Analyses, and Acceptance Criteria," Item 4, will be subject to the same ITAAC requirements as the non-site-specific portion of the Class 1E electrical system as applicable. These requirements are contained in the U.S. EPR FSAR Tier 1, Table 2.5.1-3 for Class 1E Emergency Power Supply System (EPSS) and are incorporated by reference in the CCNPP3 FSAR Part 10, ITAAC, Appendix B, Section 2.1.

The analyses proposed to close the ITAACs noted in Table 2.5.1-3, U.S. EPR FSAR Tier 1, which are applicable to the site-specific portions of the EPSS, encompass the entire EPSS including the site-specific distribution equipment.

COLA Impact

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