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January 16, 2014

UN#14-004

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 407, ASME Code Class 1, 2, and 3 Components

Reference: Surinder Arora (NRC) to Paul Infanger (UniStar Nuclear Energy), "CCNPP3 -
Final RAI 407 MEB 7274," dated December 18, 2013

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 December 18, 2013 (Reference). This RAI addresses ASME Code Class 1, 2, and 3 Components, as discussed in Section 3.9 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 9.

Enclosure 1 provides our response to RAI 407, Question 03.09.03-5, 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.

Enclosure 2 provides a table of changes to the CCNPP Unit 3 COLA associated with RAI 407, Question 03.09.03-5.

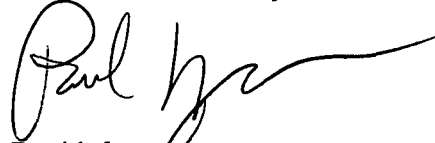
Our response does not include any new regulatory commitments. This letter and its enclosures do not contain any sensitive or proprietary information.

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NRD

If there are any questions regarding this transmittal, please contact me at (410) 369-1987 or Mr. Mark Finley at (410) 369-1907.

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

Executed on January 16, 2014



Paul Infanger

- Enclosures:
- 1) Response to NRC Request for Additional Information RAI 407, Question 03.09.03-5, ASME Code Class 1, 2, and 3 Components, Calvert Cliffs Nuclear Power Plant, Unit 3
 - 2) Table of Changes to CCNPP Unit 3 COLA Associated with the Response to RAI 407, Question 03.09.03-5, Calvert Cliffs Nuclear Power Plant, Unit 3

cc: Surinder Arora, NRC Project Manager, U.S. EPR Projects Branch
Tomeka Terry, NRC Environmental Project Manager, U.S. EPR COL Application
George Wunder, NRC Project Manager, U.S. EPR DC Application, (w/o enclosures)
Patricia Holahan, Acting Deputy Regional Administrator, NRC Region II, (w/o enclosures)
Silas Kennedy, U.S. NRC Resident Inspector, CCNPP, Units 1 and 2
David Lew, Deputy Regional Administrator, NRC Region I (w/o enclosures)

Enclosure 1

**Response to NRC Request for Additional Information
RAI 407, Question 03.09.03-5,
ASME Code Class 1, 2, and 3 Components,
Calvert Cliffs Nuclear Power Plant, Unit 3**

RAI No. 407

Question 03.09.03-5

In Calvert Cliffs 3, FSAR Rev. 9 Subsection 3.9.3.1.1, the applicant stated that Calvert Cliffs 3 Nuclear Project, LLC and UniStar Nuclear Operating Services, LLC shall route Class 1, 2, or 3 piping not included in the U.S. EPR design certification in a manner so that it is not exposed to wind or tornadoes.

In Revision 5 of the U.S. EPR FSAR, COL Item 3.9-5 was revised to include the word "hurricane" in addition to wind and tornadoes. The Calvert Cliffs 3, FSAR Rev. 9 Subsection 3.9.3.1.1 has not yet been addressed in the COL FSAR to include the word "hurricane".

The staff requests the applicant revises the Calvert Cliffs 3, FSAR Rev. 9 Subsection 3.9.3.1.1 to include the word "hurricane".

Response:

Combined License (COL) Item 3.9-5 and the existing response are revised to include the word "hurricane" in addition to wind and tornadoes. See the below COLA Combined License Application (COLA) Impact section for the Calvert Cliffs Nuclear Power Plant (CCNPP) Unit 3 COLA revisions.

COLA Impact

CCNPP Unit 3 COLA FSAR and Part 10 have been revised has follows:

FSAR

Table 1.8-2 – FSAR Sections that Address COL Items

| Item No. | Description | Section |
|-----------------|---|----------------|
| | | |
| 3.9-4 | As noted in ANP-10264NP-A, A COL applicant that references the U.S. EPR design certification will describe essential elements of a program to confirm that thermal deflections do not create adverse conditions during hot functional testing. | 3.9.3.1.1 |
| 3.9-5 | As noted in ANP-10264NP-A, should a COL applicant that references the U.S. EPR design certification find it necessary to route Class 1, 2, and 3 piping not included in the U.S. EPR design certification so that it is exposed to wind, <u>hurricane</u> , and tornadoes, the design must withstand the plant design-basis loads for this event. | 3.9.3.1.1 |

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3.9.3.1.1 Loads for Components, Component Supports, and Core Support Structures

The U.S. EPR FSAR includes the following COL Item in Section 3.9.3.1.1:

As noted in ANP-10264NP-A, should a COL applicant that references the U.S. EPR design certification find it necessary to route Class 1, 2, and 3 piping not included in the U.S. EPR design certification so that it is exposed to wind, hurricane, and tornadoes, the design must withstand the plant design-bases loads for this event.

This COL Item is addressed as follows:

{Calvert Cliffs 3 Nuclear Project, LLC and UniStar Nuclear Operating Services, LLC} shall route Class 1, 2, or 3 piping not included in the U.S. EPR design certification in a manner so that it is not exposed to wind, hurricane, or tornadoes.

Part 10

2. COL ITEMS

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COL Item 3.9-5 in Section 3.9.3.1.1

{Calvert Cliffs 3 Nuclear Project, LLC and UniStar Nuclear Operating Services, LLC} shall route, during detailed design, Class 1, 2, or 3 piping not included in the U.S. EPR design certification in a manner so that it is not exposed to wind, hurricane, or tornadoes.

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Enclosure 2

**Table of Changes to CCNPP Unit 3 COLA
Associated with the Response to RAI 407, Question 03.09.03-5,
Calvert Cliffs Nuclear Power Plant, Unit 3**

Table of Changes to CCNPP Unit 3 COLA
Associated with the Response to RAI No. 407

| Change ID # | Subsection | Type of Change | Description of Change |
|------------------------|------------------------|--|--|
| Part 2 – FSAR | | | |
| GN-09-0235 | 3.9.3.1.1 | Incorporate COLA markups associated with DCD revision 1. | Revised the COL Item 3.9-5 changed ANP 1026(NP) to ANP-10264NP-A. |
| GN-09-233 | Table 1.8-2 | Incorporate COLA markups associated with DCD revision 1. | Revised the COL Item 3.9-5 changed ANP 1026(NP) to ANP-10264NP-A. |
| GN-14-0002 | Table 1.8-2, 3.9.3.1.1 | Incorporate COLA markups associated with DCD revision 5. | Revised the COL Item 3.9-5 to add hurricane (This response). |
| Part 10 – ITAAC | | | |
| GN-14-0002 | 2. COL Items | Incorporate COLA markups associated with DCD revision 5. | Revised the License Condition COL Item 3.9-5 to add hurricane (This response). |