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10 CFR 50.4
10 CFR 52.79

May 18, 2012

UN#12-044

ATTN: Document Control Desk
U.S. Nuclear Regulatory Commission
Washington, DC 20555-0001

Subject: UniStar Nuclear Energy, NRC Docket No. 52-016
Response to Requests for Additional Information for the
Calvert Cliffs Nuclear Power Plant, Unit 3:
RAI 325, Information Systems Important to Safety,
RAI 328, Flooding Protection Requirements,
RAIs 287, 330, RAI 331, RAI 332, RAI 336, Ultimate Heat Sink,
RAIs 333, 339, Other Seismic Category I Structures,
RAI 337, Initial Plant Test Program – Design Certification and New License
Applicants, and
RAI 340, Functional Design Qualification and Inservice Testing Programs for
Pumps, Valves, and Dynamic Restraints

References: 1) Surinder Arora (NRC) to Robert Poche (UniStar Nuclear Energy), "Final
RAI 287 SBPA 5324," email dated January 13, 2011
2) Surinder Arora (NRC) to Paul Infanger (UniStar Nuclear Energy), "Final
RAI 325 ICE1 6066," email dated October 12, 2011
3) Surinder Arora (NRC) to Paul Infanger (UniStar Nuclear Energy), "Final
RAI 328 RHEB 6186," email dated November 28, 2011
4) Surinder Arora (NRC) to Paul Infanger (UniStar Nuclear Energy), "Final
RAI 330 SBPA 6212," email dated January 11, 2012

A handwritten signature in black ink, appearing to read "DORL", is located in the bottom right corner of the page.

- 5) Surinder Arora (NRC) to Paul Infanger (UniStar Nuclear Energy), "Final RAI 331 SBPA 6221," email dated January 20, 2012
- 6) Surinder Arora (NRC) to Paul Infanger (UniStar Nuclear Energy), "Final RAI 332 SBPA 6228," email dated January 20, 2012
- 7) Surinder Arora (NRC) to Paul Infanger (UniStar Nuclear Energy), "Final RAI 333 SEB2 6214," email dated January 20, 2012
- 8) Surinder Arora (NRC) to Paul Infanger (UniStar Nuclear Energy), "Final RAI 336 SBPA 5230," email dated January 20, 2012
- 9) Surinder Arora (NRC) to Paul Infanger (UniStar Nuclear Energy), "Final RAI 337 CQVP 6235," email dated February 9, 2012
- 10) Surinder Arora (NRC) to Paul Infanger (UniStar Nuclear Energy), "Final RAI 339 SEB2 6317," email dated February 22, 2012
- 11) Surinder Arora (NRC) to Paul Infanger (UniStar Nuclear Energy), "Final RAI 340 CIB1 5372," email dated April 24, 2012
- 12) UniStar Nuclear Energy Letter UN#12-017, from Mark T. Finley to Document Control Desk, U.S. NRC, Updated RAI Closure Plan, dated February 21, 2012
- 13) UniStar Nuclear Energy Letter UN#12-027, from Mark T. Finley to Document Control Desk, U.S. NRC, RAI 339, Other Seismic Category I Structures, dated March 20, 2012

The purpose of this letter is to respond to the requests for additional information (RAIs) identified in the referenced NRC e-mail correspondence to UniStar Nuclear Energy (UNE), (References 1 through 11). This letter provides updated schedule information for RAIs 287, 325, 328, 330, 331, 332, 333, 336, and 337, which was provided by Reference 12 and for RAI 339, which was provided by Reference 13. This letter also provides schedule information for the response to RAI 340 (Reference 11).

References 1 through 11 either address or are related to the Ultimate Heat Sink (UHS), as discussed in Section 9.2.5 of the Final Safety Analysis Report (FSAR), as submitted in Part 2 of the Calvert Cliffs Nuclear Power Plant, Unit 3 Combined License Application (COLA), Revision 8. Due to the interrelation of these UHS System RAI questions, UNE is coordinating them into a single response schedule.

RAI Response Schedule

UNE is currently incorporating design changes discussed with the Staff at our May 3, 2012, public meeting on UHS Makeup Water System RAIs. The attached Table 1 presents an updated UHS RAI Response Schedule which reflects the time needed to address these design revisions, and supplements the RAI Response Closure Plan provided in Reference 12.

For items requiring revised design, calculations or analysis, a date of December 20, 2012 is provided as the schedule. Please note that several RAI responses for COLA Section 3.08.04 are dependent on the completion of design changes, calculations and analyses and are consequently being deferred to April 30, 2013. UNE requests that the NRC permit that the responses for RAI 333 Question 03.08.04-32 and RAI 339 Question 03.08.04-33 and 03.08.04-34, scheduled for submittal by April 30, 2013, be classified as SER Open Items, to be closed in Phase 4 at the time of final SER preparation. UniStar understands the risk we are assuming as the applicant, for moving closure of some of these RAIs until Phase 4.

Our response does not include any new regulatory commitments and does not impact COLA content. This letter does not contain any sensitive or proprietary information.

If there are any questions regarding this transmittal, please contact me at (410) 369-1907, or Mr. Wayne A. Massie at (410) 369-1910.

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

Executed on May 18, 2012



Mark T. Finley

Enclosure: Table 1 – Updated UHS RAI Response Schedule, Calvert Cliffs Nuclear Power Plant, Unit 3

cc: Surinder Arora, NRC Project Manager, U.S. EPR Projects Branch
Laura Quinn-Willingham, NRC Environmental Project Manager, U.S. EPR COL Application
Getachew Tesfaye, NRC Project Manager, U.S. EPR DC Application (w/o enclosure)
Patricia Holahan, Acting Deputy Regional Administrator, NRC Region II (w/o enclosure)
Silas Kennedy, U.S. NRC Resident Inspector, CCNPP, Units 1 and 2
David Lew, Deputy Regional Administrator, NRC Region I (w/o enclosure)

Enclosure

Table 1 – Updated UHS RAI Response Schedule

Calvert Cliffs Nuclear Power Plant, Unit 3

1
2

Table 1 – Updated UHS RAI Response Schedule			
Activity	RAI Number	Question	UNE Response Date to NRC
Ultimate Heat Sink	287	09.02.05-19	12/20/12*
Information Systems Important to Safety	325	7.05-1	12/20/12
Flooding Protection Requirements	328	02.04.10-1	12/20/12
UHS Makeup Traveling Screens	330	09.02.05-20	12/20/12
UHS Tower Interference	331	09.02.05-21	12/20/12*
UHS Makeup Layup	332	09.02.05-22	12/20/12
Other Category I Structures	333	03.08.04-29	12/20/12
		03.08.04-30	6/22/12
		03.08.04-32	4/30/13
UHS (Makeup TS, I&C, Seismic)	336	09.02.05-23	12/20/12
		09.02.05-24	12/20/12
		09.02.05-25	12/20/12
		09.02.05-27	12/20/12
Initial Plant Test Program - UHS Makeup	337	14.02-58	12/20/12
Other Seismic Category I Structures	339	03.08.04-33	4/30/13
		03.08.04-34	4/30/13
Functional Design Qualification and Inservice Testing Programs for Pumps, Valves, and Dynamic Restraints	340	03.09.06-3	7/27/12
		03.09.06-4	7/27/12
		03.09.06-5	7/27/12

* based on four month internal evaluation process for analysis software