

May 8, 2009

APPLICANT: Calvert Cliffs 3 Nuclear Project, LLC And Unistar Nuclear Operating Services, LLC

PROJECT: Calvert Cliffs Nuclear Power Plant Unit 3 Combined License

SUBJECT: SUMMARY OF APRIL 17, 2009, EPR CALVERT CLIFFS RCOLA PUBLIC MEETING – Discussions of Intake Structure Relocation, Geotechnical Issues and Seismic Analysis Issues

On April 17, 2009, the U.S. Nuclear Regulatory Commission (NRC) held a public meeting at U.S. Nuclear Regulatory Commission, Two White Flint North Building (Floor 9, Conference Room A01, 11525 Rockville Pike, Rockville, Maryland, 20852) with the representatives of UniStar. The purpose of the meeting was to discuss several cross-cutting issues relating to the Intake Structure Relocation, Seismic Analysis Issues, Geotechnical Issues, and discuss the proposed milestone dates provided by UniStar. The meeting agenda is provided as Enclosure 1 and the attendees are identified in Enclosure 2.

This meeting summary is available through the Agencywide Documents Access and Management System (ADAMS) as a document with Accession Number ML091170401. The meeting notice issued is contained in ADAMS document ML090900679, and the meeting slides are available in ADAMS document ML091170401. Documents in ADAMS are available electronically at the NRC's Electronic Reading Room at <http://www.nrc.gov/reading-rm/adams.html>. If you do not have access to ADAMS or have problems accessing the documents located in ADAMS, contact the NRC Public Document Room (PDR) staff at 1-800-397-4209, 301-415-4737, or [pdr@nrc.gov](mailto:pdr@nrc.gov).

The April 17, 2009, meeting was a Category 1 public meeting during which members of the public were invited to provide comment at specific times identified in the agenda. The meeting was open to the public for the entire duration. Members of the public included representatives from Ameren, PPL, PSEG, and Winston & Strawn and were present for the entirety of the meeting. There were no participants on the teleconference line. Several topics were covered as noticed in the meeting agenda. A summary of each topic is provided below in the following sections.

#### Intake Structure Relocation

The session began with brief introductory remarks by NRC staff. Then UniStar provided a brief background and described the scope of the relocation of the Intake Structure. Due to the challenges identified in the construction of the Unit 3 intake area, and due to the potential reduction in the environmental impacts to the adjacent cliff, the intake structure has been moved approximately 500 feet to the south. The Intake Structure will remain with a similar configuration and the safety classification of the structure will remain the same. There are no significant changes to the plant design bases. The Intake Structure will have a new orientation and location, and two new 60-inch diameter pipes will transport water to the forebay of the relocated structure. The affected FSAR section changes were briefly summarized and UniStar

provided a date of June 30, 2009, to submit the changes to the FSAR in Revision 5, or as a Supplement (with exception of specific geotechnical and civil/structural RAI issues identified).

### Geotechnical

Discussions of this session focused on the geotechnical issues from FSAR Section 2.5.4 and 2.5.5. The status of the current work within FSAR Section 2.5.4 and 2.5.5 was provided and the progression and future dates for activities required to complete work was discussed.

The critical path is the analysis of the new core borings at the new intake structure location. Unistar stated that the driving factors meeting the proposed scheduled are due to the unavailability of lab time, the limited amount of equipment, and the long duration of the testing. The lab testing is performed in series, and UniStar is waiting for soil samples, which are required for further testing. The test data results obtained from the soil samples are then used to perform the Structures Analysis Software System Interface (SASSI) analysis. The proposed milestone dates provided by UniStar are of high confidence and best available dates possible to complete their work.

### Seismic Design and Analysis

The majority of this session was focused on the discussion of RAI questions (FSAR Section 3.7.1, 3.7.2, and 3.7.3) and the response methodologies. A summary was provided to familiarize the staff with the sequence of events necessary to meet the milestones. UniStar emphasized the milestone dates provided for the individual activities are the best dates available; however, they would try to accelerate the schedule in any way possible.

Members of the public were in attendance. No public feedback forms were received. Please direct any inquires concerning this meeting to Jay Patel at 301-415-6714 or [Jay.Patel@nrc.gov](mailto:Jay.Patel@nrc.gov).

Sincerely,

*/RA/*

Jay Patel, Project Manager  
EPR Projects Branch  
Division of New Reactor Licensing  
Office of New Reactors

Docket No. 52-016

Enclosures: As stated

provided a date of June 30, 2009, to submit the changes to the FSAR in Revision 5, or as a Supplement (with exception of specific geotechnical and civil/structural RAI issues identified).

Geotechnical

Discussions of this session focused on the geotechnical issues from FSAR Section 2.5.4 and 2.5.5. The status of the current work within FSAR Section 2.5.4 and 2.5.5 was provided and the progression and future dates for activities required to complete work was discussed.

The critical path is the analysis of the new core borings at the new intake structure location. UniStar stated that the driving factors meeting the proposed scheduled are due to the unavailability of lab time, the limited amount of equipment, and the long duration of the testing. The lab testing is performed in series, and UniStar is waiting for soil samples, which are required for further testing. The test data results obtained from the soil samples are then used to perform the Structures Analysis Software System Interface (SASSI) analysis. The proposed milestone dates provided by UniStar are of high confidence and best available dates possible to complete their work.

Seismic Design and Analysis

The majority of this session was focused on the discussion of RAI questions (FSAR Section 3.7.1, 3.7.2, and 3.7.3) and the response methodologies. A summary was provided to familiarize the staff with the sequence of events necessary to meet the milestones. UniStar emphasized the milestone dates provided for the individual activities are the best dates available; however, they would try to accelerate the schedule in any way possible.

Members of the public were in attendance. No public feedback forms were received. Please direct any inquires concerning this meeting to Jay Patel at 301-415-6714 or [Jay.Patel@nrc.gov](mailto:Jay.Patel@nrc.gov).

Sincerely,  
**/RA/**

Jay Patel, Project Manager  
EPR Projects Branch  
Division of New Reactor Licensing  
Office of New Reactors

Docket No. 52-016  
Enclosures: As stated

DISTRIBUTION:

PUBLIC  
JMcLellan, NRO  
JPatel, NRO  
JColaccino, NRO  
JRycyna, NRO  
RidsNroDNRL/NARPRResource

**ADAMS Accession Number: ML091170401**

**NRO - 002**

<b>OFFICE</b>	DNRL/NARP:PM	DNRL/NARP:LA	DNRL/NARP:PM	DNRL/NARP:BC
<b>NAME</b>	JPatel	JMcLellan	JRycyna	JColaccino
<b>DATE</b>	04/29/09	04/29/09	04/29/09	05/8/09
<b>OFFICE</b>	DE/SEB2:BC	DSER/RGS1:BC		
<b>NAME</b>	JXu	RKaras		
<b>DATE</b>	05/07/09	05/07/09		

**OFFICIAL RECORD COPY**

**AGENDA FOR CALVERT CLIFFS RCOLA – PUBLIC MEETING TO DISCUSS INTAKE  
STRUCTURE RELOCATION, GEOTECH ISSUES AND SEISMIC ANALYSIS ISSUES**

**Friday, April 17, 2009  
9:00 a.m. – 12:00 a.m.**

- |    |  |           |            |
|----|--|-----------|------------|
| 1. | Introduction and Opening Remarks   | (NRC)     | 09:00 a.m. |
| 2. | Intake Structure Relocation  | (UniStar) | 09:10 a.m. |
|    | <ul style="list-style-type: none"><li>- Description and scope of relocation</li><li>- Review of plot plan drawing</li><li>- List of affected FSAR sections, including discussion of most affected sections</li></ul> |           |            |
| 3. | Seismic Design and Analysis (FSAR 3.7) issues  | (UniStar) | 09:45 a.m. |
|    | <ul style="list-style-type: none"><li>- RAI response items with potential impacts on NRC Phase I schedule closeout</li><li>- Discussion of proposed strategies to minimize schedule impact</li></ul>                 |           |            |
| 4. | Break  |           | 10:45 a.m. |
| 5. | Geo-technical (FSAR 2.5) issues  | (UniStar) | 11:00 a.m. |
|    | <ul style="list-style-type: none"><li>- COLA review schedule items with potential impacts on NRC Phase I schedule closeout</li><li>- Discussion of proposed strategies to minimize schedule impact</li></ul>         |           |            |
| 6. | Questions and Comments *   | (ALL)     | 11:45 a.m. |
| 7. | Closing Remarks  | (NRC)     | 11:50 a.m. |
| 8. | Adjourn  |           | 12:00 a.m. |

All times listed are approximate and for planning purposes only. Adjustments may be made during the meeting as necessary.

*\* The public will be given the opportunity to comment at these points in the meeting.*

**Attendance List**  
**EPR Calvert Cliffs RCOLA Public Meeting**  
**April 17, 2009**  
**United States Nuclear Regulatory Commission**  
**Two White Flint North (TWFN)**  
**Floor 9, Conference Room A01**  
**11545 Rockville Pike**  
**Rockville, Maryland, 20852**

<b>Name</b>	<b>Affiliation</b>	<b>Contact Information</b>
Jay Patel	NRC	301-415-6714
John Rycyna	NRC	301-415-4122
Greg Gibson	UniStar	979-665-2400
Chris Colbert	UniStar	443-266-7469
Mike Yox	UniStar	410-474-8587
Jacob Kulangara	Bechtel	301-228-7051
Aejaz Ali	AREVA	408-513-3529
TerryHarpster	PPL	570-802-8111
David Shafer	AmerenUE	573-676-4722
R.R.S. Garro	PPL	570-802-8102
Jim Xu	NRC	301-415-3024
Scott Close	Bechtel	301-228-7602
Dean Hallmann	Bechtel	301-228-7620
Navin Verma	Bechtel	301-228-6784
Nasser Massoudi	Bechtel	301-228-7654
Robert Poche	UniStar	410-470-5530
Rebecca Karas	NRC	301-415-7533
John Demitz	Bechtel	301-228-7612
Steve Routh	Bechtel	301-228-6245
Gary Janosko	PSEG	856-339-7912
Emily Duncan	Winston & Strawn	202-282-5629
Manas Chakravorty	NRC	301-415-3738
Tarico Sweet	NRC	301-415-3715
Steven Bloom	NRC	301-415-2431
Adam Gendelman	NRC	301-415-8445
Samir Chakrabarti	NRC	301-415-1106
Phil Hammond	AREVA	704-805-2292
Laura Quinn	NRC	301-415-2220
Sarah Gonzalez	NRC	301-415-1381
WeijunWang	NRC	301-415-1175
Getachew Tesfaye	NRC	301-415-3361
Joseph Colaccino	NRC	301-415-7102
Michael Miernicki	NRC	301-415-2304
Micheal Canova	NRC	301-415-0737
Prosanta Chowdhury	NRC	301-415-1647
Devender Reddy	NRC	301-415-4026

COL - Calvert Cliffs Mailing List  
cc:

(Revised 04/16/2009)

Mr. Richard L. Baker  
Bechtel Power Corporation  
5275 Westview Drive  
Frederick, MD 21703-8306

Mr. Brian Hastings  
Public Utility Commission  
William B. Travis Building  
P.O. Box 13326  
1701 Noth Congress Avenue  
Austin, TX 78701-3326

Ms. Patricia T. Birnie, Esquire  
Co-Director  
Maryland Safe Energy Coalition  
P. O. Box 33111  
Baltimore, MD 21218

Mr. Roy Hickok  
NRC Technical Training Center  
5700 Brainerd Road  
Chattanooga, TN 37411-4017

Ms. Michele Boyd  
Legislative Director  
Energy Program  
Public Citizens Critical Mass Energy  
and Environmental Program  
215 Pennsylvania Avenue, SE  
Washington, DC 20003

Mr. Norris McDonald  
President  
AAEA  
9903 Caltor Lane  
Ft. Washington, MD 20744

Ms. Kristen A. Burger  
Maryland People's Counsel  
6 St. Paul Centre  
Suite 2102  
Baltimore, MD 21202-1631

Mr. R. I. McLean  
Nuclear Programs  
Power Plant Research Program  
Maryland Department of Natural Resources  
580 Taylor Avenue (B wing, 3rd floor)  
Tawes State Office Building  
Annapolis, MD 21401

Mr. Carey Fleming, Esquire  
Senior Counsel - Nuclear Generation  
Constellation Generation Group, LLC  
750 East Pratt Street, 17th Floor  
Baltimore, MD 21202

Charles Peterson  
Pillsbury, Winthrop, Shaw & Pittman, LLP  
2300 "N" Street, NW  
Washington, DC 20037

Mr. Jay S. Gaines  
Director, Licensing  
Calvert Cliffs Nuclear Power Plant  
1650 Calvert Cliffs Parkway  
Lusby, MD 20657-4702

President  
Calvert County Board of Commissioners  
175 Main Street  
Prince Frederick, MD 20678

Mr. Greg Gibson  
Vice President, Regulatory Affairs  
UniStar Nuclear Energy  
250 West Pratt Street, Suite 2000  
Baltimore, MD 21202-3106

Regional Administrator  
Region I  
U. S. Nuclear Regulatory Commission  
475 Allendale Road  
King of Prussia, PA 19406

COL - Calvert Cliffs Mailing List

Resident Inspector  
U.S. Nuclear Regulatory Commission  
P. O. Box 287  
St. Leonard, MD 20685

Mr. Tom Sliva  
7207 IBM Drive  
Charlotte, NC 28262

Mr. David W. Sutherland  
Chesapeake Bay Field Office  
U.S. Fish and Wildlife Service  
177 Admiral Cochrane Drive  
Annapolis, MD 21401

Mr. George Wrobel  
UniStar Nuclear Energy  
100 Constellation Way, 1400P  
Baltimore, MD 21202-3106

## COL - Calvert Cliffs Mailing List

### Email

APH@NEI.org (Adrian Heymer)  
awc@nei.org (Anne W. Cottingham)  
BrinkmCB@westinghouse.com (Charles Brinkman)  
carey.fleming@constellation.com (Carey Fleming)  
chris.maslak@ge.com (Chris Maslak)  
cwaltman@roe.com (C. Waltman)  
david.lewis@pillsburylaw.com (David Lewis)  
eddie.grant@excelservices.com (Eddie Grant)  
FAlexander@sha.state.md.us (Felicia Alexander)  
george.wrobel@unistarnuclear.com (George Wrobel)  
greg.gibson@unistarnuclear.com (Greg Gibson)  
greshaja@westinghouse.com (James Gresham)  
gzinke@entergy.com (George Alan Zinke)  
jason.parker@pillsburylaw.com (Jason Parker)  
jerald.head@ge.com (Jerald G. Head)  
jgutierrez@morganlewis.com (Jay M. Gutierrez)  
jim.riccio@wdc.greenpeace.org (James Riccio)  
JJNesrsta@cpsenergy.com (James J. Nesrsta)  
John.O'Neill@pillsburylaw.com (John O'Neill)  
Joseph\_Hegner@dom.com (Joseph Hegner)  
KSutton@morganlewis.com (Kathryn M. Sutton)  
kwaugh@impact-net.org (Kenneth O. Waugh)  
lchandler@morganlewis.com (Lawrence J. Chandler)  
lois@ieer.org (Lois Chalmers)  
Marc.Brooks@dhs.gov (Marc Brooks)  
maria.webb@pillsburylaw.com (Maria Webb)  
mark.beaumont@wsms.com (Mark Beaumont)  
matias.travieso-diaz@pillsburylaw.com (Matias Travieso-Diaz)  
media@nei.org (Scott Peterson)  
mike\_moran@fpl.com (Mike Moran)  
MSF@nei.org (Marvin Fertel)  
nirsnet@nirs.org (Michael Mariotte)  
patriciaL.campbell@ge.com (Patricia L. Campbell)  
paul.gaukler@pillsburylaw.com (Paul Gaukler)  
Paul@beyondnuclear.org (Paul Gunter)  
pfree@northwestern.edu (Professor Paul Friesema)  
pshastings@duke-energy.com (Peter Hastings)  
RJB@NEI.org (Russell Bell)  
RKTemple@cpsenergy.com (R.K. Temple)  
RMClean@dnr.state.md.us (Richard McLean)  
sabinski@suddenlink.net (Steve A. Bennett)  
sandra.sloan@areva.com (Sandra Sloan)  
sfrantz@morganlewis.com (Stephen P. Frantz)  
sgray@dnr.state.md.us (Susan Gray)



COL - Calvert Cliffs Mailing List

stephan.moen@ge.com (Stephan Moen)  
tkkibler@scana.com (Tria Kibler)  
tlharpster@pplweb.om (Terry L. Harpster)  
trsmith@winston.com (Tyson Smith)  
Vanessa.quinn@dhs.gov (Vanessa Quinn)  
VictorB@bv.com (Bill Victor)  
Wanda.K.Marshall@dom.com (Wanda K. Marshall)  
wj3@comcast.net (William Johnston)