

February 9, 2001

LICENSEE: Calvert Cliffs Nuclear Power Plant, Inc.
FACILITY: Calvert Cliffs Nuclear Power Plant, Unit Nos. 1 and 2
SUBJECT: SUMMARY OF JANUARY 22, 2001, MEETING REGARDING THE
CALVERT CLIFFS NUCLEAR POWER PLANT, UNIT NOS. 1 AND 2 -
PROBABILISTIC RISK ANALYSIS (TAC NOS. MA8335 AND MA8336)

On January 22, 2001, the U.S. Nuclear Regulatory Commission (NRC) staff held a meeting at the NRC offices in Rockville, Maryland, with representatives from Calvert Cliffs Nuclear Power Plant, Inc., the licensee for Calvert Cliffs Nuclear Power Plant, Unit Nos. 1 and 2 to discuss the licensee's Probabilistic Risk Analysis (PRA). The list of meeting attendees is included as Enclosure 1. Enclosure 2 is a copy of the slides presented by the licensee at the meeting.

In a meeting on April 13, 2000, the licensee discussed steps that it intended to take to reduce the Core Damage Frequency (CDF) for Calvert Cliffs. The licensee stated that it would revise its PRA and had targeted a CDF of 1×10^{-4} .

In the January 22, 2001, meeting, the licensee explained that it had made changes to the PRA model that increased fidelity between the PRA model and the actual plant. The net result of these model changes reduced the calculated CDF for internal events by approximately 68 percent to 3.8×10^{-5} . The licensee's revised evaluation of external event CDF is not complete but is expected to also decrease. The revised external event CDF should be completed in May 2001.

The licensee also discussed the status of previously proposed plant modifications to reduce CDF. The licensee stated that, upon re-evaluation of these changes using the updated PRA models, they determined that the four previously proposed modifications were not cost beneficial. The licensee described an alternative modification that would achieve most of the benefit and was more cost-beneficial. This modification was entered into the corrective action program and is planned to be implemented in 2002-2003. The licensee estimates that this alternative modification, in addition to two other planned modifications, would result in an additional 10 percent reduction in core damage frequency.

In summary, the licensee estimates that the combined CDF, from internal and external events, will meet the goal of less than or equal to 1×10^{-4} . The licensee plans to submit its revised PRA for peer review in fall 2001. The licensee expects the CDF to be further reduced to 8×10^{-5} by 2003 after completing the proposed plant modifications.

The staff concluded that the licensee is taking appropriate steps to reduce the CDF for Calvert Cliffs Nuclear Power Plant, Units 1 and 2. In addition, based on the results presented and the estimated revised CDF, the staff finds that CCNPP is not an outlier among the industry in regards to CDF.

/RA/

Donna M. Skay, Project Manager, Section 1
Project Directorate I
Division of Licensing Project Management
Office of Nuclear Reactor Regulation

Docket Nos. 50-317 and 50-318

Enclosures: As stated

cc w/encls: See next page

February 9, 2001

The staff concluded that the licensee is taking appropriate steps to reduce the CDF for Calvert Cliffs Nuclear Power Plant, Units 1 and 2. In addition, based on the results presented and the estimated revised CDF, the staff finds that CCNPP is not an outlier among the industry in regards to CDF.

/RA/

Donna M. Skay, Project Manager, Section 1
Project Directorate I
Division of Licensing Project Management
Office of Nuclear Reactor Regulation

Docket Nos. 50-317 and 50-318

Enclosures: As stated

cc w/encls: See next page

DISTRIBUTION:

PUBLIC w/encls
PDI-1 Reading
DSkay
OGC
ACRS
J. Zwolinski/SBlack
EAdensam
MGamberoni
SLittle
Nick Saltos
Mark Reinhart
Rich Barrett
Bob Palla
Gareth Parry
Joe Shea

Accession NO. ML010250312

OFFICE	PM:PDI-1	LA:PDI-1	SPSB	SC:PDI-1
NAME	DSkay	SLittle	R. Barrett	MGamberoni
DATE	2/2/01	2/2/01	2/7/01	2/8/01

OFFICIAL RECORD COPY

Calvert Cliffs Nuclear Power Plant
Unit Nos. 1 and 2

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

James P. Bennett, Esquire
Counsel
Constellation Energy Group
P.O. Box 1475
Baltimore, MD 21203

Jay E. Silberg, Esquire
Shaw, Pittman, Potts, and Trowbridge
2300 N Street, NW
Washington, DC 20037

Mr. Bruce S. Montgomery, Director
NRM
Calvert Cliffs Nuclear Power Plant
1650 Calvert Cliffs Parkway
Lusby, MD 20657-4702

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

Mr. Richard I. McLean, Manager
Nuclear Programs
Power Plant Research Program
Maryland Dept. of Natural Resources
Tawes State Office Building, B3
Annapolis, MD 21401

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

Mr. Joseph H. Walter, Chief Engineer
Public Service Commission of
Maryland
Engineering Division
6 St. Paul Centre
Baltimore, MD 21202-6806

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

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

Mr. Loren F. Donatell
NRC Technical Training Center
5700 Brainerd Road
Chattanooga, TN 37411-4017

Mr. Charles H. Cruse
Vice President, Nuclear Energy
Calvert Cliffs Nuclear Power Plant, Inc.
Calvert Cliffs Nuclear Power Plant
1650 Calvert Cliffs Parkway
Lusby, MD 20657

MEETING ATTENDEES

CALVERT CLIFFS NUCLEAR POWER PLANT, INC.

CALVERT CLIFFS NUCLEAR POWER PLANT, UNIT NOS. 1 AND 2

JANUARY 22, 2001

<u>NAME</u>	<u>ORGANIZATION</u>
Donna Skay	NRR/PDI-1
Marsha Gamberoni	NRR/PDI-1
Nick Saltos	NRR/DSSA/SPSB
Mark Reinhart	NRR/DSSA/SPSB
Rich Barrett	NRR/DSSA/SPSB
Bob Palla	NRR/DSSA/SPSB
Gareth Parry	NRR/DSSA
E. G. Adensam	NRR/DLPM/LPDI
Mark Caruso	NRR/DSSA/SPSB
Tom Pritchett	CONSTELLATION ENERGY GROUP
Gary Pavis	CONSTELLATION ENERGY GROUP
Bruce Montgomery	CONSTELLATION ENERGY GROUP
Bruce Mrowca	CONSTELLATION ENERGY GROUP
Robert Cavedo	CONSTELLATION ENERGY GROUP