

DCS No.: 05000317/31803012010

Date: March 1, 2010

PRELIMINARY NOTIFICATION OF EVENT OR UNUSUAL OCCURRENCE -- PNO-I-10-001A

This preliminary notification constitutes EARLY notice of events of POSSIBLE safety or public interest significance. The information is as initially received without verification or evaluation, and is basically all that is known by the Region I staff on this date.

Facility

Constellation Energy Nuclear Group, Inc.  
Calvert Cliffs Nuclear Power Plant  
Lusby, MD  
Docket: 50-317/318

Licensee Emergency Classification

- Notification of Unusual Event
- Alert
- Site Area Emergency
- General Emergency
- Not Applicable

SUBJECT: UPDATE - CALVERT CLIFFS DUAL-UNIT REACTOR TRIP DUE TO PARTIAL LOSS OF OFFSITE POWER

This preliminary notification supplements information in PNO-I-10-001, which documented a dual unit reactor trip at Calvert Cliffs that resulted in a shutdown greater than 72 hours. The Unit 1 trip was caused by the loss of one of the reactor coolant pumps. The normal power supply to the electrical bus supplying the reactor coolant pump tripped due to water intrusion into the breaker cabinet. Unit 1 systems were subsequently cooled down and has entered a refueling outage, originally scheduled to begin on February 21, 2010.

The Unit 2 reactor trip was the result of the loss of a 13 KV transformer, caused by the failure of a protective relay after the Unit 1 bus was lost. The source of the water intrusion into the breaker cabinet (roof leak) has been repaired, and other maintenance has been completed. The cause of the 2B emergency diesel generator shutdown after starting was determined to be a faulty relay and slow response of the oil pressure sensing line. The relay has been replaced, the sensing line has been flushed and an extent of condition review was completed. Constellation restarted Unit 2 reactor on February 26, 2010, and the plant is currently synchronized to the electrical grid and increasing in power.

The NRC resident inspectors followed the startup activities on site.

The information presented herein has been discussed with Constellation and is current as of March 1, 2010, at 10:00 a.m.

This preliminary notification is issued for information only. No further updates of the PN are planned.

ADAMS Accession Number: ML100601326

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**SUNSI Review Complete: NSP (Reviewer's Initials)**

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(Rev. July 2, 2003)