

United States Nuclear Regulatory Commission Daily Event Report for 08/29/2011

Power Reactor	Event Number: 47207
Facility: CALVERT CLIFFS Region: 1 State: MD Unit: [1] [2] [] RX Type: [1] CE,[2] CE NRC Notified By: BRIAN HAYDEN HQ OPS Officer: DONALD NORWOOD	Notification Date: 08/27/2011 Notification Time: 21:06 [ET] Event Date: 08/27/2011 Event Time: 19:15 [EDT] Last Update Date: 08/27/2011
Emergency Class: NON EMERGENCY 10 CFR Section: 50.72(b)(3)(xiii) - LOSS COMM/ASMT/RESPONSE	Person (Organization): PAMELA HENDERSON (R1DO)

Unit	SCRAM Code	RX CRIT	Initial PWR	Initial RX Mode	Current PWR	Current RX Mode
1	N	Y	100	Power Operation	100	Power Operation
2	N	Y	100	Power Operation	100	Power Operation

Event Text

EMERGENCY SIRENS OUT-OF-SERVICE

"Sirens in St. Mary's and Calvert counties are out of service exceeding the minimum required of 19. Currently 44 sirens are out of service due to local power outages caused by the storm. Compensatory measures are in place for the affected counties. Route alerting will be used if necessary."

The licensee notified the NRC Resident Inspector.

Power Reactor	Event Number: 47208
Facility: CALVERT CLIFFS Region: 1 State: MD Unit: [1] [] [] RX Type: [1] CE,[2] CE NRC Notified By: GREGG BUCKMASTER HQ OPS Officer: DONALD NORWOOD	Notification Date: 08/27/2011 Notification Time: 23:27 [ET] Event Date: 08/27/2011 Event Time: 23:02 [EDT] Last Update Date: 08/28/2011
Emergency Class: UNUSUAL EVENT 10 CFR Section: 50.72(a) (1) (i) - EMERGENCY DECLARED 50.72(b)(2)(iv)(B) - RPS ACTUATION - CRITICAL 50.72(b)(3)(iv)(A) - VALID SPECIF SYS ACTUATION	Person (Organization): PAMELA HENDERSON (R1DO) BRUCE BOGER (NRR) DAVE LEW (R1) SHER BAHADUR (NRR) JANE MARSHALL (IRD) JOHN KNOX (DHS) DAVID BARDEN (FEMA)

Unit	SCRAM Code	RX CRIT	Initial PWR	Initial RX Mode	Current PWR	Current RX Mode
1	A/R	Y	100	Power Operation	0	Hot Standby

Event Text

UNUSUAL EVENT - TRANSFORMER EXPLOSION NEAR TURBINE BUILDING

"At 2248 on 8/27/2011, the Unit 1 Reactor experienced an automatic trip due to loss of load. This trip occurred due to a phase to phase short on the main generator output step-up transformer that resulted from a large section of turbine building siding breaking loose in high winds from Hurricane Irene and impacting the transformer. This impact resulted in an explosion (briefly until the trip removed power from the impact area) which met emergency action level declaration criteria A.U.6.2.2, 'Unanticipated explosion within Protected Area resulting in visible damage to permanent structures or equipment.' The Unusual Event was declared at 2302, 8/27/2011. Follow-up investigation determined no fire resulted from the explosion.

"Following the trip, Emergency Procedure, EOP-0, 'Post Trip Immediate Actions' was implemented. All safety functions were met during EOP-0 indicating an uncomplicated reactor trip response, allowing transition to EOP-1, 'Reactor Trip,' at 2300, 8/27/2011. During implementation of EOP-1, it was noted that #14 Containment Air Cooler had stopped running, as had #21 and #24 Containment Air Coolers on Unit 2. This was investigated and it was determined they had stopped running due to an instantaneous voltage drop that had occurred on the site distribution system during the phase to phase short event. This short duration voltage drop caused the Containment Air Coolers' controller to drop out and secure them. They were restarted without issue.

"At 2400, 8/27/2011, numerous alarms on the 1A DG started to be received. These were investigated and it was found that water was intruding down the DG exhaust piping resulting in a DC ground. Based on these indications the 1A DG was declared inoperable and appropriate technical specifications implemented.

"Besides the above issues plant response was as expected and EOP-1 was exited at 0130, 8/28/2011. [Procedure] OP-4, 'Shutdown from Power Operation to Hot Standby,' was implemented at that time.

All control rods fully inserted on the reactor trip. The plant is in a normal post-trip electrical lineup.

The licensee notified the NRC Resident Inspector.

* * * UPDATE FROM GREGG BUCKMASTER TO PETE SNYDER AT 0811 EDT ON 8/28/11 * * *

At 0755 EDT the licensee exited the Unusual Event condition based on the fact that they were able to inspect the area in the daylight and were satisfied that they knew the extent and nature of the damage.

The licensee will notify the NRC Resident Inspector. Notified R1 IRC (Dentel), DHS (Hill), FEMA (Via).