

October 4, 2004

PRELIMINARY NOTIFICATION OF EVENT OR UNUSUAL OCCURRENCE -- PNO-IV-04-027

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 IV staff on this date.

**Facility**

Entergy Operations, Inc.  
River Bend Station  
St. Francisville, Louisiana  
Docket: 50-458  
License No. NPF-47

**Licensee Emergency Classification**

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

SUBJECT: Shutdown Greater than 72 Hours

DESCRIPTION: On October 1, 2004, at approximately 7:19 a.m. (CDT) a fault occurred on Reserve Station Service (RSS) Line #1, causing a loss of the Division I emergency bus. The Division I emergency diesel generator started and loaded as designed.

At 7:30 a.m. a fault also occurred on the main transformer output line causing a generator lock-out, turbine trip, and subsequent reactor trip. The loss of the main transformer resulted in a loss of main feedwater and two circulating water pumps. The Main Steam Isolation Valves were closed by the operators due to lowering main steam line pressure, as a result of plant steam load isolation valves that could not be closed due to the loss of power, and difficulty in maintaining main condenser vacuum. The reactor was stabilized using the High Pressure Core Spray system and the Safety Relief Valves to control reactor level and pressure. Main feedwater was reestablished to control reactor water level. The plant was subsequently cooled down, and was in Mode 4 with reactor temperature less than 200 degrees F at 11:35 p.m. on October 1. The licensee is investigating the cause of the faults on RSS Line #1 and the main unit transformer output line.

The Senior Resident Inspector was in the control room at the time of the reactor trip and continued to monitor the licensee's actions. The Senior Resident Inspector from Waterford was dispatched to River Bend Station to assist in the event response. A special inspection will be conducted in response to this event.

Region IV has informed the offices of the Executive Director for Operations, Nuclear Reactor Regulation, and Public Affairs.

The state of Louisiana will be informed.

This information has been discussed with the licensee and is current as of 4:30 p.m. on October 3, 2004.

ADAMS ACCESSION ML04278052

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