

DCS No.: 05000311
Date: July 19, 2011

PRELIMINARY NOTIFICATION OF EVENT OR UNUSUAL OCCURRENCE - PNO-I-11-002A

This preliminary notification constitutes EARLY notice of events of POSSIBLE safety or public interest significance. Some of the information received may not yet be fully verified or evaluated by the Region Staff.

<u>Facility</u>	<u>Licensee Emergency Classification</u>
PSEG	<input checked="" type="checkbox"/> Notification of Unusual Event
Salem Generating Station	<input type="checkbox"/> Alert
Hancocks Bridge, NJ	<input type="checkbox"/> Site Area Emergency
Docket: 50-311	<input type="checkbox"/> General Emergency
	<input type="checkbox"/> Not Applicable

Subject: **UPDATE - SALEM GENERATING STATION NOTIFICATION OF UNUSUAL EVENT DUE TO REACTOR COOLANT SYSTEM LEAK GREATER THAN 10 GPM AND TECHNICAL SPECIFICATIONS REQUIRED SHUTDOWN**

This Preliminary Notification updates information discussed in PNO-I-11-002 in which Salem Unit Two declared an Unusual Event on July 14, 2011, based on Reactor Coolant System (RCS) leakage in excess of 10 gallon per minute (gpm). This update clarifies the sources of leakage contributing to the event, describes additional licensee follow up actions, and discusses restart activities.

The licensee's initial investigation of the event concluded that the majority of the noted leakage was from the crack on a weld associated with the boron injection tank (BIT) relief valve piping (1 ¼" piping, about 200 degrees around the weld's circumference). After additional review, the leak rate estimate from that source was revised downward to less than 1.0 gpm. The remaining RCS leakage (estimated to be about 15 gpm) was attributed to flow through the BIT relief valve which was later determined to have lifted during the event. The cracked piping and the relief valve have been replaced and post maintenance testing has been satisfactorily completed. The removed piping segment was sent offsite for analysis to determine the cause of the cracking. The licensee's preliminary conclusion is the crack was caused by transgranular corrosion. The licensee has completed extent of condition inspections of remaining welds within the BIT boundary for both units and identified no additional problems. NRC inspectors are continuing their review of the licensee's actions under the baseline inspection program.

The licensee initiated plant startup on July 18 and took the reactor critical at 10:19 p.m. with generator synchronization to the grid at 5:04 a.m., July 19. The resident inspectors monitored the licensee's restart activities.

ADAMS Accession Number: ML112000481

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Salem Generating Station
 Region I Form 83
 (Rev. Nov. 21, 2006)

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SUNSI Review Complete: ALB (Reviewer's Initials)

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