

PRELIMINARY NOTIFICATION OF EVENT OR UNUSUAL OCCURRENCE--PNO-I-85-94

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:
Philadelphia Electric Co
Peach Bottom Unit 2
DN 50-277

Licensee Emergency Classification:
☒ Notification of Unusual Event
☐ Alert
☐ Site Area Emergency
☐ General Emergency
☐ Not Applicable

Subject: REACTOR SCRAM AND FEEDWATER SYSTEM WATER HAMMER

Unit 2 scrambled from 44% power on low reactor water level at 2:12 p.m. on 12/26/85. The cause of the level decrease was the loss of 'A' reactor feed pump (RFP) on overspeed trip combined with feedwater level control system fluctuations. The 'B' and the 'C' RFPs were being swapped to troubleshoot RFP and level control instabilities identified during the reactor startup on 12/25/85. During the swapping of B and C pumps, the RFP check valves slammed three or more times causing a hydraulic transient in the RFP suction piping. The hydraulic transient resulted in the shearing off of a 1 inch drain line on the 20 inch suction piping to the 'C' RFP, causing a steam and water leak in the turbine building. The licensee made an ENS call and declared an Unusual Event due to the unplanned shutdown. Reactor water level decreased to -35 inches (-178 inches is the top of the active fuel). The MSIVs remained open and the 'B' RFP recovered water level to normal. When the feedwater leak was reported to the control room, the operators isolated the condensate and feedwater systems, and this action stopped the leak. The RCIC system was manually started to control reactor water level. There was no radioactive release from the leak. No personnel contamination occurred. The main stack release was 0.6% of tech spec limit due to the scram and resultant offgas transient (normal release for a scram). The licensee is inspecting the condensate and feedwater systems, and initiating repairs. The senior resident inspector and a regional inspector are onsite reviewing licensee corrective actions.

The Commonwealth of Pennsylvania has been notified.

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