

PRELIMINARY NOTIFICATION OF EVENT OR UNUSUAL OCCURRENCE--PNO-I-85-90

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: Pennsylvania Power & Light Co.
Susquehanna Units 1 & 2
Allentown, Pennsylvania
DNs 50-387 and 50-388

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

Subject: BOTH SUSQUEHANNA UNITS TRIP

At 3:08 p.m., December 2, the Unit 1 reactor tripped from full power due to a turbine trip on high reactor vessel level. Two minutes later, the Unit 2 reactor tripped from 80% power on low vessel level. This event initiated at 3:05 p.m. when Engineered Safeguards Service (ESS) transformer 111 deenergized causing a momentary loss of Unit 1 4KV bus 1C and Unit 2 4KV bus 2C. The busses were reenergized by another ESS transformer. The voltage transient during the transfer caused a loss of control signal to both units' reactor feed pumps (RFPs) resulting in a lockup at the existing speeds. A slow level increase ensued on Unit 1 and operators were unable to regain control of the RFPs before the high level trip. The Unit 2 operators, while attempting to manually control the RFPs, apparently caused level to drop below the low level set-point, causing the trip. The MSIVs closed on Unit 2 due to low level (void collapse after the scram). RCIC and HPCI were used for level and pressure control. Stable post scram conditions were established on both units.

Both units are in condition 3, Hot Shutdown. Troubleshooting of ESS transformer 111 is in progress. Unit 1 will be restarted following necessary repairs. Unit 2 will be brought to cold shutdown and the drywell entered for routine maintenance unrelated to the event.

Both resident inspectors reported to the control room shortly after the power upset, verified that post trip conditions were acceptable, and are continuing to follow up on this event.

The Commonwealth of Pennsylvania was notified.

This PN is issued for information only, and is current as of 9:00 a.m., December 3, 1985.

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