

Date: May 29, 1984

PRELIMINARY NOTIFICATION OF EVENT OR UNUSUAL OCCURRENCE--PNO-I-84-48

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 Company  
Susquehanna Unit 2 (50-388)  
Salem Township, Pennsylvania

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

Subject: POWER TRANSIENT ABOVE 5 PERCENT POWER

At approximately 1:00 am, May 28, 1984 with the reactor at about 4% indicated (APRM) power, malfunctions in steam bypass valve(s) caused valve closure. The resultant pressure increase caused reactor vessel water level to decrease. The feedwater system responded by doubling feed flow and the injection of cold feedwater resulted in a power transient with intermittent spikes exceeding licensed power level of 5%. Based on preliminary information, actual power level was about 2% at the start of the transient and the levels increased to about 8%. No trip or engineered safeguards signals were generated.

During a subsequent reactor shutdown at about 5:30 am, in response to a different problem (seat leakage in an RHR valve), problems were noticed in the electro-hydraulic control (EHC) system for the steam bypass valves and troubleshooting initiated. The shutdown was apparently stopped. During the troubleshooting, at about 11:00, another transient caused power (calculated) to go from 2% to about 4%. Apparently technician error resulted in a turbine trip signal which cycled all 5 bypass valves open and then shut. The feedwater system responded and the feed pump subsequently tripped on high level. The feedwater system was restored before any reactor protection or engineered safeguards actuation signals were generated.

At 1:45 pm, May 28, 1984, the reactor was manually scrammed for a planned shutdown to repair previously identified seat leakage in the 'B' loop low pressure coolant injection system injection valve and check valve. These repairs are expected to take 10 days.

The licensee and the NRC staff are reviewing the transients. The senior resident inspector made a preliminary onsite review of the events and the licensee's actions on May 28, 1984. A meeting has been scheduled for May 31, 1984 in Region I to review with the licensee their analyses and actions to-date.

The licensee has issued a press release on the planned shutdown. The Commonwealth of Pennsylvania has been informed of the transients and the shutdown.

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