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NHC Form 366 (9-83)

LICENSEE	EVENT	REPORT	(LER)	TEXT	CONTINUATION
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U.S. NUCLEAR REGULATORY COMMISSION

APPROVED OMB NO 3150-0104 EXPIRES 8/31/85

Susquehanna Steam Electric Station Unit 2	LER NUMBER (6)					
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During the performance of "18 Month Calibration of Reactor Vessel Water Level Channels LIS-B21-N024A,B,C, and D (SI-280-305)" on February 12, 1985, switch 2B of LIS-B21-N024A, switch 1A of LIS-B21-N024C, and switch 1A of LIS-B21-N024D were found outside of the acceptance criteria setpoints. All three of these instruments are Barton Model 288A level indicating switches. Switch 2B of LIS-B21-N024A actuates Division I Reactor Core Isolation Cooling (RCIC) high water level trip. Switch 1A of LIS-B21-N024C actuates Reactor Auto-Scram Trip Logic Channel "A2" in the Reactor Protection System (RPS), and switch 1A of LIS-B21-N024D actuates Reactor Auto-Scram Trip Logic Channel "B2" in the RPS on low reactor water level. Switch 1A of LIS-B21-N024C and switch 1A of LIS-B21-N024D also indirectly actuate some Division II isolation functions on low reactor water level through the logic of the RPS and Nuclear Steam Supply Shutoff System (NSSSS).

In the event of decreasing reactor water level, a reactor scram would still have occurred at a level within the Technical Specification value, even though the setpoints for switch IA of LIS-B21-N024C and switch IA of LIS-B21-N024D were less conservative than the Technical Specification allowable value of 11.5 inches. Switch IA of LIS-B21-N024A and switch IA of LIS-B21-N024B would have actuated Reactor Auto-Scram Trip Logic Channels "A1" and "B1", respectively, resulting in a scram due to RPS logic arrangement. The Division II isolation functions from NSSSS to the Outboard RHR Discharge Isolation Valve to Radwaste and the B Loop RHR LPCI Injection Valve require a trip input from both LIS-B21-N024C and LIS-B21-N024D in order to actuate. These functions would not have occurred until the reactor vessel level decreased to 9.6 inches indicated level which was the as found setpoint of switch IA of LIS-B21-N024D. The corresponding Division I isolation functions would have occurred at the level required by Technical Specifications since their trip signal originates at LIS-B21-N024A and LIS-B21-N024B.

The cause of the setpoints being outside of the acceptance criteria has been determined to be instrument drift. This is the first instance of these three particular switches being out of calibration. The instruments were recalibrated within final tolerance values of SI-280-305 and no problems were encountered. Susquehanna Steam Electric Station (SSES) has experienced setpoint drift on Barton Model 288A instruments in the past. A study is currently being conducted which will analyze the performance of the Barton Model 288A instruments in an attempt to identify any generic deficiencies in the switch. The results of this study should be available by July 1, 1985.

In order to observe the stability of the setpoint for switch 2B of LIS-B21-N024A, switch 1A of LIS-B21-N024C, and switch 1A of LIS-B21-N024D, the 18 Month Calibration surveillance will be performed in lieu of the first monthly channel functional check surveillance.

NRC Form 368A



Pennsylvania Power & Light Company

Two North Ninth Street • Allentown, PA 18101 • 215 / 770-5151

March 15, 1985

U.S. Nuclear Regulatory Commission Document Control Desk Washington, DC 20555

SUSQUEHANNA STEAM ELECTRIC STATION LICENSEE EVENT REPORT 85-009-00 ER 100450 FILE 841-23 PLAS-053

Docket No. 50-388 License No. NPF-22

Attached is Licensee Event Report 85-009-00. This event was determined reportable per 10CFR50.73(a)(2)(vii), in that two channels of reactor vessel level instrumentation were inoperable due to instrument setpoint drift.

IE22

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H.W. Keiser Superintendent of Plant-Susquehanna

DJG/pjg

cc: Dr. Thomas E. Murley Regional Administrator, Region I U.S. Nuclear Regulatory Commission 631 Park Avenue King of Prussia, PA 19406

> Mr. R.H. Jacobs Senior Resident Inspector U.S. Nuclear Regulatory Commission P.O. Box 52 Shickshinny, PA 18655