	LICENSEE EVENT REPORT (LER)									IUCLEAR REGULATORY COMMISSION APPROVED OMB NO. 3150-0104 EXPIRES: 8/31/85								
ACILITY	NAME (1								_		DOCKET NUMBER	(2)		PA	GE (3)			
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On September 30, 1984, the reactor scrammed due to a turbine trip on moisture separator 'B' drain tank high level during the performance of a Startup Test (ST) to determine the maximum feedwater pump runout capabilities. Feedwater fluctuations resulted in a 45% reactor recirculation pump runback which showed that the moisture separator 'B' drain tank level control system did not accurately respond to the trainsient.

The following system modifications have been completed:

- 1:1 gain pneumatic boosters were installed in the tubing between the emergency dump valve's positioner and actuator diaphragm.
- A check valve was installed in the drain line from each drain tank.
- Proportional controllers with reset capabilities were installed in the moisture separator drain tank level control system.

Level control system operation has been acceptable. No further modifications are planned.

* Not Applicable.

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NRC Form 366A (9-83)	LICENSEE EVENT REPORT (LER) TEXT CONTINUATION						U.S. NUCLEAR REGULATORY COMMISSION APPROVED OMB NO. 3150-0104 EXPIRES: 8/31/85					
FACILITY NAME (1)		DOCKET NUMBER (2)		ER NUMBER (6)	ABER (6)			PAGE (3)				
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TEXT /// more space is required, use additional NRC Form 396A's/ (17)

On September 30, 1984, during the performance of a Startup Test (ST) to determine the maximum feedwater pump runout capabilities, the Unit experienced an unanticipated reactor scram from 100% power due to moisture separator 'B' drain tank high water level. Reactor Feed Pump (RFP) 'B' had been placed in manual control and a bump on the Manual Speed Controller Fast Decrease Button resulted in a rapid drop in the RFP 'B' speed. The operator immediately pushed the fast speed increase button. Feedwater flow was restored, but not before reactor level reached the point where a 45% reactor recirculation pump speed runback occurred. This caused a pressure transient throughout the main steam system. The moisture separator 'B' drain tank level swelled beyond the high level turbine trip setpoint. Except for the moisture separator drain tank level control system, the unit's response and performance throughout the transient was per design. There were no Emergency Core Cooling System actuations; none were required.

Due to the fact that the moisture separator drain tank level control system did not adequately respond to this transient, coupled with the drain valve problems which led to the scrams reported in LER 84-17, a task team has been established to evaluate the drain tank level control system. Various system modifications have been implemented as detailed below:

- 1:1 gain pneumatic boosters were installed in the tubing between the valve positioner and the valve actuator diaphragm for the emergency dump valve on each moisture separator drain tank. This decreased the response time of the valves during transient conditions.
- A twelve inch check valve was installed in the drain line from each drain tank. This reduces the quantity of water available to flush in the moisture separators during transient conditions.
- Proportional controllers with reset capabilities were installed in place of the proportional only controllers in the moisture separators level control system. This stabilized the steady state response of the moisture separator control system and improved the level control valve response during transient conditions.

Moisture separator drain tank level control system operation has been satisfactory. No further modifications are planned.



Pennsylvania Power & Light Company

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January 29, 1985

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

SUSQUEHANNA STEAM ELECTRIC STATION LICENSEE EVENT REPORT 84-021-01 ER 100450 FILE 841-23 PLAS-032

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

Attached is Licensee Event Report 84-021-01. The event was determined reportable per 10CFR50.73(a)(2)(iv), in that the Unit experienced an unanticipated Reactor Protection System actuation when the reactor scrammed following a turbine trip on moisture separator 'B' drain tank high level. This update details the actions taken since this occurrence.

H.W. Keiser

Superintendent of Plant-Susquehanna

LAK/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

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