NRC Fore (9-83)	UNC Form 384 9-831 LICENSEE EVENT REPORT (LER)													U.S. NUCLEAR REGULATORY COMMISSION APPROVED OMB NO. 3150-0104 EXPIRES: 8/31/85										
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that the moisture separator 'B' drain tank level control system did not accurately respond to the transient. An evaluation of system design and operation is continuing. Any additional corrective actions will be reported in an update to this LER.

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\* Not Applicable.

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	LICENSEE EVENT REPORT (LER) TEXT CONTINUATION	APPROVED OM

FACILITY NAME (1)			DOCKET NUMBER (2)							LER NUMBER (6)								PAGE (3)				
Susquehanna Steam Electric Station									YE	AR		SEQU	MBE	AL		NUM	BER					
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LATORY COMMISSION

## TEXT (If more space is required, use additional NRC Form 366A'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. System modifications such as the installation of check valves in the moisture separator drain lines to the feedwater heaters are already under consideration. Any additional corrective actions will be reported in an update to this LER.



SUSQUEHANNA STEAM ELECTRIC STATION PO BOX 467, BERWICK, PA 18603

November 1, 1984

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

SUSQUEHANNA STEAM ELECTRIC STATION LICENSEE EVENT REPORT 84-021-00 ER 100450 FILE 841-23 PLAS-004

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

Attached is Licensee Event Report 84-021-00. This 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.

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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