HRG Form												NUCLEAR REGULATORY COMMISSION APPROVED OMB NO. 3150-0104 EXPIRES: 8/31/85										
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Adverse weather conditions caused voltage transients on the 500KV incoming line resulting in a plant scram and multiple equipment trips.

When instrument and service air compressors tripped, air supply was lost to the plant. The loss of air caused the isolation of the Condensate System. causing a loss of feedwater to the reactor. When low water level was reached a scram occurred. The water level was restored by RCIC.

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## 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)		R NUMBER (6)	PAGE (3)					
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TEXT (If more space is required, use additional NRC Form 366A's) (17)

On October 14, 1984, at approximately 1700 hours, with the plant operating at 19% thermal power and the turbine rotating at 400 rpm, adverse weather conditions caused voltage transients on the 500KV incoming line resulting in a plant scram and multiple equipment trips.

The voltage dropped below the trip setpoint of ESF 21 feeder breaker 152-1705 causing bus 17 AC to de-energize. The HPCS diesel auto started and re-energized bus 17 AC within approximately 10 seconds.

The drywell chillers tripped but were restarted within 1.5 minutes, ensuring the high drywell pressure setpoint would not be reached.

RWCU isolated, but had no effect on plant safety.

Instrument and service air compressors tripped resulting in the loss of air supply to the plant. Within 1.5 minutes after the trip both service air compressors were restarted. Within 2.6 minutes of the trip, an instrument air compressor was restarted.

With the loss of air to the plant, air pressure decreased causing an isolation of the condensate precoat filters. The precoat filter bypass valve failed co open or was slow in opening which caused the consensate boosters, the condensate and the feedwater pumps to trip on low suction or low flow. Therefore, a total loss of feedwater occurred.

The reactor water level dropped to the scram setpoint. RCIC was then used to return the level to normal.

Research into the problem revealed that the precoat bypass valve is only controlled by differential pressure while the precoat valves receive a close signal on loss of air. Thus the bypass valves may not immediately open when the precoat filter valves close. A design change is being initiated to correct this problem and preclude recurrence of a similar event.



## MISSISSIPPI POWER & LIGHT COMPANY Helping Build Mississippi

P. O. BOX 1640, JACKSON, MISSISSIPPI 39205

84 NOV 16 November 13, 1984

NUCLEAR LICENSING & SAFETY DEPARTMENT

U.S. Nuclear Regulatory Commission Region II 101 Marietta St., N.W., Suite 2900 Atlanta, Georgia 30323

Attention: Mr. J. P. O'Reilly, Regional Administrator

Dear Mr. O'Reilly:

SUBJECT: Grand Gulf Nuclear Station

Unit 1

Docket No. 50-416 License No. NPF-29 File: 0260/L-835.0

Reactor Scram Due to Low Water

Level LER 84-045-0 AECM-84/0511

Attached is Licensee Event Report (LER) 84-045-0 which is a final report.

Yours truly,

& H Hobbs L. F. Dale

Director

EBS/SHH: vog Attachment

cc: Mr. J. B. Richard (w/a)

Mr. R. B. McGehee (w/a)

Mr. N. S. Reynolds (w/a)

Mr. G. B. Taylor (w/o)

Mr. Richard C. DeYoung, Director (w/a) Office of Inspection & Enforcement U. S. Nuclear Regulatory Commission Washington, D. C. 20555

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