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Attachment to AECM-85/0153

NRC Form 366A (9-83)	Form 386A U.S. NUCLEAR REGUL LICENSEE EVENT REPORT (LER) TEXT CONTINUATION APPROVED OMB EXPIRES 8/31/8							MB NO 3	NO 3150-0104							
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## Description of Reportable Occurrence

On April 7, 1985 at 0957, the reactor automatically scrammed in response to a Main Steam Line isolation signal.

#### Initial Conditions

The plant was operating at 75% power.

# Status of Redundant or Backup Systems

Not Applicable.

### Nature of Occurrence

A maintenance technician was performing the "Main Steam Line (MSL) High Flow Calibration" on the Division 1 trip system. The surveillance calibration procedure produces one of two signals required for an MSL isolation. The technician verified, as specified at the start of the calibration procedure, that no isolation signals were present on Division 1 or Division 2. He then left the area to ask his supervisor a question about the procedure. He returned approximately ten minutes later and continued the calibration procedure through the step which produces an isolation signal. A spurious isolation signal on Division 2 occurred during the technician's absence which the operators could have thought to be associated with the calibration procedure in progress. The two isolation signals together resulted in MSIV closures causing the reactor to scram.

The Turbine Stop and Control Valves tripped causing the transfer of the Reactor Recirculation pumps to slow speed. Reactor pressure increased to approximately 1105 psig and two Safety Relief Valves (SRV's) lifted and reseated. One of the same two SRV's cycled open and closed three additional times as the low-low setpoint logic was actuated. RCIC was manually initiated to control reactor pressure and was used for reactor level control as required. Suppression Pool Cooling mode of RHR "A" was initiated. All safety systems performed as designed during scram recovery.

#### Immediate Corrective Actions Taken

The applicable Off-Normal Event Procedures and the Scram Recovery procedure were performed.

#### Apparent Cause

In order for the MSIVs to shut, an isolation signal had to be present on Division 2. The Shift Superintendent had observed an "MSL Low Pressure" alarm annunciate earlier that morning which had cleared immediately.

NRC FORM 366A (9-83)

Attachment to AECM-85/0153

LICENSEE EVENT REPO	ORT (LER) TEXT CONTINU	OITAL	v	U. <b>S</b> .	APP	ROVED OPIRES 8/3	MB NO 3	11 CO	MMIS	SION
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Both MSL low pressure transmitters on Division 2 were examined, and transmitter N076D was "ound to have water on the termination side. The N076D transmitter terminals were corroded causing a poor connection. The transmitter fails low which explains the false "MSL Low Pressure" signal. The cause of the water accumulation was not determined.

The Main Steam Line Low Pressure functional test had last been successfully performed on February 24, 1985.

#### Supplemental Corrective Action

Transmitter N076D was cleaned, reterminated, calibrated, and placed back in service. Additionally, the two Division 1 MSL pressure transmitters and the sixteen Division 1 and 2 MSL flow transmitters were inspected for the presence of water and none was found.

#### Safety Assessment

All safety systems performed as required.

MISSISSIPPI POWER & LIGHT COMPANY Helping Build Mississippi P. O. BOX 1640, JACKSON, MISSISSIPPI 39215-1640

May 7, 1985

NUCLEAR LICENSING & SAFETY DEPARTMENT Document Control Desk U. S. Nuclear Regulatory Commission Washington, D. C. 20555

Gentlemen:

SUBJECT: Grand Gulf Nuclear Station Unit 1 Docket No. 50-416 License No. NPF-29 File: 0260/L-835.0 Reactor Scram Due to Main Steam Line Isolation LER 85-016-0 AECM-85/0153

Attached is Licensee Event Report (LER) 85-016-0 which is a final report.

Yours truly,

L. F. Dale Director

EBS/SHH:vog Attachment

cc:	Mr. J. B. Richard (w/a)
	Mr. O. D. Kingsley, Jr. (w/a)
	Mr. R. B. McGehee (w/a)
	Mr. N. S. Reynolds (w/a)
	Mr. G. B. Taylor (w/o)
	Mr. R. C. Butcher (w/a)
	Mr. James M. Taylor, Director (w/a)
	Office of Inspection & Enforcement
	U. S. Nuclear Regulatory Commission
	Washington, D. C. 20555

Dr. J. Nelson Grace, Regional Administrator (w/a) U. S. Nuclear Regulatory Commission Region II 101 Marietta St., N. W., Suite 2900 Atlanta, Georgia 30323



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