

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1) Nine Mile Point Unit I	DOCKET NUMBER (2) 0 5 0 0 0 2 2 0	PAGE (3) 1 OF 0 2
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TITLE (4)  
Inoperable Stack Gas Sample Pump

EVENT DATE (5)			LER NUMBER (6)			REPORT DATE (7)			OTHER FACILITIES INVOLVED (8)																																																																																																								
MONTH	DAY	YEAR	YEAR	SEQUENTIAL NUMBER	REVISION NUMBER	MONTH	DAY	YEAR	FACILITY NAMES		DOCKET NUMBER(S)																																																																																																						
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LICENSEE CONTACT FOR THIS LER (12)

NAME Robert C. Randall, Supervisor, Technical Support	TELEPHONE NUMBER AREA CODE: 3 1 5 3 4 9 - 2 4 4 5
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COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)

CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPRDS	CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPRDS
X	I, S	P	G 0 4 6	N					
X	I, S	P	G 0 8 0	N					

SUPPLEMENTAL REPORT EXPECTED (14)

<input type="checkbox"/> YES (If yes, complete EXPECTED SUBMISSION DATE) <input checked="" type="checkbox"/> NO	EXPECTED SUBMISSION DATE (15)	MONTH DAY YEAR 
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ABSTRACT (Limit to 1400 spaces, i.e., approximately fifteen single-space typewritten lines) (16)

ABSTRACT

Between 1900 hours on February 1, 1986, and 0700 hours on February 2, 1986, Radioactive Gaseous Effluent Monitoring System (RAGEMS) stack gas sample pump 1 tripped. Upon discovery of the failure, the pump was immediately restarted and returned to service. An error message printed out by the counting room computer indicated that stack sample flow was lost at 2038 hours on February 1. The stack gas monitoring system was rendered inoperable for the period of time between failure and restart of the pump at 0715 February 2, 1986.

A similar event occurred between 0730 and 1220 hours on February 8, 1986. The Old General Electric Stack Monitoring System (OGESMS) pump 12 failed and the stack gas monitoring system was again rendered inoperable. OGESMS pump 11 was started upon discovery of the failure, returning the system to operation.

Corrective action on stack gas sample pump 1 (RAGEMS) consisted of replacing a failed board in the microprocessing unit, the failure of which caused the initial pump trip discovered on February 2, 1986.

The failure of the OGESMS pump 12 was attributed to a dirty pump housing and dirty vanes. The pump was cleaned and its bearings were replaced. OGESMS pump 12 is now operable.

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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

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		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
		0 8 6	0 0 2	0 0	0 2	OF	0 2

TEXT (If more space is required, use additional NRC Form 366A's) (17)

TEXT

At 0700 hours on February 2, 1986, it was discovered that the Radioactive Gaseous Effluent Monitoring System (RAGEMS) stack gas sample pump 1 had tripped. The pump was operating properly at 1900 hours on February 1, 1986, when the system was last checked for flow. A computer error message indicating loss of flow was printed out by the counting room computer at 2038 on February 1. Therefore, it is believed that the RAGEMS was rendered inoperable between 1900 and 2038 hours on February 1, 1986. The pump was restarted at 0715, February 2, and returned to service. At 0745 on February 3, 1986, RAGEMS stack gas sample pump 1 was taken out of service for troubleshooting by a DEC (Digital Equipment Corp.) field representative, in order to determine the cause of the failure. The Old General Electric Stack Monitoring System (OGESMS) pump 12, one of the redundant monitoring system pumps, was started, to provide continuous service.

With respect to the second event, at about 1220 hours on February 8, 1986, it was discovered that OGESMS pump 12 had failed. The pump was working properly when the system was checked for flow at 0730 on February 8, 1986. It was taken out of service, OGESMS pump 11 was started immediately, and the system was returned to operation.

On February 10, 1986, RAGEMS stack gas sample pump 1 was started and returned to service. There have been no problems with this pump since the repair.

ASSESSMENT OF POTENTIAL SAFETY CONSEQUENCES

No safety systems were affected. Normal monitoring of other plant parameters did not indicate any abnormal release of contaminants. Therefore, there was at no time any danger to plant personnel or to the public. Under design basis accident conditions, loss of the stack gas monitoring capability would not prevent calculation of stack releases using alternate plant parameter monitoring. The loss of stack gas monitoring capability would not prevent safe shutdown of the reactor.

CORRECTIVE ACTION

A DEC field representative determined that the cause of the failure of RAGEMS stack gas sample pump 1 was a failed board within the microprocessor. Specifically, the cause was the M8266 board. It is believed that a microchip on the board had become heat-sensitive.

Corrective action on OGESMS pump 12 consisted of cleaning the pump and replacing its bearings. OGESMS pump 12 is now operable.

