

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1) Grand Gulf Nuclear Station - Unit 1										DOCKET NUMBER (2) 0 5 0 0 0 4 1 6 1										PAGE (3) 1 OF 0 4	
TITLE (4) Failure To Take The Required Action In Technical Specifications For Inoperable Radiation Monitor On Standby Service Water System																					
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 NA				DOCKET NUMBER(S) 0 5 0 0 0								
0 2	0 4	8 8	8 8	0 0 7	0 0 0	0 3	0 4	8 8					0 5 0 0 0								
OPERATING MODE (9) 1		THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §: (Check one or more of the following) (11)																			
POWER LEVEL (10) 0 1 9 6		20.402(b)				20.405(e)				50.73(a)(2)(iv)				73.71(b)							
		20.405(a)(1)(i)				50.38(e)(1)				50.73(a)(2)(v)				73.71(e)							
		20.405(a)(1)(ii)				50.38(e)(2)				50.73(a)(2)(vii)				OTHER (Specify in Abstract below and in Text, NRC Form 368A)							
		20.405(a)(1)(iii)				X 50.73(a)(2)(i)				50.73(a)(2)(viii)(A)											
		20.405(a)(1)(iv)				50.73(a)(2)(ii)				50.73(a)(2)(viii)(B)											
		20.405(a)(1)(v)				50.73(a)(2)(iii)				50.73(a)(2)(ix)											
LICENSEE CONTACT FOR THIS LER (12)																					
NAME Paul M. Different/Licensing Engineer										TELEPHONE NUMBER 6 0 1 4 3 7 - 2 1 6 7											
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												
SUPPLEMENTAL REPORT EXPECTED (14)										EXPECTED SUBMISSION DATE (15)				MONTH	DAY	YEAR					
YES (If yes, complete EXPECTED SUBMISSION DATE)										X NO											

ABSTRACT (Limit to 1400 spaces, i.e., approximately fifteen single-space typewritten lines) (16)

January 27, 1988 the process radiation monitoring sample pump for Standby Service Water (SSW) "A" return flow was logged out-of-service. It was not identified as being Technical Specification related and the Limiting Condition for Operation (LCO) required action was not taken. The condition remained undetected until February 4, at which time the appropriate LCO was entered and grab samples taken in accordance with Technical Specifications until the sample pump was returned to operation.

The Auxiliary Building Operator performing normal rounds assumed that the sample pump was secured because of a deficiency tag on the pump suction valve. He believed that the sample pump had been intentionally removed from service rather than having failed. Subsequent investigation revealed that the pump was not running due to a blown fuse. The Shift Supervisor on shift at the time of the occurrence and subsequent Shift Supervisors failed to identify the condition as requiring entry into an LCO action statement when reviewing the round sheets.

Additionally, a common "Low Sample Flow" annunciator was in continuous alarm due to an associated radwaste sample pump being normally secured. Therefore control room operators could not detect low SSW "A" sample flow.

Operator round sheets have been changed to clearly indicate data which is Technical Specifications related to ensure prompt attention in the event of abnormal readings. Also, the radwaste effluent sample pump is now run continuously ensuring the common low sample pump flow annunciator is normally cleared.

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B22/1

NRC Form 308A
(9-83)

LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

U.S. NUCLEAR REGULATORY COMMISSION

APPROVED OMB NO. 3150-0104

EXPIRES: 8/31/90

FACILITY NAME (1)	DOCKET NUMBER (2)	LER NUMBER (3)			PAGE (3)	
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER		
Grand Gulf Nuclear Station - Unit 1	0 5 0 0 0 4 1 6	8 8	— 0 0 7	— 0 0	0 2	OF 0 4

TEXT (If more space is required, use additional NRC Form 308A's) (17)

A. REPORTABLE OCCURRENCE

On February 4, 1988 it was discovered that the radiation monitor sample flow for Standby Service Water (SSW) loop "A" return flow had been out-of-service since January 27, 1988 without taking the action required by Technical Specification Table 3.3.7.1-1.2. This condition is reportable pursuant to 10CFR50.73(a)(2)(i)(B).

B. INITIAL CONDITIONS

At the time of discovery, the plant was in Operation. Condition 1 at 96 percent of rated thermal power with SSW loop "A" in standby.

C. DESCRIPTION OF OCCURRENCE

On January 27, 1988 the process radiation monitoring sample pump (EIIIS Code GG-11L-RE-J005) for SSW "A" was found to be out-of-service by the Auxiliary Building Operator while performing normal rounds. He assumed the pump had been intentionally secured due to a leaking pump suction valve. The Auxiliary Building Operator logged the sample pump and flow rate as being out-of-service on the round sheet.

The round sheet did not indicate that the pump and flow are required by Technical Specifications. The Shift Supervisor on shift at the time of the occurrence and subsequent Shift Supervisors failed to identify the condition as requiring entry into a Limiting Condition for Operation (LCO) action statement when reviewing the round sheets.

The condition remained undetected until February 4, 1988. While reviewing the round sheets, the Shift Supervisor recognized that the inoperable pump required LCO action. The required action of Technical Specification Table 3.3.7.1-1.2 Action 70 was taken. Specifically, Action 70 requires that while the radiation monitor is inoperable, a grab sample be obtained and analyzed at least once per 24 hours.

D. APPARENT CAUSE

Operations personnel failed to recognize the significance of the out of service sample pump. The round sheets are the documentation of system monitoring done by operators during their rounds. The scope of the monitoring covers many plant systems including some which are covered by Technical Specification LCO's. The monitoring covered by the round sheets is not specifically required by Technical Specifications. The systems on the round sheets which are covered by Technical Specification LCO's were not specifically identified on the round sheets. The large amount of non-Technical Specification related data made it hard to identify the relatively few entries that are Technical Specification related.

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NRC Form 365A
(9-83)

LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

U.S. NUCLEAR REGULATORY COMMISSION

APPROVED OMB NO. 3150-0104

EXPIRES: 8/31/88

FACILITY NAME (1)	DOCKET NUMBER (2)	LER NUMBER (5)			PAGE (3)	
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TEXT (If more space is required, use additional NRC Form 365A (17))

The Auxiliary Building Operators assumed the pump had been intentionally secured earlier because of repair work needed on the pump suction valve as noted by a deficiency tag on the valve. However, the leaky suction valve did not require the pump to be secured or declared inoperable. The pump had tripped due to a blown fuse. The fact that the sample pump was out-of-service and that a condition which exceeded the LCO existed was not recognized by the Shift Supervisors on the various shifts during this time.

The common annunciator for low sample pump flow was not available to alert the operators to the abnormal condition. There are four sample pump flows monitored by the common annunciator and any one of them experiencing a low flow condition will cause the annunciator to alarm. The Liquid Radwaste Effluent Discharge Line sample pump, one of the four sample flows monitored by the common annunciator, was secured (normal alignment). This pump was operated only when a discharge to the discharge basin is in progress. Hence the common annunciator was normally in alarm and low SSW "A" sample flow was not detected.

E. SUPPLEMENTAL CORRECTIVE ACTION

The sample pump was determined to be inoperable due to a blown fuse. The inoperability was not related to the leaky valve or deficiency tag. The LCO was entered on February 4, with grab samples being taken every 24 hours until the sample pump was repaired and returned to operation on February 6, 1988.

The round sheets have been changed to provide a separate list of items which can effect Technical Specification operability. This enhances the Shift Supervisor's review of the round sheets. It will also alert the non-licensed auxiliary operator to those items which must be brought to the timely attention of the Shift Supervisor because of Technical Specification operability concerns.

The Liquid Radwaste Effluent Discharge Line sample pump is now run continuously, ensuring the common low sample pump flow annunciator is normally cleared. Any time the alarm is received, it will indicate an abnormal condition and will be investigated. And corrective action will be initiated.

Other annunciators that are normally in continuous alarm were reviewed to ensure no other problems would be unrecognized due to this condition. No additional problems were found. In the future, annunciators monitoring multiple inputs that are received and remain in continuous alarm for long periods of time will be evaluated and appropriate action taken to ensure another abnormal condition will be recognized.

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NRC Form 366A
(9-83)

LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

U.S. NUCLEAR REGULATORY COMMISSION

APPROVED OMB NO. 0150-0114

EXPIRES: 8/31/88

FACILITY NAME (1)	DOCKET NUMBER (2)	LER NUMBER (8)			PAGE (3)	
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Grand Gulf Nuclear Station - Unit 1	050004116	88	007	00	01	OF 04

TEXT (If more space is required, use additional NRC Form 366A (1/77))

In addition, a copy of this LER along with a memo from the Operations Superintendent stressing the importance of good communications between the shift operators and shift management and of continued identification of inoperable equipment was issued to all operations shift personnel.

Operations management will meet with operations shift personnel to review the consequences and contributing factors regarding this event. The following points will be emphasized in this meeting:

1. thoroughness in review of round sheets;
2. attention to detail regarding the status of equipment; and
3. the importance of team work in discussing and assessing equipment status on turnover.

These meetings will be completed by March 15, 1988.

F. SAFETY ASSESSMENT

The sample pump and radiation monitor were inoperable for eight days (January 27 to February 4) prior to discovery. Routine weekly samples taken on January 25 and February 1, 1988 showed no activity above background. Samples were also taken in accordance with Technical Specification 3.3.7.1 on February 4, 5, and 6 after the pump was determined to be inoperable. These samples, as all previous samples taken since initial fuel loading, detected no SSW activity levels above background. Therefore, the health and safety of the public were not affected. On February 6, 1988, the sample pump was returned to service.

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OLIVER D. KINGSLEY, JR.
Vice President
Nuclear Operations

March 4, 1988

U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Attention: Document Control Desk

Gentlemen:

SUBJECT: Grand Gulf Nuclear Station
Unit 1
Docket No. 50-416
License No. NPF-29
Failure To Take The Required
Action In Technical
Specifications For Inoperable
Radiation Monitor On Standby
Service Water System
LER 88-007-00
AECM-88/0053

Attached is Licensee Event Report (LER) 88-007-00 which is a final report.

Yours truly,

ODK:bms
Attachment

cc: Mr. T. H. Cloninger (w/a)
Mr. R. B. McGehee (w/a)
Mr. N. S. Reynolds (w/a)
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