



Northern States Power Company

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October 8, 1993

10 CFR Part 50
Section 50.73

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

PRAIRIE ISLAND NUCLEAR GENERATING PLANT
Docket Nos. 50-282 License Nos. DPR-42
50-306 DPR-60

Caseous Effluent Sampling Requirements Not Met for a 2-day
Period Due to Personnel Error and Inadequate Procedures

The Licensee Event Report for this occurrence is attached. In the report, we made the following new NRC commitments:

The silica gel sampler on the Auxiliary Building Normal Ventilation will always be valved in to an operating monitor, whether there is ventilation flow or not.

Procedure changes will be made to more clearly define when notifications are required. These changes will be in place by October 22.

Training to cover requirements for and reasons for notifications will be included in the 1994 licensed operator requalification program.

Training for engineers and technical staff to cover requirements for writing Work Requests that affect effluent release paths will be included in the 1994 engineer and technical staff training program.

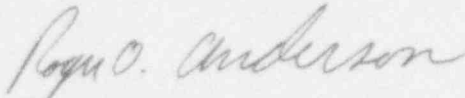
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US NRC
October 8, 1993
Page 2

Please contact us if you require additional information related to this event.



Roger O Anderson
Director
Licensing and Management Issues

c: Regional Administrator - Region III, NRC
NRR Project Manager, NRC
Senior Resident Inspector, NRC
Kris Sanda, State of Minnesota

Attachment

LICENSEE EVENT REPORT (LER)

(See reverse for required number of digits, characters for each block)

ESTIMATED BURDEN PER RESPONSE TO COMPLY WITH THIS INFORMATION COLLECTION REQUEST: 50.0 HRS. FORWARD COMMENTS REGARDING BURDEN ESTIMATE TO THE INFORMATION AND RECORDS MANAGEMENT BRANCH (MNB 7714), U.S. NUCLEAR REGULATORY COMMISSION, WASHINGTON, DC 20555-0001, AND TO THE PAPERWORK REDUCTION PROJECT (3150-0104), OFFICE OF MANAGEMENT AND BUDGET, WASHINGTON, DC 20503.

FACILITY NAME (1) Prairie Island Nuclear Generating Plant U1	DOCKET NUMBER (2) 05000 282	PAGE (3) 1 OF 4
TITLE (4) Gaseous Effluent Sampling Requirements Not Met for a 2-day Period Due to Personnel Error and Inadequate Procedures		

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 NAME	DOCKET NUMBER
09	08	93	93	-- 13 --	00	10	08	93	Prairie Island U2	05000 306
OPERATING MODE (9) N			THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §: (Check one or more) (11)							
POWER LEVEL (10) 100			20.402(b)		20.405(c)		50.73(a)(2)(iv)		73.71(b)	
			20.405(a)(1)(i)		50.36(c)(1)		50.73(a)(2)(v)		73.71(c)	
			20.405(a)(1)(ii)		50.36(c)(2)		50.75(a)(2)(vii)		OTHER	
			20.405(a)(1)(iii)		X 50.73(a)(2)(i)		50.73(a)(2)(viii)(A)		(Specify in Abstract below and in Text, NRC Form 366A)	
			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)(x)			

LICENSEE CONTACT FOR THIS LER (12)	
NAME Arne A Hunstad	TELEPHONE NUMBER (Include Area Code) 612-388-1121

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 15 single-spaced typewritten lines) (16)

On September 7, 1993, a modification to an Auxiliary Building Ventilation Gas Monitor was begun. The Duty Chemist was notified that the monitor would be removed from service and that the building ventilation configuration would change. This notification is made to inform the Duty Chemist of the impending change in ventilation configuration so that gaseous effluent sampling methods can be adjusted to meet effluent monitoring requirements. The monitor was then isolated and its channel module power supply turned off.

On September 8, with the monitor still out of service, the control room operator restored the ventilation system to its normal configuration using standing operating procedures. At this change in the ventilation configuration, the Duty Chemist was not informed.

On September 10, it was determined that the normal ventilation configuration had been restored on September 8 without notification of the Duty Chemist. A representative sample had not been collected on the silica gel sampler for two days.

Procedures will be changed and training accomplished.

NRC FORM 366A (5-92)		U.S. NUCLEAR REGULATORY COMMISSION		APPROVED BY OMB NO. 3150-0104 EXPIRES 5/31/95							
<p align="center">LICENSEE EVENT REPORT (LER) TEXT CONTINUATION</p>				<p>ESTIMATED BURDEN PER RESPONSE TO COMPLY WITH THIS INFORMATION COLLECTION REQUEST: 50.0 HRS. FORWARD COMMENTS REGARDING BURDEN ESTIMATE TO THE INFORMATION AND RECORDS MANAGEMENT BRANCH (MNBS 7714), U.S. NUCLEAR REGULATORY COMMISSION, WASHINGTON, DC 20555-0001, AND TO THE PAPERWORK REDUCTION PROJECT (3150-0104), OFFICE OF MANAGEMENT AND BUDGET, WASHINGTON, DC 20503.</p>							
FACILITY NAME (1)		DOCKET NUMBER (2)		LER NUMBER (6)							
Prairie Island Unit 1		05000 282		<table border="1"> <tr> <td>YEAR</td> <td>SEQUENTIAL NUMBER</td> <td>REVISION NUMBER</td> </tr> <tr> <td>93</td> <td>-- 13 --</td> <td>00</td> </tr> </table>	YEAR	SEQUENTIAL NUMBER	REVISION NUMBER	93	-- 13 --	00	PAGE (3)
YEAR	SEQUENTIAL NUMBER	REVISION NUMBER									
93	-- 13 --	00									
				2 OF 4							

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

EVENT DESCRIPTION

Gaseous effluents exiting the Unit 1 Auxiliary Building Normal Ventilation stack are monitored by redundant radiation monitors 1R-30 and 1R-37. These monitors each sample for noble gases, iodines, and particulates; the filters removed from an operating monitor are analyzed weekly. Also, a portable silica gel sampler is valved into one of the operating monitors to provide a monthly composite sample for tritium. If a monitor's sample pump is removed from service during the month, the silica gel sampler must be valved in to the other monitor's sample system to insure that a representative sample of the effluent flow is obtained.

Auxiliary Building Special Ventilation exhausts through the Shield Building stack, which is monitored by radiation monitor 1R-22. This monitor also samples for noble gases, iodines, and particulates. It is also equipped with its own silica gel sampler.

The monitoring is required by Technical Specification Table TS.4.17-4.

On September 7, 1993, a Work Request was initiated to modify radiation monitor 1R-30, Unit 1 Auxiliary Building Ventilation Gas Monitor. Redundant monitor 1R-37 was verified operable. The Duty Chemist was notified that 1R-30 was going to be removed from service and that Unit 1 Auxiliary Building Normal Ventilation would stop and Unit 1 Auxiliary Building Special Ventilation would start. This notification is made to inform the Duty Chemist of the impending change in ventilation configuration so that sampling methods can be adjusted to meet the monitoring requirements. The Duty Chemist valved in the silica gel sampler for monitor 1R-22 since effluent flow would be exiting the Shield Building stack. The Duty Chemist also moved the portable silica gel sampler over to monitor 1R-37, but did not valve it in since Auxiliary Building Normal Ventilation was out of service.

Monitor 1R-30 was isolated and its channel module power supply turned off. The monitor's sample pump and motor were removed for modification. Effluent sampling of the ventilation configuration was proper at this point.

On September 8, the 1R-30 channel module power supply was turned back on so that Auxiliary Building Normal Ventilation could be restored. (1R-30 was still inoperable at this point since its sample pump had been removed. Monitor 1R-37 was operating; however, the silica gel sampler was not valved in.) The control room operator restored the ventilation system to its normal configuration using standing operating procedures; Auxiliary Building Special Ventilation was stopped and Auxiliary Building Normal

LICENSEE EVENT REPORT (LER)
TEXT CONTINUATION

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FACILITY NAME (1)	DOCKET NUMBER (2)	LER NUMBER (6)			PAGE (3)
Prairie Island Unit 1	05000 282	YEAR	SEQUENTIAL NUMBER	REVISION NUMBER	3 OF 4
		93	-- 13 --	00	

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

Ventilation started. At this change in the ventilation configuration, the Duty Chemist was not informed, so no changes were made in the sampling configuration.

On September 10, in a discussion between the Radiation Monitoring System Engineer and the Radiochemistry Supervisor, it was determined that the normal ventilation configuration had been restored on September 8 without notification of the Duty Chemist. A representative sample had not been collected on the silica gel sampler for two days. The silica gel sampler was immediately valved in to the operating monitor 1R-37.

CAUSE OF THE EVENT

The event had several causes.

The Work Request did not call for notification of the Duty Chemist at those times when ventilation configuration was being changed.

Normal operating procedures did not call for notification of the Duty Chemist at those times when ventilation configuration was being changed.

There is a caution tag on the control switch for the affected fans, but it is easily overlooked.

It is not clear to all operators and engineers concerned why the notifications are required and what the Duty Chemist does when a notification is received. The operator involved in this event believed that the notification to the Duty Chemist was more closely related to operability of the radiation monitor 1R-30 than to ventilation configuration. The system engineer believed that 1R-37 would satisfy the monitoring requirements when the normal ventilation configuration was restored on September 8.

ANALYSIS OF THE EVENT

The event is reportable pursuant to 10CFR50.73(a)(2)(i)(B). A specification on Technical Specification Table TS.4.17-4 was not met in that a silica gel sampler did not obtain a representative sample of effluent flow for a 2-day period.

Other samples and calculations indicate that effluent releases were normal; tritium released was less than 0.1% of allowable limits. There were no abnormal operations in the plant during the 2-day period that would indicate that releases were anything but normal. Therefore, health and safety of the public was unaffected.

MRC FORM 366A (5-92)		U.S. NUCLEAR REGULATORY COMMISSION		APPROVED BY OMB NO. 3150-0104 EXPIRES 5/31/95	
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Prairie Island Unit 1		05000 282		YEAR 93	SEQUENTIAL NUMBER -- 13 --
				REVISION NUMBER 00	PAGE (3) 4 OF 4

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

CORRECTIVE ACTION

The silica gel sampler on the Auxiliary Building Normal Ventilation will always be valved in to an operating monitor, whether there is ventilation flow or not.

Procedure changes will be made to more clearly define when notifications are required. These changes will be in place by October 22.

Training to cover requirements for and reasons for notifications will be included in the 1994 licensed operator regualification program.

Training for engineers and technical staff to cover requirements for writing Work Requests that affect effluent release paths will be included in the 1994 engineer and technical staff training program.

Improved control board labeling is being investigated.

Improved sampling methods are being studied.

FAILED COMPONENT IDENTIFICATION

None.

PREVIOUS SIMILAR EVENTS

There have been no previous similar events reported at Prairie Island.