



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

Failure to Perform Offsite Dose and Effluent Monitor Setpoint
Calculations Due to Procedural Inadequacy and Personnel Error

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

The monthly dose calculations and the monthly effluent monitor setpoint calculations are now being scheduled by the Chemistry Group's work scheduling program, and both calculations have also been added to the Chemistry Group's surveillance program. These processes will schedule the initiation, review and completion of both calculations. Radiation Protection Implementing Procedures have been revised to reflect the above changes.

The Radiation Protection and Chemistry Group is reviewing other areas that may depend on non-scheduled actions; any such actions found will be added to the work scheduling programs.

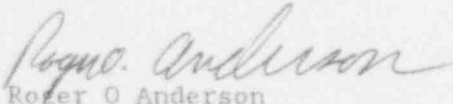
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Please contact us if you require additional information related to this event.



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 U1DOCKET NUMBER (2)
05000 282PAGE (3)
1 OF 3

TITLE (4) Failure to Perform Offsite Dose and Effluent Monitor Setpoint Calculations Due to Procedural Inadequacy and Personnel Error

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	-- 12 --	00	10	08	93	Prairie Island U2	05000 306
									FACILITY NAME	DOCKET NUMBER
										05000

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)		50.73(a)(2)(vii)		OTHER
		20.405(a)(1)(iii)	X	50.73(a)(2)(i)		50.73(a)(2)(viii)(A)		(Specify in
		20.405(a)(1)(iv)		50.73(a)(2)(ii)		50.73(a)(2)(viii)(B)		Abstract below
20.405(a)(1)(v)		50.73(a)(2)(iii)		50.73(a)(2)(x)		and in Text, NRC Form 366A)		

LICENSEE CONTACT FOR THIS LER (12)

NAME
Arne A HunstadTELEPHONE 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 NPDs	CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPDs

SUPPLEMENTAL REPORT EXPECTED (14)

YES (If yes, complete EXPECTED SUBMISSION DATE).	X	NO	EXPECTED SUBMISSION DATE (15)	MONTH	DAY	YEAR

ABSTRACT (Limit to 1400 spaces, i.e., approximately 15 single-spaced typewritten lines) (16)

On September 8, 1993, the Radiochemistry Supervisor was reviewing the dose calculations for liquid and noble gas releases for the month of August 1993. During that review, he noted that the dose calculations due to radioactive releases of liquids and gases had not been completed for the month of July 1993. Further review showed that the monthly alarm setpoint calculations for liquid and airborne effluent monitors, which are normally performed at the same time as the dose calculations, were also not completed for the month of July 1993. The dose and setpoint calculations are required by Technical Specifications in accordance with methods specified in the Offsite Dose Calculations Manual.

Dose and setpoint calculations were performed on the July release data as soon as the oversight was detected. Those calculations verified that the previous monitor setpoints were correct and that the doses to the public were very small at less than 0.2% of quarterly and annual dose limits.

The monthly dose calculations and the monthly effluent monitor setpoint calculations are now being scheduled by the Chemistry Group's work scheduling program, and both calculations have also been added to the Chemistry Group's surveillance program.

NRC FORM 366A (5-92)		U.S. NUCLEAR REGULATORY COMMISSION		APPROVED BY OMB NO. 3150-0-04 EXPIRES 5/31/95	
LICENSEE EVENT REPORT (LER) TEXT CONTINUATION				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)		DOCKET NUMBER (2)		LER NUMBER (6)	
Prairie Island Unit 1		05000 282		YEAR 93	SEQUENTIAL NUMBER -- 12 --
				REVISION NUMBER 00	PAGE (3) 2 OF 3

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

EVENT DESCRIPTION

On September 8, 1993, the Radiochemistry Supervisor was reviewing the dose calculations for liquid and noble gas releases for the month of August 1993. During that review, he noted that the monthly dose totals and the current calendar quarter's cumulative totals were the same values. Investigation of controlled records and the computer database showed that the dose calculations due to radioactive releases of liquids and gases had not been completed for the month of July 1993. The dose calculations are required by Technical Specifications 4.17.A and 4.17.B in accordance with methods specified in the Offsite Dose Calculations Manual.

Further review showed that the monthly alarm setpoint calculations for liquid and airborne effluent monitors, which are normally performed at the same time as the dose calculations, were also not completed for the month of July 1993. The setpoint calculations are required by Technical Specifications 3.9.E and 3.9.F in accordance with methods specified in the Offsite Dose Calculations Manual.

Dose and setpoint calculations were performed on the July release data as soon as the oversight was detected. Those calculations verified that the previous monitor setpoints were correct and that the doses to the public were very small at less than 0.2% of quarterly and annual dose limits.

CAUSE OF THE EVENT

Primary causes of the event were lack of procedures and personnel error. The required calculations were not scheduled by the Chemistry Group's work scheduling program and were not tracked by the Chemistry Group's surveillance program. The calculations are conducted on the Radiation Dose Assessment Computer and are completed by the Radiochemistry Supervisor. The calculations are supported procedurally by Radiation Protection Implementing Procedures in the Count Room Manual. The computer generates all of the required documentation, so completion of standard surveillance forms seemed inappropriate.

Since the calculations have not been scheduled activities, it has been the responsibility of the Radiochemistry Supervisor to remember to complete the calculations each month after the previous month's effluent release sampling and analyses had been completed. He failed to perform the July calculations and that fact was not discovered until the August calculations were performed.

ANALYSIS OF THE EVENT

This event is reportable pursuant to 10CFR50.73(a)(2)(i)(B). Technical

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Prairie Island Unit 1		05000 282		YEAR 93	SEQUENTIAL NUMBER -- 12 --
				REVISION NUMBER 00	PAGE (3) 3 OF 3

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

Specifications-required calculations for dose rates and effluent monitor setpoints were not made monthly in accordance with the Offsite Dose Calculations Manual.

During July 1993 effluent releases were normal. Dose and setpoint calculations were performed on the July release data as soon as the oversight was detected. Those calculations verified that the previous monitor setpoints were correct and that the doses to the public were very small at less than 0.2% of quarterly and annual dose limits. Therefore, the health and safety of the public were unaffected.

CORRECTIVE ACTION

The monthly dose calculations and the monthly effluent monitor setpoint calculations are now being scheduled by the Chemistry Group's work scheduling program, and both calculations have also been added to the Chemistry Group's surveillance program. These processes will schedule the initiation, review and completion of both calculations. Radiation Protection Implementing Procedures have been revised to reflect the above changes.

The Radiation Protection and Chemistry Group is reviewing other areas that may depend on non-scheduled actions; any such actions found will be added to the work scheduling programs.

FAILED COMPONENT IDENTIFICATION

None.

PREVIOUS SIMILAR EVENTS

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