

February 12, 2008

L-PI-08-007  
10 CFR 50.73

U S Nuclear Regulatory Commission  
ATTN: Document Control Desk  
Washington, DC 20555-0001

Prairie Island Nuclear Generating Plant Unit 1  
Docket 50-282  
License No. DPR-42

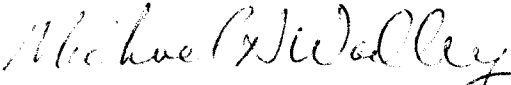
LER 1-07-04, Technical Specification Required Shutdown Due to Both Emergency Diesel Generators Being Inoperable

Nuclear Management Company, LLC (NMC) herewith encloses Licensee Event Report (LER) 1-07-04. The LER describes the events surrounding completion of a Technical Specification required shutdown of Unit 1. Nuclear Management Company, LLC (NMC) reported the initiation of the Technical Specification required shutdown per 10 CFR 50.72 on December 21, 2007 (Refer to Event Number 43859).

Summary of Commitments

This letter contains one new commitment and no changes to existing commitments:

*NMC will supplement this LER upon completion of the root cause evaluation for this event.*

  
Michael D. Wadley  
Site Vice President, Prairie Island Nuclear Generating Plant  
Nuclear Management Company, LLC

Enclosure

cc: Administrator, Region III, USNRC  
Project Manager, Prairie Island, USNRC  
Resident Inspector, Prairie Island, USNRC  
Department of Commerce, State of Minnesota

**ENCLOSURE**

**LICENSEE EVENT REPORT 1-07-04**

3 Pages Follow

## LICENSEE EVENT REPORT (LER)

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

Estimated burden per response to comply with this mandatory collection request: 80 hours. Reported lessons learned are incorporated into the licensing process and fed back to industry. Send comments regarding burden estimate to the Records and FOIA/Privacy Service Branch (T-5 F52), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by internet e-mail to infocollects@nrc.gov, and to the Desk Officer, Office of Information and Regulatory Affairs, NEOB-10202, (3150-0066), Office of Management and Budget, Washington, DC 20503. If a means used to impose an information collection does not display a currently valid OMB control number, the NRC may not conduct or sponsor, and a person is not required to respond to, the information collection.

## 1. FACILITY NAME

Prairie Island Nuclear Generating Plant Unit 1

## 2. DOCKET NUMBER

05000282

## 3. PAGE

1 of 3

## 4. TITLE

Technical Specification Required Shutdown Due to Both Emergency Diesel Generators Being Inoperable

5. EVENT DATE			6. LER NUMBER			7. REPORT DATE			8. OTHER FACILITIES INVOLVED	
MONTH	DAY	YEAR	YEAR	SEQUENTIAL NUMBER	REV NO	MONTH	DAY	YEAR	FACILITY NAME	DOCKET NUMBER
12	21	2007	2007	- 04 -	0	02	12	2008	FACILITY NAME	DOCKET NUMBER

## 9. OPERATING MODE

3

## 10. POWER LEVEL

0

## 11. THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §: (Check all that apply)

- |   |   |   |   |
|---|---|---|---|
| <input type="checkbox"/> 20.2201(b)         | <input type="checkbox"/> 20.2203(a)(3)(i)             | <input type="checkbox"/> 50.73(a)(2)(i)(C)  | <input type="checkbox"/> 50.73(a)(2)(vii)     |
| <input type="checkbox"/> 20.2201(d)         | <input type="checkbox"/> 20.2203(a)(3)(ii)            | <input type="checkbox"/> 50.73(a)(2)(ii)(A) | <input type="checkbox"/> 50.73(a)(2)(viii)(A) |
| <input type="checkbox"/> 20.2203(a)(1)      | <input type="checkbox"/> 20.2203(a)(4)                | <input type="checkbox"/> 50.73(a)(2)(ii)(B) | <input type="checkbox"/> 50.73(a)(2)(viii)(B) |
| <input type="checkbox"/> 20.2203(a)(2)(i)   | <input type="checkbox"/> 50.36(c)(1)(i)(A)            | <input type="checkbox"/> 50.73(a)(2)(iii)   | <input type="checkbox"/> 50.73(a)(2)(ix)(A)   |
| <input type="checkbox"/> 20.2203(a)(2)(ii)  | <input type="checkbox"/> 50.36(c)(1)(ii)(A)           | <input type="checkbox"/> 50.73(a)(2)(iv)(A) | <input type="checkbox"/> 50.73(a)(2)(x)       |
| <input type="checkbox"/> 20.2203(a)(2)(iii) | <input type="checkbox"/> 50.36(c)(2)                  | <input type="checkbox"/> 50.73(a)(2)(v)(A)  | <input type="checkbox"/> 73.71(a)(4)          |
| <input type="checkbox"/> 20.2203(a)(2)(iv)  | <input type="checkbox"/> 50.46(a)(3)(ii)              | <input type="checkbox"/> 50.73(a)(2)(v)(B)  | <input type="checkbox"/> 73.71(a)(5)          |
| <input type="checkbox"/> 20.2203(a)(2)(v)   | <input checked="" type="checkbox"/> 50.73(a)(2)(i)(A) | <input type="checkbox"/> 50.73(a)(2)(v)(C)  | <input type="checkbox"/> OTHER                |
| <input type="checkbox"/> 20.2203(a)(2)(vi)  | <input type="checkbox"/> 50.73(a)(2)(i)(B)            | <input type="checkbox"/> 50.73(a)(2)(v)(D)  |   |
- Specify in Abstract below or in NRC Form 366A

## 12. LICENSEE CONTACT FOR THIS LER

NAME Jeff Kivi	TELEPHONE NUMBER (Include Area Code) 651.388.1121
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## 13. COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT

CAUSE	SYSTEM	COMPONENT	MANU-FACTURER	REPORTABLE TO EPIX	CAUSE	SYSTEM	COMPONENT	MANU-FACTURER	REPORTABLE TO EPIX

## 14. SUPPLEMENTAL REPORT EXPECTED

☒ YES (If yes, complete 15. EXPECTED SUBMISSION DATE).☐ NO15. EXPECTED  
SUBMISSION  
DATE

MONTH	DAY	YEAR
03	28	2008

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

On December 21, 2007, with the Unit 1 Train B emergency diesel generator (D2) out of service for planned maintenance, Nuclear Management Company, LLC (NMC) staff were conducting a required surveillance test on the Unit 1 Train A 4kV Bus (Bus 15) load sequencer. The load sequencer failed the surveillance and the Unit 1 Train A emergency diesel generator (D1) was declared inoperable as a result. With both D1 and D2 inoperable, Technical Specifications requires the affected Unit to be shutdown. Shutdown to Mode 3 was completed at approximately 0700 on December 21, 2007. Thus, this event is being reported in accordance with 10 CFR 50.73(a)(2)(i)(A) as a Technical Specification required shutdown.

Unit 1 resumed Mode 1 power operation at approximately 1600 on December 24, 2007, after the Bus 15 load sequencer (and D1) and D2 were returned to service.

**LICENSEE EVENT REPORT (LER)**  
**CONTINUATION SHEET**

U.S. NUCLEAR REGULATORY COMMISSION

1. FACILITY NAME	2. DOCKET	6. LER NUMBER YEAR SEQUENTIAL NUMBER	REV NO	3. PAGE
Prairie Island Nuclear Generating Plant Unit 1	05000282	2007 - 04	- 0	2 of 3

EVENT DESCRIPTION

On December 21, 2007, with the Unit 1 Train B emergency diesel generator<sup>1</sup> (D2) out of service for planned maintenance, Nuclear Management Company, LLC (NMC) staff were conducting a required surveillance test on the Unit 1 Train A 4kV<sup>2</sup> Bus<sup>3</sup> (Bus 15) load sequencer. The load sequencer failed the surveillance and the Unit 1 Train A emergency diesel generator (D1) was declared inoperable as a result. With both D1 and D2 inoperable, Technical Specifications requires the affected Unit to be shutdown. Shutdown to Mode 3 was completed at approximately 0700 on December 21, 2007.

EVENT ANALYSIS

The event resulted in Unit 1 being brought to Mode 3, thus, this event is being reported in accordance with 10 CFR 50.73(a)(2)(i)(A) as a Technical Specification required shutdown.

Impact on Safety System Functional Failure Performance Indicator

No actual loss of function occurred as a result of this event. The Unit 1 emergency AC buses remained energized at all times and D1 (although inoperable) was available for powering Bus 15 using manual operator actions under an approved procedure. Consequently, this event is not reportable per 10CFR 50.73(a)(2)(v).

SAFETY SIGNIFICANCE

Unit 1 emergency AC buses remained energized throughout the event. D1 was available for powering Bus 15 using manual operator actions had offsite sources to the Unit 1 emergency AC buses been lost during the event. Additionally, the cross-ties between Unit 1 and Unit 2 emergency AC buses were available to repower Unit 1 emergency AC buses from the Unit 2 emergency diesel generators. Thus, this event did not affect the health and safety of the public and the safety significance of this event is considered minimal.

CAUSE

The cause of the Bus 15 sequencer failure is under investigation. After completion of the root cause evaluation, NMC will supplement this LER.

<sup>1</sup> EIIS System Identifier: EK; EIIS Component Identifier: DG

<sup>2</sup> EIIS System Identifier: EB

<sup>3</sup> EIIS Component Identifier: BU

NRC FORM 366A (9-2007)		<b>LICENSEE EVENT REPORT (LER)</b>		U.S. NUCLEAR REGULATORY COMMISSION	
<b>CONTINUATION SHEET</b>					
1. FACILITY NAME		2. DOCKET NUMBER		3. PAGE	
Prairie Island Nuclear Generating Plant Unit 1		05000282		3 of 3	
		6. LER NUMBER			
		YEAR		SEQUENTIAL	
		2007		NUMBER	
		- 04		REV	
				NO	
				- 0	

CORRECTIVE ACTION

NMC staff conducted troubleshooting and replaced an input/output card on the Bus 15 load sequencer, after which the Bus 15 load sequencer successfully passed the surveillance. As a result, the Bus 15 load sequencer and D1 were returned to operable status. D2 was returned to operable status after completion of the planned maintenance.

Further Corrective Actions will be identified by the root cause evaluation. After completion of the root cause evaluation, NMC will supplement this LER.

PREVIOUS SIMILAR EVENTS

Review of Licensee Event Reports for Unit 1 and Unit 2 since 2005 found three previous Technical Specification required shutdowns. However, none of these were the result of a failed bus sequencer (two were for Unit 2 emergency diesel generator issues and one was for containment fan coil unit leakage.)