

10 CFR 50.73

RA10-083

November 24, 2010

U.S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Washington, D.C. 20555


LaSalle County Station, Unit 2
Facility Operating License No. NPF-18
NRC Docket No. 50-374

Subject: Licensee Event Report 2010-001-00

In accordance with 10 CFR 50.73(a)(2)(v)(D), Exelon Generation Company (EGC), LLC, is submitting Licensee Event Report Number 2010-001-00.

There are no regulatory commitments in this report. Should you have any questions concerning this report, please contact Mr. Terrence W. Simpkin, Regulatory Assurance Manager at (815) 415-2800.

Respectfully,


Peter J. Karaba
Plant Manager
LaSalle County Station

Enclosure: Licensee Event Report

Cc: Regional Administrator – NRC Region III
NRC Senior Resident Inspector – LaSalle County Station

Lead
NRR

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 FOIA/Privacy Section (T-5 F53), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by internet e-mail to infocollects.resource@nrc.gov, and to the Desk Officer, Office of Information and Regulatory Affairs, NEOB-10202, (3150-0104), 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

LaSalle County Station, Unit 2

2. DOCKET NUMBER

05000374

3. PAGE

1 OF 3

4. TITLE

High Pressure Core Spray System Declared Inoperable Due to Failed Room Ventilation Control Relay

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
09	25	2010	2010	01	00	11	24	2010	N/A	N/A

9. OPERATING MODE	11. THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §: (Check all that apply)			
001	<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 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 checked="" type="checkbox"/> 50.73(a)(2)(v)(D)	Specify in Abstract below or in NRC Form 366A

10. POWER LEVEL	
100	

12. LICENSEE CONTACT FOR THIS LER

FACILITY NAME

Bruce Rash, Maintenance Director

TELEPHONE NUMBER (Include Area Code)

815-415-2500

13. COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT

CAUSE	Oom Ventilation SYSTEM	COMPONENT	MANU-FACTURER	REPORTABLE TO EPIX	CAUSE	SYSTEM	COMPONENT	MANU-FACTURER	REPORTABLE TO EPIX
X	VJ	RLY	P297	Y					

14. SUPPLEMENTAL REPORT EXPECTED☐ YES (If yes, complete 15. EXPECTED SUBMISSION DATE)☒ NO**15. EXPECTED SUBMISSION DATE**

MONTH	DAY	YEAR

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

On September 25, 2010, at 0210 hours CDT, the Unit 2 Rounds Equipment Operator reported that the High Pressure Core Spray (HPCS) switchgear room supply fan 2VD05C and the electrically interlocked exhaust fan 2VD07C were not running. All Unit 2 Division 3 equipment was declared inoperable and unavailable. Because HPCS is a single train system, this occurrence is reportable under 10 CFR 50.72(b)(3)(v)(D) and 10 CFR 50.73(a)(2)(v)(D) as an event or condition that alone could have prevented the fulfillment of the safety function of structures or systems that are needed to mitigate the consequences of an accident.

Troubleshooting identified that the switchgear cubicle control relay had failed. The relay was replaced, and post maintenance testing was completed satisfactorily. The cause was determined to be age-related failure due to the lack of time-based replacement preventative maintenance, which was due to improper duty cycle classification. Corrective actions include reclassifying the subject relays to high duty cycle and instituting time-based replacements.

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LaSalle County Station, Unit 2	05000374	YEAR	SEQUENTIAL NUMBER	REV NO.	2 OF 3
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NARRATIVE

LaSalle County Station Unit 2 is a General Electric Company Boiling Water Reactor with 3489 Megawatts Thermal Rated Core Power.

A. CONDITION PRIOR TO EVENT:

Unit(s): 2	Event Date: September 25, 2010	Event Time: 0210 CDT
Reactor Mode(s): 1	Mode(s) Name: Power Operation	Power Level: 100 percent

B. DESCRIPTION OF EVENT:

On September 25, 2010, at 0210 hours CDT, the Unit 2 Rounds Equipment Operator reported that the Division 3 High Pressure Core Spray (HPCS)[BG] switchgear room supply fan 2VD05C and the electrically interlocked exhaust fan 2VD07C (VD)[VJ] were not running. The fans were noted to run when the control switch was placed in the start position, but when the control switch was released, the fans immediately shutdown.

All Unit 2 Division 3 equipment was declared inoperable and unavailable. Because HPCS is a single train system, this occurrence is reportable under 10 CFR 50.72(b)(3)(v)(D) and 10 CFR 50.73(a)(2)(v)(D) as an event or condition that alone could have prevented the fulfillment of the safety function of structures or systems that are needed to mitigate the consequences of an accident. The NRC was notified of this occurrence via ENS 46279, at 0924 hours CDT on September 25, 2010.

Troubleshooting identified that the switchgear cubicle control relay had failed. The relay was replaced, and post maintenance testing was completed satisfactorily. The HPCS system was declared operable at 1230 hours on September 25, 2010.

C. CAUSE OF EVENT:

Troubleshooting identified the Division 3, 480V Motor Control Center (MCC) 243-1 switchgear 2AP79E, cubicle 6A, control relay had failed. The Electrical Maintenance Department replaced the relay and post maintenance testing was completed satisfactorily. Failure analysis determined that the probable failure mode of the relay was age-related degradation.

The cause of the age-related degradation was determined to be improper classification of the relay as a low duty cycle component. As such, the relay did not have any periodic replacement requirements. Based on this failure after ten years of service and the 100% duty cycle of the component, the classification was changed to high duty cycle, and appropriate time-based replacements were established.

D. SAFETY ANALYSIS:

The safety significance of this event was minimal. Reactor Core Isolation Cooling System (RCIC) [BN], Automatic Depressurization System (ADS) [SB], and the Low Pressure Emergency Core Cooling Systems (Residual Heat Removal (RH) [BO] and Low Pressure Core Spray (LP) [BM]) were operable throughout the event.

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NARRATIVE

E. CORRECTIVE ACTIONS:

- The failed relay was replaced, and post maintenance testing was completed satisfactorily.
- The classification of the relay was changed to high duty cycle, and appropriate time-based replacements were established.

F. PREVIOUS OCCURRENCES:

On June 11, 2008, at 0545 CDT, the supply fan for the Unit 2 Division 3 Switchgear Room ventilation system tripped unexpectedly. The direct cause of the supply fan trip was a failure of the fan motor stator winding. The apparent root cause was a failure to implement a time-based refurbishment program, which allowed the motor to be in-service beyond the expected lifetime of 20 years. Corrective actions included replacing the fan motor, and updating the preventative maintenance database to require replacement and/or refurbishment of these motors on a 20-year periodicity (LER 374/2008-001-00).

G. COMPONENT FAILURE DATA:

Potter and Brumfield, CS Series Sensors, CSJ-38-70010