



Exelon Generation®

Dresden Generating Station

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Morris, IL 60450

www.exeloncorp.com

10 CFR 50.73

SVPLTR # 16-0059

November 18, 2016

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

Dresden Nuclear Power Station, Unit 2 and 3
Renewed Facility Operating License Nos. DPR-19 and DPR-25
NRC Docket No. 50-237 and 50-249

Subject: Licensee Event Report 237/2016-003-00, Control Room Emergency Ventilation System Charcoal Filter Bank Failure to meet the Methyl Iodide Penetration Acceptance Criteria

Enclosed is Licensee Event Report 237/2016-003-00, "Control Room Emergency Ventilation System Charcoal Filter Bank Failure to meet the Methyl Iodide Penetration Acceptance Criteria". This report describes events which are being reported in accordance with 10 CFR 50.73(a)(2)(i)(B), "Any operation or condition which was prohibited by the plant's Technical Specifications."

There are no regulatory commitments contained in this submittal.

Should you have any questions concerning this letter, please contact Mr. Bruce Franzen at (815) 416-2800.

Respectfully,

Peter J Karaba
Site Vice President
Dresden Nuclear Power Station

Enclosure Licensee Event Report 237/2016-003-00

cc: Regional Administrator – NRC Region III
NRC Senior Resident Inspector – Dresden Nuclear Power Station

IE22
NRR

**LICENSEE EVENT REPORT (LER)**

(See Page 2 for required number of digits/characters for each block)

(See NUREG-1022, R.3 for instruction and guidance for completing this form
<http://www.nrc.gov/reading-rm/doc-collections/nuregs/staff/sr1022/r3/>)

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 and Information Collections Branch (T-5 F53), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by e-mail to Infocollections.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

Dresden Nuclear Power Station, Unit 2

2. DOCKET NUMBER

05000237

3. PAGE

1 OF 3

4. TITLE

Control Room Emergency Ventilation System Charcoal Filter Bank Failure to meet the Methyl Iodide Penetration Acceptance Criteria

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	19	2016	2016	003	00	11	18	16	Dresden Unit 3	05000249
									FACILITY NAME	DOCKET NUMBER
										05000
9. OPERATING MODE										
11. THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §: (Check all that apply)										
1			<input type="checkbox"/> 20.2201(b)			<input type="checkbox"/> 20.2203(a)(3)(i)			<input type="checkbox"/> 50.73(a)(2)(ii)(A)	
			<input type="checkbox"/> 20.2201(d)			<input type="checkbox"/> 20.2203(a)(3)(ii)			<input type="checkbox"/> 50.73(a)(2)(ii)(B)	
			<input type="checkbox"/> 20.2203(a)(1)			<input type="checkbox"/> 20.2203(a)(4)			<input type="checkbox"/> 50.73(a)(2)(iii)	
			<input type="checkbox"/> 20.2203(a)(2)(i)			<input type="checkbox"/> 50.36(c)(1)(i)(A)			<input type="checkbox"/> 50.73(a)(2)(iv)(A)	
100			<input type="checkbox"/> 20.2203(a)(2)(ii)			<input type="checkbox"/> 50.36(c)(1)(ii)(A)			<input type="checkbox"/> 50.73(a)(2)(v)(A)	
			<input type="checkbox"/> 20.2203(a)(2)(iii)			<input type="checkbox"/> 50.36(c)(2)			<input type="checkbox"/> 50.73(a)(2)(v)(B)	
			<input type="checkbox"/> 20.2203(a)(2)(iv)			<input type="checkbox"/> 50.46(a)(3)(ii)			<input type="checkbox"/> 50.73(a)(2)(v)(C)	
			<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)(D)	
			<input type="checkbox"/> 20.2203(a)(2)(vi)			<input checked="" type="checkbox"/> 50.73(a)(2)(i)(B)			<input type="checkbox"/> 50.73(a)(2)(vii)	
			<input type="checkbox"/> 50.73(a)(2)(i)(C)			<input type="checkbox"/> OTHER Specify in Abstract below or in NRC Form 366A				

12. LICENSEE CONTACT FOR THIS LER

LICENSEE CONTACT

Bruce Franzen – Regulatory Assurance Manager

TELEPHONE NUMBER (Include Area Code)

815-416-2800

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

CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO EPIX	CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO EPIX
X	VI	FLT		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 9/19/16 at 1550 CDT, test results were received indicating that a sample from the upstream charcoal filter bank of the Control Room Emergency Ventilation System (CREVS) had a Methyl Iodide Penetration of 0.65% which did not meet the Acceptance Criteria ($\leq 0.5\%$) listed in Technical Specification (TS) 5.5.7, "Ventilation Filter Testing Program (VFTP)." As a result, CREVS was declared inoperable, and TS Limiting Condition for Operation (LCO) 3.7.4, "Control Room Emergency Ventilation (CREV) System," Condition A was entered which placed the station in a 7-day shutdown clock. On 9/20/16 at 1720 CDT, the upstream charcoal bank was replaced, all Acceptance Criteria were verified met, and TS 3.7.4, Condition A was exited. The failed sample was removed from the upstream charcoal filter on 9/12/16 at 1014 CDT. Thus, the replacement of the bank was beyond the allowed 7-day Completion Time.

This event is reportable under 10 CFR 50.73(a)(2)(i)(B), "Any operation or condition which was prohibited by the plant's Technical Specifications."

NRC FORM 366A
(11-2015)

U.S. NUCLEAR REGULATORY COMMISSION

APPROVED BY OMB: NO. 3150-0104

EXPIRES: 10/31/2018



LICENSEE EVENT REPORT (LER) CONTINUATION SHEET

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 and Information Collections Branch (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	2. DOCKET NUMBER	3. LER NUMBER		
		YEAR	SEQUENTIAL NUMBER	REV NO.
Dresden Nuclear Power Station, Unit 2	05000-237	2016	- 003	- 00

NARRATIVE

PLANT AND SYSTEM IDENTIFICATION

Dresden Nuclear Power Station (DNPS), Unit 2, is a General Electric Company Boiling Water Reactor with a licensed maximum power level of 2957 megawatts thermal. The Energy Industry Identification System codes used in the text are identified as [XX].

A. Plant Conditions Prior to Event:

Unit: 02 Event Date: 09/19/16 Event Time: 1550 CDT
Reactor Mode: 1 Mode Name: Power Operation Power Level: 100 percent

B. Description of Event:

On 9/19/16 at 1550 CDT, test results were received indicating that a sample from the upstream charcoal filter bank of the Control Room Emergency Ventilation System (CREVS) [VI] had a Methyl Iodide Penetration of 0.65% which did not meet the Acceptance Criteria ($\leq 0.5\%$) listed in Technical Specification (TS) 5.5.7, "Ventilation Filter Testing Program (VFTP)." As a result, CREVS was declared inoperable, and TS Limiting Condition for Operation (LCO) 3.7.4, "Control Room Emergency Ventilation (CREV) System," Condition A was entered which placed the station in a 7-day shutdown clock. On 9/20/16 at 1720 CDT, the upstream charcoal bank was replaced, verified all Acceptance Criteria were met, and TS 3.7.4, Condition A was exited.

The failed sample was obtained from the upstream charcoal filter on 9/12/16 at 1014 CDT and it was not replaced until 9/20/16. This exceeded the 7 day Completion Time for the CREVS system listed in TS LCO 3.7.4 Condition A which placed the station in a condition prohibited by TSs.

This event is reportable under 10 CFR 50.73(a)(2)(i)(B), "Any operation or condition which was prohibited by the plant's Technical Specifications."

C. Cause of Event:

The cause of the test results exceeding the acceptance criteria is unknown.

D. Safety Analysis:

The safety consequences of this event are low because CREVS did not lose function as a result of the failure. CREVS is a single train system containing two charcoal filters banks in series, an upstream and a downstream. While the upstream bank result did not meet acceptance criteria, the downstream bank passed satisfactorily with significant margin. If the results of these banks were averaged the result would provide margin to the acceptance criteria. Additionally, the acceptance criteria listed in TS 5.5.7 is more conservative than the industry guidance provided in Regulatory Guide 1.52 ($\leq 1\%$) which would have resulted in a satisfactory result for the upstream bank.

This failure was not a safety system functional failure.

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1. FACILITY NAME

Dresden Nuclear Power Station, Unit 2

2. DOCKET NUMBER

05000-237

3. LER NUMBER

YEAR

2016

SEQUENTIAL
NUMBER

- 003

REV
NO.

- 00

NARRATIVE

E. Corrective Actions:

The upstream bank was replaced and tested to verify the acceptance criteria were met. The other charcoal filtration banks on-site were verified to have passed their testing satisfactorily.

F. Previous Occurrences:

There were no previous failures of this type at Dresden.

G. Component Failure Data:

Manufacturer	Model	S/N	Type
Nucon	Lot 69, Batch 07	723121	Charcoal (Carbon Type: KITEG II)