



Dresden Generating Station

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Morris, IL 60450

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September 4, 2015

SVPLTR# 15-0057

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

Dresden Nuclear Power Station Units 1, 2, and 3
Facility Operation License No. DPR-2
Renewed Facility Operating License Nos. DPR-19 and DPR-25
NRC Docket Nos. 50-010, 50-237, and 50-249

Subject: Dresden Nuclear Power Station 2014 Annual Radiological Environmental
Operating Report Supplement

Reference: Letter From Shane M. Marik to U. S. NRC Titled "Dresden Nuclear Power Station
2014 Annual Radiological Environmental Operating Report," dated May 14, 2015

In the referenced letter, Exelon Generation Company, LLC (EGC) submitted the 2014 Annual
Radiological Environmental Operating Report for Dresden Nuclear Power Station (DNPS) Units
1, 2, and 3. The enclosed pages are being submitted to supplement the original report in order
to provide information related to a vendor nonconformance report (e.g., NCR 15-12).

Respectfully,

A handwritten signature in black ink that reads "Shane M. Marik".

Shane M. Marik
Site Vice President
Dresden Nuclear Power Station

Attachment: Revised Annual Radiological Environmental Operating Report Pages

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

MMSS20
TE25
MKK
MMSS

Attachment

Revised Annual Radiological Environmental Operating
Report Pages

Table D-1 LISTING OF SAMPLE ANOMALIES (continued)

Sample Type	Location Code	Collection Date	Reason
WG	D-23	08/08/14	The LLDs for I-131, Ba-140, and La-140 could not be met because Teledyne mistakenly did not analyze the sample for the gamma analysis when received. This error was discovered by Teledyne while assembling the AREOR. Upon discovering the error, the sample was analyzed for gamma. All LLDs with the exception of I-131, Ba-140 and La-140 were met. Nonconformance Report (NCR) 15-12 was initiated by the laboratory to address/investigate this error.
AP/I	D-01	08/22/14	Low reading of 159 hours possibly due to work on power lines in the area.
AP/I	D-02	08/22/14	Low reading of 159.6 hours possibly due to work on power lines in the area.
AP/I	D-03	08/22/14	Low reading of 159.8 hours possibly due to work on power lines in the area.
AP/I	D-04	08/22/14	Low reading of 159 hours possibly due to work on power lines in the area.
AP/I	D-10	10/24/14	No apparent reason for low reading of 83.5 hours

Table D-2 LISTING OF MISSED SAMPLES

Sample Type	Location Code	Collection Date	Reason
M	D-25	01/01/14 – 12/31/14	No sample; farmer sold cows.

Tritium

All samples were analyzed for tritium activity (Table C-II.1, Appendix C). Tritium was detected in eleven of sixteen samples. The concentrations ranged from 329 to 678 pCi/l. Concentrations detected were consistent with those detected in previous years (Figure C-7, Appendix C).

Gamma Spectrometry

All samples were analyzed for gamma emitting nuclides (Table C-II.2, Appendix C). No nuclides were detected and all required LLDs were met with the exception of the August D-23 sample for nuclides I-131, Ba-140, and La-140. This occurred is due to the laboratory not analyzing the sample at time of receipt. Nonconformance Report (NCR) 15-12 was initiated by the laboratory to address/investigate this error.

3. Fish

Fish samples comprised of golden redhorse, smallmouth bass, largemouth bass, common carp and freshwater drum were collected at two locations (D-28 and D-46) semiannually. Location D-28 could be affected by Dresden's effluent releases. The following analysis was performed:

Gamma Spectrometry

The edible portion of fish samples from both locations was analyzed for gamma emitting nuclides (Table C-III.1, Appendix C). Naturally occurring K-40 was found at both locations. No fission or activation products were detected.

4. Sediment

Aquatic sediment samples were collected at one location (D-27) semiannually. This downstream location could be affected by Dresden's effluent releases. The following analysis was performed:

Gamma Spectrometry

Sediment samples from the location were analyzed for gamma emitting nuclides (Table C-IV.1, Appendix C). Cesium-137 was detected in both samples. The concentrations ranged from 129 to