

VIRGINIA ELECTRIC AND POWER COMPANY
RICHMOND, VIRGINIA 23261

June 8, 2021

United States Nuclear Regulatory Commission
Attention: Document Control Desk
Washington, D. C. 20555

Serial No. 21-185
NAPS/DPM
Docket Nos. 50-338
50-339
License Nos. NPF-4
NPF-7

Gentlemen:

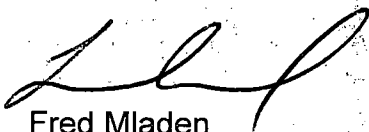
VIRGINIA ELECTRIC AND POWER COMPANY (DOMINION ENERGY VIRGINIA)
NORTH ANNA POWER STATION UNITS 1 AND 2
CORRECTION LETTER FOR 2010 ANNUAL RADIOLOGICAL
EFFLUENT RELEASE REPORT (ARERR)

In accordance with Regulatory Guide 1.21, Revision 2, *Measuring, Evaluating, and Reporting Radioactive Material in Liquid and Gaseous Effluents and Solid Waste*, Section 7.4, *Reporting Large Errors*, enclosed is a correction to North Anna's 2010 Annual Radiological Effluent Release Report (ARERR).

During the review of previously submitted ARERRs it was identified that incorrect information was included in the 2010 ARERR Table 3. For waste type B, the "12 month period" cubic meters and Curie values were incorrect. The values reported in the 2010 submittal were 1600 cubic meters and 7.70E+0 Ci. The correct values are 479 cubic meters and 7.69E+0 Ci. The corrected Table 3 is enclosed.

If you have any questions or require additional information, please contact Mr. Marc A. Hofmann at (540) 894-2100.

Very truly yours,



Fred Mladen
Site Vice President

Enclosure

TE48
NRR

Serial No. 21-185
2010 ARERR
Correction Letter

cc: U. S. Nuclear Regulatory Commission (w/o Enclosure)
Region II
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Director, Division of Spent Fuel Management (w/o Enclosure)
Office of Nuclear Material Safety and Safeguards
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

NRC Senior Resident Inspector (w/o Enclosure)
North Anna Power Station

TABLE 3
NORTH ANNA POWER STATION
RADIOACTIVE EFFLUENT RELEASE REPORT
SUMMATION OF SOLID RADIOACTIVE WASTE AND IRRADIATED FUEL SHIPMENTS
FOR 01-01-10 THROUGH 12-31-10

Page 1 of 2

A. SOLID WASTE SHIPPED OFFSITE FOR BURIAL OR DISPOSAL (NOT IRRADIATED FUEL)			
1. Type of Waste	Unit	12-Month Period	Estimated Total Percent Error (%)
a. Spent resins, sludges, filters sludge, evaporator bottoms, etc.,	m ³	3.36E+01 *	2.50E+01
	Ci	2.88E+02	2.50E+01
b. Dry compressible waste, contaminated equipment, etc.,	m ³	4.79E+02 **	2.50E+01
	Ci	7.69E+00	2.50E+01
c. Irradiated components, control rods, etc.,	m ³	0.00E+00	2.50E+01
	Ci	0.00E+00	2.50E+01
d. Other (describe)			
Used oil/Blast media/Sewage/Gravel	m ³	2.12E+00 ***	2.50E+01
Dessicant/Soil/Construction debris	Ci	6.32E-04	2.50E+01
Animal Carcasses			
2. Estimate of major nuclide composition (by type of waste)	(%)	(Ci)	Estimated Total Percent Error (%)
a. Co-58	3.21E+01	9.24E+01	2.50E+01
Co-60	2.03E+01	5.85E+01	2.50E+01
Ni-63	1.91E+01	5.50E+01	2.50E+01
Cs-137	1.05E+01	3.02E+01	2.50E+01
Cs-134	7.14E+00	2.05E+01	2.50E+01
Fe-55	5.09E+00	1.46E+01	2.50E+01
Mn-54	2.54E+00	7.29E+00	2.50E+01
H-3	1.53E+00	4.39E+00	2.50E+01
Ni-59	3.41E-01	9.81E-01	2.50E+01
C-14	2.88E-01	8.29E-01	2.50E+01
Eu-152	2.64E-01	7.59E-01	2.50E+01
b. Co-60	6.25E+01	4.82E+00	2.50E+01
Fe-55	1.86E+01	1.43E+00	2.50E+01
Cs-137	3.84E+00	2.96E-01	2.50E+01
Mn-54	3.34E+00	2.57E-01	2.50E+01
Co-58	3.24E+00	2.49E-01	2.50E+01
Cr-51	2.90E+00	2.23E-01	2.50E+01
Ni-63	1.54E+00	1.19E-01	2.50E+01
Zr-95	1.46E+00	1.13E-01	2.50E+01
Nb-95	1.24E+00	9.55E-02	2.50E+01
Zn-65	3.66E-01	2.81E-02	2.50E+01
c. none			
d. Co-60	6.10E+01	3.86E-04	2.50E+01
Fe-55	1.78E+01	1.12E-04	2.50E+01
Cs-137	1.04E+01	6.55E-05	2.50E+01
Ni-63	4.28E+00	2.70E-05	2.50E+01
Mn-54	2.55E+00	1.61E-05	2.50E+01
Sb-125	7.73E-01	4.89E-06	2.50E+01
Nb-95	5.86E-01	3.71E-06	2.50E+01
Co-58	5.44E-01	3.44E-06	2.50E+01
Cs-134	4.23E-01	2.67E-06	2.50E+01
Zn-65	3.86E-01	2.44E-06	2.50E+01
Zr-95	3.42E-01	2.16E-06	2.50E+01

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3. Solid Waste Disposition

<u>Number of Shipments</u>	<u>Mode of Transportation</u>	<u>Destination</u>
2	Truck	Clive, UT
5	Truck	Erwin, TN
12	Truck	Oak Ridge, TN

B. Irradiated Fuel Shipments (Disposition)

<u>Number of Shipments</u>	<u>Mode of Transportation</u>	<u>Destination</u>
0	N/A	N/A

* (7) shipments containing resins were shipped to a licensed waste processor for processing.

* (1) shipment of filters was shipped to licensed facility for disposal.
(shipment also contained de-watered powdered resin)

* (1) shipment of filter waste was shipped to a licensed waste processor for processing.
(filters were transported with compactable wastes accounted for below)

** (10) shipments containing contaminated equipment, dry compressible waste / incinerable waste were shipped to a licensed waste processor for processing.
(1 shipment also contained filter waste accounted for above)
(1 shipment included oil)
(1 shipment included animal carcasses)

** (1) shipment of compactable waste was shipped to a licensed facility for disposal.
(shipment included de-watered powdered resin, charcoal, asbestos)

*** (1) shipment containing contaminated oil was shipped to a licensed waste processor for incineration.
(Shipment also contained dry compressible waste)