

VIRGINIA ELECTRIC AND POWER COMPANY  
RICHMOND, VIRGINIA 23261

June 5, 2018

10 CFR 50 Appendix H

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

Serial No.: 18-098A  
NRA/GDM: R0  
Docket Nos.: 50-280/281  
License Nos.: DPR-32/37

**VIRGINIA ELECTRIC AND POWER COMPANY (DOMINION ENERGY VIRGINIA)**  
**SURRY POWER STATION UNITS 1 AND 2**  
**REVISED REACTOR VESSEL MATERIALS SURVEILLANCE CAPSULE**  
**WITHDRAWAL SCHEDULES - EDITORIAL CORRECTION**

By letter dated July 28, 2017, Serial No. 17-243, (Agencywide Documents Access and Management System (ADAMS) Accession No. ML17213A080), Dominion Energy Virginia submitted a request for NRC review and approval of proposed reactor vessel material surveillance capsule withdrawal schedules for Surry Power Station (Surry) Units 1 and 2 in accordance with Title 10 of the Code of Federal Regulations (10 CFR) Part 50, Appendix H, *Reactor Vessel Material Surveillance Program Requirements*. The proposed withdrawal schedules address revisions to the surveillance capsule withdrawal schedules approved for the 40 to 60-year period of extended operation (PEO).

Subsequent to that submittal, an editorial error was recently identified in the revised Table 4.1-13, "Surveillance Capsule Withdrawal Schedule for Surry Unit 2." Specifically, the existing Estimated Withdrawal EFPY/Year values provided for Capsules S and W1 in the table were inadvertently reversed. It should be noted this information is not being revised as part of the original request. The corrected revised Table 4.1-13 is provided in the attachment with the corrected values highlighted for easy reference.

Should you have any questions or require additional information, please contact Mr. Gary D. Miller at (804) 273-2771.

Sincerely,



Mark D. Sartain  
Vice President – Nuclear Engineering and Fleet Support

Commitments made in this letter: None

A008  
NRR

Attachment:

Corrected Revised Reactor Vessel Materials Surveillance Capsule Withdrawal  
Schedule – UFSAR Table 4.1-13, Surry Power Station Unit 2

cc: U.S. Nuclear Regulatory Commission  
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**Attachment**

**CORRECTED REVISED REACTOR VESSEL MATERIALS SURVEILLANCE  
CAPSULE WITHDRAWAL SCHEDULE – UFSAR TABLE 4.1-13**

**SURRY POWER STATION UNIT 2**

**Virginia Electric and Power Company  
(Dominion Energy Virginia)**

Table 4.1-13  
SURVEILLANCE CAPSULE WITHDRAWAL SCHEDULE<sup>a</sup> FOR SURRY UNIT 2

Capsule Identification	Capsule Location	Estimated Withdrawal EFPY/Year	Insert EFPY/Year	Estimated Capsule Fluence (x 10 <sup>19</sup> ) <sup>b</sup>
X <sup>c</sup>	285°	1.2/1975	NA	0.297
W <sup>c</sup>	245°	3.8/1979	NA	0.636
V <sup>c</sup>	165°	8.7/1986	NA	1.89
Y	295°	14.3/1995	NA	1.97
Y	165°	NA	14.3/1995	NA
Y <sup>c</sup>	165°	20.8/2002	NA	2.73
U	65°	27.9/2009	NA	3.49
U	285°	NA	27.9/2009	NA
U <sup>c</sup>	285°	49.0/2032	NA	7.26
T	55°	19.7/2002	NA	1.82
T	165°	NA	19.7/2002	NA
T <sup>d</sup>	165°	NA	NA	6.65 (48.0 EFPY) 9.06 (60.0 EFPY)
Z	305°	13.7/1994	NA	1.34
Z	245°	NA	13.7/1994	NA
Z <sup>d</sup>	245°	NA	NA	5.39 (48.0 EFPY) 8.21 (68.0 EFPY)
S	45°	15.0/1996	NA	1.07
W1	285°	NA	10.9/1991	NA
W1 <sup>c</sup>	285°	16.4/1997	NA	0.690

- a. Withdrawal schedule meets requirements of ASTM E 185-82, *Standard Practice for Conducting Surveillance Tests for Light-Water Cooled Nuclear Power Reactor Vessels*, dated July 1, 1982.
- b. 48.0 EFPY corresponds to the estimated cumulative core burnup at the end of the 60-year license period. Fluence values for withdrawn capsules are obtained from capsule test reports.
- c. These capsules are required to satisfy the requirements of ASTM E 185-82 during the license period.
- d. Capsules T and Z are available to satisfy potential fluence monitoring requirements during the 20-year license renewal period. Future projected capsule fluence values are related to asset management objectives.
- e. Master Integrated Reactor Vessel Materials Surveillance Program capsule.