

April 4, 1991

Docket
File

Docket No. 50-412
Serial No. BV-90-011

UNRECORDED ORIGINAL

Certified by: 

Mr. J. D. Sieber, Vice President
Nuclear Group
Duquesne Light Company
Post Office Box 4
Shippingport, Pennsylvania 15077

Dear Mr. Sieber:

SUBJECT: REACTOR VESSEL MATERIAL SURVEILLANCE SCHEDULE (TAC NO. 77012)

Ref. 1: WCAP-12406, Analysis of Capsule U from the Duquesne Light Company Beaver Valley Unit 2 Reactor Vessel Surveillance Program

Amendment 18 to the Beaver Valley Power Station, Unit 2 (BVPS-2) Technical Specifications, issued July 12, 1989, deleted the table which specified the reactor-vessel-material irradiation surveillance schedule along with the associated surveillance requirement. The surveillance schedule, instead, would be relocated to the BVPS-2 Updated Final Safety Evaluation Report (UFSAR). The supporting safety evaluation for Amendment 18 stated that the relocation of the table only was approved, and that any changes to the schedule would require prior staff approval as specified in 10 CFR 50, Appendix H, Section II.B.3.

By letter dated February 28, 1991, Duquesne Light Company proposed a revised reactor-vessel-material irradiation schedule that would be included as Table 5.3-6 of the UFSAR. We have reviewed the proposed schedule and WCAP 12406 (Ref. 1) which provides justification for the changes. We find the enclosed proposed table acceptable with the addition of Note e for inclusion in the next BVPS-2 UFSAR revision. We request the addition of Note e to clarify that Capsule U has been removed already. We have discussed the addition of this note with Mr. J. Spiegel of your staff, and he agrees with its addition.

Sincerely,

/s/

John F. Stolz, Director
Project Directorate I-4
Division of Reactor Projects - I/II
Office of Nuclear Reactor Regulation

Enclosure:
Table 5.3-6 (proposed)

cc w/enclosure:
See next page

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BVPS-2 UFSAR

TABLE 5.3-6
(Proposed)

REACTOR VESSEL MATERIAL IRRADIATION SURVEILLANCE SCHEDULE

<u>Capsule</u>	<u>Vessel Location</u>	<u>Lead Factor</u>	<u>Removal Time^(a)</u>	<u>Estimated Capsule Fluence (n/cm²)</u>
U <i>e)</i>	34.3	2.94	1.24	5.99×10^{18} (b)
V	107	3.17	6	3.76×10^{19} (c)
W	110	2.74	12	6.50×10^{19} (d)
X	287	3.17	18	11.3×10^{19}
Y	290	2.74	Standby	—
Z	340	2.74	Standby	—

a) Effective full power years from plant startup. Changes to this column will require prior NRC approval as specified in Section II.B.3, Appendix H, of 10 CFR 50.

b) Actual fluence

c) Approximate fluence at vessel 1/4 thickness at end of life (32 EFPY)

d) Approximate fluence at vessel inner wall at end of life (32 EFPY)

e) Capsule U was removed at 1.24 EFPY