



M. S. Tuckman
Executive Vice President
Nuclear Generation

Duke Energy Corporation

526 South Church Street
P.O. Box 1006 (EC07H)
Charlotte, NC 28201-1006
(704) 382-2200 OFFICE
(704) 382-4360 FAX

March 16, 2001

U.S. Nuclear Regulatory Commission
Document Control Desk
Washington, D.C. 20555-0001

Subject: Duke Energy Corporation
Catawba Nuclear Station Units 1 and 2
Docket Nos.: 50-413 and 50-414
Changes to the Reactor Pressure Vessel
Surveillance Capsule Withdrawal Schedule

Pursuant to requirements in 10 CFR 50, Appendix H, this letter serves as notification of two changes to the Catawba Nuclear Station (CNS) Reactor Pressure Vessel (RPV) surveillance capsule withdrawal schedule. The CNS RPV surveillance capsule program complies with the requirements specified in 10 CFR 50 Appendices G and H that require monitoring of the RPV accumulated fluence over the lifetime of the plant.

Initially, surveillance capsule W for each of the CNS units was scheduled for removal during the end-of-cycle (EOC) 13 refueling outage (CNS-1 and CNS-2 EOC 13 refueling outages are scheduled for 05/02 and 10/04, respectively.). However, in order to assure surveillance capsule W is irradiated sufficiently to bound fluence values for the license renewal period, surveillance capsule W for each of the units has been rescheduled for removal during EOC 14 (CNS-1 and CNS-2 EOC 14 refueling outages are scheduled for 11/03 and 03/06, respectively.).

Attached is a table indicating the CNS surveillance capsule program history and related Westinghouse analyses. If you have questions or require additional information, please contact Allison Jones-Young at (704) 382-3154.

A008

US NRC
March 16, 2001
Page 2

Sincerely,

M. S. Tuckman

M.S. Tuckman
Attachment

xc: w/attachment

L.A. Reyes
Regional Administrator, Region II
U.S. Nuclear Regulatory Commission
61 Forsyth St., S.W., Suite 23T85
Atlanta, GA 30303

C.P. Chantel, NRC Project Manager (CNS)
U.S. Nuclear Regulatory Commission
Mail Stop O-14 H25
Washington DC 20555-0001

Lambrose Lois, NRC
U.S. Nuclear Regulatory Commission
Mail Stop O-10 B3
Washington DC 20555-0001

D.J. Roberts, NRC Resident Inspector (CNS)

US NRC
March 16, 2001
Page 3

bxc: w/attachment
L.F. Vaughn
G.D. Gilbert
C.J. Thomas
A.D. J-Young
M.R. Robinson
W.F. Brady
J.D. Gilreath
S.L. Mays
J.M. Brindle
C.N. Burton
ELL

CATAWBA REACTOR VESSEL SURVEILLANCE CAPSULE WITHDRAWAL SCHEDULE

Unit	Cap-sule	Vessel Location (deg.)	Lead Factor	End of Cycle (EOC)	Projected EOC Date	Estimated EFPY at Withdrawal	Capsule Fluence Equivalence (EFPY)	Estimated Fluence (n/cm ² x 10 ¹⁹)	Reference
Unit 1	Z	301.5	4.15	1	8/8/86	0.793	3.29	0.299	WCAP-1527
Unit 1	Y	241.0	4.10	6	7/10/92	4.98	20.42	1.318	WCAP-13720
Unit 1	W	121.5	4.26	14	11/29/03	13	55	3.0 [c]	--
Unit 1 (dosimetry analysis & storage)	X	238.5	4.26	10	12/20/97	9.29	39.58	2.439 [b]	WCAP-15117
Unit 1 (dosimetry analysis & storage)	U	58.5	4.26	10	12/20/97	9.29	39.58	2.439 [b]	WCAP-15117
Unit 1	V	61.0	4.08	10	12/20/97	9.29	37.90	2.334 [b]	WCAP-15117
Unit 2	Z	301.5	4.13	1	12/23/87	0.86	3.55	0.323	WCAP-11941
Unit 2	X	241.0 *	4.14	5	1/23/93	4.52	18.71	1.23	WCAP-13875
Unit 2	W	121.5	4.28	14	3/9/06	13	55	3.0 [c]	--
Unit 2 (dosimetry analysis & storage)	U	58.5	4.33	Standby	Standby	Standby	Standby	---	--
Unit 2 (dosimetry analysis & storage)	Y	238.5 *	4.33	9	9/13/98	9.24	40.01	2.38 [b]	WCAP-15243
Unit 2	V	61.0	4.13	9	9/13/98	9.24	38.16	2.38 [b]	WCAP-15243

* For CNS-2, Capsule X was discovered in the Y location; therefore, Capsule Y was in the X location. Values listed are actual corrected as-found locations.

- a. Approximate fluence at vessel 1/4 thickness location, at end of license (34 EFPY).
- b. Approximate fluence at vessel inner wall location, at end of license (34 EFPY).
- c. Approximate fluence at vessel inner wall location for plant life extension to 55 EFPY.