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VPNPD-86-131
NRC-86-24

March 14, 1986

Mr. H. R. Denton, Director
Office of Nuclear Reactor Regulation
U. S. NUCLEAR REGULATORY COMMISSION
Washington, D. C. 20555

Attention: Mr. G. Lear, Project Director
PWR Project Directorate No. 1

Gentlemen:

DOCKET NOS. 50-266 AND 50-301
CORRECTION TO PRESSURIZED THERMAL SHOCK (PTS)
SUBMITTAL DATED JANUARY 20, 1986
POINT BEACH NUCLEAR PLANT, UNITS 1 AND 2

This letter corrects the subject submittal from Mr. C. W. Fay to Mr. H. R. Denton by providing updates to Table 1 and Table 4 (attached). In Table 1, the correct weld wire heat number has been inserted for SA-1101, the circumferential weld - intermediate to lower shell. In Table 4, RT_{PTS} values for SA-775/812, which were previously transposed under the SA-847 column, have been properly listed. The true RT_{PTS} values for SA-847 have also been added. These changes were discussed with Messrs. T. Colburn and P. Randall of your staff on March 14, 1986. Also, as requested, we are providing background documentation from WCAP-10638, "Adjoint Flux Program for Point Beach Units 1 and 2", concerning the fluence calculations in our PTS submittal.

Thank you for bringing these errors to our attention. Please contact us if additional information is required.

Very truly yours,

C. W. Fay
Vice President
Nuclear Power

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PDR ADOCK 05000266
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Attachment

Copy to NRC Resident Inspector

Adopt
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TABLE 1

POINT BEACH UNITS 1 AND 2 REACTOR VESSEL
BELTLINE REGION MATERIAL PROPERTIES

<u>UNIT 1</u>	<u>Cu</u> <u>(Wt.%)</u>	<u>Ni</u> <u>(Wt.%)</u>	<u>I</u> <u>(°F)</u>
Intermediate Shell Plate A-9811: ^(c) [4,5]	0.20	0.056	-2 ^(a)
Lower Shell Plate C-1423: ^(c) [5,6]	0.12	0.065	-20 ^(a)
Axial Weld - Intermediate Shell SA 775/812: ^(d) Weld Wire Heat Nos. 1P0815/1P0661 Linde 80 Flux Lots 8350/8304	0.19	0.63	0 ^(b)
Axial Weld - Lower Shell SA-847: ^(e) Weld Wire Heat No. 61782 Linde 80 Flux Lot 8350	0.25	0.55	0 ^(b)
Circumferential Weld - Intermediate: ^(e) to Lower Shell SA-1101 Weld Wire Heat No. 71249 Linde 80 Flux Lot 8350	0.20	0.55	0 ^(b)
<u>UNIT 2</u>			
Intermediate Shell Forging 123V500: ^(c) [8,9]	0.09	0.70	40 ^(a)
Lower Shell Forging 122W195: ^(c) [9,10]	0.05	0.72	40 ^(a)
Circumferential Weld - Intermediate: ^(e) to Lower Shell SA-1484 Weld Wire Heat No. 72442 Linde 80 Flux Lot 8579	0.26	0.60	0 ^(b)

NOTES:

- (a) The initial RT_{NDT} values for plates and forgings are estimated according to Branch Technical Position MTEB 5-2.[7]
- (b) The initial RT_{NDT} values for welds are generic mean values defined by the PTS rule at 10⁴ CFR 50.61 (b)(2)(ii).
- (c) The chemistry values for the shell plates and forgings were derived from vessel fabrication test certificates and surveillance capsule chemistry measurements.
- (d) The chemistry data for SA-775 was utilized since this will result in a conservative PTS calculation for this weld. See Appendix A.
- (e) The chemistry values for these welds were derived from searches in the WOG data base [2] and represent the rounded, average values.

TABLE 4

RT_{PTS} VALUES FOR REACTOR VESSEL BELTLINE MATERIALS*
POINT BEACH NUCLEAR PLANT

<u>RT_{PTS} (°F) Values At</u>	<u>UNIT 1</u>				
	<u>A-9811** Intermediate Shell Plate</u>	<u>C-1423** Lower Shell Plate</u>	<u>SA-775/812** Axial Weld Inter. Shell</u>	<u>SA-847** Axial Weld Lower Shell</u>	<u>SA-1101*** Circumferential Weld Inter. to Lower Shell</u>
Present (12/1/85)	140.8	81.0	173.5	206.0	191.0
Current License Expiration	164.8	94.4	203.1	244.1	224.5
License Expiration, if License Amendment No. 107 Approved	167.4	95.8	207.1	249.1	228.1
Original design EFPY value for 40 years of operation (32 EFPY)	168.8	96.6	208.9	251.5	230.1

<u>RT_{PTS} (°F) Values At</u>	<u>UNIT 2</u>		
	<u>123V500** Intermediate Shell Forging</u>	<u>122W195** Lower Shell Forging</u>	<u>SA-1484*** Circumferential Weld Inter. to Lower Shell</u>
Present (12/1/85)	146.3	116.0	238.0
Current License Expiration	161.9	123.5	285.8
Original design EFPY value for 40 years of operation (32 EFPY)	163.9	124.5	292.0
License Expiration, if License Amendment No. 107 approved	164.2	124.6	292.9

*Predicted RT_{PTS} values assume a cumulative (lifetime) capacity factor of 80%.

**Applicable PTS screening criterion - 270°F.

***Applicable PTS screening criterion - 300°F.