

James A. FitzPatrick
Nuclear Power Plant
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Michael J. Colomb
Site Executive Officer

December 2, 1999
JAFP-99-0315

U.S. Nuclear Regulatory Commission
Attn: Document Control Desk
Mail Station P1-137
Washington, DC 20555

SUBJECT: James A. FitzPatrick Nuclear Power Plant
Docket No. 50-333
Additional Information Regarding Relief Request 18 (TAC M72418)

Reference: NYPA Letter, James Knubel to the NRC (JPN-99-026), "Proposed Alternatives in Accordance with 10CFR50.55a(a)(3)(i) and Relief From ASME Section XI Code Regarding Inspection of RPV Vertical Shell and Shell to Flange Welds," dated August 5, 1999.

Dear Sir:

This letter provides additional information to the referenced relief request. In Relief Request 18 the Authority is requesting schedule relief from performing the required axial Reactor Pressure Vessel (RPV) weld inspections. Attached is additional information that list estimated values for the Effective Full Power Years (EFPY) at end of cycles 14 through End of Life, peak Inner Diameter (ID) fluence at 32 EFPY at various beltline weld locations, and fraction of 32 EFPY fluence at peak weld azimuth and Adjusted Reference Temperatures (ART) for the lower intermediate course welds 1-233A,B,C and lower course axial welds 2-233A,B,C. These estimated values are based on revised data obtained from analysis of Surveillance Capsule removed at 13.4 EFPY. Also included in the attached is a Schematic of RPV Showing Identification of Vessel Beltline Plates and Welds.

If you have any questions, please contact Mr. Robert Steigerwald at (315) 349-6209.

There are no commitments made in this letter.

Very truly yours,

A handwritten signature in black ink, appearing to read 'M. Colomb'.

MICHAEL J. COLOMB
Site Executive Officer

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cc: Regional Administrator
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Attachment to JAFP-99-0315

ID Fluence in JAF RPV as a function of End of Cycle (EOC) cumulative EFPY

Based on Exposure as of 11/21/1999. Cumulative EFPY at EOC assumes 90% capacity factor beyond cycle 14.

Cycle	Date	EFPY
14	10/00	16.64
15	10/02	18.44
16	10/04	20.24
18	10/08	23.84
20	10/12	27.44
21	10/14	29.24

32 EFPY peak ID fluence and ART (ID) at various beltline weld locations

	Peak fluence	Max ART, °F
Lower intermediate course – axial welds 1-233A,B,C	1.81E+18	119.9
Lower course - axial welds 2-233A,B,C	1.61E+18	127.9

Max ART is reported at peak ID fluence regardless of azimuth, per Reference.

Lower intermediate course – axial welds 1-233A,B,C (VV-3A,3B,3C)

At EOC	Fraction of 32 EFPY fluence	Fluence*	fluence factor	ART, °F
14	0.52	5.84E+17	0.31787	72.3
15	0.58	6.47E+17	0.33539	76.0
16	0.63	7.10E+17	0.35183	79.4
18	0.75	8.36E+17	0.38200	85.7
20	0.86	9.62E+17	0.40922	91.4
EOL	1.00	1.12E+18	0.44033	97.9

*Accounts for azimuthal variation in flux per Reference.

Highest fluence at welds is 62% of peak.

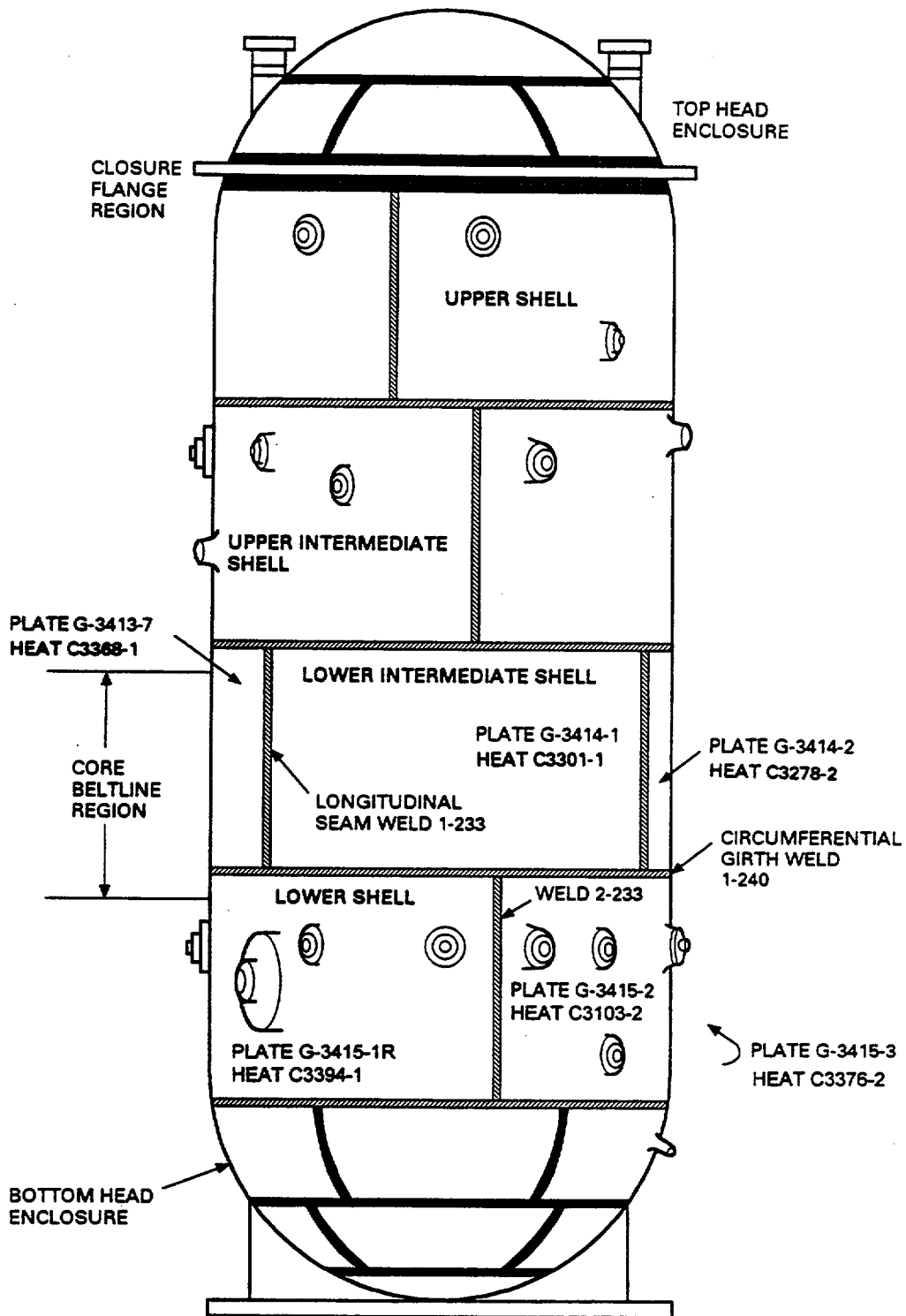
Lower course – axial welds 2-233A,B,C (VV-4A,4B,4C)

At EOC	Fraction of 32 EFPY fluence	Fluence*	Fluence factor	ART, °F
14	0.52	7.87E+17	0.37066	93.7
15	0.58	8.72E+17	0.39005	98.1
16	0.63	9.57E+17	0.40818	102.3
18	0.75	1.13E+18	0.44131	110.0
20	0.86	1.30E+18	0.47103	116.9
EOL	1.00	1.51E+18	0.50482	124.7

*Accounts for azimuthal variation in flux per Reference.

Highest fluence at welds is 94% of peak.

REFERENCE: GE Report, Plant FitzPatrick RPV Surveillance Material Testing and Analysis of Capsule at 13.4 EFPY, GE-NE-B1100732-01, Rev. 1, February 1998.



SCHEMATIC OF RPV SHOWING IDENTIFICATION OF VESSEL BELTLINE PLATES AND WELDS