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Georgia Power
the southern electric system

November 16, 1994

HL-4699

Docket Nos. 50-321
50-366

TAC Nos. M83469
M83470

U. S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Washington, D. C. 20555

Edwin I. Hatch Nuclear Plant
Corrected Information - Generic Letter 92-01, Revision 1
REACTOR VESSEL STRUCTURAL INTEGRITY

Gentlemen:

By letter dated June 3, 1994, the NRC notified Georgia Power Company (GPC) of open issues regarding the GPC response to Generic Letter 92-01, Revision 1, titled "Reactor Vessel Structural Integrity," and requested GPC to verify that the information contained in Enclosures 1 and 2 of the NRC letter was accurately entered in the Reactor Vessel Integrity Database (RVID) for Hatch Unit 1 and Unit 2. GPC responded to the open issues by letter dated July 1, 1994, and provided corrections to the RVID information in Attachment 2 of the response. However, the chemistry factor for the Hatch Unit 2 lower/lower intermediate shell circumferential weld seam, 301-871, was incorrectly reported to be 25.5. Attachment 2, Note 6, of the GPC response stated that the chemistry factor of 25.5 for weld seam 301-871 was taken from Enclosure 4, Table 7-1 of a previous GPC submittal dated July 15, 1991, titled "Request to Revise Technical Specifications: Reactor Vessel Temperature and Pressure Limits." Based on review of the chemical composition of weld seam 301-871 and in accordance with Regulatory Guide 1.99, Revision 2, the correct value for the chemistry factor is 35.45 as originally shown in the RVID. Attached are corrected pages showing the chemistry factor for weld seam 301-871 to be 35.45 and deleting Note 6 from Attachment 2 of GPC's July 1, 1994 response.

A028

In response to GPC's above referenced letter dated July 15, 1991, "Request to Revise Technical Specifications: Reactor Vessel Temperature and Pressure Limits," the NRC issued Amendment 118 to the Hatch Unit 2 Operating License to incorporate the revised reactor vessel temperature and pressure limits into the Technical Specifications. The above described discrepancy in Table 7-1 of Enclosure 4 to GPC's July 15, 1991, submittal has been evaluated and determined to have no effect on the temperature and pressure limits associated with Amendment 118 to the Hatch Unit 2 Technical Specifications. The revised adjusted reference temperature (ART) resulting from use of the corrected chemistry factor for weld seam 301-871 is still significantly lower than the ART for the limiting beltline material (weld seam 101-842).

Should you have any questions, please advise.

Respectfully submitted,

J. T. Beckham, Jr.

JTB/TWS:ts

Attachment

cc: Georgia Power Company
Mr. H. L. Sumner, Jr., General Manager - Plant Hatch
NORMS

U. S. Nuclear Regulatory Commission, Washington, DC
Mr. K. N. Jabbour, Licensing Project Manager - Hatch

U. S. Nuclear Regulatory Commission, Region II
Mr. S. D. Ebneter, Regional Administrator
Mr. B. L. Holbrook, Senior Resident Inspector - Hatch

State of Georgia
Mr. J. D. Tanner, Commissioner - Department of Natural Resources

HL-4699
LS File G.07.02a

ATTACHMENT

CORRECTED INFORMATION
GENERIC LETTER 92-01, REVISION 1

FOR

EDWIN I. HATCH NUCLEAR PLANT
UNIT 2

HL-4699
LS File G.07.02a

Summary File for Pressure-Temperature Limits

Plant Name	Beltline Ident.	Heat No. Ident.	ID Neut. Fluence at EOL	IRT_{NDT}	Method of Determin. IRT_{NDT}	Chemistry Factor	Method of Determin. CF	%Cu	%Ni
Hatch 2 EOL: 6/13/2018	Lower Shell G6603-1	C8553-2	~~1.0E18~~ 1.4E18 (5)	-20°F	Plant specific	51	Table	0.08	0.58
	Lower Shell G6603-2	C8553-1	~~1.0E18~~ 1.4E18 (5)	24°F	Plant specific	51	Table	0.08	0.58
	Lower Shell G6603-3	C8571-1	~~1.0E18~~ 1.4E18 (5)	0°F	Plant specific	51	Table	0.08	0.53
	Lower Int. Shell G6602-1	C8554-2	~~1.0E18~~ 1.4E18 (5)	-10°F	Plant specific	51	Table	0.08	0.58
	Lower Int. Shell G6602-2	C8554-1	~~1.0E18~~ 1.4E18 (5)	-20°F	Plant specific	51	Table	0.08	0.57
	Lower Int. Shell G6601-4	C8579-2	~~1.0E18~~ 1.4E18 (5)	-4°F	Plant specific	72.8	Table	0.11	0.48
	Lower Shell Axial Welds 101-842	10137	~~1.0E18~~ 1.4E18 (5)	-50°F	Plant specific	154.5	Table	0.23	0.50
	Lower Int. Shell Axial Welds 101-834	51874	~~1.0E18~~ 1.4E18 (5)	-50°F	Plant specific	138	Table	0.18	0.50
	Lower/ Lower Int shell Circ. Weld 301-871	4P6052	~~1.0E18~~ 1.4E18 (5)	-50°F	Plant specific	35.45	Table	0.07	0.03

Reference for Hatch 2

Fluence, IRT, and chemical composition data are from July 2, 1992, letter from J. T. Beckham, Jr. to USNRC Document Control Desk, subject: Response to NRC Generic Letter 92-01, Revision 1, Reactor Vessel Structural Integrity

Notes:

1. Per Enclosure 1, Appendix A, Table 1 to GPC's July 2, 1992, response to GL 92-01, Revision 1, the heat number for Hatch Unit 1 lower shell plate G-4805-3 should be C4149-1 instead of C4149-3 contained in the Reactor Vessel Integrity Database (RVID).

2. GPC's response to GL 92-01, Revision 1, Question 2a, dated July 2, 1992, stated that the Hatch Unit 1 EOL fluence is 1.8E18 n/cm^2. However, this value is the 1/4T EOL fluence instead of the ID fluence at EOL indicated by the RVID. Therefore, the correct value for the ID fluence at EOL for Hatch Unit 1 is 2.5E18 n/cm^2 as stated in GPC's response to GL 88-11, dated November 22, 1988.

3. As stated in Enclosure 1 GPC's of response to GL 88-11, dated November 22, 1988, the copper value for Hatch Unit 1 lower intermediate axial weld 1-308G/J, heat IP2815, is 0.28 weight percent.

4. GPC's response to GL 92-01, Revision 1, Question 2a, dated July 2, 1992, stated the Hatch Unit 1 EOL fluence is 1.8E18 n/cm^2. As stated in Note 2 above, this value is the 1/4T EOL fluence as opposed to the ID fluence at EOL.

5. GPC's response, dated July 2, 1992, to GL 92-01, Revision 1, Question 3a, stated that the Hatch Unit 2 EOL fluence is 1.0E18 n/cm^2. However, this value is the 1/4T EOL fluence instead of the ID fluence at EOL indicated by the RVID. Therefore, the correct value for the ID fluence at EOL for Hatch Unit 2 is 1.4E18 n/cm^2 as stated in Enclosure 4, Table 7-1 of GPC's letter dated July 15, 1991, titled "Request to Revise Technical Specifications: Reactor Vessel Temperature and Pressure Limits."

6. DELETED

7. The 1/4T USE at EOL for Hatch Unit 2 lower intermediate shell G6601-4 should be 61 ft-lb instead of 63 ft-lb indicated by the RVID. This change is consistent with the information found in Enclosure 2, Appendix C, Table 2, of GPC's response to GL 92-01, Revision 1, dated July 2, 1992.

Hatch Project Support - Licensing NRC Correspondence Routing and Information

NRC Due Date	Document ID No.	HL-
NA	9201CORR.DOC	4699
Signature Due Date	**Unit**	**Author**
NA	1 ☑ 321 2 ☑ 366	TERRY SIDES

Document Title/Subject
CORRECTED INFORMATION - GENERIC LETTER 92-01, REVISION 1

Additional Keywords
REACTOR, VESSEL, STRUCTURAL INTEGRITY, SASR90-104

Source of Information
GL-LETTER DATED 9/24/94 AND 10/12/94 FROM GARY CONTRERAS TO TERRY SIDES

Response to NRC Letter	Verbal Correspondence Dated
NA	

Purpose/Comments
CORRECT CHEMISTRY FACTOR FOR UNIT 2 VESSEL WELD SEAM 301-871.

Special Distribution Requirements

Check Required	Amount	Certification Attached
☐ Yes ☐ No	$	☐ Yes ☐ No

Review/Concurrence

	Date
Licensing Engineer: T. M. Milton	9.27.94
Functional Manager:	9/27/94
Manager - Licensing: FOR S.J.O	10/7/94
Manager - Nuclear Engineering and Licensing:	11/7/94
General Manager - Nuclear Support:	11/7/94
Legal (If applicable)	Date
Plant Management Concurrence	Date
PRB Concurrence	Date
SRB Concurrence	Date
Vice President - Plant Hatch:	11/14/94

Comments

NRCSHET1.DRW