

June 3, 1994

2CAN069401

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

Subject:

Arkansas Nuclear One - Unit 2

Docket No. 50-368 License No. NPF-6

Request for Verification of Information Regarding

Generic Letter 92-01, Revision 1, "Reactor Vessel Structural Integrity"

Gentlemen:

By letter dated May 4, 1994 (2CNA059401), the NRC requested that Entergy Operations verify that the information provided in its response to Generic Letter 92-01 has been accurately entered in the NRC's summary data file. Comments were requested within 30 days of the date of the letter.

Arkansas Nuclear One (ANO) technical personnel reviewed the information contained in the NRC letter and noted several discrepancies from the data which ANO had previously submitted. The data contained in the June 13, 1978, letter referenced in Enclosure 2, was prepared by the reactor vendor from source documents and thus is believed to be correct. Corrections are annotated (in handwriting) on the attached markup of Enclosure 1, "Summary File for Pressurized Thermal Shock" and Enclosure 2, "Summary File for Upper Shelf Energy" from the May 4, 1994, letter. During the course of this review it was found that the data ANO had submitted on June 13, 1978 (Letter 2-068-10), regarding pressure vessel fracture toughness, is in conflict with information in safety analysis report table 5.2-5. A review is in progress with the reactor vessel supplier to resolve this discrepancy. The reactor vessel supplier is compiling the original source documentation. Once received, this documentation will be used to verify the docketed information on reactor vessel material properties. When this effort is completed, the appropriate licensing basis documents will be updated as necessary.

Should you have any questions regarding this submittal, please contact me.

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A028:/.

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Very truly yours,

Dwight C. Mims
Director, Licensing

DCM/jrh Attachment

To the best of my knowledge and belief, the statements contained in this submittal are true.

SUBSCRIBED AND SWORN TO before me, a Notary Public in and for County and the State of Arkansas, this 3 day of 1994.

Notary Public

My Commission Expires 4-24-2002

M JANE DAVIDSON
Notary Public
POPE COUNTY, ARKANSAS
Commission Expires 4-24-2002

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cc: Mr. Leonard J. Callan
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Summary File for Pressurized Thermal Shock

Plant	Seitline Ident.	Heet No. Ident.	ID Neut. Fluence at EOL/EFPY	1RT _{eath}	Method of Determin. IRT	Chemistry Factor	Nethod of Determin. CF	72Cu	3264
Arkansas 2	Int. Shell C-8009-1	C8161-3	5.26E19	-26°#	MTEB 5-2	83.45	Table	0.12	0.63
EOL: 7/17/2018	Int. Shell C-8009-2	C8161-1	5.26£19	0°F	MTEB 5-2	51	Table	0.08	0.59
	Int. Shell . C-8009-3	C8182-2	5.26E19	O*F	Plant Specific	51	Table	0.08	0.60
	Lower Shell C-8010-1	C8161-2	5.26£19	12*#	MTEB 5-2	51	Table	0.08	0.59
	Lower Shell C-8010-2	82545-1	5.26€19	-28°F	MTEB 5-2	44	Table	0.07	0.66
	Lower Shell C-8010-3	82545 - Z	5.26£19	-30°F	MTEB 5-2	44	Table	0.07	0.65
	int. to Lower Shell Circ. Weld 9-203	83650	5.26€19	-10*5	Plant Specific	35.2	Table	0.05	0.08
	Lower Shell Axial Welds 3-203A/C	10120	5.26£19	-56*F	Generic	46.7	Table	0.05	0.18
	Int. Shell Axial Welds 2-203A/C	10120	5.26£19	-56*F	Generic	46.7	Table	0.05	0.18
	Upper to int. Shell 8-203	10137	1.52E18	-56°F	Generic	115.4	Table	0.23	0.18

Reference

Chemical composition and IRT data are from July 1, 1992, letter from J. J. Fisicaro (EO) to USMRC Document Control Desk, subject: Response to Generic Letter 92-01, Revision 1, "Reactor Vessel Structural Integrity"

Fluence data, chemical composition and IRT on 8-203 weld are reported in a June 18, 1991 letter from J.W. Yelverton (EO) to USMRC.

Summary File for Upper Shelf Energy

Plant Name	Seitline Ident.	Hest No.	Material Type	1/6T USE at EDL	1/4T Wautron Fluence at EOL	Unirred. USE	Rethod of Determin. Unirrad. USE
rkansas 2	Int. Shell C-8009-1	C8161-3	A 5338-1	66	3.28E19	91	65%
EOL: 7/17/2018	int. Shell C-8009-2	C8161-1	A 5338-1	62	3.28E19	82	65%
	Int. Shell C-8009-3	C8182-2	A 5338-1	95	3.28 € /9	126	Direct
	Lower Shell C-8010-1	C8161-2	A 5338-1	67	3. 28E/9	89	65%
	Lower Shell C-8010-2	B2545-1	A 5338-1	69	2.731619 3.28E19	92	65%
	Lower Shell C-8010-3	82545-2	A 5338-1	71	3.28E/9	94	65%
	int. to Lower Shell Circ. Weld 9-203	83650	Linde 0091, SAW	94	3.28E19	125	Direct
	Lower Shell Axial Welds 3-203A/C	10120	Linde 0091, SAW	92	3.28E/9	122	Direct
	Int. Shell Axiel Weids 2-203A/C	10120	Linde 0091, SAW	82	3.28E/9	109	Direct
	Upper to Int. Shell 8-203	10137	Linde 0091, SAW	79	9.48E17	101	10°F

References

UNSE data for plates are reported in Tables 5.2-5 and 5.2-16 of AMO-2 FSAR

UUSE data for Int. Shell and Lower Shell Axial Welds are reported in a July 22, 1991 letter from J.J. Fisicare (EO) to USBRC.

UUSE data for 9-203 and 8-203 Circ. Welds are reported in a June 13, 1978 letter from D.M. Williams (APIC) to USAMRC.

Fluence detum is from June 18, 1991, letter from J. W. Yelverton (EO) to USHRC.