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SUBJECT: Provides util revs to RVID that resulted from licensee review ofRVID,as requested in NRC 990712 ltr.Revs noted in encl are required to correct RVID database.

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SUSQUEHANNA STEAM ELECTRIC STATION
REVISIONS TO REACTOR VESSEL STRUCTURAL INTEGRITY DATA
PLA-5104

Docket Nos 50-387
and 50-388

Reference: USNRC to R. G. Byram, "Response to the Request for Additional Information to Generic Letter 92-01, revision, Supplement 1, 'Reactor Vessel Structural Integrity,' for SSES," dated July 12, 1999.

The purpose of this letter is to provide PP&L, Inc.'s (PP&L) revisions to the Reactor Vessel Integrity Database (RVID) that resulted from PP&L's review of the RVID as requested by the referenced letter. The revisions noted in the attachment to this letter are required to correct the RVID database.

Please contact Mr. Robert D. Kichline at (610) 774-7705, if there are any questions concerning this submittal.

Sincerely,

R. G. Byram

Attachment

070039

copy: NRC Region I
Mr. S. L. Hansell, NRC Sr. Resident Inspector
Mr. V. Nerses, NRC Sr. Project Manager

A001 1/1

Revisions to the RVID Database for the Susquehanna SES, Unit 1 and Unit 2

The following revisions are required to correct the RVID database.

"P-T Limits Summary Report" Table - Susquehanna 1

- Four of the P% and S% values (last two columns on right) are incorrect or absent from the spreadsheet (See the attached markups for the corrected values).

Weld Heat ID No.	P %		S %	
	Incorrect Value	Correct Value	Incorrect Value	Correct Value
401S0371/B504B27AE	0.012	0.013	0.000	0.012
402C4371/C115A27A	0.014	0.009	0.000	0.014
402K9171/K315A27AE	0.016	0.005	0.000	0.016
412P3611/J417B27AF	0.019	0.016	0.000	0.019

- The second sentence in the "Plant Reference and Beltline Material Notes" at the bottom of the page should read: "Fluence data was updated to reflect unit power uprates in a May 19, 1994 letter (PLA-4127) and a June 23, 1994 letter (PLA-4160) from R. G. Byram (PP&L) to C. L. Miller USNRC."

- The third sentence in the "Plant Reference and Beltline Material Notes" at the bottom of the page should read: "Chemical composition, UUSE, and RTndt(u) data are from a July 8, 1992 letter (PLA-3804), from H. W. Keiser (PP&L) to C. L. Miller (USNRC), subject: Response to Generic Letter 92-01."

"Upper Shelf Energy Summary Report" Table - Susquehanna 1 and Susquehanna 2

- The correct "Material Type" for the Shell material in the table is A533B-1 for both Units 1 and 2. The summary table incorrectly states that the "Material Type" is A533B. (See the attached markups for the corrected values.) The "Material Type" of the weld material listed on our chemistry data sheets is "SA-533 Grade B Class 1" material which is equivalent to the RVID2 classification of A533B-1.

Plate Heat ID No.	Material Type	
	Incorrect Value	Correct Value
B5083-1	A533B	A533B-1
C0770-2	A533B	A533B-1
C0776-1	A533B	A533B-1
C0803-1	A533B	A533B-1
C0814-2	A553B	A533B-1
C2433-1	A533B	A533B-1

- The correct values for "1/4 T Neutron Fluence @ EOL" for Susquehanna 1 is 0.053 for the Shells and Welds stated below. The summary table value of 0.052 is incorrect. (See the attached markups for the corrected values.)

Shell Plate Heat ID No./ Weld Heat ID No.	1/4 T Neutron Fluence @ EOL	
	Incorrect Value	Correct Value
C0776-1	0.052	0.053
C0803-1	0.052	0.053
C2433-1	0.052	0.053
401S0371/B504B27AE	0.052	0.053
402C4371/C115A27A	0.052	0.053
402K917/K315A27AE	0.052	0.053
411L3071/L311A27AF	0.052	0.053
412P3611/J417B27AF	0.052	0.053
49K2351/L307A27AD	0.052	0.053
629616/L320A27AG	0.052	0.053

- The second sentence in the "Plant Reference and Beltline Material Notes" at the bottom of the page should read: "Fluence data was updated to reflect unit power uprates in a May 19, 1994 letter (PLA-4127) and a June 23, 1994 letter (PLA-4160) from R. G. Byram (PP&L) to C. L. Miller USNRC."

- The third sentence in the "Plant Reference and Beltline Material Notes" at the bottom of the page should read: "Chemical composition, UUSE, and RTndt(u) data are from a July 8, 1992 letter (PLA-3804), from H. W. Keiser (PP&L) to C. L. Miller (USNRC), subject: Response to Generic Letter 92-01."

"Surveillance Data Summary" Table - Susquehanna 1

- The correct Ni % value for the weld heat ID (No. 411L3071/L311A27AF) should be 0.93. The summary table value of 0.98 is incorrect. (See the attached markups for the corrected values.)

- The second sentence in the "Plant Reference and Beltline Material Notes" at the bottom of the page should read: "Fluence data was updated to reflect unit power uprates in a May 19, 1994 letter (PLA-4127) and a June 23, 1994 letter (PLA-4160) from R. G. Byram (PP&L) to C. L. Miller USNRC."

- The third sentence in the "Plant Reference and Beltline Material Notes" at the bottom of the page should read: "Chemical composition, UUSE, and RTndt(u) data are from a July 8, 1992 letter (PLA-3804), from H. W. Keiser (PP&L) to C. L. Miller (USNRC), subject: Response to Generic Letter 92-01."

"P-T Limits Summary Report" Table - Susquehanna 2

- The correct Weld Heat ID No. 401S0371/B504B27AE for the P % value is 0.013. The summary table value of 0.012 is incorrect. (See the attached markups for the corrected values.)

- The correct Weld Heat ID No 494K235/L307A27AD for the RTndt(u) value is -50. The summary table value of -66 is incorrect. The incorrect value was inadvertently included in the May 19, 1994 letter. (See the attached markups for the corrected values.)

- The second sentence in the "Plant Reference and Beltline Material Notes" at the bottom of the page should read: "Fluence data was updated to reflect unit power uprates in a May 19, 1994 letter (PLA-4127) and a June 23, 1994 letter (PLA-4160) from R. G. Byram (PP&L) to C. L. Miller USNRC."

- The third sentence in the "Plant Reference and Beltline Material Notes" at the bottom of the page should read: "Chemical composition, UUSE, and RTndt(u) data are from a July 8, 1992 letter (PLA-3804), from H. W. Keiser (PP&L) to C. L. Miller (USNRC), subject: Response to Generic Letter 92-01."

NRC - Reactor Vessel Integrity Database

P-T Limits Summary Report

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Page 1

SUSQUEHANNA 1

Docket No: 50-387

EOL Date: 07/17/2022

Beltline Identification Type	Heat ID	RTndt @ EOL	Neutron Fluence @ EOL	RTndt(u)	RTndt(u) METHOD	ΔRTndt(u) @ EOL	Fluence Factor @ EOL	Chem Factor	Chemistry Factor Method	Margin	Margin Method	Cu %	Ni %	P %	S %
LOWER SHELL 21-1		54.0	0.062	-8.0	PLANT SPECIFIC	31.0	0.328	94.60	TABLE	31.0	OVERRIDE	0.140	0.480	0.010	0.019
PLATE	B5083-1														
LOWER SHELL 21-2		42.6	0.062	-20.0	PLANT SPECIFIC	31.3	0.328	95.50	TABLE	31.3	OVERRIDE	0.140	0.500	0.008	0.016
PLATE	C0770-2														
LOWER INTERMEDIATE SHELL 22-2		64.6	0.076	6.0	PLANT SPECIFIC	29.3	0.364	80.60	TABLE	29.3	OVERRIDE	0.120	0.480	0.010	0.010
PLATE	C0776-1														
LOWER INTERMEDIATE SHELL 22-1		32.2	0.076	-10.0	PLANT SPECIFIC	21.1	0.364	58.00	TABLE	21.1	OVERRIDE	0.090	0.530	0.009	0.019
PLATE	C0803-1														
LOWER SHELL 21-3		38.0	0.062	-20.0	PLANT SPECIFIC	29.0	0.328	88.30	TABLE	29.0	OVERRIDE	0.130	0.510	0.011	0.016
PLATE	C0814-2														
LOWER INTERMEDIATE SHELL 22-3		65.6	0.076	18.0	PLANT SPECIFIC	23.8	0.364	65.30	TABLE	23.8	OVERRIDE	0.100	0.630	0.009	0.015
PLATE	C2433-1														
WELD		-50.2	0.076	-80.0	PLANT SPECIFIC	14.9	0.364	41.00	TABLE	14.9	OVERRIDE	0.030	1.040	~~0.012~~ 0.013	~~0.000~~ 0.012
WELD	401S0371/B504B27AE														
WELD		-30.4	0.076	-50.0	PLANT SPECIFIC	9.8	0.364	27.00	TABLE	9.8	OVERRIDE	0.020	0.920	~~0.014~~ 0.009	~~0.000~~ 0.014
WELD	402C4371/C115A27A														
WELD		-20.2	0.076	-50.0	PLANT SPECIFIC	14.9	0.364	41.00	TABLE	14.9	OVERRIDE	0.030	0.980	~~0.010~~ 0.005	~~0.000~~ 0.016
WELD	402K9171/K315A27AE														
WELD		-20.2	0.076	-50.0	PLANT SPECIFIC	14.9	0.364	41.00	TABLE	14.9	OVERRIDE	0.030	0.930	0.016	0.019
WELD	411L3071/L311A27AF														
WELD		-50.2	0.076	-80.0	PLANT SPECIFIC	14.9	0.364	41.00	TABLE	14.9	OVERRIDE	0.030	0.930	~~0.019~~ 0.016	~~0.000~~ 0.019
WELD	412P3611/J417B27AF														
WELD		-10.6	0.076	-50.0	PLANT SPECIFIC	19.7	0.364	54.00	TABLE	19.7	OVERRIDE	0.040	1.100	0.015	0.017
WELD	494K2351/L307A27AD														
WELD		-10.6	0.076	-50.0	PLANT SPECIFIC	19.7	0.364	54.00	TABLE	19.7	OVERRIDE	0.040	0.990	0.015	0.018
WELD	629616/L320A27AG														

Plant References and Beltline Material Notes

NOTE: Margin method for all beltline materials is "override" since sigma delta need not be greater than 1/2 delta RTndt per RG 1.99, Rev. 2.

Fluence data was updated to reflect unit power uprates in a May 19, 1994 letter (PLA-4127) and a June 23, 1994 letter from R. G. Byrum (PP&L) to C.L.. Miller (USNRC). (PLA-4160) Byram

Chemical composition, UUSE, and RTndt(u) data are from ~~July 10~~ (A) (B) (PLA-3804) 1992, letter from H. W. Keiser (PP&L) to C. L. Miller (USNRC), subject: Response to Generic Letter 92-01.

NOTE: There are no weld direction (axial or circumferential) data. All welds are shielded metal arc welds (SMAW).

NRC - Reactor Vessel Integrity Database

Upper Shelf Energy Summary Report

Printed 8/30/99 12:21:50 P

Page 1

SUSQUEHANNA 1

Docket No: 50-387

EOL Date: 07/17/2022

Beltline Identification		Material Type	USE @ EOL @ 1/4T	1/4 T NeutronFluence @ EOL	Unirradiated USE	Unirradiated USE Method	%Drop in USE @ EOL @ 1/4T	%Drop in USE Method	Cu %
Type	Heat ID								
LOWER SHELL 21-1		A 533B-1	EMA	0.043	EMA	EMA	EMA	EMA	0.140
PLATE	B5083-1								
LOWER SHELL 21-2		A 533B-1	EMA	0.043	EMA	EMA	EMA	EMA	0.140
PLATE	C0770-2								
LOWER INTERMEDIATE SHELL 22-2		A 533B-1	EMA	0.052 (3)	EMA	EMA	EMA	EMA	0.120
PLATE	C0776-1								
LOWER INTERMEDIATE SHELL 22-1		A 533B-1	EMA	0.052 (3)	EMA	EMA	EMA	EMA	0.090
PLATE	C0803-1								
LOWER SHELL 21-3		A 533B-1	69.86	0.043	78.00	10 F DATA	10.43	POSITION 1.2 (NO S DATA)	0.130
PLATE	C0814-2								
LOWER INTERMEDIATE SHELL 22-3		A 533B-1	79.71	0.052 (3)	88.00	65%	9.42	POSITION 1.2 (NO S DATA)	0.100
PLATE	C2433-1								
WELD		SMAW	115.04	0.052 (3)	127.00	DIRECT	9.42	POSITION 1.2 (NO S DATA)	0.030
WELD	401S0371/B504B27AE								
WELD		SMAW	83.33	0.052 (3)	92.00	10 F DATA	9.42	POSITION 1.2 (NO S DATA)	0.020
WELD	402C4371/C115A27A								
WELD		SMAW	121.38	0.052 (3)	134.00	DIRECT	9.42	POSITION 1.2 (NO S DATA)	0.030
WELD	402K9171/K315A27AE								
WELD		SMAW	114.13	0.052 (3)	126.00	DIRECT	9.42	POSITION 1.2 (NO S DATA)	0.030
WELD	411L3071/L311A27AF								
WELD		SMAW	126.81	0.052 (3)	140.00	DIRECT	9.42	POSITION 1.2 (NO S DATA)	0.030
WELD	412P3611/J417B27AF								
WELD		SMAW	173.91	0.052 (3)	192.00	DIRECT	9.42	POSITION 1.2 (NO S DATA)	0.040
WELD	494K2351/L307A27AD								
WELD		SMAW	103.26	0.052 (3)	114.00	DIRECT	9.42	POSITION 1.2 (NO S DATA)	0.040
WELD	629616/L320A27AG								

Plant References and Beltline Material Notes

NOTE: Margin method for all beltline materials is "override" since sigma delta need not be greater than 1/2 delta RTndt per RG 1.99, Rev. 2.

Fluence data was updated to reflect unit power uprates in a June 23, 1994 letter from R. G. Byram (PP&L) to C.L.. Miller (USNRC). (May 19, 1994 letter (PLA-4127) and a) (PLA-4160) (Byram)

Chemical composition, UUSE, and RTndt(u) data are from July 10, 1992, letter from H. W. Keiser (PP&L) to C. L. Miller (USNRC), subject: Response to Generic Letter 92-01. (a) (8) (PLA-3804)

NOTE: There are no weld direction (axial or circumferential) data. All welds are shielded metal arc welds (SMAW).

NRC - Reactor Vessel Integrity Database

Surveillance Data Summary

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Page 1

SUSQUEHANNA 1

Docket No: 50-387

EOL Date: 07/17/2022

Type / Direction	Heat ID / Capsule, Lead Factor	Neutron Fluence	Fluence Factor	Group CF	Used in CF Calcs	Predicted ΔRTndt	Measured ΔRTndt	Predicted - Measured ΔRTndt	Credible RG1.99 Scatter	σ of Pred-Meas ΔRTndt	Unir USE	Meas USE	%Drop in USE	%Drop in USE Line Offset	Cu %	Ni %	P %	S %
PLATE	C2433-1	0.01	0.14		YES		24.0				136.0	139.3	0.00	-3.56160	0.100	0.630	0.009	0.015
LONGITUDINAL	30D, 0.94																	
WELD	411L3071/L311A27AF	0.01	0.14		YES		21.0				109.0	112.0	0.00	-3.56160	0.030	~~0.980~~ 0.93	0.016	0.019
N/A	30D, 0.94																	

NRC - Reactor Vessel Integrity Database

P-T Limits Summary Report

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Page 1

SUSQUEHANNA 2

Docket No: 50-388
EOL Date: 03/23/2024

Beltline Identification Type	Heat ID	RTndt @ EOL	Neutron Fluence @ EOL	RTndt(u)	RTndt(u) METHOD	ΔRTndt(u) @ EOL	Fluence Factor @ EOL	Chem Factor	Chemistry Factor Method	Margin	Margin Method	Cu %	Ni %	P %	S %
LOWER SHELL 21-3		53.4	0.064	-10.0	PLANT SPECIFIC	21.7	0.334	65.00	TABLE	21.7	OVERRIDE	0.100	0.580	0.012	0.010
PLATE	6C1053-1-1														
LOWER SHELL 21-1		29.1	0.064	-20.0	PLANT SPECIFIC	24.5	0.334	73.50	TABLE	24.5	OVERRIDE	0.110	0.550	0.012	0.006
PLATE	6C956-1-1														
LOWER SHELL 21-2		23.4	0.064	-20.0	PLANT SPECIFIC	21.7	0.334	65.00	TABLE	21.7	OVERRIDE	0.100	0.560	0.011	0.006
PLATE	6C980-1-1														
LOWER INTERMEDIATE SHELL 22-1		58.3	0.078	-10.0	PLANT SPECIFIC	34.3	0.369	93.00	TABLE	34.0	POSITION 1.1 (NO S DATA)	0.130	0.680	0.007	0.011
PLATE	C2421-3														
LOWER INTEMEDIATE SHELL 22-3		50.2	0.078	2.0	PLANT SPECIFIC	24.1	0.369	65.30	TABLE	24.1	OVERRIDE	0.100	0.630	0.009	0.015
PLATE	C2433-2														
LOWER INTERMEDIATE SHELL 22-2		47.8	0.078	-20.0	PLANT SPECIFIC	33.9	0.369	92.00	TABLE	33.9	OVERRIDE	0.130	0.640	0.006	0.015
PLATE	C2929-1														
WELD		-5.7	0.078	-36.0	PLANT SPECIFIC	15.1	0.369	41.00	TABLE	15.1	OVERRIDE	0.030	0.890	0.009	0.021
WELD	09M057/C109A27A														
WELD		-49.7	0.078	-80.0	PLANT SPECIFIC	15.1	0.369	41.00	TABLE	15.1	OVERRIDE	0.030	1.040	~~0.012~~ 0.013	0.012
WELD	401S0371/B504B27AE														
WELD		-30.1	0.078	-50.0	PLANT SPECIFIC	10.0	0.369	27.00	TABLE	10.0	OVERRIDE	0.020	0.920	0.009	0.014
WELD	402C4371/C115A27A														
WELD		-19.7	0.078	-50.0	PLANT SPECIFIC	15.1	0.369	41.00	TABLE	15.1	OVERRIDE	0.030	0.980	0.015	0.016
WELD	402K9171/K315A27AE														
WELD		-19.7	0.078	-50.0	PLANT SPECIFIC	15.1	0.369	41.00	TABLE	15.1	OVERRIDE	0.030	0.930	0.016	0.019
WELD	411L3071/L311A27AF														
WELD		-49.7	0.078	-80.0	PLANT SPECIFIC	15.1	0.369	41.00	TABLE	15.1	OVERRIDE	0.030	0.930	0.016	0.019
WELD	412P3611/J417B27AF														
WELD		-26.1	0.078	~~-66.0~~ -50.0	PLANT SPECIFIC	19.9	0.369	54.00	TABLE	19.9	OVERRIDE	0.040	1.100	0.015	0.017
WELD	494K2351/L307A27AD														
WELD		40.5	0.078	-20.0	PLANT SPECIFIC	30.3	0.369	82.00	TABLE	30.3	OVERRIDE	0.060	0.890	0.010	0.023
WELD	624263/E204A27A														
WELD		-10.1	0.078	-50.0	PLANT SPECIFIC	19.9	0.369	54.00	TABLE	19.9	OVERRIDE	0.040	0.990	0.015	0.018
WELD	629616/L320A27AG														
WELD		-30.1	0.078	-70.0	PLANT SPECIFIC	19.9	0.369	54.00	TABLE	19.9	OVERRIDE	0.040	1.000	0.015	0.013
WELD	659N315/F414B27AF														

Plant References and Beltline Material Notes

NOTE: Margin method for all beltline materials, except Lower Intermediate Shell 22-1, is "override" since sigma delta need not be greater than 1/2 delta RTndt per RG 1.99, Rev. 2.

Fluence data was updated to reflect unit power uprates in a May 19, 1994 letter (PLA-4127) and a June 23, 1994 letter (PLA-4160) from R. G. Byrum (PP&L) to C.L.. Miller (USNRC).

Chemical composition, UUSE, and RTndt(u) data are from July 10, 1992, letter from H. W. Keiser (PP&L) to C. L. Miller (USNRC), subject: Response to Generic Letter 92-01. (a) (b) (PLA-3804)

NOTE: There are no weld direction (axial or circumferential) data. All welds are shielded metal arc welds (SMAW).

NRC - Reactor Vessel Integrity Database

Upper Shelf Energy Summary Report

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Page 1

SUSQUEHANNA 2

Docket No: 50-388
EOL Date: 03/23/2024

Beltline Identification Type	Heat ID	Material Type	USE @ EOL @ 1/4T	1/4 T NeutronFluence @ EOL	Unirradiated USE	Unirradiated USE Method	%Drop in USE @ EOL @ 1/4T	%Drop in USE Method	Cu %
LOWER SHELL 21-3		A 533B(-1)	69.11	0.044	76.00	40 F DATA	9.06	POSITION 1.2 (NO S DATA)	0.100
PLATE	6C1053-1-1								
LOWER SHELL 21-1		A 533B(-1)	113.11	0.044	125.00	40 F DATA	9.51	POSITION 1.2 (NO S DATA)	0.110
PLATE	6C956-1-1								
LOWER SHELL 21-2		A 533B(-1)	85.48	0.044	94.00	40 F DATA	9.06	POSITION 1.2 (NO S DATA)	0.100
PLATE	6C980-1-1								
LOWER INTERMEDIATE SHELL 22-1		A 533B(-1)	EMA	0.054	EMA	EMA	EMA	EMA	0.130
PLATE	C2421-3								
LOWER INTEMEDIATE SHELL 22-3		A 533B(-1)	EMA	0.054	EMA	EMA	EMA	EMA	0.100
PLATE	C2433-2								
LOWER INTERMEDIATE SHELL 22-2		A 533B(-1)	74.75	0.054	84.00	65%	11.01	POSITION 1.2 (NO S DATA)	0.130
PLATE	C2929-1								
WELD		LINDE 124	EMA	0.054	EMA	EMA	EMA	EMA	0.030
WELD	09M057/C109A27A								
WELD		SMAW	114.92	0.054	127.00	DIRECT	9.51	POSITION 1.2 (NO S DATA)	0.030
WELD	401S0371/B504B27AE								
WELD		SMAW	83.25	0.054	92.00	10 F DATA	9.51	POSITION 1.2 (NO S DATA)	0.020
WELD	402C4371/C115A27A								
WELD		SMAW	121.26	0.054	134.00	DIRECT	9.51	POSITION 1.2 (NO S DATA)	0.030
WELD	402K9171/K315A27AE								
WELD		SMAW	114.02	0.054	126.00	DIRECT	9.51	POSITION 1.2 (NO S DATA)	0.030
WELD	411L3071/L311A27AF								
WELD		SMAW	126.69	0.054	140.00	DIRECT	9.51	POSITION 1.2 (NO S DATA)	0.030
WELD	412P3611/J417B27AF								
WELD		SMAW	173.74	0.054	192.00	DIRECT	9.51	POSITION 1.2 (NO S DATA)	0.040
WELD	494K2351/L307A27AD								
WELD		SMAW	65.71	0.054	73.00	40 F DATA	9.98	POSITION 1.2 (NO S DATA)	0.060
WELD	624263/E204A27A								
WELD		SMAW	103.16	0.054	114.00	DIRECT	9.51	POSITION 1.2 (NO S DATA)	0.040
WELD	629616/L320A27AG								
WELD		SMAW	123.97	0.054	137.00	DIRECT	9.51	POSITION 1.2 (NO S DATA)	0.040
WELD	659N315/F414B27AF								

Plant References and Beltline Material Notes

NOTE: Margin method for all beltline materials, except Lower Intermediate Shell 22-1, is "override" since sigma delta need not be greater than 1/2 delta RTndt per RG 1.99, Rev. 2.

Fluence data was updated to reflect unit power uprates in a June 23, 1994 letter from R. G. Byrum (PP&L) to C.L. Miller (USNRC).
(May 19, 1994 letter (PLA-4127) and a) (PLA-4140) (Byram)

Chemical composition, UUSE, and RTndt(u) data are from July 10, 1992, letter from H. W. Keiser (PP&L) to C. L. Miller (USNRC), subject: Response to Generic Letter 92-01.
(a) (8) (PLA-3804)

NOTE: There are no weld direction (axial or circumferential) data. All welds are shielded metal arc welds (SMAW).