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AUTH.NAME AUTHOR AFFILIATION
KEISER,H.W. Pennsylvania Power & Light Co. See Rpt.
RECIP.NAME RECIPIENT AFFILIATION
MURLEY,T.E. Office of Nuclear Reactor Regulation, Director (Post 870411

SUBJECT: Forwards final response to request for addl info re Generic Ltr 88-01, "NRC Position on IGSCC in BWR Austenitic SSP."

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Harold W. Keiser
Senior Vice President-Nuclear
215/770-4194

OCT 0 2 1989

Director of Nuclear Reactor Regulation
Attention: Dr. Thomas Murley
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

SUSQUEHANNA STEAM ELECTRIC STATION
FINAL RESPONSE TO REQUEST FOR ADDITIONAL
INFORMATION - RESPONSE TO GENERIC LETTER 88-01
PLA-3263 FILE R41-D

Reference: PLA-3233, H.W. Keiser to USNRC, "Additional Response To Generic Letter 88-01," dated August 18, 1989.

Dear Dr. Murley:

The following is our final response to the request for additional information regarding Generic Letter 88-01, "NRC Position On IGSCC In BWR Austenitic Stainless Steel Piping." The following items were included in our previous referenced response:

1. PP&L's position on NRC staff positions including the Susquehanna Specific item No. 1.

2. Leak detection.

The following items are included in our current response:

1. Inservice inspection program and Susquehanna Specific item No. 2, Welds Containing Inconel 182 and Inconel 600 and Post-IHSI inspections.

2. Welds covered in license submittal.

3. Welds that are not UT inspectable.

If you have any question, please contact Mr. J.B. Wesner at (215) 770-7911.

Very truly yours,

H. W. Keiser

Affidavit
Attachments

cc: NRC Document Control Desk (original)
NRC Region I
Mr. G. S. Barber, Sr. Resident Inspector
Mr. M. C. Thadani, NRC Project Manager
Dr. A. Lakner, Viking Systems International

AFFIDAVIT

COMMONWEALTH OF PENNSYLVANIA)
: SS
COUNTY OF LEHIGH)

I, HAROLD W. KEISER, being duly sworn according to law, state that I am Sr. Vice President - Nuclear of Pennsylvania Power & Light Company and that the facts set forth on the attached response to Generic Letter 88-01, are true and correct to the best of my knowledge, information and belief.

H. W. Keiser

Harold W. Keiser
Sr. Vice President - Nuclear

Sworn to and subscribed
before me this 24th day
of October, 1989.

Martha C. Sedora

Notary Public

NOTARIAL SEAL
MARTHA C. SEDORA, NOTARY PUBLIC
ALLENTOWN, LEHIGH COUNTY
MY COMMISSION EXPIRES JAN. 15, 1990
Member, Pennsylvania Association of Notaries

rmh/msc200368i

SUSQUEHANNA STEAM ELECTRIC STATION, UNITS 1 AND 2
REQUEST FOR ADDITIONAL INFORMATION -
RESPONSE TO GENERIC LETTER 88-01

Item 1, Position on NRC Staff Positions and SSES Specific Item 1, Crack Characterization and Repair Criteria.

Refer to PLA-3233, dated August 5, 1989.

Item 2, Inservice Inspection Program and SSES Specific Item 2, Welds Containing Inconel 182 and Inconel 600 and Post-IHSI Inspections.

Refer to attachments titled "SSES Unit 1, Generic Letter 88-01, Weld Evaluation Tables" and "SSES Unit 2, Generic Letter 88-01, Weld Evaluation Tables" for the tabular listing of all welds within the scope of Generic Letter 88-01 and all pertinent information requested.

The following clarification is presented to identify the difference in the number of welds between the original submittal and the tables:

(a) Unit 1 IGSCC Category B currently contains 109 welds - there were 111 welds previously. Review of the original Category B welds listed indicated ten welds which received the IHSI treatment but were not completely ultrasonically examined post-IHSI as required by NUREG-0313.

Of the ten welds, two welds, which may be examinable now using today's ultrasonic techniques, were included in the tables as IGSCC Category G. Note that IGSCC Category G welds must be examined during the next refueling outage. IGSCC Category G was not listed in the original response to Generic Letter 88-01, PLA-3060, dated August 10, 1988.

The remaining eight welds are included in IGSCC Category B and their examination status so noted in the tables. Since IHSI was performed on Unit 1 within two years of commercial operation, and IHSI is considered a proven technique in mitigation of IGSCC, it is appropriate that these welds remain in Category B. Sampling of other inspectable welds within Category B will provide reasonable assurance of the effectiveness of IHSI, while partial post-IHSI examination data, where available, coupled with routine Section XI visual examination of the piping pressure boundary for leakage, provides assurance of the integrity of the subject welds.

(b) Unit 1 IGSCC Category D currently contains 32 welds - 36 welds were previously reported in IGSCC Category D. Review of the welds included in Category D yielded four welds which conformed to the NRC staff position on materials for IGSCC Category A; therefore, these welds were deleted from Category D and included in Category A. Similarly, Unit 2 Category D was revised from 33 to 31 welds. The welds were: DCA1071-FW-5, DCA1072-FW-5, DCA1091-FW-1, DCA2071-FW-5, DCA2072-FW-10 and DCA1092-FW-1.

(c) As noted above, IGSCC Category G was added to the Unit 1 tables to accommodate examination of two welds not previously examined post-IHSI.

(d) Weld totals for IGSCC Category A were not previously reported. IGSCC Category A tables have been included for both Units in the response above. Long seam welds, of which all were solution heat treated, are not included in the Category A tables since their inspection is required and documented only in conjunction with a selected (for inspection) circumferential weld that the long seam weld intersects.

Item 3, Welds Covered in License Submittal - A review was performed of all welds within the defined scope of Generic Letter 88-01 and no welds were excluded due to temperature considerations or other reasons.

Item 4, Welds That Are Not UT Inspectable - Twelve welds have been included in the attached weld tables that are partially or completely inaccessible for ultrasonic examination. These welds are:

DCA1081-FW-5	Category G	No examination due to weld buildup
DCA1102-FW-6	Category G	No examination due to weld buildup
VRRB311-FW-A24	Category B	No examination due to weld configuration
VRRB312-FW-B24	Category B	No examination due to weld configuration
DCA1101-FW-11	Category B	Partial examination 67% complete; configuration
DCA1101-FW-2	Category B	Partial examination 87% complete; configuration
DCA1102-FW-11	Category B	Partial examination 56% complete; configuration
VRRB311-FW-A13	Category B	Partial examination 86% complete; configuration
VRRB312-FW-B13	Category B	Partial examination 78% complete; configuration
VRRB311-10-C	Category B	Partial examination 75% complete; pipe lugs
DBB1071-1-B	Category D	Partial examination 84% complete; configuration
DCB1021-FW-2	Category D	Partial examination 50% complete; configuration

Since Category B allows selection of welds for examination, the eight Category B welds will not be scheduled for examination. Welds that can be completely examined will be selected. The remaining Category D and G welds will be examined to the maximum extent practical. All welds are subject to a routine Section XI visual examination during pressure testing.

Item 5, Leakage Detection.

Refer to PLA-3233, dated August 5, 1989.

Susquehanna
Steam Electric Station
Unit #1

Generic Letter 88-01
Weld Evaluation Tables

Pennsylvania Power & Light Co.
September 1989

Supplement

Steam Electric Station

Unit #1

****
****

SUSQUEHANNA STEAM ELECTRIC STATION UNIT #1

NUMBER OF IGSCC CATEGORY A WELDS = 200

NUMBER OF IGSCC CATEGORY A WELDS
REQUIRED TO BE EXAMINED IN TEN YEARS = 50

****
****

NOTES:

(1) IGSCC CATEGORY A WELDMENTS ARE THOSE WITH NO KNOWN CRACKS, THAT HAVE A LOW PROBABILITY OF INCURRING IGSCC PROBLEMS, BECAUSE THEY ARE MADE ENTIRELY OF IGSCC RESISTANT MATERIALS.
IGSCC CATEGORY A RESISTANT MATERIALS INCLUDE:
(A) LOW CARBON WROUGHT AUSTENITIC STAINLESS STEEL WITH .035% C MAX
(B) LOW CARBON WELD METAL; PER PPL LETTER TO NRC (PLA - 3060), WELD METAL IS CONSIDERED RESISTANT WITH .035% C MAX AND MIN 5% FERRITE
(C) CORROSION RESISTANT CLADDING (CRC)
(D) CAST AUSTENITIC STAINLESS STEEL WITH .035% C MAX & MIN 7.5% FERRITE
(E) SOLUTION HEAT TREATMENT AFTER WELDING (SHT)
(F) INCONEL 82 IS CONSIDERED TO BE RESISTANT
ALL WELDS INCLUDED IN IGSCC CATEGORY A ARE IN ACCORDANCE WITH NRC STAFF POSITIONS ON MATERIALS AND PROCESSES EXCEPT AS SPECIFICALLY DISCUSSED IN (B) ABOVE.

(2) WELD TYPES - ALL WELDS AT SSES WERE TIG WELDED FOR THE ROOT PASS AND SMAW WELDED FOR THE REMAINDER OF THE BUTT JOINT. MATERIAL COMBINATIONS FOR THE VARIOUS WELDS WERE:

A)	SS - SS JOINT	308L ROD
B)	SS - CS JOINT	309L ROD
C)	SS - CAST SS JOINT	308L ROD
D)	SS - INCONEL	IN 82/182
E)	CS - INCONEL	IN 82/182

(3) IGSCC CATEGORY A WELDS ARE EXAMINED TO THE EXTENT AND FREQUENCY SPECIFIED IN SECTION XI OF THE ASME CODE - 1980W80 FOR UNIT #1.

(4) ISI DRAWING NUMBER MAY BE DERIVED FROM THE WELD ID NUMBER, E.G. WELD ID NUMBER DBB1131-1B-C IS ON DRAWING ISI-DBB-113-1.

(5) THE FOLLOWING ABBREVIATIONS ARE USED TO DETAIL WELD CONFIGURATION:

P	- PIPE	CP	- CAP
E	- ELBOW	CR	- CROSS
V	- VALVE	PB	- PIPE BEND
RED	- REDUCER	FH	- FLUED HEAD
SWOL	- SWEEPOLET	WOL	- WELDOLET
SE	- SAFE END	PU	- PUMP
T	- TEE	PEN	- PENETRATION
FL	- FLANGE		

(6) THE FOLLOWING APPLIES TO PAST EXAMINATIONS:
(A) RESP85 - UNIT #1 FIRST REFUELING OUTAGE SPRING 1985
(B) RESP86 - UNIT #1 SECOND REFUELING OUTAGE SPRING 1986
(C) REFA87 - UNIT #1 THIRD REFUELING OUTAGE FALL 1987
(D) RESP89 - UNIT #1 FOURTH REFUELING OUTAGE SPRING 1989

(7) ALL INSPECTIONS CONDUCTED AFTER SEPTEMBER, 1985 WERE PERFORMED USING METHODS AND PERSONNEL QUALIFIED UNDER NRC/EPRI/BWROG COORDINATION PLAN AS UPGRADED IN SEPTEMBER, 1985.

(8) FOR ALL VOLUMETRIC EXAMINATIONS PERFORMED TO DATE, NO FLAW INDICATIONS HAVE BEEN DISCOVERED.

(9) ALL WELDS INDICATED AS SCHEDULED FOR FUTURE EXAMINATION WILL BE EXAMINED TO FULFILL ASME SECTION XI ISI PROGRAM REQUIREMENTS PRIOR TO THE END OF THE FIRST ISI 10 YEAR INTERVAL - JUNE 8,1993.

****
GENERIC LETTER 88-01 WELD EVALUATION
IGSCC WELD CATEGORY A
CORE SPRAY
****

WELD ID NUMBER	CONF	DIAMETER	INSIDE CONTAINMENT ?	MATERIAL UPSTREAM	MATERIAL DOWNSTREAM	REASON FOR CLASSIFICATION
DBB1131-1B-C	P-P	12	NO	NOT STAINLESS STEEL	SA312 GR TP304L SMLS	RESISTANT MATL
DBB1132-FW-5	P-P	12	NO	NOT STAINLESS STEEL	SA312 GR TP304L SMLS	RESISTANT MATL
DCA1071-FW-1	E-P	12	YES	SA312 GR TP304L SMLS	SA312 GR TP304L SMLS	RESISTANT MATL
DCA1071-FW-2	P-E	12	YES	SA312 GR TP304L SMLS	SA403 GR WP304L	RESISTANT MATL
DCA1071-FW-3	V-V	12	YES	SA351 CF8M CAST	SA351 CF8M CAST	RESISTANT MATL
DCA1071-FW-4	V-E	12	YES	SA351 CF8M CAST	SA403 GR WP304L	RESISTANT MATL
DCA1071-FW-5	RED-SE EXT	10	YES	SA403 GR WP304L	SA336 CL F8 .035% C MAX	RESISTANT MATL
DCA1071-FW-6	P-V	12	YES	SA312 GR TP304L SMLS	SA351 CF8M CAST	RESISTANT MATL
DCA1071-1-A	E-P	12	YES	SA403 GR WP304L	SA312 GR TP304L SMLS	RESISTANT MATL
DCA1071-1-B	P-E	12	YES	SA312 GR TP304L SMLS	SA403 GR WP304L	RESISTANT MATL
DCA1071-1-D	E-P	12	YES	SA403 GR WP304L	SA312 GR TP304L SMLS	RESISTANT MATL
DCA1071-2-A	E-P	12	YES	SA403 GR WP304L	SA312 GR TP304L SMLS	RESISTANT MATL
DCA1071-2-B	P-RED	12	YES	SA312 GR TP304L SMLS	SA403 GR WP304L	RESISTANT MATL
DCA1072-FW-1	E-P	12	YES	SA312 GR TP304L SMLS	SA312 GR TP304L SMLS	RESISTANT MATL
DCA1072-FW-2	P-E	12	YES	SA312 GR TP304L SMLS	SA403 GR WP304L	RESISTANT MATL
DCA1072-FW-4	V-E	12	YES	SA351 CF8M CAST	SA403 GR WP304L	RESISTANT MATL
DCA1072-FW-5	RED-SE EXT	10	YES	SA403 GR WP304L	SA336 CL F8 .035% C MAX	RESISTANT MATL
DCA1072-FW-6	P-V	12	YES	SA312 GR TP304L SMLS	SA351 CF8M CAST	RESISTANT MATL
DCA1072-FW-7	V-V	12	YES	SA351 CF8M CAST	SA351 CF8M CAST	RESISTANT MATL
DCA1072-1-A	E-P	12	YES	SA403 GR WP304L	SA312 GR TP304L SMLS	RESISTANT MATL
DCA1072-1-B	P-E	12	YES	SA312 GR TP304L SMLS	SA403 GR WP304L	RESISTANT MATL
DCA1072-1-D	E-P	12	YES	SA403 GR WP304L	SA312 GR TP304L SMLS	RESISTANT MATL
DCA1072-2-A	E-P	12	YES	SA403 GR WP304L	SA312 GR TP304L SMLS	RESISTANT MATL
DCA1072-2-B	P-RED	12	YES	SA312 GR TP304L SMLS	SA403 GR WP304L	RESISTANT MATL
DCA1091-FW-1	P-V	12	NO	SA312 GR TP304L SMLS	SA351 CF8M CAST	RESISTANT MATL
DCA1091-1-C	P-E	12	YES	SA312 GR TP304L SMLS	SA403 GR WP304L	RESISTANT MATL
DCA1091-1-D	E-P	12	YES	SA403 GR WP304L	SA312 GR TP304L SMLS	RESISTANT MATL
DCA1092-FW-1	P-V	12	NO	SA312 GR TP304L SMLS	SA351 CF8M CAST	RESISTANT MATL
DCA1092-1-C	P-E	12	YES	SA312 GR TP304L SMLS	SA403 GR WP304L	RESISTANT MATL

WELD NUMBER	RESP85	RESP86	REFA87	RESP89	SCHEDULED FOR FUTURE EXAM	REMARKS
DBB1131-1B-C	X					
DBB1132-FW-5				X		
DCA1071-FW-1						
DCA1071-FW-2						
DCA1071-FW-3						
DCA1071-FW-4						
DCA1071-FW-5	X					
DCA1071-FW-6						
DCA1071-1-A						
DCA1071-1-B	X					
DCA1071-1-D						
DCA1071-2-A						
DCA1071-2-B		X				
DCA1072-FW-1						
DCA1072-FW-2						
DCA1072-FW-4						
DCA1072-FW-5			X			
DCA1072-FW-6						
DCA1072-FW-7						
DCA1072-1-A				X		
DCA1072-1-B						
DCA1072-1-D						
DCA1072-2-A					X	
DCA1072-2-B						
DCA1091-FW-1		X				
DCA1091-1-C						
DCA1091-1-D					X	
DCA1092-FW-1		X				
DCA1092-1-C						

****
GENERIC LETTER 88-01 WELD EVALUATION
IGSCC WELD CATEGORY A
CORE SPRAY
****

WELD ID NUMBER	CONF	DIAMETER	INSIDE CONTAINMENT ?	MATERIAL UPSTREAM	MATERIAL DOWNSTREAM	REASON FOR CLASSIFICATION
DCA1092-1-D	E-P	12	YES	SA403 GR WP304L	SA312 GR TP304L SMLS	RESISTANT MATL

WELD NUMBER	RESP85	RESP86	REFA87	RESP89	SCHEDULED FOR FUTURE EXAM	REMARKS
DCA1092-1-D						

****
GENERIC LETTER 88-01 WELD EVALUATION
IGSCC WELD CATEGORY A
REACTOR PRESSURE VESSEL
****

WELD ID NUMBER	CONF	DIAMETER	INSIDE CONTAINMENT ?	MATERIAL UPSTREAM	MATERIAL DOWNSTREAM	REASON FOR CLASSIFICATION
N8A PEN SEAL A WELD	ASSEMBLY WELD	4.560	YES	SA182 304L	SA336 CL F8 .035% C MAX	RESISTANT MATL
N8B PEN SEAL A WELD	ASSEMBLY WELD	4.560	YES	SA182 304L	SA336 CL F8 .035% C MAX	RESISTANT MATL

WELD NUMBER	RESP85	RESP86	REFA87	RESP89	SCHEDULED FOR FUTURE EXAM	REMARKS
N8A PEN SEAL A WELD						
N8B PEN SEAL A WELD						

****
GENERIC LETTER 88-01 WELD EVALUATION
IGSCC WELD CATEGORY A
REACTOR RECIRCULATION
****

WELD ID NUMBER	CONF	DIAMETER	INSIDE CONTAINMENT ?	MATERIAL UPSTREAM	MATERIAL DOWNSTREAM	REASON FOR CLASSIFICATION
DCA1411-FW-2	P-T	4	YES	SA358 TP304L CL1	SA403 GR WP304L	RESISTANT MATL
DCA1411-1-A	P-E	4	YES	SA358 TP304L CL1	SA403 GR WP304L	RESISTANT MATL
DCA1411-1-B	E-P	4	YES	SA403 GR WP304L	SA358 TP304L CL1	RESISTANT MATL
DCA1411-3-A	T-P	4	YES	SA403 GR WP304L	SA358 TP304L CL1	RESISTANT MATL
DCA1411-3-B	P-FL	4	YES	SA358 TP304L CL1	SA182 GR F316L FORGED	RESISTANT MATL
DCA1411-3-C	P-E	4	YES	SA358 TP304L CL1	SA403 GR WP304L	RESISTANT MATL
DCA1411-3-D	T-P	4	YES	SA403 GR WP304L	SA358 TP304L CL1	RESISTANT MATL
DCA1421-FW-2	P-T	4	YES	SA358 TP304L CL1	SA403 GR WP304L	RESISTANT MATL
DCA1421-1-A	P-E	4	YES	SA358 TP304L CL1	SA403 GR WP304L	RESISTANT MATL
DCA1421-1-B	E-P	4	YES	SA403 GR WP304L	SA358 TP304L CL1	RESISTANT MATL
DCA1421-3-A	P-FL	4	YES	SA358 TP304L CL1	SA182 GR F316L FORGED	RESISTANT MATL
DCA1421-3-B	T-P	4	YES	SA403 GR WP304L	SA358 TP304L CL1	RESISTANT MATL
DCA1421-3-C	P-E	4	YES	SA358 TP304L CL1	SA403 GR WP304L	RESISTANT MATL
DCA1421-3-D	T-P	4	YES	SA403 GR WP304L	SA358 TP304L CL1	RESISTANT MATL
VRRB311-FW-A10M	P-P	12	YES	SA376 TP304 SMLS	SA376 TP304 SMLS	CRC/IHSI
VRRB311-FW-A11M	P-P	12	YES	SA376 TP304 SMLS	SA376 TP304 SMLS	CRC/IHSI
VRRB311-FW-A12M	P-P	12	YES	SA376 TP304 SMLS	SA376 TP304 SMLS	CRC/IHSI
VRRB311-FW-A13M	P-P	12	YES	SA376 TP304 SMLS	SA376 TP304 SMLS	CRC/IHSI
VRRB311-FW-A14M	P-P	12	YES	SA376 TP304 SMLS	SA376 TP304 SMLS	CRC/IHSI
VRRB311-FW-A15M	P-SE	12	YES	SA376 TP304 SMLS	SA182 GR F316L FORGED	CRC
VRRB311-FW-A16M	P-SE	12	YES	SA376 TP304 SMLS	SA182 GR F316L FORGED	CRC
VRRB311-FW-A17M	P-SE	12	YES	SA376 TP304 SMLS	SA182 GR F316L FORGED	CRC
VRRB311-FW-A18M	P-SE	12	YES	SA376 TP304 SMLS	SA182 GR F316L FORGED	CRC
VRRB311-FW-A19M	P-SE	12	YES	SA376 TP304 SMLS	SA182 GR F316L FORGED	CRC
VRRB311-FW-A23	E-V	4	YES	SA403 GR WP304L	SA351 CF8M CAST	RESISTANT MATL
VRRB311-3-1-G	P-SWOL	12	YES	SA358 GR304 CL1	SA403 GR WP304	SHT/IHSI
VRRB311-3-1-H	P-SWOL	12	YES	SA358 GR304 CL1	SA403 GR WP304	SHT/IHSI
VRRB311-3-1-J	P-CP	22	YES	SA358 GR304 CL1	SA403 GR WP304	SHT/IHSI
VRRB311-3-2-A	P-CP	22	YES	SA358 GR304 CL1	SA403 GR WP304	SHT/IHSI

WELD NUMBER	RESP85	RESP86	REFA87	RESP89	SCHEDULED FOR FUTURE EXAM	REMARKS
DCA1411-FW-2			X			
DCA1411-1-A	X					
DCA1411-1-B						
DCA1411-3-A						
DCA1411-3-B						
DCA1411-3-C	X					
DCA1411-3-D						
DCA1421-FW-2						
DCA1421-1-A						
DCA1421-1-B			X			
DCA1421-3-A						
DCA1421-3-B						
DCA1421-3-C	X					
DCA1421-3-D						
VRRB311-FW-A10M	X					
VRRB311-FW-A11M	X					
VRRB311-FW-A12M	X					
VRRB311-FW-A13M	X					
VRRB311-FW-A14M	X					
VRRB311-FW-A15M						
VRRB311-FW-A16M						
VRRB311-FW-A17M						
VRRB311-FW-A18M						
VRRB311-FW-A19M			X			
VRRB311-FW-A23						
VRRB311-3-1-G				X		
VRRB311-3-1-H	X					
VRRB311-3-1-J	X					
VRRB311-3-2-A	X					

****
GENERIC LETTER 88-01 WELD EVALUATION
IGSCC WELD CATEGORY A
REACTOR RECIRCULATION
****

WELD ID NUMBER	CONF	DIAMETER	INSIDE CONTAINMENT ?	MATERIAL UPSTREAM	MATERIAL DOWNSTREAM	REASON FOR CLASSIFICATION
VRRB311-3-2-B	P-SWOL	12	YES	SA358 GR304 CL1	SA403 GR WP304	SHT/IHSI
VRRB311-3-2-C	P-SWOL	12	YES	SA358 GR304 CL1	SA403 GR WP304	SHT/IHSI
VRRB311-3-2-D	CR-P	22	YES	SA403 GR WP304	SA358 GR304 CL1	SHT/IHSI
VRRB311-3-2-E	CR-RED	28	YES	SA403 GR WP304W	SA403 GR WP304W	SHT/IHSI
VRRB311-4-A	E-P	12	YES	SA403 GR WP304	SA376 TP304 SMLS	SHT
VRRB311-4-B	P-E	12	YES	SA376 TP304 SMLS	SA403 GR WP304	SHT
VRRB311-5-A	E-P	12	YES	SA403 GR WP304	SA376 TP304 SMLS	SHT
VRRB311-5-B	P-E	12	YES	SA376 TP304 SMLS	SA403 GR WP304	SHT
VRRB311-6-A	E-P	12	YES	SA403 GR WP304	SA376 TP304 SMLS	SHT
VRRB311-6-B	P-E	12	YES	SA376 TP304 SMLS	SA403 GR WP304	SHT
VRRB311-7-A	E-P	12	YES	SA403 GR WP304	SA376 TP304 SMLS	SHT
VRRB311-7-B	P-E	12	YES	SA376 TP304 SMLS	SA403 GR WP304	SHT
VRRB311-8-A	E-P	12	YES	SA403 GR WP304	SA376 TP304 SMLS	SHT
VRRB311-8-B	P-E	12	YES	SA376 TP304 SMLS	SA403 GR WP304	SHT
VRRB312-FW-B10M	P-P	12	YES	SA376 TP304 SMLS	SA376 TP304 SMLS	CRC/IHSI
VRRB312-FW-B11M	P-P	12	YES	SA376 TP304 SMLS	SA376 TP304 SMLS	CRC/IHSI
VRRB312-FW-B12M	P-P	12	YES	SA376 TP304 SMLS	SA376 TP304 SMLS	CRC/IHSI
VRRB312-FW-B13M	P-P	12	YES	SA376 TP304 SMLS	SA376 TP304 SMLS	CRC/IHSI
VRRB312-FW-B14M	P-P	12	YES	SA376 TP304 SMLS	SA376 TP304 SMLS	CRC/IHSI
VRRB312-FW-B15M	P-SE	12	YES	SA376 TP304 SMLS	SA182 GR F316L FORGED	CRC
VRRB312-FW-B16M	P-SE	12	YES	SA376 TP304 SMLS	SA182 GR F316L FORGED	CRC
VRRB312-FW-B17M	P-SE	12	YES	SA376 TP304 SMLS	SA182 GR F316L FORGED	CRC
VRRB312-FW-B18M	P-SE	12	YES	SA376 TP304 SMLS	SA182 GR F316L FORGED	CRC
VRRB312-FW-B19M	P-SE	12	YES	SA376 TP304 SMLS	SA182 GR F316L FORGED	CRC
VRRB312-FW-B23	E-V	4	YES	SA403 GR WP304L	SA351 CF8M CAST	RESISTANT MATL
VRRB312-4-A	E-P	12	YES	SA403 GR WP304	SA376 TP304 SMLS	SHT
VRRB312-4-B	P-E	12	YES	SA376 TP304 SMLS	SA403 GR WP304	SHT
VRRB312-5-A	E-P	12	YES	SA403 GR WP304	SA376 TP304 SMLS	SHT
VRRB312-5-B	P-E	12	YES	SA376 TP304 SMLS	SA403 GR WP304	SHT

WELD NUMBER	RESP85	RESP86	REFA87	RESP89	SCHEDULED FOR FUTURE EXAM	REMARKS
VRRB311-3-2-B	X					
VRRB311-3-2-C	X					
VRRB311-3-2-D					X	
VRRB311-3-2-E				X		
VRRB311-4-A						
VRRB311-4-B						
VRRB311-5-A						
VRRB311-5-B			X			
VRRB311-6-A				X		
VRRB311-6-B						
VRRB311-7-A				X		
VRRB311-7-B						
VRRB311-8-A						
VRRB311-8-B						
VRRB312-FW-B10M	X					
VRRB312-FW-B11M	X					
VRRB312-FW-B12M	X					
VRRB312-FW-B13M	X					
VRRB312-FW-B14M	X					
VRRB312-FW-B15M				X		
VRRB312-FW-B16M						
VRRB312-FW-B17M						
VRRB312-FW-B18M						
VRRB312-FW-B19M						
VRRB312-FW-B23						
VRRB312-4-A						
VRRB312-4-B						
VRRB312-5-A					X	
VRRB312-5-B						

****
GENERIC LETTER 88-01 WELD EVALUATION
IGSCC WELD CATEGORY A
REACTOR RECIRCULATION
****

WELD ID NUMBER	CONF	DIAMETER	INSIDE CONTAINMENT ?	MATERIAL UPSTREAM	MATERIAL DOWNSTREAM	REASON FOR CLASSIFICATION
VRRB312-6-A	E-P	12	YES	SA403 GR WP304	SA376 TP304 SMLS	SHT
VRRB312-6-B	P-E	12	YES	SA376 TP304 SMLS	SA403 GR WP304	SHT
VRRB312-7-A	E-P	12	YES	SA403 GR WP304	SA376 TP304 SMLS	SHT
VRRB312-7-B	P-E	12	YES	SA376 TP304 SMLS	SA403 GR WP304	SHT
VRRB312-8-A	E-P	12	YES	SA403 GR WP304	SA376 TP304 SMLS	SHT
VRRB312-8-B	P-E	12	YES	SA376 TP304 SMLS	SA403 GR WP304	SHT
VRRB312-9-1-G	P-SWOL	12	YES	SA358 GR304 CL1	SA403 GR WP304	SHT/IHSI
VRRB312-9-1-H	P-SWOL	12	YES	SA358 GR304 CL1	SA403 GR WP304	SHT/IHSI
VRRB312-9-1-J	P-CP	22	YES	SA358 GR304 CL1	SA403 GR WP304	SHT/IHSI
VRRB312-9-2-A	P-CP	22	YES	SA358 GR304 CL1	SA403 GR WP304	SHT/IHSI
VRRB312-9-2-B	P-SWOL	12	YES	SA358 GR304 CL1	SA403 GR WP304	SHT/IHSI
VRRB312-9-2-C	P-SWOL	12	YES	SA358 GR304 CL1	SA403 GR WP304	SHT/IHSI
VRRB312-9-2-D	CR-P	22	YES	SA403 GR WP304	SA358 GR304 CL1	SHT/IHSI
VRRB312-9-2-E	CR-RED	28	YES	SA403 GR WP304W	SA403 GR WP304W	SHT/IHSI

WELD NUMBER	RESP85	RESP86	REFA87	RESP89	SCHEDULED FOR FUTURE EXAM	REMARKS
VRRB312-6-A					X	
VRRB312-6-B					X	
VRRB312-7-A						
VRRB312-7-B						
VRRB312-8-A						
VRRB312-8-B						
VRRB312-9-1-G	X					
VRRB312-9-1-H	X				X	
VRRB312-9-1-J	X					
VRRB312-9-2-A	X					
VRRB312-9-2-B						
VRRB312-9-2-C	X	X				
VRRB312-9-2-D	X					
VRRB312-9-2-E	X					

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GENERIC LETTER 88-01 WELD EVALUATION
IGSCC WELD CATEGORY A
REACTOR WATER CLEANUP
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WELD ID NUMBER	CONF	DIAMETER	INSIDE CONTAINMENT ?	MATERIAL UPSTREAM	MATERIAL DOWNSTREAM	REASON FOR CLASSIFICATION
DCA1021-FW-2	P-P	4	YES	SA312 GR TP304L SMLS	SA312 GR TP304L SMLS	RESISTANT MATL
DCA1021-FW-6	E-P	4	NO	SA403 GR WP304L	SA312 GR TP304L SMLS	RESISTANT MATL
DCA1021-FW-8	P-P	4	YES	SA312 GR TP304L SMLS	SA312 GR TP304L SMLS	RESISTANT MATL
DCA1021-1-A	RED-T	4	YES	SA403 GR WP304L	SA403 GR WP304L	RESISTANT MATL
DCA1021-1-B	T-P	4	YES	SA403 GR WP304L	SA312 GR TP304L SMLS	RESISTANT MATL
DCA1021-1-C	P-E	4	YES	SA312 GR TP304L SMLS	SA403 GR WP304L	RESISTANT MATL
DCA1021-1-D	E-P	4	YES	SA403 GR WP304L	SA312 GR TP304L SMLS	RESISTANT MATL
DCA1021-1A-E	P-E	4	YES	SA312 GR TP304L SMLS	SA403 GR WP304L	RESISTANT MATL
DCA1021-1A-F	E-E	4	YES	SA403 GR WP304L	SA403 GR WP304L	RESISTANT MATL
DCA1021-1A-G	E-P	4	YES	SA403 GR WP304L	SA312 GR TP304L SMLS	RESISTANT MATL
DCA1021-1A-H	P-E	4	YES	SA312 GR TP304L SMLS	SA403 GR WP304L	RESISTANT MATL
DCA1022-FW-2	P-P	4	YES	SA312 GR TP304L SMLS	SA312 GR TP304L SMLS	RESISTANT MATL
DCA1022-FW-6	P-P	4	YES	SA312 GR TP304L SMLS	NOT STAINLESS STEEL	RESISTANT MATL
DCA1022-1-A	RED-T	4	YES	SA403 GR WP304L	SA403 GR WP304L	RESISTANT MATL
DCA1022-1-B	T-P	4	YES	SA403 GR WP304L	SA312 GR TP304L SMLS	RESISTANT MATL
DCA1022-1-C	P-E	4	YES	SA312 GR TP304L SMLS	SA403 GR WP304L	RESISTANT MATL
DCA1022-1-D	E-P	4	YES	SA403 GR WP304L	SA312 GR TP304L SMLS	RESISTANT MATL
DCA1022-1-E	P-E	4	YES	SA312 GR TP304L SMLS	SA403 GR WP304L	RESISTANT MATL
DCA1022-1-F	E-P	4	YES	SA403 GR WP304L	SA312 GR TP304L SMLS	RESISTANT MATL
DCA1022-1-G	P-E	4	YES	SA312 GR TP304L SMLS	SA403 GR WP304L	RESISTANT MATL
DCA1022-1-H	E-P	4	YES	SA403 GR WP304L	SA312 GR TP304L SMLS	RESISTANT MATL
DCA1022-1A-J	P-E	4	YES	SA312 GR TP304L SMLS	SA403 GR WP304L	RESISTANT MATL
DCA1022-1A-K	E-P	4	YES	SA403 GR WP304L	SA312 GR TP304L SMLS	RESISTANT MATL
DCA1031-FW-1	P-E	4	YES	SA312 GR TP304L SMLS	SA403 GR WP304L	RESISTANT MATL
DCA1031-FW-10	E-E	4	YES	SA403 GR WP304L	SA403 GR WP304L	RESISTANT MATL
DCA1031-FW-16	P-P	4	YES	SA182 GR F316L FORGED	SA312 GR TP304L SMLS	RESISTANT MATL
DCA1031-FW-2	E-P	4	YES	SA403 GR WP304L	SA312 GR TP304L SMLS	RESISTANT MATL
DCA1031-FW-22	E-P	4	YES	SA403 GR WP304L	SA312 GR TP304L SMLS	RESISTANT MATL
DCA1031-FW-23	P-E	4	YES	SA312 GR TP304L SMLS	SA403 GR WP304L	RESISTANT MATL

WELD NUMBER	RESP85	RESP86	REFA87	RESP89	SCHEDULED FOR FUTURE EXAM	REMARKS
DCA1021-FW-2						
DCA1021-FW-6						
DCA1021-FW-8	X					
DCA1021-1-A						
DCA1021-1-B						
DCA1021-1-C						
DCA1021-1-D				X		
DCA1021-1A-E				X		
DCA1021-1A-F						
DCA1021-1A-G						
DCA1021-1A-H				X		
DCA1022-FW-2						
DCA1022-FW-6			X			
DCA1022-1-A						
DCA1022-1-B						
DCA1022-1-C				X		
DCA1022-1-D						
DCA1022-1-E					X	
DCA1022-1-F					X	
DCA1022-1-G						
DCA1022-1-H						
DCA1022-1A-J					X	
DCA1022-1A-K						
DCA1031-FW-1						
DCA1031-FW-10					X	
DCA1031-FW-16					X	
DCA1031-FW-2						
DCA1031-FW-22						
DCA1031-FW-23						

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GENERIC LETTER 88-01 WELD EVALUATION
IGSCC WELD CATEGORY A
REACTOR WATER CLEANUP
****

WELD ID NUMBER	CONF	DIAMETER	INSIDE CONTAINMENT ?	MATERIAL UPSTREAM	MATERIAL DOWNSTREAM	REASON FOR CLASSIFICATION
DCA1031-FW-24	E-P	4	YES	SA403 GR WP304L	SA312 GR TP304L SMLS	RESISTANT MATL
DCA1031-FW-25	P-E	4	YES	SA312 GR TP304L SMLS	SA403 GR WP304L	RESISTANT MATL
DCA1031-FW-26	E-P	4	YES	SA403 GR WP304L	SA312 GR TP304L SMLS	RESISTANT MATL
DCA1031-FW-27	P-E	4	YES	SA312 GR TP304L SMLS	SA403 GR WP304L	RESISTANT MATL
DCA1031-FW-28	E-P	4	YES	SA403 GR WP304L	SA312 GR TP304L SMLS	RESISTANT MATL
DCA1031-FW-29	P-E	4	YES	SA312 GR TP304L SMLS	SA403 GR WP304L	RESISTANT MATL
DCA1031-FW-41	P-T	4	YES	SA312 GR TP304L SMLS	SA403 GR WP304L	RESISTANT MATL
DCA1031-FW-48	E-P	4	YES	SA403 GR WP304L	SA312 GR TP304L SMLS	RESISTANT MATL
DCA1031-FW-49	P-E	4	YES	SA312 GR TP304L SMLS	SA403 GR WP304L	RESISTANT MATL
DCA1031-FW-5	P-E	4	YES	SA312 GR TP304L SMLS	SA403 GR WP304L	RESISTANT MATL
DCA1031-FW-50	P-P	4	YES	SA312 GR TP304L SMLS	SA312 GR TP304L SMLS	RESISTANT MATL
DCA1031-FW-6	E-P	4	YES	SA403 GR WP304L	SA312 GR TP304L SMLS	RESISTANT MATL
DCA1031-FW-60	P-T	4	YES	SA182 GR F316L FORGED	NOT STAINLESS STEEL	RESISTANT MATL
DCA1031-FW-7	P-E	4	YES	SA312 GR TP304L SMLS	SA403 GR WP304L	RESISTANT MATL
DCA1031-FW-8	E-P	4	YES	SA403 GR WP304L	SA312 GR TP304L SMLS	RESISTANT MATL

WELD NUMBER	RESP85	RESP86	REFA87	RESP89	SCHEDULED FOR FUTURE EXAM	REMARKS
DCA1031-FW-24						
DCA1031-FW-25						
DCA1031-FW-26						
DCA1031-FW-27					X	
DCA1031-FW-28						
DCA1031-FW-29						
DCA1031-FW-41					X	
DCA1031-FW-48						
DCA1031-FW-49					X	
DCA1031-FW-5						
DCA1031-FW-50						
DCA1031-FW-6					X	
DCA1031-FW-60					X	
DCA1031-FW-7						
DCA1031-FW-8						

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GENERIC LETTER 88-01 WELD EVALUATION
IGSCC WELD CATEGORY A
RESIDUAL HEAT REMOVAL
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WELD ID NUMBER	CONF	DIAMETER	INSIDE CONTAINMENT ?	MATERIAL UPSTREAM	MATERIAL DOWNSTREAM	REASON FOR CLASSIFICATION
DCA1111-FW-1	P-V	6	YES	SA358 TP304L CL1	SA351 CF8M CAST	RESISTANT MATL
DCA1111-FW-2	V-P	6	YES	SA351 CF8M CAST	SA358 TP304L CL1	RESISTANT MATL
DCA1111-FW-3	E-E	6	YES	SA403 GR WP304L	SA403 GR WP304L	RESISTANT MATL
DCA1111-FW-4	P-E	6	YES	SA358 TP304L CL1	SA403 GR WP304L	RESISTANT MATL
DCA1111-FW-5	P-P	6	YES	SA358 TP304L CL1	SA358 TP304L CL1	RESISTANT MATL
DCA1111-FW-6	P-E	6	YES	SA358 TP304L CL1	SA403 GR WP304L	RESISTANT MATL
DCA1111-FW-7	E-P	6	YES	SA403 GR WP304L	SA358 TP304L CL1	RESISTANT MATL
DCA1111-FW-8	E-P	6	YES	SA403 GR WP304L	SA358 TP304L CL1	RESISTANT MATL
DCA1111-1-A	P-E	6	YES	SA358 TP304L CL1	SA403 GR WP304L	RESISTANT MATL
DCA1111-1-B	E-P	6	YES	SA403 GR WP304L	SA358 TP304L CL1	RESISTANT MATL
DCA1111-1-C	P-E	6	YES	SA358 TP304L CL1	SA403 GR WP304L	RESISTANT MATL
DCA1111-1-E	P-E	6	YES	SA312 GR TP304L SMLS	SA403 GR WP304L	RESISTANT MATL
DCA1111-1-F	E-P	6	YES	SA403 GR WP304L	SA312 GR TP304L SMLS	RESISTANT MATL
DCA1111-1-G	P-E	6	YES	SA312 GR TP304L SMLS	SA403 GR WP304L	RESISTANT MATL
DCA1111-2-A	E-P	6	YES	SA403 GR WP304L	SA358 TP304L CL1	RESISTANT MATL
DCA1111-3-A	E-E	6	YES	SA403 GR WP304L	SA403 GR WP304L	RESISTANT MATL
DCA1111-3-B	E-P	6	YES	SA403 GR WP304L	SA358 TP304L CL1	RESISTANT MATL
DCA1111-4-D	E-P	6	YES	SA403 GR WP304L	SA312 GR TP304L SMLS	RESISTANT MATL
DCA1111-4-E	P-E	6	YES	SA312 GR TP304L SMLS	SA403 GR WP304L	RESISTANT MATL
DCA1111-5-A	P-E	6	YES	SA358 TP304L CL1	SA403 GR WP304L	RESISTANT MATL
DCA1111-5-B	E-P	6	YES	SA403 GR WP304L	SA358 TP304L CL1	RESISTANT MATL
DCA1112-FW-1	P-E	6	YES	SA358 TP304L CL1	SA403 GR WP304L	RESISTANT MATL
DCA1112-FW-10	P-E	6	YES	SA358 TP304L CL1	SA403 GR WP304L	RESISTANT MATL
DCA1112-FW-11	E-P	6	YES	SA403 GR WP304L	SA358 TP304L CL1	RESISTANT MATL
DCA1112-FW-13	V-P	6	YES	SA351 CF8M CAST	SA358 TP304L CL1	RESISTANT MATL
DCA1112-FW-14	FL-E	6	YES	SA182 GR F316L FORGED	SA403 GR WP304L	RESISTANT MATL
DCA1112-FW-16	P-FL	6	YES	SA358 TP304L CL1	SA182 GR F316L FORGED	RESISTANT MATL
DCA1112-FW-17	FL-P	6	YES	SA182 GR F316L FORGED	SA358 TP304L CL1	RESISTANT MATL
DCA1112-FW-18	E-FL	6	YES	SA403 GR WP304L	NOT STAINLESS STEEL	RESISTANT MATL

WELD NUMBER	RESP85	RESP86	REFA87	RESP89	SCHEDULED FOR FUTURE EXAM	REMARKS
DCA1111-FW-1						
DCA1111-FW-2		X				
DCA1111-FW-3						
DCA1111-FW-4			X			
DCA1111-FW-5						
DCA1111-FW-6						
DCA1111-FW-7						
DCA1111-FW-8			X			
DCA1111-1-A						
DCA1111-1-B						
DCA1111-1-C						
DCA1111-1-E						
DCA1111-1-F						
DCA1111-1-G						
DCA1111-2-A						
DCA1111-3-A						
DCA1111-3-B						
DCA1111-4-D						
DCA1111-4-E						
DCA1111-5-A						
DCA1111-5-B						
DCA1112-FW-1						
DCA1112-FW-10						
DCA1112-FW-11						
DCA1112-FW-13						
DCA1112-FW-14				X		
DCA1112-FW-16				X		
DCA1112-FW-17						
DCA1112-FW-18					X	

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GENERIC LETTER 88-01 WELD EVALUATION
IGSCC WELD CATEGORY A
RESIDUAL HEAT REMOVAL
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WELD ID NUMBER	CONF	DIAMETER	INSIDE CONTAINMENT ?	MATERIAL UPSTREAM	MATERIAL DOWNSTREAM	REASON FOR CLASSIFICATION
DCA1112-FW-2	E-E	6	YES	SA403 GR WP304L	SA403 GR WP304L	RESISTANT MATL
DCA1112-FW-3	E-P	6	YES	SA403 GR WP304L	SA358 TP304L CL1	RESISTANT MATL
DCA1112-FW-4	E-P	6	YES	SA403 GR WP304L	SA358 TP304L CL1	RESISTANT MATL
DCA1112-FW-5	P-V	6	YES	SA358 TP304L CL1	SA351 CF8M CAST	RESISTANT MATL
DCA1112-FW-9	P-E	6	YES	SA358 TP304L CL1	SA403 GR WP304L	RESISTANT MATL
DCA1112-1-A	E-P	6	YES	SA403 GR WP304L	SA358 TP304L CL1	RESISTANT MATL
DCA1112-1-B	P-E	6	YES	SA358 TP304L CL1	SA403 GR WP304L	RESISTANT MATL
DCA1112-2-A	E-P	6	YES	SA403 GR WP304L	SA358 TP304L CL1	RESISTANT MATL
DCA1112-2-B	P-PB	6	YES	SA358 TP304L CL1	SA403 GR WP304L	RESISTANT MATL
DCA1112-3-A	P-FL	6	YES	SA358 TP304L CL1	SA182 GR F316L FORGED	RESISTANT MATL
DCA1112-4-B	P-E	6	YES	SA358 TP304L CL1	SA403 GR WP304L	RESISTANT MATL
DCA1112-4-C	E-P	6	YES	SA403 GR WP304L	SA358 TP304L CL1	RESISTANT MATL
DCB1021-FW-5	E-P	6	YES	SA403 GR WP304L	SA358 TP304L CL1	RESISTANT MATL
DCB1021-FW-6	E-P	6	YES	SA403 GR WP304L	SA358 TP304L CL1	RESISTANT MATL
DCB1021-1-D	P-E	6	YES	SA358 TP304L CL1	SA403 GR WP304L	RESISTANT MATL
DCB1021-1-F	P-E	6	YES	SA358 TP304L CL1	SA403 GR WP304L	RESISTANT MATL
DCB1021-1-G	E-P	6	YES	SA403 GR WP304L	SA358 TP304L CL1	RESISTANT MATL
DCB1021-2-A	E-P	6	YES	SA403 GR WP304L	SA358 TP304L CL1	RESISTANT MATL
DCB1021-2-B	P-E	6	YES	SA358 TP304L CL1	SA403 GR WP304L	RESISTANT MATL
HBB1202-FW-11	F-FL	10	NO	NOT STAINLESS STEEL	SA182 GR F316L FORGED	RESISTANT MATL
HBB1202-FW-12	FL-P	10	NO	SA182 GR F316L FORGED	NOT STAINLESS STEEL	RESISTANT MATL
HBB1203-FW-10	FL-P	10	NO	SA182 GR F316L FORGED	NOT STAINLESS STEEL	RESISTANT MATL
HBB1203-FW-9	P-FL	10	NO	NOT STAINLESS STEEL	SA182 GR F316L FORGED	RESISTANT MATL

WELD NUMBER	RESP85	RESP86	REFA87	RESP89	SCHEDULED FOR FUTURE EXAM	REMARKS
DCA1112-FW-2						
DCA1112-FW-3						
DCA1112-FW-4						
DCA1112-FW-5					X	
DCA1112-FW-9					X	
DCA1112-1-A					X	
DCA1112-1-B						
DCA1112-2-A						
DCA1112-2-B					X	
DCA1112-3-A					X	
DCA1112-4-B						
DCA1112-4-C						
DCB1021-FW-5						
DCB1021-FW-6						
DCB1021-1-D						
DCB1021-1-F						
DCB1021-1-G						
DCB1021-2-A				X		
DCB1021-2-B						
HBB1202-FW-11						
HBB1202-FW-12						
HBB1203-FW-10						
HBB1203-FW-9						

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SUSQUEHANNA STEAM ELECTRIC STATION UNIT #1

NUMBER OF IGSCC CATEGORY B WELDS = 109

NUMBER OF IGSCC CATEGORY B WELDS
REQUIRED TO BE EXAMINED IN TEN YEARS = 55

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NOTES:

(1) IGSCC CATEGORY B WELDMENTS ARE THOSE NOT MADE OF RESISTANT MATERIALS BUT HAVE HAD AN SI PERFORMED EITHER BEFORE SERVICE OR WITHIN TWO YEARS OF OPERATION. IF AFTER PLANT OPERATION, A UT EXAM AFTER SI IS REQUIRED. ALL WELDS INCLUDED IN IGSCC CATEGORY B ARE IN ACCORDANCE WITH NRC STAFF POSITIONS ON PROCESSES.

(2) IHSI PERFORMED ON UNIT #1 DURING THE FIRST REFUELING OUTAGE - SPRING 1985. IHSI PERFORMED WITHIN 2 YEARS OF COMMERCIAL OPERATION - COMMERCIAL OPERATION DATE FOR UNIT #1 IS JUNE 8, 1983.

(3) THE FOLLOWING ABBREVIATIONS ARE USED TO DETAIL WELD CONFIGURATION:

P	- PIPE	CP	- CAP
E	- ELBOW	CR	- CROSS
V	- VALVE	PB	- PIPE BEND
RED	- REDUCER	FH	- FLUED HEAD
SWOL	- SWEEPOLET	WOL	- WELDOLET
SE	- SAFE END	PU	- PUMP
T	- TEE	PEN	- PENETRATION
FL	- FLANGE		

(4) THE FOLLOWING APPLIES TO PAST EXAMINATIONS:
- (A) RESP85 - UNIT #1 FIRST REFUELING OUTAGE SPRING 1985
- (B) RESP86 - UNIT #1 SECOND REFUELING OUTAGE SPRING 1986
- (C) REFA87 - UNIT #1 THIRD REFUELING OUTAGE FALL 1987
- (D) RESP89 - UNIT #1 FOURTH REFUELING OUTAGE SPRING 1989

(5) POST-IHSI EXAMINATIONS (RESP85) WERE PERFORMED USING METHODS AND PERSONNEL IN ACCORDANCE WITH IEB 83-02, AS DETAILED IN PPL LETTER TO NRC, PLA-2210 DATED 6/1/84.

(6) ALL INSPECTIONS CONDUCTED AFTER SEPTEMBER, 1985 WERE PERFORMED USING METHODS AND PERSONNEL QUALIFIED UNDER NRC/EPRI/BWROG COORDINATION PLAN AS UPGRADED IN SEPTEMBER, 1985.

(7) FOR ALL VOLUMETRIC EXAMINATIONS PERFORMED TO DATE, NO FLAW INDICATIONS HAVE BEEN DISCOVERED.

(8) ALL WELDS INDICATED AS SCHEDULED FOR FUTURE EXAMINATION WILL BE EXAMINED TO FULFILL ASME SECTION XI ISI AND/OR AUGMENTED ISI PROGRAM REQUIREMENTS PRIOR TO THE END OF THE FIRST ISI 10 YEAR INTERVAL - JUNE 8,1993.

(9) EIGHT (8) WELDS INCLUDED AS CATEGORY B WELDMENTS COULD NOT BE COMPLETELY EXAMINED POST-IHSI DUE TO WELD CONFIGURATION AND/OR PLANT DESIGN. THESE WELDS ARE SO NOTED IN THE REMARKS COLUMN OF THIS REPORT.

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GENERIC LETTER 88-01 WELD EVALUATION
IGSCC WELD CATEGORY B
CORE SPRAY
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WELD ID NUMBER	CONF	DIAMETER	INSIDE CONTAINMENT ?	MATERIAL UPSTREAM	MATERIAL DOWNSTREAM	TREATMENT
DCA1091-FW-2	V-FH	12	NO	SA351 CF8M CAST	SA182 F316	IHSI
DCA1091-FW-4	FH-P	12	YES	SA182 F316	SA312 GR TP304L SMLS	IHSI
DCA1092-FW-2	V-FH	12	NO	SA351 CF8M CAST	SA182 F316	IHSI
DCA1092-FW-4	FH-P	12	YES	SA182 F316	SA312 GR TP304L SMLS	IHSI

WELD NUMBER	RESP85	RESP86	REFA87	RESP89	SCHEDULED FOR FUTURE EXAM	REMARKS
DCA1091-FW-2	X		X			
DCA1091-FW-4	X					
DCA1092-FW-2	X					
DCA1092-FW-4	X	X				

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GENERIC LETTER 88-01 WELD EVALUATION
IGSCC WELD CATEGORY B
REACTOR RECIRCULATION
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WELD ID NUMBER	CONF	DIAMETER	INSIDE CONTAINMENT ?	MATERIAL UPSTREAM	MATERIAL DOWNSTREAM	TREATMENT
VRRB311-FW-A1	SE-P	28	YES	SA336 CL F8	SA358 GR304 CL1	IHSI
VRRB311-FW-A10	SWOL-P	12	YES	SA403 GR WP304	SA376 TP304 SMLS	IHSI
VRRB311-FW-A11	SWOL-P	12	YES	SA403 GR WP304	SA376 TP304 SMLS	IHSI
VRRB311-FW-A12	RED-P	12	YES	SA403 GR WP304	SA376 TP304 SMLS	IHSI
VRRB311-FW-A13	SWOL-P	12	YES	SA403 GR WP304	SA376 TP304 SMLS	IHSI
VRRB311-FW-A14	SWOL-P	12	YES	SA403 GR WP304	SA376 TP304 SMLS	IHSI
VRRB311-FW-A2	P-P	28	YES	SA358 GR304 CL1	SA358 GR304 CL1	IHSI
VRRB311-FW-A20	WOL-P	4	YES	SA182 TP304	SA358 TP304L CL1	IHSI
VRRB311-FW-A24	V-WOL	4	YES	SA351 CF8M CAST	SA182 TP304	IHSI
VRRB311-FW-A3	E-V	28	YES	SA403 GR WP304W	SA351 CF8M CAST	IHSI
VRRB311-FW-A4	V-P	28	YES	SA351 CF8M CAST	SA358 GR304 CL1	IHSI
VRRB311-FW-A5	E-PU	28	YES	SA403 GR WP304W	SA351 CF8M CAST	IHSI
VRRB311-FW-A6	PU-P	28	YES	SA351 CF8M CAST	SA358 GR304 CL1	IHSI
VRRB311-FW-A7	P-V	28	YES	SA358 GR304 CL1	SA351 CF8M CAST	IHSI
VRRB311-FW-A8	V-E	28	YES	SA351 CF8M CAST	SA403 GR WP304W	IHSI
VRRB311-FW-A9	T-CR	28	YES	SA403 GR WP304W	SA403 GR WP304W	IHSI
VRRB311-1-A	P-WOL	4	YES	SA358 GR304 CL1	SA182 TP304	IHSI
VRRB311-10-B	P-E	28	YES	SA358 GR304 CL1	SA403 GR WP304W	IHSI
VRRB311-10-C	P-P	28	YES	SA358 GR304 CL1	SA358 GR304 CL1	IHSI
VRRB311-14-A	P-WOL	4	YES	SA358 GR304 CL1	SA182 TP304	IHSI
VRRB311-14-B	P-WOL	4	YES	SA358 GR304 CL1	SA182 TP304	IHSI
VRRB311-14-D	P-E	28	YES	SA358 GR304 CL1	SA403 GR WP304W	IHSI
VRRB311-14-F	WOL-P	4	YES	SA182 TP304	SA376 TP304 SMLS	IHSI
VRRB311-14-G	P-FL	4	YES	SA376 TP304 SMLS	SA182 F316	IHSI
VRRB311-2-A	E-P	28	YES	SA403 GR WP304W	SA358 GR304 CL1	IHSI
VRRB311-2-B	P-WOL	4	YES	SA358 GR304 CL1	SA182 TP304	IHSI
VRRB311-2-C	P-T	28	YES	SA358 GR304 CL1	SA403 GR WP304W	IHSI
VRRB311-3-F	CR-P	22	YES	SA403 GR WP304	SA358 GR304 CL1	IHSI
VRRB311-9-A	P-E	28	YES	SA358 GR304 CL1	SA403 GR WP304W	IHSI

WELD NUMBER	RESP85	RESP86	REFA87	RESP89	SCHEDULED FOR FUTURE EXAM	REMARKS
VRRB311-FW-A1	X	X				
VRRB311-FW-A10	X	X				
VRRB311-FW-A11	X					
VRRB311-FW-A12	X	X				
VRRB311-FW-A13	X					PARTIAL EXAM 86% C
VRRB311-FW-A14	X				X	
VRRB311-FW-A2	X					
VRRB311-FW-A20	X	X				
VRRB311-FW-A24	X					NO EXAM
VRRB311-FW-A3	X		X			
VRRB311-FW-A4	X	X				
VRRB311-FW-A5	X	X				
VRRB311-FW-A6	X				X	
VRRB311-FW-A7	X					
VRRB311-FW-A8	X					
VRRB311-FW-A9	X				X	
VRRB311-1-A	X		X			
VRRB311-10-B	X					
VRRB311-10-C	X					PARTIAL EXAM 75% C
VRRB311-14-A	X					
VRRB311-14-B	X					
VRRB311-14-D	X					
VRRB311-14-F	X					
VRRB311-14-G	X	X				
VRRB311-2-A	X	X	X			
VRRB311-2-B	X					
VRRB311-2-C	X		X			
VRRB311-3-F	X		X		X	
VRRB311-9-A	X				X	

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GENERIC LETTER 88-01 WELD EVALUATION
IGSCC WELD CATEGORY B
REACTOR RECIRCULATION
****

WELD ID NUMBER	CONF	DIAMETER	INSIDE CONTAINMENT ?	MATERIAL UPSTREAM	MATERIAL DOWNSTREAM	TREATMENT
VRRB311-9-B	E-P	28	YES	SA403 GR WP304W	SA358 GR304 CL1	IHSI
VRRB312-FW-B1	SE-P	28	YES	SA336 CL F8	SA358 GR304 CL1	IHSI
VRRB312-FW-B10	SWOL-P	12	YES	SA403 GR WP304	SA376 TP304 SMLS	IHSI
VRRB312-FW-B11	SWOL-P	12	YES	SA403 GR WP304	SA376 TP304 SMLS	IHSI
VRRB312-FW-B12	RED-P	12	YES	SA403 GR WP304	SA376 TP304 SMLS	IHSI
VRRB312-FW-B13	SWOL-P	12	YES	SA403 GR WP304	SA376 TP304 SMLS	IHSI
VRRB312-FW-B14	SWOL-P	12	YES	SA403 GR WP304	SA376 TP304 SMLS	IHSI
VRRB312-FW-B2	P-T	28	YES	SA358 GR304 CL1	SA403 GR WP304W	IHSI
VRRB312-FW-B20	WOL-P	4	YES	SA182 TP304	SA358 TP304L CL1	IHSI
VRRB312-FW-B24	V-WOL	4	YES	SA351 CF8M CAST	SA182 TP304	IHSI
VRRB312-FW-B3	E-V	28	YES	SA403 GR WP304W	SA351 CF8M CAST	IHSI
VRRB312-FW-B4	V-P	28	YES	SA351 CF8M CAST	SA358 GR304 CL1	IHSI
VRRB312-FW-B5	E-PU	28	YES	SA403 GR WP304W	SA351 CF8M CAST	IHSI
VRRB312-FW-B6	PU-P	28	YES	SA351 CF8M CAST	SA358 GR304 CL1	IHSI
VRRB312-FW-B7	P-V	28	YES	SA358 GR304 CL1	SA351 CF8M CAST	IHSI
VRRB312-FW-B8	V-E	28	YES	SA351 CF8M CAST	SA403 GR WP304W	IHSI
VRRB312-FW-B9	T-CR	28	YES	SA403 GR WP304W	SA403 GR WP304W	IHSI
VRRB312-1-A	P-E	28	YES	SA358 GR304 CL1	SA403 GR WP304W	IHSI
VRRB312-1-B	E-P	28	YES	SA403 GR WP304W	SA358 GR304 CL1	IHSI
VRRB312-10-A	E-P	28	YES	SA403 GR WP304W	SA358 GR304 CL1	IHSI
VRRB312-10-B	P-WOL	4	YES	SA358 GR304 CL1	SA182 TP304	IHSI
VRRB312-10-C	P-T	28	YES	SA358 GR304 CL1	SA403 GR WP304W	IHSI
VRRB312-12-A	P-WOL	4	YES	SA358 GR304 CL1	SA182 TP304	IHSI
VRRB312-2-A	T-P	28	YES	SA403 GR WP304W	SA358 GR304 CL1	IHSI
VRRB312-2-E	P-E	28	YES	SA358 GR304 CL1	SA403 GR WP304W	IHSI
VRRB312-3-A	P-WOL	4	YES	SA358 GR304 CL1	SA182 TP304	IHSI
VRRB312-3-B	P-WOL	4	YES	SA358 GR304 CL1	SA182 TP304	IHSI
VRRB312-3-D	P-E	28	YES	SA358 GR304 CL1	SA403 GR WP304W	IHSI
VRRB312-3-F	WOL-P	4	YES	SA182 TP304	SA376 TP304 SMLS	IHSI

WELD NUMBER	RESP85	RESP86	REFA87	RESP89	SCHEDULED FOR FUTURE EXAM	REMARKS
VRRB311-9-B	X			X		
VRRB312-FW-B1	X			X		
VRRB312-FW-B10	X					
VRRB312-FW-B11	X				X	
VRRB312-FW-B12	X					
VRRB312-FW-B13	X				X	PARTIAL EXAM 78% C
VRRB312-FW-B14	X					
VRRB312-FW-B2	X		X			
VRRB312-FW-B20	X				X	
VRRB312-FW-B24	X					NO EXAM
VRRB312-FW-B3	X				X	
VRRB312-FW-B4	X	X				
VRRB312-FW-B5	X					
VRRB312-FW-B6	X	X				
VRRB312-FW-B7	X		X			
VRRB312-FW-B8	X			X		
VRRB312-FW-B9	X					
VRRB312-1-A	X				X	
VRRB312-1-B	X				X	
VRRB312-10-A	X					
VRRB312-10-B	X				X	
VRRB312-10-C	X				X	
VRRB312-12-A	X				X	
VRRB312-2-A	X					
VRRB312-2-E	X				X	
VRRB312-3-A	X				X	
VRRB312-3-B	X				X	
VRRB312-3-D	X		X			
VRRB312-3-F	X	X				

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GENERIC LETTER 88-01 WELD EVALUATION
IGSCC WELD CATEGORY B
REACTOR RECIRCULATION
****

WELD ID NUMBER	CONF	DIAMETER	INSIDE CONTAINMENT ?	MATERIAL UPSTREAM	MATERIAL DOWNSTREAM	TREATMENT
VRRB312-3-G	P-FL	4	YES	SA376 TP304 SMLS	SA182 F316	IHSI
VRRB312-9-F	CR-P	22	YES	SA403 GR WP304	SA358 GR304 CL1	IHSI

WELD NUMBER	RESP85	RESP86	REFA87	RESP89	SCHEDULED FOR FUTURE EXAM	REMARKS
VRRB312-3-G	X					
VRRB312-9-F	X					

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GENERIC LETTER 88-01 WELD EVALUATION
IGSCC WELD CATEGORY B
REACTOR WATER CLEANUP
****

WELD ID NUMBER	CONF	DIAMETER	INSIDE CONTAINMENT ?	MATERIAL UPSTREAM	MATERIAL DOWNSTREAM	TREATMENT
DCA1021-FW-1	SWOL-T	4	YES	SA182 TP304	SA403 GR WP304L	IHSI
DCA1021-FW-4	P-FH	4	YES	SA312 GR TP304L SMLS	SA182 F316	IHSI
DCA1021-FW-5	FH-P	4	YES	SA182 F316	SA312 GR TP304L SMLS	IHSI
DCA1022-FW-1	SWOL-T	4	YES	SA182 F316	SA403 GR WP304L	IHSI
DCA1022-FW-4	P-FH	4	YES	SA312 GR TP304L SMLS	SA182 F316	IHSI
DCA1022-FW-5	FH-P	4	YES	SA182 F316	SA312 GR TP304L SMLS	IHSI

WELD NUMBER	RESP85	RESP86	REFA87	RESP89	SCHEDULED FOR FUTURE EXAM	REMARKS
DCA1021-FW-1	X					
DCA1021-FW-4	X		X			
DCA1021-FW-5	X					
DCA1022-FW-1	X	X				
DCA1022-FW-4	X					
DCA1022-FW-5	X		X			

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GENERIC LETTER 88-01 WELD EVALUATION
IGSCC WELD CATEGORY B
RESIDUAL HEAT REMOVAL
****

WELD ID NUMBER	CONF	DIAMETER	INSIDE CONTAINMENT ?	MATERIAL UPSTREAM	MATERIAL DOWNSTREAM	TREATMENT
DCA1081-FW-1	T-E	20	YES	SA403 GR WP304W	SA403 GR WP304W	IHSI
DCA1081-FW-10	FH-V	20	YES	SA182 F316	SA351 CF8M CAST	IHSI
DCA1081-FW-2	P-V	20	YES	SA358 GR304 CL1	SA351 CF8M CAST	IHSI
DCA1081-FW-3	V-E	20	YES	SA351 CF8M CAST	SA403 GR WP304W	IHSI
DCA1081-FW-4	P-V	20	YES	SA358 GR304 CL1	SA351 CF8M CAST	IHSI
DCA1081-FW-6	E-P	20	YES	SA403 GR WP304W	SA358 GR304 CL1	IHSI
DCA1081-FW-7	P-FH	20	YES	SA358 GR304 CL1	SA182 F316	IHSI
DCA1081-FW-8	E-P	20	YES	SA403 GR WP304W	SA358 GR304 CL1	IHSI
DCA1081-1-A	E-P	20	YES	SA403 GR WP304W	SA358 GR304 CL1	IHSI
DCA1081-2-A	E-P	20	YES	SA403 GR WP304W	SA358 GR304 CL1	IHSI
DCA1081-3-A	P-E	20	YES	SA358 GR304 CL1	SA403 GR WP304W	IHSI
DCA1081-4-B	P-E	20	YES	SA358 GR304 CL1	SA403 GR WP304W	IHSI
DCA1081-5-F	P-P	20	YES	SA358 GR304 CL1	SA358 GR304 CL1	IHSI
DCA1101-FW-10	P-V	24	YES	SA376 TP304 SMLS	SA351 CF8M CAST	IHSI
DCA1101-FW-11	V-T	24	YES	SA351 CF8M CAST	SA403 GR WP304W	IHSI
DCA1101-FW-2	V-FH	24	NO	SA351 CF8M CAST	SA182 F316	IHSI
DCA1101-FW-4	FH-P	24	YES	SA182 F316	SA376 TP304 SMLS	IHSI
DCA1101-FW-5	E-P	24	YES	SA403 GR WP304W	SA376 TP304 SMLS	IHSI
DCA1101-FW-6	P-P	24	YES	SA376 TP304 SMLS	SA376 TP304 SMLS	IHSI
DCA1101-FW-7	P-E	24	YES	SA376 TP304 SMLS	SA403 GR WP304W	IHSI
DCA1101-FW-8	E-V	24	YES	SA403 GR WP304W	SA351 CF8M CAST	IHSI
DCA1101-FW-9	V-P	24	YES	SA351 CF8M CAST	SA376 TP304 SMLS	IHSI
DCA1101-1-A	P-E	24	YES	SA376 TP304 SMLS	SA403 GR WP304W	IHSI
DCA1101-1-B	E-E	24	YES	SA403 GR WP304W	SA403 GR WP304W	IHSI
DCA1101-4-A	E-P	24	YES	SA403 GR WP304W	SA376 TP304 SMLS	IHSI
DCA1101-4-B	P-E	24	YES	SA376 TP304 SMLS	SA403 GR WP304W	IHSI
DCA1102-FW-10	P-V	24	YES	SA376 TP304 SMLS	SA351 CF8M CAST	IHSI
DCA1102-FW-11	V-T	24	YES	SA351 CF8M CAST	SA403 GR WP304W	IHSI
DCA1102-FW-12	P-E	24	YES	SA376 TP304 SMLS	SA403 GR WP304W	IHSI

WELD NUMBER	RESP85	RESP86	REFA87	RESP89	SCHEDULED FOR FUTURE EXAM	REMARKS
DCA1081-FW-1	X					
DCA1081-FW-10	X				X	
DCA1081-FW-2	X					
DCA1081-FW-3	X	X				
DCA1081-FW-4	X	X				
DCA1081-FW-6	X					
DCA1081-FW-7	X					
DCA1081-FW-8	X					
DCA1081-1-A	X					
DCA1081-2-A	X				X	
DCA1081-3-A	X	X				
DCA1081-4-B	X					
DCA1081-5-F	X					
DCA1101-FW-10	X	X	X			
DCA1101-FW-11	X					PARTIAL EXAM 67% C
DCA1101-FW-2	X					PARTIAL EXAM 87% C
DCA1101-FW-4	X				X	
DCA1101-FW-5	X	X				
DCA1101-FW-6	X					
DCA1101-FW-7	X		X			
DCA1101-FW-8	X					
DCA1101-FW-9	X				X	
DCA1101-1-A	X	X				
DCA1101-1-B	X					
DCA1101-4-A	X				X	
DCA1101-4-B	X					
DCA1102-FW-10	X			X		
DCA1102-FW-11	X					PARTIAL EXAM 56% C
DCA1102-FW-12	X				X	

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GENERIC LETTER 88-01 WELD EVALUATION
IGSCC WELD CATEGORY B
RESIDUAL HEAT REMOVAL
****

WELD ID NUMBER	CONF	DIAMETER	INSIDE CONTAINMENT ?	MATERIAL UPSTREAM	MATERIAL DOWNSTREAM	TREATMENT
DCA1102-FW-2	V-FH	24	YES	SA351 CF8M CAST	SA182 F316	IHSI
DCA1102-FW-4	FH-P	24	YES	SA182 F316	SA376 TP304 SMLS	IHSI
DCA1102-FW-5	E-P	24	YES	SA403 GR WP304W	SA376 TP304 SMLS	IHSI
DCA1102-FW-7	P-E	24	YES	SA376 TP304 SMLS	SA403 GR WP304W	IHSI
DCA1102-FW-8	E-V	24	YES	SA403 GR WP304W	SA351 CF8M CAST	IHSI
DCA1102-FW-9	V-P	24	YES	SA351 CF8M CAST	SA376 TP304 SMLS	IHSI
DCA1102-1-A	P-E	24	YES	SA376 TP304 SMLS	SA403 GR WP304W	IHSI
DCA1102-1-B	E-P	24	YES	SA403 GR WP304W	SA376 TP304 SMLS	IHSI
DCA1102-1-C	P-E	24	YES	SA376 TP304 SMLS	SA403 GR WP304W	IHSI
DCA1102-4-A	E-P	24	YES	SA403 GR WP304W	SA376 TP304 SMLS	IHSI

WELD NUMBER	RESP85	RESP86	REFA87	RESP89	SCHEDULED FOR FUTURE EXAM	REMARKS
DCA1102-FW-2	X					
DCA1102-FW-4	X	X				
DCA1102-FW-5	X					
DCA1102-FW-7	X	X				
DCA1102-FW-8	X					
DCA1102-FW-9	X	X				
DCA1102-1-A	X				X	
DCA1102-1-B	X	X				
DCA1102-1-C	X				X	
DCA1102-4-A	X					

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SUSQUEHANNA STEAM ELECTRIC STATION UNIT #1

NUMBER OF IGSCC CATEGORY D WELDS = 32

ALL IGSCC CATEGORY D WELDS ARE REQUIRED TO BE EXAMINED EVERY TWO REFUELING CYCLES

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NOTES:

(1) IGSCC CATEGORY D WELDMENTS ARE THOSE NOT MADE WITH RESISTANT MATERIALS, AND HAVE NOT BEEN GIVEN AN SI TREATMENT, BUT HAVE BEEN INSPECTED BY EXAMINERS AND PROCEDURES IN CONFORMANCE WITH STAFF RECOMMENDATIONS AND FOUND TO BE FREE OF CRACKS.

(2) THE FOLLOWING ABBREVIATIONS ARE USED TO DETAIL WELD CONFIGURATION:

P	- PIPE	CP	- CAP
E	- ELBOW	CR	- CROSS
V	- VALVE	PB	- PIPE BEND
RED	- REDUCER	FH	- FLUED HEAD
SWOL	- SWEEPOLET	WOL	- WELDOLET
SE	- SAFE END	PU	- PUMP
T	- TEE	PEN	- PENETRATION
FL	- FLANGE		

(3) THE FOLLOWING APPLIES TO PAST EXAMINATIONS:
- (A) RESP85 - UNIT #1 FIRST REFUELING OUTAGE SPRING 1985
- (B) RESP86 - UNIT #1 SECOND REFUELING OUTAGE SPRING 1986
- (C) REFA87 - UNIT #1 THIRD REFUELING OUTAGE FALL 1987
- (D) RESP89 - UNIT #1 FOURTH REFUELING OUTAGE SPRING 1989

(4) ALL INSPECTIONS CONDUCTED AFTER SEPTEMBER, 1985 WERE PERFORMED USING METHODS AND PERSONNEL QUALIFIED UNDER NRC/EPRI/BWROG COORDINATION PLAN AS UPGRADED IN SEPTEMBER, 1985.

(5) FOR ALL VOLUMETRIC EXAMINATIONS PERFORMED TO DATE, NO FLAW INDICATIONS HAVE BEEN DISCOVERED.

(6) TWO (2) WELDS INCLUDED AS CATEGORY D WELDMENTS COULD NOT BE COMPLETELY EXAMINED DUE TO WELD CONFIGURATION AND/OR PLANT DESIGN. THESE WELDS ARE SO NOTED IN THE REMARKS COLUMN OF THIS REPORT.

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GENERIC LETTER 88-01 WELD EVALUATION
IGSCC WELD CATEGORY D
REACTOR PRESSURE VESSEL
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WELD ID NUMBER	CONF	DIAMETER	INSIDE CONTAINMENT ?	MATERIAL UPSTREAM	MATERIAL DOWNSTREAM	REASON FOR CLASSIFICATION
N1A NOZ-SE	NOZ-SE	28	YES	NOT STAINLESS STEEL	SA336 CL F8	NONCONFORMING MATL
N1B NOZ-SE	NOZ-SE	28	YES	NOT STAINLESS STEEL	SA336 CL F8	NONCONFORMING MATL
N2A NOZ-SE	SE-NOZ	12	YES	SA182 GR F316L FORGED	NOT STAINLESS STEEL	IN 182
N2B NOZ-SE	SE-NOZ	12	YES	SA182 GR F316L FORGED	NOT STAINLESS STEEL	IN 182
N2C NOZ-SE	SE-NOZ	12	YES	SA182 GR F316L FORGED	NOT STAINLESS STEEL	IN 182
N2D NOZ-SE	SE-NOZ	12	YES	SA182 GR F316L FORGED	NOT STAINLESS STEEL	IN 182
N2E NOZ-SE	SE-NOZ	12	YES	SA182 GR F316L FORGED	NOT STAINLESS STEEL	IN 182
N2F NOZ-SE	SE-NOZ	12	YES	SA182 GR F316L FORGED	NOT STAINLESS STEEL	IN 182
N2G NOZ-SE	SE-NOZ	12	YES	SA182 GR F316L FORGED	NOT STAINLESS STEEL	IN 182
N2H NOZ-SE	SE-NOZ	12	YES	SA182 GR F316L FORGED	NOT STAINLESS STEEL	IN 182
N2J NOZ-SE	SE-NOZ	12	YES	SA182 GR F316L FORGED	NOT STAINLESS STEEL	IN 182
N2K NOZ-SE	SE-NOZ	12	YES	SA182 GR F316L FORGED	NOT STAINLESS STEEL	IN 182
N5A NOZ-SE	SE-NOZ	10	YES	SB-166	NOT STAINLESS STEEL	NONCONFORMING MATL
N5A SE-SEXT	SE EXT-SE	10	YES	SB-166	SA336 CL F8 .035% C MAX	NONCONFORMING MATL
N5B NOZ-SE	SE-NOZ	10	YES	SB-166	NOT STAINLESS STEEL	NONCONFORMING MATL
N5B SE-SEXT	SE EXT-SE	10	YES	SB-166	SA336 CL F8 .035% C MAX	NONCONFORMING MATL
N8A NOZ-SE	NOZ-SE	4	YES	NOT STAINLESS STEEL	SA336 CL F8	NONCONFORMING MATL
N8A SE-PEN SEAL	SE-PEN SEAL	4.560	YES	SA336 CL F8	SA182 304L	NONCONFORMING MATL
N8B NOZ-SE	NOZ-SE	4	YES	NOT STAINLESS STEEL	SA336 CL F8	NONCONFORMING MATL
N8B SE-PEN SEAL	SE-PEN SEAL	4.560	YES	SA336 CL F8	SA182 304L	NONCONFORMING MATL
N9 NOZ-CAP	NOZ-CP	4	YES	NOT STAINLESS STEEL	SB-166	NONCONFORMING MATL

WELD NUMBER	RESP85	RESP86	REFA87	RESP89	SCHEDULED FOR FUTURE EXAM	REMARKS
N1A NOZ-SE		X			X	
N1B NOZ-SE				X	X	
N2A NOZ-SE		X			X	
N2B NOZ-SE				X	X	
N2C NOZ-SE				X	X	
N2D NOZ-SE				X	X	
N2E NOZ-SE				X	X	
N2F NOZ-SE		X			X	
N2G NOZ-SE				X	X	
N2H NOZ-SE				X	X	
N2J NOZ-SE		X			X	
N2K NOZ-SE		X			X	
N5A NOZ-SE				X	X	
N5A SE-SEXT				X	X	
N5B NOZ-SE				X	X	
N5B SE-SEXT				X	X	
N8A NOZ-SE				X	X	
N8A SE-PEN SEAL				X	X	
N8B NOZ-SE				X	X	
N8B SE-PEN SEAL				X	X	
N9 NOZ-CAP				X	X	

****
GENERIC LETTER 88-01 WELD EVALUATION
IGSCC WELD CATEGORY D
RESIDUAL HEAT REMOVAL
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WELD ID NUMBER	CONF	DIAMETER	INSIDE CONTAINMENT ?	MATERIAL UPSTREAM	MATERIAL DOWNSTREAM	REASON FOR CLASSIFICATION
DBB1071-1-B	E-P	24	NO	NOT STAINLESS STEEL	SA376 TP304 SMLS	NONCONFORMING MATL
DBB1072-1-A	P-E	24	NO	NOT STAINLESS STEEL	SA403 GR WP304W	NONCONFORMING MATL
DBB1072-1-D	E-P	24	NO	SA403 GR WP304W	SA376 TP304 SMLS	NONCONFORMING MATL
DCA1081-FW-12	V-E	20	YES	SA351 CF8M CAST	SA403 GR WP304W	NONCONFORMING MATL
DCA1101-FW-1	P-V	24	NO	SA376 TP304 SMLS	SA351 CF8M CAST	NONCONFORMING MATL
DCA1102-FW-1	P-V	24	NO	SA376 TP304 SMLS	SA351 CF8M CAST	NONCONFORMING MATL
DCB1021-FW-1	P-V	6	NO	SA376 TP304 SMLS	SA351 CF8M CAST	NONCONFORMING MATL
DCB1021-FW-2	V-FH	6	NO	SA351 CF8M CAST	SA182 F316	NONCONFORMING MATL
DCB1021-FW-4	FH-E	6	YES	SA182 F316	SA403 GR WP304L	NONCONFORMING MATL
GBB1171-1-C	E-P	6	NO	NOT STAINLESS STEEL	SA376 TP304 SMLS	NONCONFORMING MATL
HBB1111-1-A	E-RED	20	NO	SA403 GR WP304W	NOT STAINLESS STEEL	NONCONFORMING MATL

WELD NUMBER	RESP85	RESP86	REFA87	RESP89	SCHEDULED FOR FUTURE EXAM	REMARKS
DBB1071-1-B				X	X	PARTIAL EXAM 84% C
DBB1072-1-A				X	X	
DBB1072-1-D		X			X	
DCA1081-FW-12		X			X	
DCA1101-FW-1				X	X	
DCA1102-FW-1	X				X	
DCB1021-FW-1				X	X	
DCB1021-FW-2				X	X	PARTIAL EXAM 50% C
DCB1021-FW-4		X			X	
GBB1171-1-C				X	X	
HBB1111-1-A				X	X	

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SUSQUEHANNA STEAM ELECTRIC STATION UNIT #1

NUMBER OF IGSCC CATEGORY G WELDS = 2

ALL IGSCC CATEGORY G WELDS ARE REQUIRED TO BE EXAMINED THE NEXT REFUELING OUTAGE

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NOTES:

(1) IGSCC CATEGORY G WELDMENTS ARE THOSE NOT MADE OF RESISTANT MATERIALS, AND HAVE NOT BEEN GIVEN AN SI TREATMENT, AND HAVE NOT BEEN INSPECTED BY EXAMINERS / PROCEDURES IN CONFORMANCE WITH STAFF RECOMMENDATIONS. SI WELDS NOT INSPECTED AFTER SI ARE CONSIDERED TO BE CATEGORY G WELDMENTS.

(2) THE FOLLOWING ABBREVIATIONS ARE USED TO DETAIL WELD CONFIGURATION:

P	- PIPE	CP	- CAP
E	- ELBOW	CR	- CROSS
V	- VALVE	PB	- PIPE BEND
RED	- REDUCER	FH	- FLUED HEAD
SWOL	- SWEEPOLET	WOL	- WELDOLET
SE	- SAFE END	PU	- PUMP
T	- TEE	PEN	- PENETRATION
FL	- FLANGE		

(3) THE FOLLOWING APPLIES TO PAST EXAMINATIONS:

(A) RESP85 - UNIT #1 FIRST REFUELING OUTAGE SPRING 1985
(B) RESP86 - UNIT #1 SECOND REFUELING OUTAGE SPRING 1986
(C) REFA87 - UNIT #1 THIRD REFUELING OUTAGE FALL 1987
(D) RESP89 - UNIT #1 FOURTH REFUELING OUTAGE SPRING 1989

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GENERIC LETTER 88-01 WELD EVALUATION
IGSCC WELD CATEGORY G
RESIDUAL HEAT REMOVAL
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WELD ID NUMBER	CONF	DIAMETER	INSIDE CONTAINMENT ?	MATERIAL UPSTREAM	MATERIAL DOWNSTREAM	REASON FOR CLASSIFICATION
DCA1081-FW-5	V-P	20	YES	SA351 CF8M CAST	SA358 GR304 CL1	IHSI/NOT INSPECTED
DCA1102-FW-6	P-P	24	YES	SA376 TP304 SMLS	SA376 TP304 SMLS	IHSI/NOT INSPECTED

WELD NUMBER	RESP85	RESP86	REFA87	RESP89	SCHEDULED FOR FUTURE EXAM	REMARKS
DCA1081-FW-5					X	
DCA1102-FW-6					X	

Susquehanna
Steam Electric Station
Unit #2

Generic Letter 88-01
Weld Evaluation Tables

Pennsylvania Power & Light Co.
September 1989

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SUSQUEHANNA STEAM ELECTRIC STATION UNIT #2

NUMBER OF IGSCC CATEGORY A WELDS = 187

NUMBER OF IGSCC CATEGORY A WELDS
REQUIRED TO BE EXAMINED IN TEN YEARS = 47

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NOTES:

(1) IGSCC CATEGORY A WELDMENTS ARE THOSE WITH NO KNOWN CRACKS, THAT HAVE A LOW PROBABILITY OF INCURRING IGSCC PROBLEMS, BECAUSE THEY ARE MADE ENTIRELY OF IGSCC RESISTANT MATERIALS.
IGSCC CATEGORY A RESISTANT MATERIALS INCLUDE:
(A) LOW CARBON WROUGHT AUSTENITIC STAINLESS STEEL WITH .035% C MAX
(B) LOW CARBON WELD METAL; PER PPL LETTER TO NRC (PLA - 3060), WELD METAL IS CONSIDERED RESISTANT WITH .035% C MAX AND MIN 5% FERRITE
(C) CORROSION RESISTANT CLADDING (CRC)
(D) CAST AUSTENITIC STAINLESS STEEL WITH .035% C MAX & MIN 7.5% FERRITE
(E) SOLUTION HEAT TREATMENT AFTER WELDING (SHT)
(F) INCONEL 82 IS CONSIDERED TO BE RESISTANT
ALL WELDS INCLUDED IN IGSCC CATEGORY A ARE IN ACCORDANCE WITH NRC STAFF POSITIONS ON MATERIALS AND PROCESSES EXCEPT AS SPECIFICALLY DISCUSSED IN (B) ABOVE.

(2) WELD TYPES - ALL WELDS AT SSES WERE TIG WELDED FOR THE ROOT PASS AND SMAW WELDED FOR THE REMAINDER OF THE BUTT JOINT. MATERIAL COMBINATIONS FOR THE VARIOUS WELDS WERE:

A)	SS - SS JOINT	308L ROD
B)	SS - CS JOINT	309L ROD
C)	SS - CAST SS JOINT	308L ROD
D)	SS - INCONEL	IN 82/182
E)	CS - INCONEL	IN 82/182

(3) IGSCC CATEGORY A WELDS ARE EXAMINED TO THE EXTENT AND FREQUENCY SPECIFIED IN SECTION XI OF THE ASME CODE - 1980W81 FOR UNIT #2.

(4) ISI DRAWING NUMBER MAY BE DERIVED FROM THE WELD ID NUMBER, E.G. WELD ID NUMBER DBB1131-1B-C IS ON DRAWING ISI-DBB-113-1.

(5) THE FOLLOWING ABBREVIATIONS ARE USED TO DETAIL WELD CONFIGURATION:

P	- PIPE	CP	- CAP
E	- ELBOW	CR	- CROSS
V	- VALVE	PB	- PIPE BEND
RED	- REDUCER	FH	- FLUED HEAD
SWOL	- SWEEPOLET	WOL	- WELDOLET
SE	- SAFE END	PU	- PUMP
T	- TEE	PEN	- PENETRATION
FL	- FLANGE		

(6) THE FOLLOWING APPLIES TO PAST EXAMINATIONS:
(A) REFA86 - UNIT #2 FIRST REFUELING OUTAGE FALL 1986
(B) RESP88 - UNIT #2 SECOND REFUELING OUTAGE SPRING 1988

(7) ALL INSPECTIONS CONDUCTED AFTER SEPTEMBER, 1985 WERE PERFORMED USING METHODS AND PERSONNEL QUALIFIED UNDER NRC/EPRI/BWROG COORDINATION PLAN AS UPGRADED IN SEPTEMBER, 1985.

(8) FOR ALL VOLUMETRIC EXAMINATIONS PERFORMED TO DATE, NO FLAW INDICATIONS HAVE BEEN DISCOVERED.

(9) ALL WELDS INDICATED AS SCHEDULED FOR FUTURE EXAMINATION WILL BE EXAMINED TO FULFILL ASME SECTION XI ISI PROGRAM REQUIREMENTS PRIOR TO THE END OF THE FIRST 10 YEAR INTERVAL - FEBRUARY 12, 1995.

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GENERIC LETTER 88-01 WELD EVALUATION
IGSCC WELD CATEGORY A
CORE SPRAY
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WELD ID NUMBER	CONF	DIAMETER	INSIDE CONTAINMENT ?	MATERIAL UPSTREAM	MATERIAL DOWNSTREAM	REASON FOR CLASSIFICATION
DBB2131-FW-3	P-P	12	NO	NOT STAINLESS STEEL	SA312 GR TP304L SMLS	RESISTANT MATL
DBB2132-FW-3	P-P	12	NO	NOT STAINLESS STEEL	SA312 GR TP304L SMLS	RESISTANT MATL
DCA2071-FW-2	P-E	12	YES	SA312 GR TP304L SMLS	SA403 GR WP304L	RESISTANT MATL
DCA2071-FW-3	V-V	12	YES	SA351 CF8M CAST	SA351 CF8M CAST	RESISTANT MATL
DCA2071-FW-4	V-E	12	YES	SA351 CF8M CAST	SA403 GR WP304L	RESISTANT MATL
DCA2071-FW-5	RED-SE EXT	10	YES	SA403 GR WP304L	SA336 CL F8 .035% C MAX	RESISTANT MATL
DCA2071-FW-6	P-V	12	YES	SA312 GR TP304L SMLS	SA351 CF8M CAST	RESISTANT MATL
DCA2071-FW-7	P-P	12	YES	SA312 GR TP304L SMLS	SA312 GR TP304L SMLS	RESISTANT MATL
DCA2071-1-A	E-P	12	YES	SA403 GR WP304L	SA312 GR TP304L SMLS	RESISTANT MATL
DCA2071-1-B	P-E	12	YES	SA312 GR TP304L SMLS	SA403 GR WP304L	RESISTANT MATL
DCA2071-1-C	E-P	12	YES	SA403 GR WP304L	SA312 GR TP304L SMLS	RESISTANT MATL
DCA2071-2-A	E-P	12	YES	SA403 GR WP304L	SA312 GR TP304L SMLS	RESISTANT MATL
DCA2071-2-B	P-RED	12	YES	SA312 GR TP304L SMLS	SA403 GR WP304L	RESISTANT MATL
DCA2072-FW-1	P-P	12	YES	SA312 GR TP304L SMLS	SA312 GR TP304L SMLS	RESISTANT MATL
DCA2072-FW-10	RED-SE EXT	10	YES	SA403 GR WP304L	SA336 CL F8 .035% C MAX	RESISTANT MATL
DCA2072-FW-11	P-RED	12	YES	SA312 GR TP304L SMLS	SA403 GR WP304L	RESISTANT MATL
DCA2072-FW-14	E-P	12	YES	SA403 GR WP304L	SA312 GR TP304L SMLS	RESISTANT MATL
DCA2072-FW-2	P-E	12	YES	SA312 GR TP304L SMLS	SA403 GR WP304L	RESISTANT MATL
DCA2072-FW-3	V-V	12	YES	SA351 CF8M CAST	SA351 CF8M CAST	RESISTANT MATL
DCA2072-FW-4	V-E	12	YES	SA351 CF8M CAST	SA403 GR WP304L	RESISTANT MATL
DCA2072-FW-6	P-V	12	YES	SA312 GR TP304L SMLS	SA351 CF8M CAST	RESISTANT MATL
DCA2072-1-A	E-P	12	YES	SA403 GR WP304L	SA312 GR TP304L SMLS	RESISTANT MATL
DCA2072-1-B	P-E	12	YES	SA312 GR TP304L SMLS	SA403 GR WP304L	RESISTANT MATL
DCA2072-1-C	E-P	12	YES	SA403 GR WP304L	SA312 GR TP304L SMLS	RESISTANT MATL
DCA2091-FW-1	P-V	12	NO	SA312 GR TP304L SMLS	SA351 CF8M CAST	RESISTANT MATL
DCA2091-1-A	P-E	12	YES	SA312 GR TP304L SMLS	SA403 GR WP304L	RESISTANT MATL
DCA2091-1-B	E-P	12	YES	SA403 GR WP304L	SA312 GR TP304L SMLS	RESISTANT MATL
DCA2092-FW-1	P-V	12	NO	SA312 GR TP304L SMLS	SA351 CF8M CAST	RESISTANT MATL
DCA2092-1-A	P-E	12	YES	SA312 GR TP304L SMLS	SA403 GR WP304L	RESISTANT MATL

WELD NUMBER	REFA86	RESP88	SCHEDULED FOR FUTURE EXAM	REMARKS
DBB2131-FW-3	X			
DBB2132-FW-3			X	
DCA2071-FW-2				
DCA2071-FW-3				
DCA2071-FW-4				
DCA2071-FW-5	X			
DCA2071-FW-6				
DCA2071-FW-7				
DCA2071-1-A				
DCA2071-1-B				
DCA2071-1-C				
DCA2071-2-A	X			
DCA2071-2-B			X	
DCA2072-FW-1				
DCA2072-FW-10	X		X	
DCA2072-FW-11				
DCA2072-FW-14			X	
DCA2072-FW-2				
DCA2072-FW-3		X		
DCA2072-FW-4				
DCA2072-FW-6		X		
DCA2072-1-A			X	
DCA2072-1-B				
DCA2072-1-C				
DCA2091-FW-1				
DCA2091-1-A				
DCA2091-1-B				
DCA2092-FW-1				
DCA2092-1-A				

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GENERIC LETTER 88-01 WELD EVALUATION
IGSCC WELD CATEGORY A
CORE SPRAY
****

WELD ID NUMBER	CONF	DIAMETER	INSIDE CONTAINMENT ?	MATERIAL UPSTREAM	MATERIAL DOWNSTREAM	REASON FOR CLASSIFICATION
DCA2092-1-B	E-P	12	YES	SA403 GR WP304L	SA312 GR TP304L SMLS	RESISTANT MATL

WELD NUMBER	REFA86	RESP88	SCHEDULED FOR FUTURE EXAM	REMARKS
DCA2092-1-B				

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GENERIC LETTER 88-01 WELD EVALUATION
IGSCC WELD CATEGORY A
REACTOR PRESSURE VESSEL
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WELD ID NUMBER	CONF	DIAMETER	INSIDE CONTAINMENT ?	MATERIAL UPSTREAM	MATERIAL DOWNSTREAM	REASON FOR CLASSIFICATION
N8A PEN SEAL A WELD	ASSEMBLY WELD	4.560	YES	SA182 304L	SA336 CL F8 .035% C MAX	RESISTANT MATL
N8B PEN SEAL A WELD	ASSEMBLY WELD	4.560	YES	SA182 304L	SA336 CL F8 .035% C MAX	RESISTANT MATL

WELD NUMBER	REFA86	RESP88	SCHEDULED FOR FUTURE EXAM	REMARKS
N8A PEN SEAL A WELD				
N8B PEN SEAL A WELD				

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GENERIC LETTER 88-01 WELD EVALUATION
IGSCC WELD CATEGORY A
REACTOR RECIRCULATION
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WELD ID NUMBER	CONF	DIAMETER	INSIDE CONTAINMENT ?	MATERIAL UPSTREAM	MATERIAL DOWNSTREAM	REASON FOR CLASSIFICATION
DCA2411-FW-2	P-T	4	YES	SA358 TP304L CL1	SA403 GR WP304L	RESISTANT MATL
DCA2411-FW-3	P-E	4	YES	SA358 TP304L CL1	SA403 GR WP304L	RESISTANT MATL
DCA2411-FW-4	E-P	4	YES	SA403 GR WP304L	SA358 TP304L CL1	RESISTANT MATL
DCA2411-3-A	P-E	4	YES	SA358 TP304L CL1	SA403 GR WP304L	RESISTANT MATL
DCA2411-3-B	T-P	4	YES	SA403 GR WP304L	SA358 TP304L CL1	RESISTANT MATL
DCA2411-3-C	T-P	4	YES	SA403 GR WP304L	SA358 TP304L CL1	RESISTANT MATL
DCA2411-3-D	P-FL	4	YES	SA358 TP304L CL1	SA182 GR F316L FORGED	RESISTANT MATL
DCA2421-FW-2	P-T	4	YES	SA358 TP304L CL1	SA403 GR WP304L	RESISTANT MATL
DCA2421-2-A	P-E	4	YES	SA358 TP304L CL1	SA403 GR WP304L	RESISTANT MATL
DCA2421-2-B	E-P	4	YES	SA403 GR WP304L	SA358 TP304L CL1	RESISTANT MATL
DCA2421-3-A	P-E	4	YES	SA358 TP304L CL1	SA403 GR WP304L	RESISTANT MATL
DCA2421-3-B	T-P	4	YES	SA403 GR WP304L	SA358 TP304L CL1	RESISTANT MATL
DCA2421-3-C	T-P	4	YES	SA403 GR WP304L	SA358 TP304L CL1	RESISTANT MATL
DCA2421-3-D	P-FL	4	YES	SA358 TP304L CL1	SA182 GR F316L FORGED	RESISTANT MATL
VRRB313-FW-A-15	P-SE	12	YES	SA376 TP304 SMLS	SA182 GR F316L FORGED	CRC
VRRB313-FW-A-16	P-SE	12	YES	SA376 TP304 SMLS	SA182 GR F316L FORGED	CRC
VRRB313-FW-A-17	P-SE	12	YES	SA376 TP304 SMLS	SA182 GR F316L FORGED	CRC
VRRB313-FW-A-18	P-SE	12	YES	SA376 TP304 SMLS	SA182 GR F316L FORGED	CRC
VRRB313-FW-A-19	P-SE	12	YES	SA376 TP304 SMLS	SA182 GR F316L FORGED	CRC
VRRB313-FW-A-23	V-E	4	YES	SA403 GR WP304L	SA351 CF8M CAST	RESISTANT MATL
VRRB313-3-1-G	PB-SWOL	22	YES	SA358 GR304 CL1	SA182 TP304	SHT/IHSI
VRRB313-3-1-H	PB-SWOL	22	YES	SA358 GR304 CL1	SA182 TP304	SHT/IHSI
VRRB313-3-1-J	PB-CP	22	YES	SA358 GR304 CL1	SA403 GR WP304W	SHT/IHSI
VRRB313-3-2-A	PB-CP	22	YES	SA358 GR304 CL1	SA403 GR WP304W	SHT/IHSI
VRRB313-3-2-B	PB-SWOL	22	YES	SA358 GR304 CL1	SA182 TP304	SHT/IHSI
VRRB313-3-2-C	P-T	22	YES	SA358 GR304 CL1	SA182 TP304	SHT/IHSI
VRRB313-3-2-D	CR-PB	22	YES	SA403 GR WP304W	SA358 GR304 CL1	SHT/IHSI
VRRB313-3-2-E	CR-RED	28	YES	SA403 GR WP304W	SA403 GR WP304W	SHT/IHSI
VRRB313-4-A	E-P	12	YES	SA403 GR WP304W	SA376 TP304 SMLS	SHT

WELD NUMBER	REFA86	RESP88	SCHEDULED FOR FUTURE EXAM	REMARKS
DCA2411-FW-2				
DCA2411-FW-3	X			
DCA2411-FW-4				
DCA2411-3-A				
DCA2411-3-B	X			
DCA2411-3-C				
DCA2411-3-D				
DCA2421-FW-2		X		
DCA2421-2-A		X		
DCA2421-2-B				
DCA2421-3-A				
DCA2421-3-B				
DCA2421-3-C				
DCA2421-3-D				
VRRB313-FW-A-15		X		
VRRB313-FW-A-16				
VRRB313-FW-A-17			X	
VRRB313-FW-A-18				
VRRB313-FW-A-19			X	
VRRB313-FW-A-23			X	
VRRB313-3-1-G				
VRRB313-3-1-H				
VRRB313-3-1-J				
VRRB313-3-2-A				
VRRB313-3-2-B			X	
VRRB313-3-2-C			X	
VRRB313-3-2-D			X	
VRRB313-3-2-E			X	
VRRB313-4-A				

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GENERIC LETTER 88-01 WELD EVALUATION
IGSCC WELD CATEGORY A
REACTOR RECIRCULATION
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WELD ID NUMBER	CONF	DIAMETER	INSIDE CONTAINMENT ?	MATERIAL UPSTREAM	MATERIAL DOWNSTREAM	REASON FOR CLASSIFICATION
VRRB313-4-B	P-E	12	YES	SA376 TP304 SMLS	SA403 GR WP304W	SHT
VRRB313-5-A	E-P	12	YES	SA403 GR WP304W	SA376 TP304 SMLS	SHT
VRRB313-5-B	P-E	12	YES	SA376 TP304 SMLS	SA403 GR WP304W	SHT
VRRB313-6-A	E-P	12	YES	SA403 GR WP304W	SA376 TP304 SMLS	SHT
VRRB313-6-B	P-E	12	YES	SA376 TP304 SMLS	SA403 GR WP304W	SHT
VRRB313-7-A	E-P	12	YES	SA403 GR WP304W	SA376 TP304 SMLS	SHT
VRRB313-7-B	P-E	12	YES	SA376 TP304 SMLS	SA403 GR WP304W	SHT
VRRB313-8-A	E-P	12	YES	SA403 GR WP304W	SA376 TP304 SMLS	SHT
VRRB313-8-B	P-E	12	YES	SA376 TP304 SMLS	SA403 GR WP304W	SHT
VRRB314-FW-B-15	P-SE	12	YES	SA376 TP304 SMLS	SA182 GR F316L FORGED	CRC
VRRB314-FW-B-16	P-SE	12	YES	SA376 TP304 SMLS	SA182 GR F316L FORGED	CRC
VRRB314-FW-B-17	P-SE	12	YES	SA376 TP304 SMLS	SA182 GR F316L FORGED	CRC
VRRB314-FW-B-18	P-SE	12	YES	SA376 TP304 SMLS	SA182 GR F316L FORGED	CRC
VRRB314-FW-B-19	P-SE	12	YES	SA376 TP304 SMLS	SA182 GR F316L FORGED	CRC
VRRB314-FW-B-23	E-V	4	YES	SA403 GR WP304L	SA351 CF8M CAST	RESISTANT MATL
VRRB314-4-A	E-P	12	YES	SA403 GR WP304W	SA376 TP304 SMLS	SHT
VRRB314-4-B	P-E	12	YES	SA376 TP304 SMLS	SA403 GR WP304W	SHT
VRRB314-5-A	E-P	12	YES	SA403 GR WP304W	SA376 TP304 SMLS	SHT
VRRB314-5-B	P-E	12	YES	SA376 TP304 SMLS	SA403 GR WP304W	SHT
VRRB314-6-A	E-P	12	YES	SA403 GR WP304W	SA376 TP304 SMLS	SHT
VRRB314-6-B	P-E	12	YES	SA376 TP304 SMLS	SA403 GR WP304W	SHT
VRRB314-7-A	E-P	12	YES	SA403 GR WP304W	SA376 TP304 SMLS	SHT
VRRB314-7-B	P-E	12	YES	SA376 TP304 SMLS	SA403 GR WP304W	SHT
VRRB314-8-A	E-P	12	YES	SA403 GR WP304W	SA376 TP304 SMLS	SHT
VRRB314-8-B	P-E	12	YES	SA376 TP304 SMLS	SA403 GR WP304W	SHT
VRRB314-9-1-J	PB-CP	22	YES	SA358 GR304 CL1	SA403 GR WP304W	SHT/IHSI
VRRB314-9-2-A	PB-CP	22	YES	SA358 GR304 CL1	SA403 GR WP304W	SHT/IHSI
VRRB314-9-2-D	CR-PB	22	YES	SA403 GR WP304W	SA358 GR304 CL1	SHT/IHSI
VRRB314-9-2-M	CR-RED	28	YES	SA403 GR WP304W	SA403 GR WP304W	SHT/IHSI

WELD NUMBER	REFA86	RESP88	SCHEDULED FOR FUTURE EXAM	REMARKS
VRRB313-4-B				
VRRB313-5-A				
VRRB313-5-B			X	
VRRB313-6-A				
VRRB313-6-B			X	
VRRB313-7-A				
VRRB313-7-B				
VRRB313-8-A				
VRRB313-8-B				
VRRB314-FW-B-15				
VRRB314-FW-B-16		X		
VRRB314-FW-B-17				
VRRB314-FW-B-18		X		
VRRB314-FW-B-19				
VRRB314-FW-B-23				
VRRB314-4-A				
VRRB314-4-B				
VRRB314-5-A				
VRRB314-5-B				
VRRB314-6-A				
VRRB314-6-B				
VRRB314-7-A				
VRRB314-7-B				
VRRB314-8-A				
VRRB314-8-B				
VRRB314-9-1-J				
VRRB314-9-2-A				
VRRB314-9-2-D			X	
VRRB314-9-2-M				

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GENERIC LETTER 88-01 WELD EVALUATION
IGSCC WELD CATEGORY A
REACTOR WATER CLEANUP
****

WELD ID NUMBER	CONF	DIAMETER	INSIDE CONTAINMENT ?	MATERIAL UPSTREAM	MATERIAL DOWNSTREAM	REASON FOR CLASSIFICATION
DCA2021-FW-2	P-P	4	YES	SA312 GR TP304L SMLS	SA312 GR TP304L SMLS	RESISTANT MATL
DCA2021-FW-6	P-P	4	YES	SA312 GR TP304L SMLS	NOT STAINLESS STEEL	RESISTANT MATL
DCA2021-FW-8	P-P	4	YES	SA312 GR TP304L SMLS	SA312 GR TP304L SMLS	RESISTANT MATL
DCA2021-1-A	RED-T	4	YES	SA403 GR WP304L	SA403 GR WP304L	RESISTANT MATL
DCA2021-1-B	T-P	4	YES	SA403 GR WP304L	SA312 GR TP304L SMLS	RESISTANT MATL
DCA2021-1-C	P-E	4	YES	SA312 GR TP304L SMLS	SA403 GR WP304L	RESISTANT MATL
DCA2021-1-D	E-P	4	YES	SA403 GR WP304L	SA312 GR TP304L SMLS	RESISTANT MATL
DCA2021-2-A	E-P	4	YES	SA403 GR WP304L	SA312 GR TP304L SMLS	RESISTANT MATL
DCA2021-2-B	P-E	4	YES	SA312 GR TP304L SMLS	SA403 GR WP304L	RESISTANT MATL
DCA2021-2-C	E-P	4	YES	SA403 GR WP304L	SA312 GR TP304L SMLS	RESISTANT MATL
DCA2021-2-D	E-E	4	YES	SA403 GR WP304L	SA403 GR WP304L	RESISTANT MATL
DCA2021-2-E	P-E	4	YES	SA312 GR TP304L SMLS	SA403 GR WP304L	RESISTANT MATL
DCA2022-FW-2	P-P	4	YES	SA312 GR TP304L SMLS	SA312 GR TP304L SMLS	RESISTANT MATL
DCA2022-FW-6	P-P	4	YES	SA312 GR TP304L SMLS	NOT STAINLESS STEEL	RESISTANT MATL
DCA2022-1-A	RED-T	4	YES	SA403 GR WP304L	SA403 GR WP304L	RESISTANT MATL
DCA2022-1-B	T-P	4	YES	SA403 GR WP304L	SA312 GR TP304L SMLS	RESISTANT MATL
DCA2022-1-C	P-E	4	YES	SA312 GR TP304L SMLS	SA403 GR WP304L	RESISTANT MATL
DCA2022-1-D	E-P	4	YES	SA403 GR WP304L	SA312 GR TP304L SMLS	RESISTANT MATL
DCA2022-1-E	P-E	4	YES	SA312 GR TP304L SMLS	SA403 GR WP304L	RESISTANT MATL
DCA2022-1-F	E-P	4	YES	SA403 GR WP304L	SA312 GR TP304L SMLS	RESISTANT MATL
DCA2022-1-G	P-E	4	YES	SA312 GR TP304L SMLS	SA403 GR WP304L	RESISTANT MATL
DCA2022-1-H	E-P	4	YES	SA403 GR WP304L	SA312 GR TP304L SMLS	RESISTANT MATL
DCA2022-2-A	P-E	4	YES	SA312 GR TP304L SMLS	SA403 GR WP304L	RESISTANT MATL
DCA2022-2-B	E-P	4	YES	SA403 GR WP304L	SA312 GR TP304L SMLS	RESISTANT MATL
DCA2031-FW-10	E-P	4	YES	SA403 GR WP304L	SA312 GR TP304L SMLS	RESISTANT MATL
DCA2031-FW-12	E-P	4	YES	SA403 GR WP304L	SA312 GR TP304L SMLS	RESISTANT MATL
DCA2031-FW-13	P-E	4	YES	SA312 GR TP304L SMLS	SA403 GR WP304L	RESISTANT MATL
DCA2031-FW-14	E-P	4	YES	SA403 GR WP304L	SA312 GR TP304L SMLS	RESISTANT MATL
DCA2031-FW-15	P-E	4	YES	SA312 GR TP304L SMLS	SA403 GR WP304L	RESISTANT MATL

WELD NUMBER	REFA86	RESP88	SCHEDULED FOR FUTURE EXAM	REMARKS
DCA2021-FW-2				
DCA2021-FW-6	X			
DCA2021-FW-8				
DCA2021-1-A			X	
DCA2021-1-B			X	
DCA2021-1-C				
DCA2021-1-D				
DCA2021-2-A			X	
DCA2021-2-B				
DCA2021-2-C			X	
DCA2021-2-D				
DCA2021-2-E			X	
DCA2022-FW-2				
DCA2022-FW-6	X			
DCA2022-1-A				
DCA2022-1-B			X	
DCA2022-1-C				
DCA2022-1-D			X	
DCA2022-1-E				
DCA2022-1-F				
DCA2022-1-G			X	
DCA2022-1-H				
DCA2022-2-A				
DCA2022-2-B			X	
DCA2031-FW-10				
DCA2031-FW-12				
DCA2031-FW-13				
DCA2031-FW-14			X	
DCA2031-FW-15				

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GENERIC LETTER 88-01 WELD EVALUATION
IGSCC WELD CATEGORY A
REACTOR WATER CLEANUP
****

WELD ID NUMBER	CONF	DIAMETER	INSIDE CONTAINMENT ?	MATERIAL UPSTREAM	MATERIAL DOWNSTREAM	REASON FOR CLASSIFICATION
DCA2031-FW-16	E-P	4	YES	SA403 GR WP304L	SA312 GR TP304L SMLS	RESISTANT MATL
DCA2031-FW-17	P-E	4	YES	SA312 GR TP304L SMLS	SA403 GR WP304L	RESISTANT MATL
DCA2031-FW-18	E-E	4	YES	SA403 GR WP304L	SA403 GR WP304L	RESISTANT MATL
DCA2031-FW-19	P-P	4	YES	SA312 GR TP304L SMLS	NOT STAINLESS STEEL	RESISTANT MATL
DCA2031-FW-2	P-P	4	YES	NOT STAINLESS STEEL	SA312 GR TP304L SMLS	RESISTANT MATL
DCA2031-FW-20	E-P	4	YES	SA403 GR WP304L	SA312 GR TP304L SMLS	RESISTANT MATL
DCA2031-FW-23	P-E	4	YES	SA312 GR TP304L SMLS	SA403 GR WP304L	RESISTANT MATL
DCA2031-FW-24	P-E	4	YES	SA312 GR TP304L SMLS	SA403 GR WP304L	RESISTANT MATL
DCA2031-FW-25	E-T	4	YES	SA403 GR WP304L	SA403 GR WP304L	RESISTANT MATL
DCA2031-FW-26	T-P	4	YES	SA403 GR WP304L	SA312 GR TP304L SMLS	RESISTANT MATL
DCA2031-FW-29	E-P	4	YES	SA403 GR WP304L	SA312 GR TP304L SMLS	RESISTANT MATL
DCA2031-FW-3	P-E	4	YES	SA312 GR TP304L SMLS	SA403 GR WP304L	RESISTANT MATL
DCA2031-FW-32	P-E	4	YES	SA312 GR TP304L SMLS	SA403 GR WP304L	RESISTANT MATL
DCA2031-FW-6	P-E	4	YES	SA312 GR TP304L SMLS	SA403 GR WP304L	RESISTANT MATL
DCA2031-FW-7	E-E	4	YES	SA403 GR WP304L	SA403 GR WP304L	RESISTANT MATL
DCA2031-FW-8	E-P	4	YES	SA403 GR WP304L	SA312 GR TP304L SMLS	RESISTANT MATL

WELD NUMBER	REFA86	RESP88	SCHEDULED FOR FUTURE EXAM	REMARKS
DCA2031-FW-16				
DCA2031-FW-17				
DCA2031-FW-18			X	
DCA2031-FW-19			X	
DCA2031-FW-2			X	
DCA2031-FW-20				
DCA2031-FW-23				
DCA2031-FW-24			X	
DCA2031-FW-25				
DCA2031-FW-26			X	
DCA2031-FW-29				
DCA2031-FW-3				
DCA2031-FW-32				
DCA2031-FW-6			X	
DCA2031-FW-7				
DCA2031-FW-8				

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GENERIC LETTER 88-01 WELD EVALUATION
IGSCC WELD CATEGORY A
RESIDUAL HEAT REMOVAL
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WELD ID NUMBER	CONF	DIAMETER	INSIDE CONTAINMENT ?	MATERIAL UPSTREAM	MATERIAL DOWNSTREAM	REASON FOR CLASSIFICATION
DCA2111-FW-1	P-V	6	YES	SA358 TP304L CL1	SA351 CF8M CAST	RESISTANT MATL
DCA2111-FW-2	V-P	6	YES	SA351 CF8M CAST	SA358 TP304L CL1	RESISTANT MATL
DCA2111-FW-3	PB-PB	6	YES	SA358 TP304L CL1	SA358 TP304L CL1	RESISTANT MATL
DCA2111-FW-4	E-PB	6	YES	SA403 GR WP304L	SA358 TP304L CL1	RESISTANT MATL
DCA2111-1-A	P-E	6	YES	SA358 TP304L CL1	SA403 GR WP304L	RESISTANT MATL
DCA2111-2-A	PB-E	6	YES	SA358 TP304L CL1	SA403 GR WP304L	RESISTANT MATL
DCA2111-2-B	E-P	6	YES	SA403 GR WP304L	SA358 TP304L CL1	RESISTANT MATL
DCA2111-2-C	P-E	6	YES	SA358 TP304L CL1	SA403 GR WP304L	RESISTANT MATL
DCA2112-FW-1	E-E	6	YES	SA403 GR WP304L	SA403 GR WP304L	RESISTANT MATL
DCA2112-FW-10	P-E	6	YES	SA358 TP304L CL1	SA403 GR WP304L	RESISTANT MATL
DCA2112-FW-11	E-P	6	YES	SA403 GR WP304L	SA358 TP304L CL1	RESISTANT MATL
DCA2112-FW-2	P-PB	6	YES	SA358 TP304L CL1	SA358 TP304L CL1	RESISTANT MATL
DCA2112-FW-3	P-E	6	YES	SA358 TP304L CL1	SA403 GR WP304L	RESISTANT MATL
DCA2112-FW-4	E-P	6	YES	SA403 GR WP304L	SA358 TP304L CL1	RESISTANT MATL
DCA2112-FW-5	E-P	6	YES	SA403 GR WP304L	SA358 TP304L CL1	RESISTANT MATL
DCA2112-FW-8	P-E	6	YES	SA358 TP304L CL1	SA403 GR WP304L	RESISTANT MATL
DCA2112-FW-9	PB-E	6	YES	SA358 TP304L CL1	SA403 GR WP304L	RESISTANT MATL
DCA2112-1-A	E-P	6	YES	SA403 GR WP304L	SA358 TP304L CL1	RESISTANT MATL
DCA2112-2-B	E-P	6	YES	SA403 GR WP304L	SA358 TP304L CL1	RESISTANT MATL
DCA2112-5-A	P-E	6	YES	SA358 TP304L CL1	SA403 GR WP304L	RESISTANT MATL
DCA2112-5-B	E-P	6	NO	SA403 GR WP304L	SA358 TP304L CL1	RESISTANT MATL
DCA2112-5-C	P-E	6	YES	SA358 TP304L CL1	SA403 GR WP304L	RESISTANT MATL
DCA2113-FW-1	E-P	6	YES	SA403 GR WP304L	SA358 TP304L CL1	RESISTANT MATL
DCA2113-FW-10	V-P	6	YES	SA351 CF8M CAST	SA358 TP304L CL1	RESISTANT MATL
DCA2113-FW-11	P-FL	6	YES	SA358 TP304L CL1	SA182 GR F316L FORGED	RESISTANT MATL
DCA2113-FW-12	FL-E	6	YES	SA182 GR F316L FORGED	SA403 GR WP304L	RESISTANT MATL
DCA2113-FW-13	FL-P	6	YES	SA182 GR F316L FORGED	SA358 TP304L CL1	RESISTANT MATL
DCA2113-FW-2	E-P	6	YES	SA403 GR WP304L	SA358 TP304L CL1	RESISTANT MATL
DCA2113-FW-5	E-FL	6	YES	SA403 GR WP304L	NOT STAINLESS STEEL	RESISTANT MATL

WELD NUMBER	REFA86	RESP88	SCHEDULED FOR FUTURE EXAM	REMARKS
DCA2111-FW-1			X	
DCA2111-FW-2				
DCA2111-FW-3				
DCA2111-FW-4				
DCA2111-1-A				
DCA2111-2-A				
DCA2111-2-B				
DCA2111-2-C			X	
DCA2112-FW-1		X		
DCA2112-FW-10				
DCA2112-FW-11				
DCA2112-FW-2				
DCA2112-FW-3				
DCA2112-FW-4				
DCA2112-FW-5				
DCA2112-FW-8				
DCA2112-FW-9		X		
DCA2112-1-A				
DCA2112-2-B				
DCA2112-5-A		X		
DCA2112-5-B				
DCA2112-5-C				
DCA2113-FW-1			X	
DCA2113-FW-10				
DCA2113-FW-11			X	
DCA2113-FW-12				
DCA2113-FW-13				
DCA2113-FW-2			X	
DCA2113-FW-5			X	

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GENERIC LETTER 88-01 WELD EVALUATION
IGSCC WELD CATEGORY A
RESIDUAL HEAT REMOVAL
****

WELD ID NUMBER	CONF	DIAMETER	INSIDE CONTAINMENT ?	MATERIAL UPSTREAM	MATERIAL DOWNSTREAM	REASON FOR CLASSIFICATION
DCA2113-FW-6	P-E	6	YES	SA358 TP304L CL1	SA403 GR WP304L	RESISTANT MATL
DCA2113-FW-7	E-P	6	YES	SA403 GR WP304L	SA358 TP304L CL1	RESISTANT MATL
DCA2113-FW-8	P-P	6	YES	SA358 TP304L CL1	SA358 TP304L CL1	RESISTANT MATL
DCA2113-FW-9	P-V	6	YES	SA358 TP304L CL1	SA351 CF8M CAST	RESISTANT MATL
DCA2113-2-A	P-FL	6	YES	SA358 TP304L CL1	SA182 GR F316L FORGED	RESISTANT MATL
DCA2113-3-B	P-E	6	YES	SA358 TP304L CL1	SA403 GR WP304L	RESISTANT MATL
DCA2113-3-C	E-P	6	YES	SA403 GR WP304L	SA358 TP304L CL1	RESISTANT MATL
DCA2113-3-D	P-E	6	YES	SA358 TP304L CL1	SA403 GR WP304L	RESISTANT MATL
DCB2021-FW-5	E-P	6	YES	SA403 GR WP304L	SA358 TP304L CL1	RESISTANT MATL
DCB2021-FW-7	E-P	6	YES	SA403 GR WP304L	SA358 TP304L CL1	RESISTANT MATL
DCB2021-1-A	P-E	6	YES	SA358 TP304L CL1	SA403 GR WP304L	RESISTANT MATL
DCB2021-1-C	P-E	6	YES	SA358 TP304L CL1	SA403 GR WP304L	RESISTANT MATL
DCB2021-1-D	E-P	6	YES	SA403 GR WP304L	SA358 TP304L CL1	RESISTANT MATL
DCB2021-2-A	P-E	6	YES	SA358 TP304L CL1	SA403 GR WP304L	RESISTANT MATL
DCB2021-2-B	E-P	6	YES	SA403 GR WP304L	SA358 TP304L CL1	RESISTANT MATL
GBB2171-FW-11	E-P	6	NO	NOT STAINLESS STEEL	SA312 GR TP304L SMLS	RESISTANT MATL
GBB2171-FW-13	P-E	6	NO	SA312 GR TP304L SMLS	SA403 GR WP304L	RESISTANT MATL
GBB2171-FW-14	E-V	6	NO	SA403 GR WP304L	SA351 CF8M CAST	RESISTANT MATL
GBB2171-FW-15	P-P	6	NO	SA312 GR TP304L SMLS	SA312 GR TP304L SMLS	RESISTANT MATL
HBB2202-FW-11	P-FL	10.	NO	NOT STAINLESS-STEEL	SA182 GR F316L FORGED	RESISTANT MATL
HBB2202-FW-12	FL-P	10.	NO	SA182 GR F316L FORGED	NOT STAINLESS STEEL	RESISTANT MATL
HBB2203-FW-10	FL-P	10.	NO	SA182 GR F316L FORGED	NOT STAINLESS STEEL	RESISTANT MATL
HBB2203-FW-9	P-FL	10.	NO	NOT STAINLESS STEEL	SA182 GR F316L FORGED	RESISTANT MATL

WELD NUMBER	REFA86	RESP88	SCHEDULED FOR FUTURE EXAM	REMARKS
DCA2113-FW-6				
DCA2113-FW-7				
DCA2113-FW-8				
DCA2113-FW-9				
DCA2113-2-A				
DCA2113-3-B				
DCA2113-3-C				
DCA2113-3-D				
DCB2021-FW-5				
DCB2021-FW-7				
DCB2021-1-A			X	
DCB2021-1-C				
DCB2021-1-D				
DCB2021-2-A				
DCB2021-2-B				
GBB2171-FW-11				
GBB2171-FW-13				
GBB2171-FW-14				
GBB2171-FW-15				
HBB2202-FW-11				
HBB2202-FW-12				
HBB2203-FW-10				
HBB2203-FW-9				

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SUSQUEHANNA STEAM ELECTRIC STATION UNIT #2

NUMBER OF IGSCC CATEGORY B WELDS = 113

NUMBER OF IGSCC CATEGORY B WELDS
REQUIRED TO BE EXAMINED IN TEN YEARS = 57

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NOTES:

(1) IGSCC CATEGORY B WELDMENTS ARE THOSE NOT MADE OF RESISTANT MATERIALS BUT HAVE HAD AN SI PERFORMED EITHER BEFORE SERVICE OR WITHIN TWO YEARS OF OPERATION. IF AFTER PLANT OPERATION A UT EXAM AFTER SI IS REQUIRED. ALL WELDS INCLUDED IN IGSCC CATEGORY B ARE IN ACCORDANCE WITH NRC STAFF POSITIONS ON PROCESSES.

(2) IHSI PERFORMED PRIOR TO COMMERCIAL OPERATION ON UNIT #2
- COMMERCIAL OPERATION DATE FOR UNIT #2 IS FEBRUARY 12, 1985.

(3) THE FOLLOWING ABBREVIATIONS ARE USED TO DETAIL WELD CONFIGURATION:

P	- PIPE	CP	- CAP
E	- ELBOW	CR	- CROSS
V	- VALVE	PB	- PIPE BEND
RED	- REDUCER	FH	- FLUED HEAD
SWOL	- SWEEPOLET	WOL	- WELDOLET
SE	- SAFE END	PU	- PUMP
T	- TEE	PEN	- PENETRATION
FL	- FLANGE		

(4) THE FOLLOWING APPLIES TO PAST EXAMINATIONS:
(A) REFA86 - UNIT #2 FIRST REFUELING OUTAGE FALL 1986
(B) RESP88 - UNIT #2 SECOND REFUELING OUTAGE SPRING 1988

(5) ALL INSPECTIONS CONDUCTED AFTER SEPTEMBER, 1985 WERE PERFORMED USING METHODS AND PERSONNEL QUALIFIED UNDER NRC/EPRI/BWROG COORDINATION PLAN AS UPGRADED IN SEPTEMBER, 1985.

(6) FOR ALL VOLUMETRIC EXAMINATIONS PERFORMED TO DATE, NO FLAW INDICATIONS HAVE BEEN DISCOVERED.

(7) ALL WELDS INDICATED AS SCHEDULED FOR FUTURE EXAMINATION WILL BE EXAMINED TO FULFILL ASME SECTION XI ISI AND/OR AUGMENTED ISI PROGRAM REQUIREMENTS PRIOR TO THE END OF THE FIRST ISI 10 YEAR INTERVAL - FEBRUARY 12, 1995.

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GENERIC LETTER 88-01 WELD EVALUATION
IGSCC WELD CATEGORY B
CORE SPRAY
****

WELD ID NUMBER	CONF	DIAMETER	INSIDE CONTAINMENT ?	MATERIAL UPSTREAM	MATERIAL DOWNSTREAM	TREATMENT
DCA2091-FW-2	V-FH	12	NO	SA351 CF8M CAST	SA182 F316	IHSI
DCA2091-FW-4	PEN-P	12	YES	SA182 F316	SA312 GR TP304L SMLS	IHSI
DCA2092-FW-2	V-FH	12	NO	SA351 CF8M CAST	SA182 F316	IHSI
DCA2092-FW-4	FH-P	12	YES	SA182 F316	SA312 GR TP304L SMLS	IHSI

WELD NUMBER	REFA86	RESP88	SCHEDULED FOR FUTURE EXAM	REMARKS
DCA2091-FW-2			X	
DCA2091-FW-4			X	
DCA2092-FW-2				
DCA2092-FW-4	X		X	

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GENERIC LETTER 88-01 WELD EVALUATION
IGSCC WELD CATEGORY B
REACTOR RECIRCULATION
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WELD ID NUMBER	CONF	DIAMETER	INSIDE CONTAINMENT ?	MATERIAL UPSTREAM	MATERIAL DOWNSTREAM	TREATMENT
VRRB313-FW-A-1	SE-P	28	YES	SA336 CL F8	SA358 GR304 CL1	IHSI
VRRB313-FW-A-10	SWOL-P	12	YES	SA182 TP304	SA376 TP304 SMLS	IHSI
VRRB313-FW-A-11	SWOL-P	12	YES	SA182 TP304	SA376 TP304 SMLS	IHSI
VRRB313-FW-A-12	RED-P	12	YES	SA403 GR WP304W	SA376 TP304 SMLS	IHSI
VRRB313-FW-A-13	SWOL-P	12	YES	SA182 TP304	SA376 TP304 SMLS	IHSI
VRRB313-FW-A-14	SWOL-P	12	YES	SA182 TP304	SA376 TP304 SMLS	IHSI
VRRB313-FW-A-2	P-P	28	YES	SA358 GR304 CL1	SA358 GR304 CL1	IHSI
VRRB313-FW-A-20	SWOL-P	4	YES	SA182 TP304	SA358 TP304L CL1	IHSI
VRRB313-FW-A-24	SWOL-V	4	YES	SA351 CF8M CAST	SA182 TP304	IHSI
VRRB313-FW-A-3	E-V	28	YES	SA403 GR WP304W	SA351 CF8M CAST	IHSI
VRRB313-FW-A-33	T-V	24	YES	SA351 CF8M CAST	SA403 GR WP304W	IHSI
VRRB313-FW-A-4	V-P	28	YES	SA351 CF8M CAST	SA358 GR304 CL1	IHSI
VRRB313-FW-A-5	E-PU	28	YES	SA403 GR WP304W	SA351 CF8M CAST	IHSI
VRRB313-FW-A-6	PU-P	28	YES	SA351 CF8M CAST	SA358 GR304 CL1	IHSI
VRRB313-FW-A-7	P-V	28	YES	SA358 GR304 CL1	SA351 CF8M CAST	IHSI
VRRB313-FW-A-8	V-E	28	YES	SA351 CF8M CAST	SA403 GR WP304W	IHSI
VRRB313-FW-A-9	T-CR	28	YES	SA403 GR WP304W	SA403 GR WP304W	IHSI
VRRB313-1-A	P-SWOL	4	YES	SA358 GR304 CL1	SA182 TP304	IHSI
VRRB313-10-B	P-E	28	YES	SA358 GR304 CL1	SA403 GR WP304W	IHSI
VRRB313-14-A	P-SWOL	4	YES	SA358 GR304 CL1	SA182 TP304	IHSI
VRRB313-14-B	P-SWOL	4	YES	SA358 GR304 CL1	SA182 TP304	IHSI
VRRB313-14-D	P-E	28	YES	SA358 GR304 CL1	SA403 GR WP304W	IHSI
VRRB313-14-F	SWOL-P	4	YES	SA182 TP304	SA376 TP304 SMLS	IHSI
VRRB313-14-G	P-FL	4	YES	SA376 TP304 SMLS	SA182 GR F316L FORGED	IHSI
VRRB313-2-A	E-P	28	YES	SA403 GR WP304W	SA358 GR304 CL1	IHSI
VRRB313-2-B	P-SWOL	4	YES	SA182 TP304	SA358 GR304 CL1	IHSI
VRRB313-2-C	P-T	28	YES	SA358 GR304 CL1	SA403 GR WP304W	IHSI
VRRB313-3-F	CR-PB	22	YES	SA403 GR WP304W	SA358 GR304 CL1	IHSI
VRRB313-9-A	P-E	28	YES	SA358 GR304 CL1	SA403 GR WP304W	IHSI

WELD NUMBER	REFA86	RESP88	SCHEDULED FOR FUTURE EXAM	REMARKS
VRRB313-FW-A-1	X		X	
VRRB313-FW-A-10	X			
VRRB313-FW-A-11				
VRRB313-FW-A-12			X	
VRRB313-FW-A-13				
VRRB313-FW-A-14				
VRRB313-FW-A-2		X		
VRRB313-FW-A-20			X	
VRRB313-FW-A-24				
VRRB313-FW-A-3		X		
VRRB313-FW-A-33				
VRRB313-FW-A-4		X		
VRRB313-FW-A-5				
VRRB313-FW-A-6		X		
VRRB313-FW-A-7			X	
VRRB313-FW-A-8				
VRRB313-FW-A-9				
VRRB313-1-A			X	
VRRB313-10-B			X	
VRRB313-14-A				
VRRB313-14-B				
VRRB313-14-D		X		
VRRB313-14-F			X	
VRRB313-14-G				
VRRB313-2-A			X	
VRRB313-2-B			X	
VRRB313-2-C			X	
VRRB313-3-F			X	
VRRB313-9-A		X		

****
GENERIC LETTER 88-01 WELD EVALUATION
IGSCC WELD CATEGORY B
REACTOR RECIRCULATION
****

WELD ID NUMBER	CONF	DIAMETER	INSIDE CONTAINMENT ?	MATERIAL UPSTREAM	MATERIAL DOWNSTREAM	TREATMENT
VRRB313-9-B	E-P	28	YES	SA403 GR WP304W	SA358 GR304 CL1	IHSI
VRRB314-FW-B-1	SE-P	28	YES	SA336 CL F8	SA358 GR304 CL1	IHSI
VRRB314-FW-B-10	SWOL-P	12	YES	SA403 GR WP304W	SA358 GR304 CL1	IHSI
VRRB314-FW-B-11	SWOL-P	12	YES	SA403 GR WP304W	SA358 GR304 CL1	IHSI
VRRB314-FW-B-12	RED-P	12	YES	SA403 GR WP304W	SA358 GR304 CL1	IHSI
VRRB314-FW-B-13	SWOL-P	12	YES	SA403 GR WP304W	SA358 GR304 CL1	IHSI
VRRB314-FW-B-14	SWOL-P	12	YES	SA403 GR WP304W	SA358 GR304 CL1	IHSI
VRRB314-FW-B-2	T-P	28	YES	SA358 GR304 CL1	SA403 GR WP304W	IHSI
VRRB314-FW-B-20	SWOL-P	4	YES	SA182 TP304	SA358 GR304 CL1	IHSI
VRRB314-FW-B-24	V-SWOL	4	YES	SA351 CF8M CAST	SA182 TP304	IHSI
VRRB314-FW-B-3	E-V	28	YES	SA403 GR WP304W	SA351 CF8M CAST	IHSI
VRRB314-FW-B-33	V-T	24	YES	SA351 CF8M CAST	SA403 GR WP304W	IHSI
VRRB314-FW-B-4	V-P	28	YES	SA351 CF8M CAST	SA358 GR304 CL1	IHSI
VRRB314-FW-B-45	T-E	20	YES	SA403 GR WP304W	SA403 GR WP304W	IHSI
VRRB314-FW-B-5	E-PU	28	YES	SA403 GR WP304W	SA351 CF8M CAST	IHSI
VRRB314-FW-B-6	PU-P	28	YES	SA351 CF8M CAST	SA358 GR304 CL1	IHSI
VRRB314-FW-B-7	P-V	28	YES	SA358 GR304 CL1	SA351 CF8M CAST	IHSI
VRRB314-FW-B-8	V-E	28	YES	SA351 CF8M CAST	SA403 GR WP304W	IHSI
VRRB314-FW-B-9	T-CR	28	YES	SA403 GR WP304W	SA403 GR WP304W	IHSI
VRRB314-1-A	P-E	28	YES	SA358 GR304 CL1	SA403 GR WP304W	IHSI
VRRB314-1-B	E-P	28	YES	SA403 GR WP304W	SA358 GR304 CL1	IHSI
VRRB314-10-A	E-P	28	YES	SA403 GR WP304W	SA358 GR304 CL1	IHSI
VRRB314-10-B	SWOL-P	28	YES	SA182 TP304	SA358 GR304 CL1	IHSI
VRRB314-10-C	P-T	28	YES	SA358 GR304 CL1	SA403 GR WP304W	IHSI
VRRB314-12-A	P-SWOL	4	YES	SA358 GR304 CL1	SA182 TP304	IHSI
VRRB314-2-A	T-P	28	YES	SA403 GR WP304W	SA358 GR304 CL1	IHSI
VRRB314-2-E	P-E	28	YES	SA358 GR304 CL1	SA403 GR WP304W	IHSI
VRRB314-3-A	P-SWOL	4	YES	SA358 GR304 CL1	SA182 TP304	IHSI
VRRB314-3-B	P-SWOL	4	YES	SA358 GR304 CL1	SA182 TP304	IHSI

WELD NUMBER	REFA86	RESP88	SCHEDULED FOR FUTURE EXAM	REMARKS
VRRB313-9-B				
VRRB314-FW-B-1		X		
VRRB314-FW-B-10				
VRRB314-FW-B-11			X	
VRRB314-FW-B-12				
VRRB314-FW-B-13		X		
VRRB314-FW-B-14		X		
VRRB314-FW-B-2				
VRRB314-FW-B-20			X	
VRRB314-FW-B-24				
VRRB314-FW-B-3				
VRRB314-FW-B-33				
VRRB314-FW-B-4			X	
VRRB314-FW-B-45	X			
VRRB314-FW-B-5				
VRRB314-FW-B-6			X	
VRRB314-FW-B-7			X	
VRRB314-FW-B-8		X		
VRRB314-FW-B-9			X	
VRRB314-1-A			X	
VRRB314-1-B				
VRRB314-10-A				
VRRB314-10-B				
VRRB314-10-C			X	
VRRB314-12-A				
VRRB314-2-A			X	
VRRB314-2-E				
VRRB314-3-A			X	
VRRB314-3-B			X	

****
GENERIC LETTER 88-01 WELD EVALUATION
IGSCC WELD CATEGORY B
REACTOR RECIRCULATION
****

WELD ID NUMBER	CONF	DIAMETER	INSIDE CONTAINMENT ?	MATERIAL UPSTREAM	MATERIAL DOWNSTREAM	TREATMENT
VRRB314-3-D	P-E	28	YES	SA358 GR304 CL1	SA403 GR WP304W	IHSI
VRRB314-3-F	SWOL-P	4	YES	SA182 TP304	SA376 TP304 SMLS	IHSI
VRRB314-3-G	P-FL	4	YES	SA376 TP304 SMLS	SA182 GR F316L FORGED	IHSI
VRRB314-9-F	CR-PB	22	YES	SA403 GR WP304W	SA358 GR304 CL1	IHSI
VRRB314-9-1-G	PB-SWOL	22	YES	SA358 GR304 CL1	SA182 TP304	IHSI
VRRB314-9-1-H	PB-SWOL	22	YES	SA358 GR304 CL1	SA182 TP304	IHSI
VRRB314-9-2-B	PB-SWOL	22	YES	SA358 GR304 CL1	SA182 TP304	IHSI
VRRB314-9-2-C	PB-SWOL	22	YES	SA358 GR304 CL1	SA403 GR WP304W	IHSI

WELD NUMBER	REFA86	RESP88	SCHEDULED FOR FUTURE EXAM	REMARKS
VRRB314-3-D			X	
VRRB314-3-F				
VRRB314-3-G			X	
VRRB314-9-F				
VRRB314-9-1-G			X	
VRRB314-9-1-H			X	
VRRB314-9-2-B			X	
VRRB314-9-2-C				

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GENERIC LETTER 88-01 WELD EVALUATION
IGSCC WELD CATEGORY B
REACTOR WATER CLEANUP
****

WELD ID NUMBER	CONF	DIAMETER	INSIDE CONTAINMENT ?	MATERIAL UPSTREAM	MATERIAL DOWNSTREAM	TREATMENT
DCA2021-FW-1	T-P	4	YES	SA182 TP304	SA403 GR WP304L	IHSI
DCA2021-FW-4	P-FH	4	YES	SA312 GR TP304L SMLS	SA182 F316	IHSI
DCA2021-FW-5	FH-P	4	YES	SA182 F316	SA312 GR TP304L SMLS	IHSI
DCA2022-FW-1	T-P	4	YES	SA182 TP304	SA403 GR WP304L	IHSI
DCA2022-FW-4	P-FH	4	YES	SA312 GR TP304L SMLS	SA182 F316	IHSI
DCA2022-FW-5	FH-P	4	YES	SA182 F316	SA312 GR TP304L SMLS	IHSI

WELD NUMBER	REFA86	RESP88	SCHEDULED FOR FUTURE EXAM	REMARKS
DCA2021-FW-1	X			
DCA2021-FW-4			X	
DCA2021-FW-5				
DCA2022-FW-1				
DCA2022-FW-4	X			
DCA2022-FW-5	X			

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GENERIC LETTER 88-01 WELD EVALUATION
IGSCC WELD CATEGORY B
RESIDUAL HEAT REMOVAL
****

WELD ID NUMBER	CONF	DIAMETER	INSIDE CONTAINMENT ?	MATERIAL UPSTREAM	MATERIAL DOWNSTREAM	TREATMENT
DCA2081-FW-12	P-E	20	YES	SA358 GR304 CL1	SA403 GR WP304W	IHSI
DCA2081-FW-13	P-V	20	YES	SA358 GR304 CL1	SA351 CF8M CAST	IHSI
DCA2081-FW-2	P-V	20	YES	SA358 GR304 CL1	SA351 CF8M CAST	IHSI
DCA2081-FW-3	V-E	20	YES	SA351 CF8M CAST	SA358 GR304 CL1	IHSI
DCA2081-FW-5	V-P	20	YES	SA351 CF8M CAST	SA358 GR304 CL1	IHSI
DCA2081-FW-6	E-P	20	YES	SA403 GR WP304W	SA358 GR304 CL1	IHSI
DCA2081-FW-7	E-P	20	YES	SA403 GR WP304W	SA358 GR304 CL1	IHSI
DCA2081-FW-8	P-FH	20	YES	SA358 GR304 CL1	SA182 F316	IHSI
DCA2081-FW-9	FH-V	20	NO	SA182 F316	SA351 CF8M CAST	IHSI
DCA2081-1-A	E-P	20	YES	SA403 GR WP304W	SA358 GR304 CL1	IHSI
DCA2081-2-A	E-P	20	YES	SA403 GR WP304W	SA358 GR304 CL1	IHSI
DCA2081-4-A	P-E	20	YES	SA358 GR304 CL1	SA358 GR304 CL1	IHSI
DCA2101-FW-10	P-V	24	YES	SA376 TP304 SMLS	SA351 CF8M CAST	IHSI
DCA2101-FW-2	V-FH	24	NO	SA351 CF8 CAST	SA182 TP304	IHSI
DCA2101-FW-4	FH-P	24	YES	SA182 TP304	SA376 TP304 SMLS	IHSI
DCA2101-FW-5	E-E	24	YES	SA403 GR WP304	SA403 GR WP304	IHSI
DCA2101-FW-6	PB-PB	24	YES	SA376 TP304 SMLS	SA376 TP304 SMLS	IHSI
DCA2101-FW-7	E-P	24	YES	SA403 GR WP304	SA376 TP304 SMLS	IHSI
DCA2101-FW-8	E-V	24	YES	SA403 GR WP304	SA351 CF8 CAST	IHSI
DCA2101-FW-9	V-P	24	YES	SA351 CF8 CAST	SA376 TP304 SMLS	IHSI
DCA2101-1-A	P-E	24	YES	SA376 TP304 SMLS	SA403 GR WP304	IHSI
DCA2101-2-A	E-PB	24	YES	SA403 GR WP304	SA376 TP304 SMLS	IHSI
DCA2101-3-A	PB-E	24	YES	SA376 TP304 SMLS	SA403 GR WP304	IHSI
DCA2101-4-A	P-E	24	YES	SA376 TP304 SMLS	SA403 GR WP304	IHSI
DCA2102-FW-2	V-FH	24	NO	SA351 CF8 CAST	SA182 F316	IHSI
DCA2102-FW-3	FH-P	24	YES	SA182 F316	SA376 TP304 SMLS	IHSI
DCA2102-FW-4	P-E	24	YES	SA376 TP304 SMLS	SA403 GR WP304	IHSI
DCA2102-FW-5	PB-PB	24	YES	SA376 TP304 SMLS	SA376 TP304 SMLS	IHSI
DCA2102-FW-6	E-P	24	YES	SA403 GR WP304	SA376 TP304 SMLS	IHSI

WELD NUMBER	REFA86	RESP88	SCHEDULED FOR FUTURE EXAM	REMARKS
DCA2081-FW-12			X	
DCA2081-FW-13				
DCA2081-FW-2				
DCA2081-FW-3				
DCA2081-FW-5	X			
DCA2081-FW-6				
DCA2081-FW-7				
DCA2081-FW-8			X	
DCA2081-FW-9	X			
DCA2081-1-A	X			
DCA2081-2-A	X			
DCA2081-4-A			X	
DCA2101-FW-10		X		
DCA2101-FW-2			X	
DCA2101-FW-4			X	
DCA2101-FW-5				
DCA2101-FW-6			X	
DCA2101-FW-7				
DCA2101-FW-8				
DCA2101-FW-9				
DCA2101-1-A		X		
DCA2101-2-A			X	
DCA2101-3-A			X	
DCA2101-4-A		X		
DCA2102-FW-2				
DCA2102-FW-3			X	
DCA2102-FW-4			X	
DCA2102-FW-5				
DCA2102-FW-6			X	

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GENERIC LETTER 88-01 WELD EVALUATION
IGSCC WELD CATEGORY B
RESIDUAL HEAT REMOVAL
****

WELD ID NUMBER	CONF	DIAMETER	INSIDE CONTAINMENT ?	MATERIAL UPSTREAM	MATERIAL DOWNSTREAM	TREATMENT
DCA2102-FW-7	E-V	24	YES	SA403 GR WP304	SA351 CF8 CAST	IHSI
DCA2102-FW-8	V-P	24	YES	SA351 CF8 CAST	SA376 TP304 SMLS	IHSI
DCA2102-FW-9	P-V	24	YES	SA376 TP304 SMLS	SA351 CF8 CAST	IHSI
DCA2102-1-A	P-E	24	YES	SA376 TP304 SMLS	SA403 GR WP304	IHSI
DCA2102-1-B	E-P	24	YES	SA403 GR WP304	SA376 TP304 SMLS	IHSI
DCA2102-2-A	E-PB	24	YES	SA403 GR WP304	SA376 TP304 SMLS	IHSI
DCA2102-3-A	PB-E	24	YES	SA376 TP304 SMLS	SA403 GR WP304	IHSI
DCA2102-4-B	P-E	24	YES	SA376 TP304 SMLS	SA403 GR WP304	IHSI

WELD NUMBER	REFA86	RESP88	SCHEDULED FOR FUTURE EXAM	REMARKS
DCA2102-FW-7				
DCA2102-FW-8			X	
DCA2102-FW-9	X			
DCA2102-1-A		X	X	
DCA2102-1-B			X	
DCA2102-2-A		X		
DCA2102-3-A			X	
DCA2102-4-B			X	

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SUSQUEHANNA STEAM ELECTRIC STATION UNIT #2

NUMBER OF IGSCC CATEGORY D WELDS = 31

ALL IGSCC CATEGORY D WELDS ARE REQUIRED TO BE EXAMINED EVERY TWO REFUELING CYCLES

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NOTES:

(1) IGSCC CATEGORY D WELDMENTS ARE THOSE NOT MADE WITH RESISTANT MATERIALS, AND HAVE NOT BEEN GIVEN AN SI TREATMENT, BUT HAVE BEEN INSPECTED BY EXAMINERS AND PROCEDURES IN CONFORMANCE WITH STAFF RECOMMENDATIONS AND FOUND TO BE FREE OF CRACKS.

(2) THE FOLLOWING ABBREVIATIONS ARE USED TO DETAIL WELD CONFIGURATION:

P	- PIPE	CP	- CAP
E	- ELBOW	CR	- CROSS
V	- VALVE	PB	- PIPE BEND
RED	- REDUCER	FH	- FLUED HEAD
SWOL	- SWEEPOLET	WOL	- WELDOLET
SE	- SAFE END	PU	- PUMP
T	- TEE	PEN	- PENETRATION
FL	- FLANGE		

(3) THE FOLLOWING APPLIES TO PAST EXAMINATIONS:
  (A) REFA86 - UNIT #2 FIRST REFUELING OUTAGE FALL 1986
  (B) RESP88 - UNIT #2 SECOND REFUELING OUTAGE SPRING 1988

(4) ALL INSPECTIONS CONDUCTED AFTER SEPTEMBER, 1985 WERE PERFORMED USING METHODS AND PERSONNEL QUALIFIED UNDER NRC/EPRI/BWROG COORDINATION PLAN AS UPGRADED IN SEPTEMBER, 1985.

(5) FOR ALL VOLUMETRIC EXAMINATIONS PERFORMED TO DATE, NO FLAW INDICATIONS HAVE BEEN DISCOVERED.

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GENERIC LETTER 88-01 WELD EVALUATION
IGSCC WELD CATEGORY D
REACTOR PRESSURE VESSEL
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WELD ID NUMBER	CONF	DIAMETER	INSIDE CONTAINMENT ?	MATERIAL UPSTREAM	MATERIAL DOWNSTREAM	REASON FOR CLASSIFICATION
N1A NOZ-SE	NOZ-SE	28	YES	NOT STAINLESS STEEL	SA336 CL F8	NONCONFORMING MATL
N1B NOZ-SE	NOZ-SE	28	YES	NOT STAINLESS STEEL	SA336 CL F8	NONCONFORMING MATL
N2A NOZ-SE	SE-NOZ	12	YES	SA182 GR F316L FORGED	NOT STAINLESS STEEL	IN 182
N2B NOZ-SE	SE-NOZ	12	YES	SA182 GR F316L FORGED	NOT STAINLESS STEEL	IN 182
N2C NOZ-SE	SE-NOZ	12	YES	SA182 GR F316L FORGED	NOT STAINLESS STEEL	IN 182
N2D NOZ-SE	SE-NOZ	12	YES	SA182 GR F316L FORGED	NOT STAINLESS STEEL	IN 182
N2E NOZ-SE	SE-NOZ	12	YES	SA182 GR F316L FORGED	NOT STAINLESS STEEL	IN 182
N2F NOZ-SE	SE-NOZ	12	YES	SA182 GR F316L FORGED	NOT STAINLESS STEEL	IN 182
N2G NOZ-SE	SE-NOZ	12	YES	SA182 GR F316L FORGED	NOT STAINLESS STEEL	IN 182
N2H NOZ-SE	SE-NOZ	12	YES	SA182 GR F316L FORGED	NOT STAINLESS STEEL	IN 182
N2J NOZ-SE	SE-NOZ	12	YES	SA182 GR F316L FORGED	NOT STAINLESS STEEL	IN 182
N2K NOZ-SE	SE-NOZ	12	YES	SA182 GR F316L FORGED	NOT STAINLESS STEEL	IN 182
N5A NOZ-SE	SE-NOZ	10	YES	SB-166	NOT STAINLESS STEEL	NONCONFORMING MATL
N5A SE-SEXT	SE EXT-SE	10	YES	SA336 CL F8 .035% C MAX	SB-166	NONCONFORMING MATL
N5B NOZ-SE	SE-NOZ	10	YES	SB-166	NOT STAINLESS STEEL	NONCONFORMING MATL
N5B SE-SEXT	SE EXT-SE	10	YES	SA336 CL F8 .035% C MAX	SB-166	NONCONFORMING MATL
N8A NOZ-SE	NOZ-SE	4	YES	NOT STAINLESS STEEL	SA336 CL F8	NONCONFORMING MATL
N8A SE-PEN SEAL	SE-PEN SEAL	4.560	YES	SA336 CL F8	SA182 304L	NONCONFORMING MATL
N8B NOZ-SE	NOZ-SE	4	YES	NOT STAINLESS STEEL	SA336 CL F8	NONCONFORMING MATL
N8B SE-PEN SEAL	SE-PEN SEAL	4.560	YES	SA336 CL F8	SA182 304L	NONCONFORMING MATL
N9 NOZ-CAP	NOZ-CP	4	YES	NOT STAINLESS STEEL	SB-166	NONCONFORMING MATL

WELD NUMBER	REFA86	RESP88	SCHEDULED FOR FUTURE EXAM	REMARKS
N1A NOZ-SE		X	X	
N1B NOZ-SE			X	
N2A NOZ-SE		X	X	
N2B NOZ-SE			X	
N2C NOZ-SE			X	
N2D NOZ-SE			X	
N2E NOZ-SE			X	
N2F NOZ-SE		X	X	
N2G NOZ-SE			X	
N2H NOZ-SE			X	
N2J NOZ-SE		X	X	
N2K NOZ-SE		X	X	
N5A NOZ-SE			X	
N5A SE-SEXT			X	
N5B NOZ-SE			X	
N5B SE-SEXT			X	
N8A NOZ-SE			X	
N8A SE-PEN SEAL			X	
N8B NOZ-SE			X	
N8B SE-PEN SEAL			X	
N9 NOZ-CAP			X	

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GENERIC LETTER 88-01 WELD EVALUATION
IGSCC WELD CATEGORY D
REACTOR RECIRCULATION
****

WELD ID NUMBER	CONF	DIAMETER	INSIDE CONTAINMENT ?	MATERIAL UPSTREAM	MATERIAL DOWNSTREAM	REASON FOR CLASSIFICATION
VRRB313-10-C	P-P	28	YES	SA358 GR304 CL1	SA358 GR304 CL1	NONCONFORMING MATL

WELD NUMBER	REFA86	RESP88	SCHEDULED FOR FUTURE EXAM	REMARKS
VRRB313-10-C	X		X	

****
GENERIC LETTER 88-01 WELD EVALUATION
IGSCC WELD CATEGORY D
RESIDUAL HEAT REMOVAL
****

WELD ID NUMBER	CONF	DIAMETER	INSIDE CONTAINMENT ?	MATERIAL UPSTREAM	MATERIAL DOWNSTREAM	REASON FOR CLASSIFICATION
DBB2071-FW-3	P-V	24	NO	SA358 GR304 CL1	SA351 CF8M CAST	NONCONFORMING MATL
DBB2071-1-B	E-P	24	NO	NOT STAINLESS STEEL	SA358 GR304 CL1	NONCONFORMING MATL
DBB2072-FW-3	P-V	24	NO	SA358 GR304 CL1	SA351 CF8M CAST	NONCONFORMING MATL
DBB2072-1-A	P-E	24	NO	NOT STAINLESS STEEL	SA403 GR WP304W	NONCONFORMING MATL
DBB2072-1-D	E-P	24	NO	SA403 GR WP304W	SA358 GR304 CL1	NONCONFORMING MATL
DCA2081-FW-11	V-E	20	NO	SA351 CF8M CAST	SA403 GR WP304W	NONCONFORMING MATL
DCB2021-FW-2	V-FH	6	NO	SA351 CF8M CAST	SA182 F316	NONCONFORMING MATL
DCB2021-FW-4	FH-E	6	YES	SA182 F316	SA403 GR WP304L	NONCONFORMING MATL
HBB2111-1-A	E-RED	20	NO	SA403 GR WP304W	NOT STAINLESS STEEL	NONCONFORMING MATL

WELD NUMBER	REFA86	RESP88	SCHEDULED FOR FUTURE EXAM	REMARKS
DBB2071-FW-3			X	
DBB2071-1-B			X	
DBB2072-FW-3		X	X	
DBB2072-1-A			X	
DBB2072-1-D		X	X	
DCA2081-FW-11			X	
DCB2021-FW-2	X		X	
DCB2021-FW-4			X	
HBB2111-1-A			X	