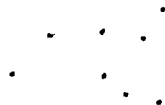

SUSQUEHANNA STEAM ELECTRIC STATION

UNIT 2

PRESERVICE INSPECTION PROGRAM

AUGUST 1983

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PDR ADOCK 05000388
Q PDR



11-15-1963

SUSQUEHANNA STEAM ELECTRIC STATION
UNIT #2
PRESERVICE EXAMINATION (CLASS 1)
COMPONENTS, PARTS, METHOD OF EXAMINATION AND REMARKS

ITEM NO.	EXAMINATION CATEGORY (TABLE IWB - 2500)	COMPONENTS AND PARTS TO BE EXAMINED	METHOD	REMARKS ¹
- REACTOR VESSEL -				
Bl.1.	B-A	Pressure-retaining welds in reactor vessel	Longitudinal and circumferential shell welds meridional and circumferential head welds vessel-to-flange and head-to-flange circumferential welds	Volumetric (4) (5)
Bl.4	B-D	Full penetration welds of nozzle in vessel	Primary nozzle-to-vessel welds and nozzle inside, radiused section	Volumetric (4)
Bl.5	B-E	Pressure-retaining partial penetration welds in vessels	Vessel penetration, including control rod drive and instrumentation penetration	Visual (IWA-5000) (4)
Bl.6	B-F	Pressure-retaining dissimilar metal welds	Nozzle-to-safe end welds	Volumetric and surface (4)
Bl.7	B-G-1	Pressure-retaining bolting greater than 2 inches in diameter	Nuts	Surface (4)
Bl.8	B-G-1	Pressure-retaining bolting greater than 2 inches in diameter	Pressure-Retaining bolts and studs	Volumetric and surface (4)
Bl.9	B-G-1	Pressure-retaining bolting greater than 2 inches in diameter	Ligaments between threaded stud holes	Volumetric (4)
Bl.10	B-G-1	Pressure-retaining bolting, greater than 2 inches in diameter	Closure washers, bushings	Visual (4)

SUSQUEHANNA STEAM ELECTRIC STATION
UNIT #2
PRESERVICE EXAMINATION (CONT'D)
(CLASS 1)

<u>ITEM NO.</u>	<u>EXAMINATION CATEGORY (TABLE IWB - 2500)</u>	<u>COMPONENTS AND PARTS TO BE EXAMINED</u>	<u>METHOD</u>	<u>REMARKS¹</u>
B1.11	B-G-2 Pressure-retaining bolting, smaller than or equal to 2 inches in diameter	Pressure-retaining bolting	Visual	(4)
B1.12	B-H Vessel supports	Integrally welded vessel supports	Volumetric	(4)
B1.13	B-I-1 Interior clad surface of reactor vessel	Closure head cladding	1) Visual and surface or 2) Volumetric	(4)
B1.14	B-I-1 Interior clad surface of reactor vessel	Vessel cladding	Visual	(4)
B1.15	B-N-1 Interior of reactor vessel	Vessel interior	Visual	(4)
B1.16	B-N-2 Integrally welded core support structures and interior attachments to reactor vessel	Interior attachments and core support structures	Visual	(4)
B1.18	B-O Pressure-retaining welds in control rod drive housings	Control rod drive housings	Volumetric	(4)
B1.19	B-P Components exempted from examination by IWB-1220	Exempted components	Visual (IWA-5000)	(4)
-PIPING PRESSURE BOUNDARY-				
B4.1	B-F Pressure-retaining dissimilar metal welds	Safe-end to piping welds and safe-end in branch piping welds	Volumetric and surface	(1)
B6.150 ²	B-G-1 Pressure-retaining bolting greater than 2 inches in diameter	Pressure-retaining bolting, in place	Volumetric	(2)

SUSQUEHANNA STEAM ELECTRIC STATION
UNIT #2
PRESERVICE EXAMINATION (CONT'D)
(CLASS 1)

<u>ITEM NO.</u>	<u>EXAMINATION CATEGORY (TABLE IWB - 2500)</u>	<u>COMPONENTS AND PARTS TO BE EXAMINED</u>	<u>METHOD</u>	<u>REMARKS¹</u>
B6.160 ²	B-G-1 Pressure-retaining bolting, greater than 2 inches in diameter	Pressure-retaining bolting, when removed	Volumetric and surface	(2)
B6.170 ²	B-G-1 Pressure-retaining bolting greater than 2 inches in diameter	Bolting surfaces	Visual (VT-1)	(2)
B7.50 ²	B-G-2 Pressure-retaining bolting, smaller than or equal to 2 inches in diameter	Bolts, studs, and nuts	Visual (VT-1)	(2)
B4.5	B-J Pressure-retaining welds in piping	Circumferential and longitudinal piping welds	Volumetric	(1)
B4.6	B-J Pressure-retaining welds in piping	Branch pipe connection welds exceeding six inches in diameter	Volumetric	(1)
B4.7	B-J Pressure-retaining welds in piping	Branch pipe connection welds six inches diameter and smaller	Surface	
B4.8	B-J Pressure-retaining welds piping	Socket welds	Surface	
B10.10 ²	B-K-1 Support members for piping	Integrally welded attachments-piping	Volumetric	(3)
B4.10	B-K-2 Support components for piping	Support components	Visual	
B4.11	B-P Components exempted from examination by IWB-1220	Exempted components	Visual (IWA-5000)	

SUSQUEHANNA STEAM ELECTRIC STATION
UNIT #2
PRESERVICE EXAMINATION (CONT'D)
(CLASS 1)

ITEM NO.	EXAMINATION CATEGORY (TABLE IWB - 2500)	COMPONENTS AND PARTS TO BE EXAMINED	METHOD	REMARKS ¹
-PUMP PRESSURE BOUNDARY-				
B6.180 ²	B-G-1 Pressure-retaining bolting greater than 2 inches in diameter	Pressure-retaining bolting, in place	Volumetric	(2)
B6.190 ²	B-G-1 Pressure-retaining bolting greater than 2 inches in diameter	Pressure-retaining bolting, when removed	Volumetric and surface	(2)
B7.60 ²	B-G-2 Pressure-retaining bolting smaller than or equal to 2 inches in diameter	Bolts, studs, and nuts.	Visual (VT-1)	(2)
B10.20 ²	B-K-1 Support members for pumps	Integrally welded attachments-pumps	Surface	(3)
B5.5	B-K-2 Support components for pumps	Support components	Visual	
B5.7	B-L-2 Pump casings	Pump casings	Visual	(6)
B5.8	B-P Components exempted from examination by IWB-1220	Exempted components	Visual (IWA-5000)	
-VALVE PRESSURE BOUNDARY-				
B6.210 ²	B-G-1 Pressure-retaining bolting greater than 2 inches in diameter	Pressure-retaining bolts and studs, in place	Volumetric	(2)

SUSQUEHANNA STEAM ELECTRIC STATION
UNIT #2
PRESERVICE EXAMINATION (CONT'D)
(CLASS 1)

<u>ITEM NO.</u>	<u>EXAMINATION CATEGORY (TABLE IWB - 2500)</u>	<u>COMPONENTS AND PARTS TO BE EXAMINED</u>	<u>METHOD</u>	<u>REMARKS¹</u>
B6.220 ²	B-G-1 Pressure-retaining bolting greater than 2 inches in diameter	Pressure-retaining bolts and studs, when removed	Volumetric and Surface	(2)
B6.3	B-G-2 Pressure-retaining bolting smaller than or equal to 2 inches in diameter	Pressure-retaining bolting	Visual	(2)
B6.4	B-K-1 Support members for valves	Integrally welded supports	Volumetric	(3)
B6.5	B-K-2 Support components for valves	Support components	Visual	
B6.7	B-M-2 Valve bodies	Valve bodies	Visual	(6)
B6.8	B-P Components exempted from examination by IWB-1220	Exempted components	Visual (IWA-5000)	

SUSQUEHANNA STEAM ELECTRIC STATION
UNIT #2
PRESERVICE EXAMINATION (CLASS 2)
(CONT'D)

<u>ITEM NO.</u>	<u>EXAMINATION CATEGORY (TABLE IWC - 2600)</u>	<u>COMPONENTS AND PARTS TO BE EXAMINED</u>	<u>METHOD</u>	<u>REMARKS¹</u>
-PRESSURE VESSELS-				
C1.1	C-A	Pressure-retaining welds in pressure vessels	Circumferential butt welds	Volumetric (1)
C1.2	C-B	Pressure-retaining nozzle welds in vessel	Nozzle-to-vessel welds	Volumetric (1)
C3.10 ²	C-C	Integrally welded support attachments to vessels	Integrally-welded support attachments	Surface (3)
C4.10 ²	C-D	Pressure-retaining bolting exceeding 2 inch diameter	Bolts and studs	Volumetric (2)
-PIPING-				
C2.1	C-F	Pressure-retaining welds in piping in systems which circulate reactor coolant	Circumferential butt welds	Volumetric (1)
C2.1	C-G	Pressure-retaining welds in piping in systems which circulate other than reactor coolant	Circumferential butt welds	Volumetric (1)
C2.2	C-F	Pressure-retaining welds in piping in systems which circulate reactor coolant	Longitudinal weld joints in fittings	Volumetric (1)
C2.2	C-G	Pressure-retaining welds in piping in systems which circulate other than reactor coolant	Longitudinal weld joints in fittings	Volumetric (1)

SUSQUEHANNA STEAM ELECTRIC STATION
UNIT #2
PRESERVICE EXAMINATION (CLASS 2)
(CONT'D)

<u>ITEM NO.</u>	<u>EXAMINATION CATEGORY (TABLE IWC - 2600)</u>	<u>COMPONENTS AND PARTS TO BE EXAMINED</u>	<u>METHOD</u>	<u>REMARKS¹</u>
C2.3	C-F Pressure-retaining welds in piping in systems which circulate reactor coolant	Branch pipe-to-pipe weld joints	Volumetric	(1)
C2.3	C-G Pressure-retaining welds in piping in systems which circulate other than reactor coolant	Branch pipe-to-pipe weld joints	Volumetric	(1)
C4.20 ²	C-D Pressure-retaining bolting exceeding 2 inch diameter	Bolts and studs	Volumetric	(2)
C3.40 ²	C-E-1 Support members for piping	Integrally-welded support attachments	Surface	(3)
C2.6	C-E-2 Support components for piping	Support components	Visual	
-PUMPS-				
C3.1	CF Pressure retaining welds in pumps in systems which circulate reactor coolant	Pump shell welds	Volumetric	(7)
C4.30 ²	C-D Pressure-retaining bolting exceeding 1 inch diameter	Bolts and studs	Volumetric	(2)
C3.70 ²	C-E-1 Support members for pumps	Integrally-welded support attachments	Surface	(3)
C3.4	C-E-2 Support components for pumps	Support components	Visual	

SUSQUEHANNA STEAM ELECTRIC STATION
UNIT #2
PRESERVICE EXAMINATION (CLASS 2)
(CONT'D)

<u>ITEM NO.</u>	<u>EXAMINATION CATEGORY (TABLE IWC - 2600)</u>	<u>COMPONENTS AND PARTS TO BE EXAMINED</u>	<u>METHOD</u>	<u>REMARKS¹</u>
-VALVES-				
C4.2.	C-D Pressure-retaining bolting exceeding 2 inch in diameter	Bolts and studs	Volumetric	(2)
C3.100 ²	C-E-1 Support members for valves	Integrally-welded support attachments	Surface	(3)
C4.4	C-E-2 Support components for valves	Support components	Visual	

Footnotes:

1. Numbers listed designate applicable relief requests.
2. Designates item number from upgraded Code edition and addenda.

SUSQUEHANNA UNIT #2
PRESERVICE INSPECTION
RELIEF REQUEST #1

I. IDENTIFICATION OF COMPONENTS:

All components in Class 1 and Class 2 piping systems requiring ultrasonic examinations as the method of examination.

II. CODE REQUIREMENT:

The preservice inspection program for Susquehanna #2 was prepared in accordance with Section XI of the ASME Boiler and Pressure Vessel Code, 1974 Edition to the Summer 1975. This Edition and Addenda does not specifically address volumetric examination of welds in piping systems but references the provisions of Article 5 of ASME Section V.

III. BASIS FOR RELIEF:

Relief is requested from utilizing the provisions of ASME Section V, Article 5, from the referencing code edition and addenda; in lieu of this requirement, PP&L proposes to use Appendix III, "Ultrasonic Examination Method for Class 1 and 2 piping systems made from Ferritic Steels," from the Winter 1975 Addenda.

IV. JUSTIFICATION:

Appendix III, 1977 Edition to the Summer 1978 Addenda, has been accepted for use by incorporation of this edition and addenda into 10CFR50.55a. Appendix III, Winter 1975 Addenda, closely parallels the later Code except that the required examination volume is more conservative in the Winter 1975 Addenda (i.e., Figure IWB-3514.1(a) of Winter 1975 versus Figure IWB-2500-8 of the 1977 Edition).

V. ALTERNATE PROVISIONS:

Appendix III of ASME Winter 1975 Addenda will be used for piping system ultrasonic examination.

SUSQUEHANNA UNIT #2
PRESERVICE INSPECTION
RELIEF REQUEST #2

I. IDENTIFICATION OF COMPONENTS:

All Class 1 and Class 2 bolting in piping, pumps, and valves.

II. CODE REQUIREMENTS:

ASME Section XI, 1974 Edition to the Summer 1975 Addenda requires the following examinations be performed:

ITEM NUMBER	EXAMINATION CATEGORY	COMPONENT	METHOD
B4.2, B5.1, B6.1	B-G-1	Pressure retaining bolting, 2 inches and larger, in place	Volumetric
B4.3, B5.2, B6.2	B-G-1	Pressure retaining bolting, 2 inches and larger, when removed	Volumetric and Surface
B4.4, B5.3, B6.3	B-G-2	Pressure retaining bolting, smaller than 2 inches	Visual
C1.4, C2.4, C3.2, C4.2	CD	Pressure retaining bolting exceeding 1 inch	Visual and either Surface or Volumetric

These examinations must be performed completely as a preservice examination requirement prior to initial plant start-up.

III. BASIS FOR RELIEF:

PP&L requests relief from the examination requirements of ASME Section XI, 1974 Edition to Summer 1975 Addenda; examinations shall be performed in accordance with the more current requirements of ASME Section XI, 1977 Edition to Summer 1978 Addenda as follows:

RELIEF REQUEST #2

ITEM NUMBER	EXAMINATION CATEGORY	COMPONENT	METHOD
B6.150, B6.180, B6.210	B-G-1	Pressure retaining bolting, larger than 2 inches in place	Volumetric
B6.160, B6.190, B6.220	B-G-1	Pressure retaining bolting, larger than 2 inches, when removed	Surface and Volumetric
B.170, B6.200, B6.230	B-G-1	Pressure retaining bolting*	Visual VT-1
B7.50, B7.60, B7.70	B-G-2	Pressure retaining bolting, 2 inches and smaller	Visual VT-1
C4.10, C4.20, C4.30, C4.40	C-D	Pressure retaining bolting exceeding 2 inches	Volumetric

* Nuts, bushings, washers, threads, in base material and flange ligaments between threaded stud holes.

IV. JUSTIFICATION:

The justification for upgrading the 1977 Edition to Summer 1978 Addenda of ASME Section XI for piping system bolting examination, in lieu of the governing code edition and addenda, is to make the Class 2 requirements more closely parallel Class 1 requirements. It is impractical to inspect Class 2 components more stringently than Class 1 components and presents no adverse effect on the integrity of the component or upon overall plant safety.

V. ALTERNATE PROVISIONS:

The requirements of ASME Section XI, 1977 Edition to the Summer 1978 Addenda will be used.

SUSQUEHANNA UNIT #2
PRESERVICE INSPECTION
RELIEF REQUEST #3

I. IDENTIFICATION OF COMPONENTS:

All Class 1 and Class 2 integrally welded support members for piping, pumps, and valves, Class 2 pressure vessels.

II. CODE REQUIREMENTS:

Category B-K-1 of ASME Section XI, 1974 Edition to Summer 1975, requires volumetric examination of welds to the pressure-retaining boundary and the base metal beneath the weld zone and along the support attachment member for a distance of two support thicknesses.

Category C-E-1 of ASME Section XI, 1974 Edition to Summer 1975, requires surface examination of welds to the pressure-retaining boundary and the base metal beneath the weld zone and along the support attachment member for a distance of two support thicknesses.

These examinations must be performed completely as a preservice examination requirement prior to initial plant start-up.

III. BASIS FOR RELIEF:

PP&L requests relief from the examination requirements of ASME Section XI, 1974 Edition to Summer 1975 Addenda; examinations shall be performed in accordance with the more current requirements of ASME Section XI, 1977 Edition to Summer 1978 Addenda as follows:

ITEM NUMBER	EXAMINATION CATEGORY	COMPONENT	METHOD	TEST REQUIREMENTS
B4.9, B6.5	B-K-1	Integrally welded support attachments	Volumetric or Surface*	Table IWB-2500-1
C3.10, C3.40, C3.70, C3.100	C-C C-E-1	Integrally welded support attachments	Surface**	Table IWC-2500-1

* See Figures IWB-2500-13, 14, 15.

** See Figure IWC-2520-5.

RELIEF REQUEST #3

IV. JUSTIFICATION:

The justification for requesting relief from the governing ASME Code Edition and Addenda and upgrading to the requirements of ASME Section XI, 1977 Edition to Summer 1978, are as follows:

1. The weld geometries involved make a meaningful ultrasonic examination, with full coverage of the weld and required volume, questionable.
2. Surface examination of the weld and required surrounding base material is a more reliable and sensitive examination for detecting defects in these welds.
3. Upgrading makes Section XI examination requirements more consistent with Section III construction requirements and, therefore, eliminates additional surface preparation and conflict between the Codes.

V. ALTERNATE PROVISIONS:

The requirements of ASME Section XI, 1977 Edition to the Summer 1978 Addenda will be used.

SUSQUEHANNA UNIT #2
PRESERVICE INSPECTION
RELIEF REQUEST #4

I. IDENTIFICATION OF COMPONENTS:

Class 1 reactor pressure vessel examinations.

II. CODE REQUIREMENT:

The construction permit for SSES Unit #1 was issued 2, 1973. In accordance with the requirements set forth in 10.55a, SSES #1 must comply with the requirements of the 1972 Edition of ASME Section XI up to and including the Summer 1972 Addenda and addenda in effect six (6) months prior to the start of the construction permit. However, the preservice examination program has been upgraded to comply with the 1974 Edition of ASME Section XI and the Summer 1975 addenda.

III. BASIS FOR RELIEF:

Relief is requested to allow for the use of the Winter 1975 Edition of ASME Section XI for reactor pressure vessel examinations.

IV. JUSTIFICATION:

Use of the Winter 1975 Edition of ASME Section XI for reactor pressure vessel examination is justified for the following reasons:

1. The major differences applicable to the reactor pressure vessel between the Summer 1975 Addenda and the Winter 1975 Addenda are:
 - a. Table IWB-2500 Category BA revision; however, for preservice examination, this change has no effect.
 - b. Acceptance standards were added and/or revised; however, all changes were more conservative.
 - c. Changes were made to Appendix I; however, no changes were made to correct typographical errors. These changes provide clarification.
 - d. Personnel qualification requirements were added and were made more conservative (IWA-2300).

RELIEF REQUEST #4

2. Areas forming the basis for not accepting the use of Winter 1975 Addenda are not applicable to SSES #1 RPV preservice examination.

V. ALTERNATE PROVISIONS:

ASME Section XI, 1974 Edition to the Winter 1975 Addenda will be used for the SSES #1 reactor pressure vessel preservice examinations.

SUSQUEHANNA UNIT #2
PRESERVICE INSPECTION
RELIEF REQUEST #5

I. IDENTIFICATION OF COMPONENTS:

Class 1 bottom head meridional weld seams (DA, DB, DC, DD, DE, DF).

II. CODE REQUIREMENTS:

Category B-A of ASME Section XI, 1974 Edition to Winter 1975 Addenda, requires volumetric examinations of essentially 100% of the accessible length of each meridional weld in vessel heads.

Appendix I, Article I-5000, requires the examinations be conducted using two beam angles from each direction (nominal angles of 45 degrees and 60 degrees).

These examinations must be performed completely as a preservice examination requirement prior to initial plant start-up.

III. BASIS FOR RELIEF:

Relief is required from the ASME Section XI examination requirements on the basis of partial coverage of the weld and required volume due to vessel configuration. Interference from the vessel skirt attachment weld buildup results in the unexamined volumes as follows:

0° Base Metal Exam	12% Missed
0° Weld Metal Exam	12% Missed
45° Exam	4% Missed
60° Exam	2% Missed

IV. JUSTIFICATION:

The justification for requesting relief from ASME Section XI examination requirements is as follows:

1. A composite of all examination angles shows that a volume equal to two (2) percent of the required examination volumes for weld DA, DB, DC, DD, DE and DF are completely unexamined. All other areas have been covered by any or all of the 0°, 45°, and 60° scans.
2. The integrity of the welds have been verified by ultrasonic and magnetic particle testing during fabrication.
3. Welds were visually examined for leakage during RPV hydrotest.

V. ALTERNATE PROVISIONS:

Alternate NDE methods are not feasible for this examination.

SUSQUEHANNA UNIT #2
PRESERVICE INSPECTION
RELIEF REQUEST #6

I. IDENTIFICATION OF COMPONENTS:

Bodies of Class 1 valves exceeding four (4) inches nominal pipe size; Class 1 reactor recirculation pump casings.

II. CODE REQUIREMENTS:

Category B-M-2 of ASME Section XI, 1974 Edition to Summer 1975 Addenda, requires visual examination of the internal pressure boundary surfaces on valves exceeding four (4) inches nominal pipe size. One valve in each group of valves of the same constructional design must be inspected.

Category B-L-2 of ASME Section XI, 1974 Edition to Summer 1975 Addenda, requires visual examination of the internal pressure boundary surfaces of one pump in each group of pumps performing similar functions in the system.

III. BASIS FOR RELIEF:

Relief is requested from the ASME Section XI examination requirements on the basis of inaccessibility of the pump and valve internal pressure boundary surfaces.

IV. JUSTIFICATION:

The justification for requesting relief from ASME Section XI preservice examination requirements is as follows:

1. The structural integrity of the piping pressure boundary has been verified by construction code testing requirements.
2. The body, bonnet, and disc of the valves have received shop surface examinations, i.e., liquid penetrant and/or magnetic particle. Radiography was also performed on the body.
3. The pump casings received RT and PT prior to machining. All machined surfaces were penetrant tested, and pumps were hydrostatic leak tested after final machining.
4. All pressure retaining materials have met ASME Section II specifications which require visual examination of the casting or forging and surfaces free of injurious defect.

V. ALTERNATE PROVISIONS:

A visual examination will be performed should any of the affected components become accessible during maintenance activities.

SUSQUEHANNA UNIT #2
PRESERVICE INSPECTION
RELIEF REQUEST #7

I. IDENTIFICATION OF COMPONENTS:

Class 2, Category CF and CG pressure retaining welds in Core Spray (2P206A,B,C,D) and RHR (2P202A,B,C,D) pumps.

II. CODE REQUIREMENTS:

Category CF/CG - Table IWC-2600, Item Number C3.1 of ASME Section XI, 1974 Edition to Summer 1975 Addenda, requires full volumetric examination of 100% and 50%*, respectively, of pump casing welds. These examinations must be performed completely as a preservice examination requirement prior to initial plant start-up.

*Excluding those exempt per IWC-1220.

III. BASIS FOR RELIEF:

Relief is required from the ASME Section XI examination requirements on the basis of inaccessibility of the weld and required volume due to pump installation.

IV. JUSTIFICATION:

The justification for requesting relief from ASME Section XI examination requirements is as follows:

1. The structural integrity of the pump pressure boundary has been established by ASME Section III testing requirements.
2. Accessible pump casing welds have been satisfactorily inspected to ASME Section XI.
3. Pump installation meets manufacturer requirements.

V. ALTERNATE PROVISIONS:

Welds are inaccessible for alternate NDE methods.

RELIEF REQUEST #7

WELD IDENTIFICATION NUMBER	CODE CATEGORY AND ITEM NUMBER	SYSTEM	CONFIGURATION	NATURE OF OBSTRUCTION	% OF SCAN OBSTRUCTED (APPROXIMATE)
2P-206A,B,C-359-2-L2	CG C3.1	Core Spray	Shell Longitudinal Seam	Encased in Concrete	Totally
2P-206B,D-359-1-2	CG C3.1	Core Spray	Hub Flange to Shell	Encased in Concrete	Totally
2P-206A-359-2-L1	CG C3.1	Core Spray	Shell Longitudinal Seam	Encased in Concrete	Totally
2P202A,B,C,D-359-1-2	CF C3.1	RHR	Hub Flange to Shell	Encased in Concrete	Totally
2P202A,B,C,D-359-2-L2	CF C3.1	RHR	Shell Longitudinal Seam	Encased in Concrete	Totally
2P202A,B,C,D-359-2-2	CF C3.1	RHR	Shell Circumferential Seam	Encased in Concrete	Totally
2P202A,B,C,D-359-2-L1	CF C3.1	RHR	Shell Longitudinal Seam	Encased in Concrete	Totally
2P202A,B,C,D,-359-2-3	CF C3.1	RHR	Shell to Bottom Head	Encased in Concrete	Totally
2P202A,B,C,D,-359-3-7	CF C3.1	RHR	Bottom Head to Bearing Housing	Encased in Concrete	Totally
2P202A,B,C,D-361-2-6	CF C3.1	RHR	Discharge Elbow to Bottom Plate Flange	Encased in Concrete	Totally
2P202A,B,C,D,-361-6-7	CF C3.1	RHR	Discharge Elbow to Sleeve Forging	Encased in Concrete	Totally
2P202A,B,C,D,-361-7-8	CF C3.1	RHR	Sleeve Forging to Top Closure Plate	Encased in Concrete	Totally

RELIEF REQUEST #7

ASME
SECTION III
EXAMINATION

SAFETY IMPACT

PT, RT	During normal plant power operation, weld is not pressurized. During normal system operation, weld is under a maximum pressure of 475 psig. Leak detection system detects significant leakage; plant can be safely cooled down by unaffected core spray loop.	
PT, RT	"	"
PT, RT	"	"
PT, RT	During normal plant power operation, weld is not pressurized. During normal system operation, weld is under a maximum pressure of 460 psig. Leakage can be detected by leak detection system and can affect one RHR loop. Plant can be safely cooled down by unaffected RHR loop.	
PT, RT	"	"
PT, RT	"	"
PT, RT	"	"
PT, RT	"	"
PT, RT	"	"
PT, RT	"	"
PT, RT	"	"
PT, RT	"	"
PT, RT	"	"