

July 31, 1981

Revision No. 6 to Prairie Island ASME Code Section XI Inservice Inspection  
and Testing Program and Information Required for NRC Review of Requests  
for Relief from ASME Code Section XI Requirements, dated February 1, 1978

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Use the "Record of Revisions," pages iii and iv to verify your copy of the manual is complete and up-to-date following entry of this revision.

NORTHERN STATES POWER COMPANY  
PRAIRIE ISLAND NUCLEAR GENERATING PLANT  
DOCKET NOS. 50-282    LICENSE NOS. DPR-42  
                  50-306                    DPR-60

ASME CODE SECTION XI INSERVICE INSPECTION AND TESTING PROGRAM  
AND  
INFORMATION REQUIRED FOR NRC REVIEW OF REQUESTS FOR RELIEF FROM  
ASME CODE SECTION XI REQUIREMENTS

SUBMITTED: February 1, 1978

REVISED: Revision 1  
September 15, 1978

Revision 2  
June 8, 1979

Revision 3  
September 19, 1979

Revision 4  
April 17, 1980

Revision 5  
September 3, 1980

Revision 6  
July 31, 1981

# RECORD OF REVISIONS

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1.4-19 thru 1.4-20	1	1.5-57 thru 1.5-58	Original
1.4-21	4	1.5-59	6
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1.4-23	4	1.5-61 thru 1.5-62	Original
1.4-24 thru 1.4-34	1	1.5-63	6
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2.1.2-1	4	2.5-36	Original
2.1.2-2 thru 2.1.2-24	6	2.5-37 thru 2.5-40	6
2.1.3-1	4	2.5-41 thru 2.5-43	Original
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2.3.2	Original	2.5-46 thru 2.5-47	Original
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2.4-5	4	2.5-54	4
2.4-6 thru 2.4-7	1	2.5-55 thru 2.5-56	1
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2.4-18 thru 2.4-28	1	4-10 thru 4-13	2
2.5-1	2	4-14 thru 4-19	Original
2.5-2 thru 2.5-4	1	4-20 thru 4-22	2
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NORTHERN STATES POWER CO.  
PRAIRIE ISLAND UNIT 1

TEN YEAR INTERVAL INSPECTION SUMMARY

TABLE 1.1

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MAJOR ITEM: REACTOR VESSEL

SUB ITEM	EXAM CATEGORY	COMPONENT OR SYSTEM, AND DESCRIPTION OF ITEM TO BE EXAMINED	TOTAL NO. PER ITEM	NDE METHODS	IDENTIFICATION	EXAMINATION AMOUNT AND EXTENT	INSPECTION PERIOD	LOCATION OR SYSTEM NUMBER	RUNNING PERCENT	REMARKS
B1.1	B-A	LONGITUDINAL AND CIRCUMFERENTIAL SHELL WELDS IN CORE REGION								REQUIRES THE REMOVAL OF CORE BARREL
		LONGITUDINAL WELDS	NONE	---	---	---	---	---	---	
		CIRCUMFERENTIAL WELDS	1	U.T.	WELD NO. 3 (ISI-48)	21 FEET (MIN.)	THREE	LOWER SHELL ASSEMBLY TO INTERMEDIATE WELD	50	RELIEF NO. 55
B1.2	B-B	LONGITUDINAL AND CIRCUMFERENTIAL WELDS IN SHELL (OTHER THAN THOSE OF CATEGORY B-A AND B-C) AND MERIDIONAL AND CIRCUMFERENTIAL SEAM WELDS IN BOTTOM HEAD AND CLOSURE HEAD (OTHER THAN THOSE OF CATEGORY B-C)								REQUIRES THE REMOVAL OF CORE BARREL
		LONGITUDINAL WELDS	NONE	---	---	---	---	---	---	
		MERIDIONAL WELDS	NONE	---	---	---	---	---	---	
		CIRCUMFERENTIAL WELDS	3	U.T.	WELD NO.2 (ISI-48)	25 INCHES (MIN.)	THREE	UPPER SHELL ASSEMBLY TO LOWER SHELL ASSEMBLY	5	RELIEF NO. 55
					WELD NO.4 (ISI-48)	25 INCHES (MIN.)	THREE	LOWER TRANSITION HEAD TO SHELL WELD	5	
					WELD NO. 5 (ISI-48)	25 INCHES (MIN.)	THREE	BOTTOM HEAD RING TO LOWER TRANSITION HEAD WELD	5	
B1.3	B-C	VESSEL-TO-FLANGE AND HEAD-TO-FLANGE CIRCUMFERENTIAL WELDS								RELIEF NO. 55
		VESSEL TO FLANGE	1	U.T.	WELD NO.1 (ISI-48)	CLOCKWISE, 14 FT (MIN.)	ONE	VESSEL FLANGE	33	
						CLOCKWISE, 12 FT. (MIN.)	TWO	VESSEL FLANGE	62	
						CLOCKWISE, 16 FT. (MIN.)	THREE	VESSEL FLANGE	100	

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NORTHERN STATES POWER CO.  
PRAIRIE ISLAND UNIT 1

TEN YEAR INTERVAL INSPECTION SUMMARY

TABLE 1.1

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MAJOR ITEM: REACTOR VESSEL

SUB ITEM	EXAM. CATEGORY	COMPONENT OR SYSTEM, AND DESCRIPTION OF ITEM TO BE EXAMINED	TOTAL NO. PER ITEM	NDE METHODS	IDENTIFICATION	EXAMINATION AMOUNT AND EXTENT	INSPECTION PERIOD	LOCATION OR SYSTEM NUMBER	RUNNING PERCENT	REMARKS
B1.4	B-D	HEAD TO FLANGE	1	U.T.	WELD NO. 6 (ISI-49)	CLOCKWISE, 14 FEET (MIN.) CLOCKWISE, 14 FEET (MIN.) CLOCKWISE, 14 FEET (MIN.)	ONE TWO THREE	HEAD FLANGE HEAD FLANGE HEAD FLANGE	33 66 100	RELIEF NO. 55  INSPECTION OF INLET NOZZLES AND SI NOZZLES REQUIRES REMOVAL OF CORE BARREL.
		PRIMARY NOZZLE-TO-VESSEL WELDS AND NOZZLE INSIDE RADIUSED								
		REACTOR CORE COOLANT NOZZLES								
		OUTLET NOZZLES	2	U.T.	RCC-A-1 (ISI-50) RCC-B-1 (ISI-50)	1 WELD (100%) 1 WELD (100%)	ONE TWO	180° (29-RC-1A) 90° (29-RC-1B)	25 50	
		INLET NOZZLES	2	U.T.	RCC-A-14 (ISI-50) RCC-B-14 (ISI-50)	1 WELD (100%) 1 WELD (100%)	THREE THREE	120° (27.5-RC-3A) 300° (27.5-RC-3B)	75 100	
		SAFETY INJECTION NOZZLES	2	U.T.	LOOP A (ISI-30) LOOP B (ISI-30)	1 WELD (100%) 1 WELD (100%)	THREE THREE	260° (4-RC-14A) 80° (4-RC-14B)	50 100	
B1.5	B-E	VESSEL PENETRATIONS, INCLUDING CONTROL ROD DRIVE AND INSTRUMENTATION PENETRATIONS								PLANT OPERATIONS
		CONTROL ROD PENETRATIONS	40	V		3 PENETRATIONS (MIN.) 3 PENETRATIONS (MIN.) 4 PENETRATIONS (MIN.)	ONE TWO THREE	TOP OF REACTOR VESSEL CLOSURE HEAD	9 15 25	
		INSTRUMENTATION PENETRATIONS	36	V		3 PENETRATIONS (MIN.) 3 PENETRATIONS (MIN.) 3 PENETRATIONS (MIN.)	ONE TWO THREE	UNDER REACTOR VESSEL BOTTOM HEAD	0 17 25	

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NORTHERN STATES POWER CO.  
GRAIRIE ISLAND UNIT 1

TEN YEAR INTERVAL INSPECTION SUMMARY

TABLE 1.1  
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MAJOR ITEM: REACTOR VESSEL

SUB ITEM	EXAM. CATE- GORY	COMPONENT OR SYSTEM, AND DESCRIPTION OF ITEM TO BE EXAMINED	TOTAL NO. PER ITEM	NDE METHODS	IDENTIFICATION	EXAMINATION AMOUNT AND EXTENT	INSP- TION PERIOD	LOCATION OR SYSTEM NUMBER	RUNNING PERCENT	REMARKS
B1.6	B-F	REACTOR VESSEL HEAD VENT  NOZZLE-TO-SAFE END WELDS  REACTOR CORE COOLANT NOZZLES OUTLET NOZZLE SAFE END WELDS INLET NOZZLE SAFE END WELDS  REACTOR VESSEL SAFETY IN- JECTION NOZZLES NOZZLE A SAFE END WELD NOZZLE B SAFE END WELD  CLOSURE STUDS AND NUTS  LIGAMENTS BETWEEN THREADED STUD HOLES  CT. W/ WASHERS AND BUSHINGS ...ERS  BUSHINGS	1  2 2  2  48  48  48PRS. NONE	V  S-U.T. S-U.T.  S-U.T.  S-U.T.  U.T.  V —	1-RC-36 to RC-8-5  (ISI-50) RCC-A-1S.E. RCC-B-1S.E. RCC-A-14S.E. RCC-B-14S.E.  (ISI-30) WELD NO. 1 S.E. WELD NO. 1 S.E.  1 THRU 16 17 THRU 31 & 33 32 & 34 thru 48 (ISI-37) 4 THRU 14 & 23 THRU 29 16, 17 & 32 THRU 42 REMAINDER (ISI-48) (ISI-37) 1 THRU 16 17 THRU 31 & 33 32 & 34 thru 48	1 PENETRATION EXAMINATION IN ACCORDANCE WITH CATEGORY B-P  1 WELD (100%) 1 WELD (100%) 1 WELD (100%) 1 WELD (100%)  1 WELD (100%) 1 WELD (100%)  16 (100%) 16 (100%) 16 (100%)  16 (100%) 13 (100%) 19 (100%)  16 PAIRS (100%) 16 PAIRS (100%) 16 PAIRS (100%)	ONE TWO THREE THREE  ONE THREE  ONE TWO THREE  ONE TWO THREE  ONE TWO THREE	1-RC-36 TO RC-8-5  180° 0°  120° 300°  260° 80°  0° 120° 240° 360°  VESSEL FLANGE VESSEL FLANGE VESSEL FLANGE  —	25 50  75 100  50 100  33 66 100  33 60 100  33 66 100 —	NOZZLE-TO-SAFE END WELD AND SAFE END-TO-PIPE WELD (B4.1) EXAMINE AS ONE. (SAND PLUG REMOVAL REQ.) RELIEF NO. 55

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NORTHERN STATES POWER CO.,  
FAIRIE ISLAND UNIT 1

TEN YEAR INTERVAL INSPECTION SUMMARY

TABLE 1.3.1

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STEAM GENERATORS  
MAJOR ITEM: NO. 11 AND NO. 12

SUB ITEM	EXAM. CATE-GORY	COMPONENT OR SYSTEM, AND DESCRIPTION OF ITEM TO BE EXAMINED	TOTAL NO. PER ITEM	NDE METHODS	IDENTIFICATION	EXAMINATION AMOUNT AND EXTENT	INSPEC-TION PERIOD	LOCATION OR SYSTEM NUMBER	RUNNING PERCENT	REMARKS
B3.8	B-1-2	VESSEL CLADDING STEAM GENERATOR NO. 11	1	V	INLET	1 PATCH, 36 SQ IN	ONE	BELOW MANWAY	—	RELIEF NO. 51
			1	V	OUTLET	1 PATCH, 36 SQ IN	ONE	BELOW MANWAY	—	
		STEAM GENERATOR NO. 12	1	V	INLET	1 PATCH, 36 SQ IN	ONE	BELOW MANWAY	—	
			1	V	OUTLET	1 PATCH, 36 SQ IN	ONE	BELOW MANWAY	—	
B3.9	B-P	EXEMPTED COMPONENTS	NONE	—	—	—	—	—	—	
B3.10	B-G-2	PRESSURE-RETAINING BOLTING ( $< 2$ IN. DIA)								
		STEAM GENERATOR NO. 11 MANWAY BOLTING	16	V	INLET MANWAY	6 BOLTS (1 THRU 6) 6 BOLTS (6 THRU 11) 6 BOLTS (11 THRU 16)	ONE TWO THREE	MANWAY COVERS OF CHANNEL HEAD	31 63 100	REPEAT INSPECTIONS. 6 BOLTS ARE EXAMINED EACH PERIOD WITH PERCENTAGE ACCREDITED FOR 5 BOLTS DURING PERIOD ONE AND TWO.
			16	V	OUTLET MANWAY	6 BOLTS (1 THRU 6) 6 BOLTS (6 THRU 11) 6 BOLTS (11 THRU 16)	ONE TWO THREE		31 63 100	
		STEAM GENERATOR NO. 12 MANWAY BOLTING	16	V	INLET MANWAY	6 BOLTS (1 THRU 6) 6 BOLTS (6 THRU 11) 6 BOLTS (11 THRU 16)	ONE TWO THREE		31 63 100	
			16	V	OUTLET MANWAY	6 BOLTS (1 THRU 6) 6 BOLTS (6 THRU 11) 6 BOLTS (11 THRU 16)	ONE TWO THREE		31 63 100	



NORTHERN STATES POWER CO.  
PRAIRIE ISLAND UNIT 1

TEN YEAR INTERVAL INSPECTION SUMMARY

TABLE 1.4

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MAJOR ITEM: PIPING PRESSURE BOUNDARY

SUB ITEM	EXAM. CATE- GORY	COMPONENT OR SYSTEM, AND DESCRIPTION OF ITEM TO BE EXAMINED	TOTAL NO. PER ITEM	NDE METHODS	IDENTIFICATION	EXAMINATION AMOUNT AND EXTENT	INSP- TION PERIOD	LOCATION OR SYSTEM NUMBER	RUNNING PERCENT	REMARKS
B4.9	B-K-1	(Continued)								
		SEAL INJECTION	3	UT	WELDED SUPPORTS LOOP A-2" ISI-11	1-SUPPORT 100%	THREE	EL 695' (2-VC-21A) (1.5-VC-21A)	—	
		SAFETY INJECTION - HIGH HEAD	1	UT	WELDED SUPPORTS LOOP B-2" ISI-24	— —	—	CUBICLE B (2-S1-35B)	—	
		LETDOWN LINE - CVCS	1	UT	WELDED SUPPORTS LOOP B-2" ISI-26	— —	—	EL 695' (2-RC-12)	—	
		SEAL INJECTION	3	UT	WELDED SUPPORTS LOOP B-2" ISI-27	1-SUPPORT 100%	THREE	CUBICLE B (2-VC-21B)	26	
		RESIDUAL TEMPERATURE DETECTOR TAKE OFF - COLD LEG	1	UT	WELDED SUPPORT LOOP A-2" ISI-7	— —	—	CUBICLE A (2-RC-8A)	—	
B4.10	B-K-2	<u>SUPPORT COMPONENTS</u>			(NON-WELDED)					
		REACTOR CORE COOLANT	4	V	SUPPORTS LOOP A-31" & 27.5" ISI-12	1-SUPPORT 100% 1-SUPPORT 100% 1-SUPPORT 100%	ONE THREE THREE	CUBICLE A (31-RC-2A) CUBICLE A (31-RC-2A) SANDPLUG (27.5-RC-3A)	25 50 75	NOTE: 2 RESTRAINTS ADDED 1980 OUTAGE
		ACCUMULATOR DISCHARGE	NONE	—	SUPPORTS LOOP A-12" ISI-2	— —	—	— (12-RC-16A)	—	
		RESIDUAL HEAT REMOVAL- TAKE OFF	16	V	SUPPORTS LOOP A-8" ISI-3	4-SUPPORTS 100% 6-SUPPORTS 100% 6-SUPPORTS 100%	ONE TWO THREE	EL 695', 711 (8-RC-15A) EL 695' CUBICLE A EL 695' (8-RH-1A)	25 63 100	
		SAFETY INJECTION-HIGH HEAD	NONE	—	SUPPORTS LOOP A-6" ISI-4	— —	—	— (6-RC-13B)	—	

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NORTHERN STATES POWER CO.  
PRAIRIE ISLAND UNIT 1

TEN YEAR INTERVAL INSPECTION SUMMARY

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MAJOR ITEM: PIPING PRESSURE BOUNDARY

SUB ITEM	EXAM. CATE- GORY	COMPONENT OR SYSTEM, AND DESCRIPTION OF ITEM TO BE EXAMINED	TOTAL NO. PER ITEM	NDE METHODS	IDENTIFICATION	EXAMINATION AMOUNT AND EXTENT	INSPEC- TION PERIOD	LOCATION OR SYSTEM NUMBER	RUNNING PERCENT	REMARKS
B4.10	B-K-2	(Continued)			(NON-WELDED)					
		SPRAY TO PRESSURIZER	1	V	SUPPORTS BRANCH A-3" ISI-5	4-SUPPORTS 100% 3-SUPPORTS 100% 4-SUPPORTS 100%	ONE TWO THREE	EL 702', CUBICLE B (3-RC-5) CUBICLE A, 702' (3-RC-5) EL 702' (3-RC-5)	36 64 100	
		RESISTANCE TEMPERATURE DETECTOR-RETURN	2	V	SUPPORTS LOOP A-3" ISI-6	1-SUPPORT 100% 1-SUPPORT 100%	TWO THREE	CUBICLE A (3-RC-6A) CUBICLE A (3-RC-6A)	50 100	
		RESISTANCE TEMPERATURE DETECTOR-TAKE OFF (COLD LEG)	5	V	SUPPORTS LOOP A-2" ISI-7	1-SUPPORT 100% 2-SUPPORTS 100% 2-SUPPORTS 100%	ONE TWO THREE	CUBICLE A (2-RC-8A) CUBICLE A (2-RC-8A) CUBICLE A (2-RC-8A)	20 60 100	
		RESISTANCE TEMPERATURE DETECTOR-TAKE OFF - LOOP A (HOT LEG)	4	V	SUPPORTS LOOP A-2" ISI-8	1-SUPPORT 100% 1-SUPPORT 100% 2-SUPPORTS 100%	ONE TWO THREE	CUBICLE A (2-RC-7A) CUBICLE A (2-RC-7A) CUBICLE A (2-RC-7A)	25 50 100	
		SAFETY INJECTION - HIGH HEAD	1	V	SUPPORTS LOOP A-2" ISI-9	1-SUPPORT 100%	THREE	CUBICLE A (2-S1-35A)	100	
		DRAIN LINE ON CROSSOVER	3	V	SUPPORTS LOOP A-2" ISI-10	1-SUPPORT 100% 1-SUPPORT 100% 1-SUPPORT 100%	ONE TWO THREE	EL 695' (2-RC-10A) EL 695' (2-RC-10A) EL 695' (2-RC-11A)	33 66 100	
		SEAL INJECTION	19	V	SUPPORTS LOOP A-2" & 1 1/2" ISI-11	6-SUPPORTS 100% 6-SUPPORTS 100% 7-SUPPORTS 100%	ONE TWO THREE	EL 695' (2-VC-21A) CUBICLE A, EL 695' EL 695', 711' (2-VC-21A)	32 63 100	
		REACTOR CORE COOLANT	4	V	SUPPORTS LOOP B-31" & 27.5" ISI-13	1-SUPPORT 100% 1-SUPPORT 100% 1-SUPPORT 100%	TWO THREE THREE	CUBICLE B (31-RC-2B) CUBICLE B (31-RC-2B) SANDPLUG (27.5-RC-3B)	25 50 75	NOTE: 2 RESTRAINTS ADDED 1980 OUTAGE

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TEN YEAR INTERVAL INSPECTION SUMMARY

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MAJOR ITEM: PIPING PRESSURE BOUNDARY

SUB ITEM	EXAM. CATEGORY	COMPONENT OR SYSTEM, AND DESCRIPTION OF ITEM TO BE EXAMINED	TOTAL NO. PER ITEM	NDE METHOD	IDENTIFICATION	EXAMINATION AMOUNT AND EXTENT	INSPECTION PERIOD	LOCATION OR SYSTEM NUMBER	RUNNING PERCENT	REMARKS
B4.10	B-K-2	(Continued)								
		ACCUMULATOR DISCHARGE	1	V	SUPPORTS LOOP B-12" ISI-17	1-SUPPORT 100%	ONE	EL 695' (12-RC-16B) (12-S1-27B)	100	
		RESIDUAL HEAT REMOVAL-RETURN	4	V	SUPPORTS LOOP B-10" ISI-18	1-SUPPORT 100% 1-SUPPORTS 100% 2-SUPPORTS 100%	ONE TWO THREE	EL 695' (10-S1-26) EL 695' (10-S1-26) EL 695' (10-S1-26)	25 50 100	
		RESIDUAL HEAT REMOVAL - TAKE OFF	11	V	SUPPORTS LOOP B - 8" ISI - 19	3-SUPPORTS 100% 4-SUPPORTS 100% 4-SUPPORTS 100%	ONE TWO THREE	EL 695' (8-RH-1B) EL 695' CUBICLE B EL 695' (8-RC-15B)	27 64 100	
		SAFETY INJECTION-HIGH HEAD -	NONE	—	SUPPORTS LOOP B-6" ISI-20	—	—	— (6-RC-13D)	—	
		SPRAY TO PRESSURIZER	10	V	SUPPORTS BRANCH B-3" ISI-5	3-SUPPORTS 100% 3-SUPPORTS 100% 4-SUPPORTS 100%	ONE TWO THREE	CUBICLE B (3-RC-5) CUBICLE B (3-RC-5) CUBICLE B (3-RC-5)	30 60 100	
		RESISTANCE TEMPERATURE DETECTOR - RETURN	2	V	SUPPORTS LOOP B-3" ISI-21	1-SUPPORT 100% 1-SUPPORT 100%	TWO THREE	CUBICLE B (3-RC-6E) CUBICLE B (3-RC-6B)	50 100	
		RESISTANCE TEMPERATURE DETECTOR-TAKE OFF (COLD LEG)	5	V	SUPPORTS LOOP B-2" ISI-22	1-SUPPORT 100% 2-SUPPORTS 100% 2-SUPPORTS 100%	ONE TWO THREE	CUBICLE B (2-RC-8B) CUBICLE B (2-RC-8B) CUBICLE B (2-RC-8B)	20 50 100	
		RESISTANCE TEMPERATURE DETECTOR-TAKE OFF (HOT LEG)	5	V	SUPPORTS LOOP B-2" ISI-23	1-SUPPORT 100% 2-SUPPORTS 100% 2-SUPPORTS 100%	ONE TWO THREE	CUBICLE B (2-RC-7B) CUBICLE B (2-RC-7B) CUBICLE B (2-RC-7B)	20 60 100	
		SAFETY INJECTION - HIGH HEAD	2	V	SUPPORTS LOOP B-2" ISI-24	1-SUPPORT 100% 1-SUPPORT 100%	ONE THREE	CUBICLE B (2-S1-35B) CUBICLE B (2-S1-35B)	50 100	
		DRAIN LINE ON CROSSOVER	1	V	SUPPORTS LOOP B-2" ISI-27	1-SUPPORT 100%	TWO	CUBICLE B (2-RC-10B)	100	

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TEN YEAR INTERVAL INSPECTION SUMMARY

MAJOR ITEM: REACTOR CORE COOLANT PUMPS

SUB ITEM	EXAM. CATE-GORY	COMPONENT OR SYSTEM, AND DESCRIPTION OF ITEM TO BE EXAMINED	TOTAL NO. PER ITEM	NDE METHOD	IDENTIFICATION	EXAMINATION AMOUNT AND EXTENT	INSPECTION PERIOD	LOCATION OR SYSTEM NUMBER	RUNNING PERCENT	REMARKS
B5.4	B-K-1	<u>INTEGRALLY WELDED SUPPORTS</u> PUMP A	3	* S-UT	SUPPORT A (45°) SUPPORT B (180°) SUPPORT C (315°)	1 SUPPORT 100% 1 SUPPORT 100% 1 SUPPORT 100%	TWO TWO THREE	DISCHARGE NOZZLE AT 0° PT PT PT	33 66 100 100	* RELIEF NO. 47
B5.5	B-K-2	<u>SUPPORT COMPONENTS</u>  PUMP A COLUMN AND LATERAL SUPPORTS  PUMP B COLUMN AND LATERAL SUPPORTS	3	V	SUPPORT A (45°) SUPPORT B (180°) SUPPORT C (315°)	1 (LAT & COL) SUPPORTS SUPPORTS  1 (LAT + COL) SUPPORTS SUPPORTS	ONE TWO THREE	PUMP A  PUMP B	33 66 100	EACH PUMP SUPPORT CONSISTS OF A LATERAL AND COLUMN COMPONENT AND EACH SUPPORT INSPECTION SHALL INCLUDE BOTH COMPONENTS
B5.6	B-L-1	<u>PUMP CASING WELDS</u> PUMP A  PUMP B	NONE  1	—  S-UT	MFG-BIRDSBORO S/N 545  ESCO SN561	—  PUMP CASING WELDS	—  THREE	—  PUMP B	—  100	RELIEF NO. 63
B5.7	B-L-2	<u>PUMP CASINGS</u> PUMP A & B	2	V	ESCO SN561	INTERIOR SURFACES	THREE	PUMP B	50	
B5.8	B-P	<u>EXEMPTED COMPONENTS</u>	NONE							

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TEN YEAR INTERVAL INSPECTION SUMMARY

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MAJOR ITEM: VALVE PRESSURE BOUNDARY

SUB ITEM	EXAM. CATEGORY	COMPONENT OR SYSTEM, AND DESCRIPTION OF ITEM TO BE EXAMINED	TOTAL NO. PER ITEM	NDE METHODS	IDENTIFICATION	EXAMINATION AMOUNT AND EXTENT	INSPECTION PERIOD	LOCATION OF SYSTEM NUMBER	RUNNING PERCENT	REMARKS
B6.1, B6.2 AND B6.3	B-G-1	<u>PRESSURE-RETAINING BOLTS AND STUDS (≥ 2 IN. DIA.)</u>	NONE	—	—	—	—	—	—	—
B6.4	B-K-1	<u>INTEGRALLY WELDED SUPPORTS</u>	NONE	—	—	—	—	—	—	—
B6.5	B-K-2	<u>SUPPORT COMPONENTS</u>	REMARK	V	—	REMARKS	—	—	—	INCLUDED IN TABLE 1.4 UNDER ITEM B4.10
B6.6	B-M-1	<u>VALVE BODY WELDS</u>	NONE	—	—	—	—	—	—	*SPECIFIC VALVE SUBJECT TO PLANT MAINTENANCE SCHEDULES
B6.7	B-M-2	<u>VALVE BODIES</u> ○ 1/4 IN. NOM. PIPE SIZE) REACTOR VESSEL SAFETY INJECTION LOW HEAD RESIDUAL HEAT REMOVAL TAKE OFF PRESSURIZER SAFETY LINE RESIDUAL HEAT REMOVAL RETURN ACCUMULATOR DISCHARGE	4*	V	VELAN 6" CHECK 8843A LOOP A ISI-30 VELAN 8" M.O. GATE 8702A LOOP A ISI-19 CROSBY 6" SAFETY VALVE 8010A ISI-29 DARLING 10" M.O. GATE 8703, LOOP B ISI-18	1-VALVE INTERIOR 100% 1-VALVE INTERIOR 100% 1-VALVE INTERIOR 100% 1-VALVE INTERIOR 100%	THREE THREE THREE THREE	EL 711' (6-S1-25A) EL 702' (8-RC-15A) CUBICLE B TOP OF PZR EL 711' (10-S1-26)	50 25 50 100	—
B6.8	B-P	<u>EXEMPTED COMPONENTS</u>	REMARK	—	—	REMARKS	—	CUBICLE A (12-RC-16A)	25	COMPONENTS EXAMINED IN ACCORDANCE WITH IWA-5000 DUE TO EACH SYSTEM LEAKAGE TEST AND EACH SYSTEM HYDRO STATIC TEST REQUIRED BY IWB-5000.

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TEN YEAR INTERVAL INSPECTION SUMMARY

TABLE 2.1.1

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MAJOR ITEM: PRESSURE VESSELS - STEAM GENERATORS

SUB ITEM	EXAM CATEGORY	COMPONENT OR SYSTEM, AND DESCRIPTION OF ITEM TO BE EXAMINED	NDE METHODS	TOTAL ITEMS	ACCESSIBLE ITEMS	40 YR. EXAM	10 YR. EXAM	INSPECTION PERIOD (10 YR.)	(40 YEAR) PERCENT	LOCATION	REMARKS
C1.1	C-A	CIRCUMFERENTIAL BUTT WELDS STEAM GENERATOR No. 11 (MULTIPLE STREAMS) STEAM GENERATOR No. 12 No. 11 WELD B T=3.25" L=35' No. 11 WELD F T=3.68" TO 3.62" L=46' No. 12 WELD C T=3.25" TO 2.82" L=35' No. 12 WELD E T=2.82" TO 3.68" L=35' No. 12 WELD H T=3.62" L=46'	UT UT UT UT UT UT UT	5 5	5 5	2 3 20% 20% 20% 20% 20%	1 1 20% - - - 20%	- - TWO - - - THREE	- - 20% 20% 20% 20% 20%	CONTAINMENT CONTAINMENT TUBESHEET TO SHELL TRANSITION TO SHELL SHELL TO SHELL SHELL TO TRANSITION SHELL TO HEAD	ISI-43 ISI-43 EXAMINATION OF EACH CIRCUMFERENTIAL WELD WILL INCLUDE THREE AREAS THAT ARE DISTRIBUTED AROUND THE VESSEL AS UNIFORMLY AS POSSIBLE.
C1.2	C-B	NOZZLE TO VESSEL WELDS STEAM GENERATOR No. 11 (MULTIPLE STREAMS) STEAM GENERATOR No. 12 No. 11 M.S. NOZZLE(32") No. 11 F.W. NOZZLE(16") No. 12 M.S. NOZZLE(32") No. 11 F.W. NOZZLE(16")	UT UT UT UT UT	2 2	2 2	1 1 - 1 1	- 1 - 1 -	- - - THREE -	- - 100% 100%	CONTAINMENT CONTAINMENT EL795' EL771' EL795' EL771'	ISI-43 ISI-43
C1.3	C-C	INTEGRALLY WELDED SUPPORTS	-	NONE	-	-	-	-	10 YEAR PERCENT		RELIEF 48
C1.4	C-D	PRESSURE RETAINING BOLTS STEAM GENERATOR No. 11 (MULTIPLE STREAMS) STEAM GENERATOR No. 12 No. 11 MANWAY A No. 11 MANWAY B No. 12 MANWAY A No. 12 MANWAY B	V&UT V&UT V&UT V&UT V&UT	40 40	40 40	- - - - -	20 20 20 - 20	- - TWO - THREE	- - 100% 100%	CONTAINMENT CONTAINMENT UPPER SHELL UPPER SHELL UPPER SHELL UPPER SHELL	ISI-43 ISI-43 UT WILL BE PERFORMED AS A MINIMUM ON 10% OF THE BOLTS ON EACH JOINT.

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TEN YEAR INTERVAL INSPECTION SUMMARY

TABLE 2.1.2

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MAJOR ITEM: PRESSURE VESSELS - ACCUMULATORS

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM, AND DESCRIPTION OF ITEM TO BE EXAMINED	NDE METHODS	TOTAL ITEMS	ACCES- SIBLE ITEMS	40 YR. EXAM	10 YR. EXAM	INSPECTION PERIOD (10 YR.)	(40 YEAR) PERCENT	LOCATION	REMARKS
C1.1	C-A	<u>CIRCUMFERENTIAL BUTT WELDS</u>									
		ACCUMULATOR No. 11 (MULTIPLE STREAMS)	UT	4	4	2	1	-	-	CONTAINMENT	ISI-86
		ACCUMULATOR No. 12	UT	4	4	2	-	-	-	CONTAINMENT	ISI-86
		No. 11 WELD 2 T=2.75 TO 1.39 L=31'	UT			20%	-	-	20%	SHELL TO HEAD	EXAMINATION OF EACH CIRCUMFER- ENTIAL WELD WILL INCLUDE THREE AREAS THAT ARE DISTRIBUTED AROUND THE VESSEL AS UNI- FORMLY AS POSSIBLE.
		No. 11 WELD 6 T=1.39 L=16'	UT			20%	20%	THREE	20%	DOLLAR PLATE TO HEAD	
		No. 12 WELD 1 T=1.39 L=16'	UT			20%	-	-	20%	HEAD TO DOLLAR PLATE	
		No. 12 WELD 5 T=2.75 TO 1.39 L=31'	UT			20%	-	-	20%	HEAD TO SHELL	
C1.2	C-B	<u>NOZZLE TO VESSEL WELDS</u>									
		ACCUMULATOR No. 11 (MULTIPLE STREAMS)	UT	1	1	1	-	-	100%	EL705', 12-SI-29A	ISI-86
		ACCUMULATOR No. 12	UT	1	1	-	-	-	-	EL700', 12-SI-29B	ISI-86
C1.3	C-C	<u>INTEGRALLY WELDED SUPPORTS</u>									
		ACCUMULATOR No. 11 (MULTIPLE STREAMS)	S	1	1	-	-	-	-	CONTAINMENT, SKIRT WELD	ISI-86
		ACCUMULATOR No. 12	S	1	1	1	-	-	100%	CONTAINMENT, SKIRT WELD	ISI-86
C1.4	C-D	<u>PRESSURE RETAINING BOLTING</u>							10 YEAR PERCENT		RELIEF 48
		ACCUMULATOR No. 11 (MULTIPLE STREAMS)	V&UT	24	24	-	-	-	100%	CONTAINMENT, MANWAY BOLTS	ISI-86
		ACCUMULATOR No. 12	V&UT	24	24	-	24	THREE		CONTAINMENT, MANWAY BOLTS	ISI-86
											UT WILL BE PER- FORMED AS A MIN- IMUM ON 10% OF THE BOLTS ON EACH JOINT.

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TEN YEAR INTERVAL INSPECTION SUMMARY

TABLE 2.1.3

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MAJOR ITEM: PRESSURE VESSELS - RHR HEAT EXCHANGERS

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM, AND DESCRIPTION OF ITEM TO BE EXAMINED	NDE METHODS	TOTAL ITEMS	ACCESS- IBLE ITEMS	40 YR. EXAM	10 YR. EXAM	INSPECTION PERIOD (10 YR.)	(40 YEAR) PERCENT	LOCATION	REMARKS
C1.1	C-A	CIRCUMFERENTIAL BUTT WELDS									RELIEF 45 and 56
		RHR HEAT EXCHANGER No. 11 (MULTIPLE STREAMS)	UT	2	2	1	-	-	-	RHR PIT	ISI-93
		RHR HEAT EXCHANGER No. 12	UT	2	2	1	-	-	-	RHR PIT	ISI-93
		No. 11 WELD 1 T=.5" L=75"	UT			20%	-	-	20%	HEAD TO SHELL	EXAMINATION OF EACH CIRCUMFER- ENTIAL WELD WILL INCLUDE THREE AREAS THAT ARE DISTRIBUTED AROUND THE VESSEL AS UNI- FORMLY AS POS- SIBLE.
		No. 12 WELD 2 T=.5" L=75"	UT			20%	-	-	20%	SHELL TO FLANGE	RELIEF 45 & 56
C1.2	C-B	NOZZLE TO VESSEL WELDS									
		RHR HEAT EXCHANGER No. 11 (MULTIPLE STREAMS)	UT	2	2	1	-	-	-	RHR PIT	ISI-93
		RHR HEAT EXCHANGER No. 12	UT	2	2	1	-	-	-	RHR PIT	ISI-93
		No. 11 WELD 3	UT			-	-	-		INLET EL666'	
		No. 11 WELD 4	UT			1	-	-	100%	OUTLET EL666'	
C1.3	C-C	INTEGRALLY WELDED SUPPORTS									
		RHR HEAT EXCHANGER No. 11 (MULTIPLE STREAMS)	S	2	2	1	1	THREE	50%	RHR PIT	ISI-93
		RHR HEAT EXCHANGER No. 12	S	2	2	1	-	-	-	RHR PIT	ISI-93
		No. 12 WELD 3	UT			1	-	-	100%	INLET EL666'	
		No. 12 WELD 4	UT			-	-	-		OUTLET EL666'	
C1.4	C-O	PRESSURE RETAINING BOLTING									
		RHR HEAT EXCHANGER No. 11 (MULTIPLE STREAMS)	V&UT	28	28	-	-	-	-	RHR PIT, FLANGE BOLTS	RELIEF 48
		RHR HEAT EXCHANGER No. 12	V&UT	28	28	-	28	THREE	100%	RHR PIT, FLANGE BOLTS	ISI-93 UT WILL BE PERFORMED AS A MINIMUM ON 10% OF THE BOLTS ON EACH JOINT

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TEN YEAR INTERVAL INSPECTION SUMMARY

MAJOR ITEM: PRESSURE VESSELS - BORIC ACID TANKS

SUB ITEM	EXAM CATEGORY	COMPONENT OR SYSTEM, AND DESCRIPTION OF ITEM TO BE EXAMINED	METHODS	TOTAL ITEMS	ACCESSIBLE ITEMS	40 YR. EXAM	10 YR. EXAM	INSPECTION PERIOD (10 YR.)	(40 YEAR) PERCENT	LOCATION	REMARKS
CI.1	C-A	CIRCUMFERENTIAL BUTT WELDS									RELIEF 45 and 56
		BORIC ACID TANK No. 11 (MULTIPLE STREAM)	UT	2	2	1	-	-	-	AUX BUILDING	ISI-84
		BORIC ACID TANK No. 121	UT	2	2	1	-	-	-	AUX BUILDING	ISI-94
		No. 11 WELD 1 T=.312 L=33' No. 121 WELD 2 T=.312 L=33'	UT			20%	-	-	20%	HEAD TO SHELL SHELL TO HEAD	EXAMINATION OF EACH CIRCUMFERENTIAL WELD WILL INCLUDE THREE AREAS THAT ARE DISTRIBUTED AROUND THE VESSEL AS UNIFORMLY AS POSSIBLE
CI.2	C-B	NOZZLE TO VESSEL WELD									RELIEF 45 and 56
		BORIC ACID TANK No. 11 (MULTIPLE STREAM)	UT	1	1	-	-	-	-	AUX BUILDING, EL735'	ISI-94
CI.3	C-C	BORIC ACID TANK No. 121	UT	1	1	1	-	-	100%	AUX BUILDING, EL735'	ISI-94
		INTEGRALLY WELDED SUPPORTS									
CI.3	C-C	BORIC ACID TANK No. 11 (MULTIPLE STREAM)	S	4	4	2	-	-	100%	AUX BUILDING, EL735'	ISI-94
		BORIC ACID TANK No. 121	S	4	4	2	1	THREE	100%	AUX BUILDING, EL735'	ISI-94
CI.4	C-D	PRESSURE RETAINING BOLTING							10 YEAR PERCENT		RELIEF 48
		BORIC ACID TANK No. 11 (MULTIPLE STREAMS)	V&UT	16	16	-	16	THREE	100%	AUX BUILDING	ISI-94
CI.4	C-D	BORIC ACID TANK No. 121	V&UT	16	16	-	-	-	-	AUX BUILDING	ISI-94
											UT WILL BE PERFORMED AS A MINIMUM ON 10% OF THE BOLTS ON EACH JOINT.

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TEN YEAR INTERVAL INSPECTION SUMMARY

TABLE 2.2.1

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MAJOR ITEM: PIPING - CIRCUMFERENTIAL BUTT WELDS

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM, AND DESCRIPTION OF ITEM TO BE EXAMINED	NDE METHODS	TOTAL ITEMS	ACCES- IBLE ITEMS	40 YR. EXAM	10 YR. EXAM	INSPECTION PERIOD (10 YR.)	(40 YR.) PERCENT	LOCATION	REMARKS
C2.1	C-G	<u>CIRCUMFERENTIAL BUTT WELDS</u>	U.T.								RELIEF NO. 46 RELIEF NO. 50 RELIEF NO. 56
		MAIN STEAM A 32-MS-1	U.T.	1	1	1	0	-	(50%)	EL 795' GENERATOR 11	ISI-51A (MULTIPLE STREAMS)
		MAIN STEAM B 32-MS-2	U.T.	1	1	0	0	-	-	EL 795' GENERATOR 12	ISI-68A
		MAIN STEAM A 30-MS-1	U.T.	7	5	2	1	TWO	(50%)	EL 795' TO EL 726'	ISI-51A (MULTIPLE STREAMS)
		MAIN STEAM B 30-MS-2	U.T.	9	6	2	0	-	-	EL 795' TO EL 726'	ISI-68A
		MAIN STEAM A 31-MS-1	U.T.	10	10	5	1	ONE	(50%)	EL 726' THRU PENET. 6A	ISI-51A, 51B (MULTIPLE STREAMS)
		MAIN STEAM B 31-MS-2	U.T.	10	0	0	0	-	-	EL 726' THRU PENET. 6B	ISI-68A, 68B
		MAIN STEAM A RELIEF HDR 30-MS-1	U.T.	6	4	1	0	-	(50%)	EL 739' RELIEF HDR. A	ISI-51B (MULTIPLE STREAMS)
		MAIN STEAM B RELIEF HDR 30-MS-2	U.T.	6	5	1	1	THREE	-	EL 759' RELIEF HDR. B	ISI-68B
		MAIN STEAM A 6-MS-1	U.T.	6	4	1	4	TWO	(100%)	EL 739' AUX. BLDG.	ISI-51B INCLUDES 1 5" JOINT
		MAIN STEAM B 6-MS-2	U.T.	6	4	2	1 3	ONE TWO	-	EL 759' AUX. BLDG.	ISI-68B INCLUDES 1 5" JOINT (MULTIPLE STREAMS)
		FEEDWATER A 16-FW-13	U.T.	18	18	5	18	TWO	(100%)	EL 770' CONTAINMENT	ISI-52A (LINES COMBINED)
		16-FW-12	U.T.	4	4	1	1	THREE	(86%)	EL 737' AUX. BLDG.	ISI-52B
		FEEDWATER B 16-FW-16	U.T.	16	2	1	2	TWO	(14%)	EL 770' CONTAINMENT	(ENCAPSULATED) ISI-69A (MULTIPLE STREAMS)
		16-FW-15	U.T.	5	5	4	1	ONE		EL 737' AUX. BLDG.	ISI-69B

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TEN YEAR INTERVAL INSPECTION SUMMARY

MAJOR ITEM: PIPING - CIRCUMFERENTIAL BUTT WELD

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM, AND DESCRIPTION OF ITEM TO BE EXAMINED	NDE METHODS	TOTAL ITEMS	ACCESS- IBLE ITEMS	40 YR. EXAM	10 YR. EXAM	INSPECTION PERIOD (10 YR.)	(40 YR.) PERCENT	LOCATION	REMARKS
C2.1	C-G	FEEDWATER A (8 IN) 3-AF-11	U.T.	2	2	1	2	TWO	(100%) (50%)	EL 760' CONTAINMENT	ISI-52A (MULTIPLE STREAMS)
		FEEDWATER B (8 IN) 3-AF-12	U.T.	2	2	0	2	TWO	(50%)	EL 760' CONTAINMENT	ISI-69A
		REFUELING WATER STORAGE TANK DISCHARGE 14-S1-1	U.T.	11	11	6	1	THREE	(55%)	EL 692' AUX. BLDG	ISI-30 (SINGLE STREAM)
		12-S1-3A	U.T.	3	3	2	-	-	(50%)	EL 698' AUX. BLDG	ISI-80 (MULTIPLE STREAMS)
		12-S1-3B	U.T.	3	3	1	1	TWO	-	EL 692'	ISI-80
		12-S1-11	U.T.	11	11	6	1	THREE	(55%)	EL 692'	ISI-80, 82 (SINGLE STREAM)
		12-S1-4	U.T.	7	7	4	1	THREE	(57%)	EL 688' AUX. BLDG	ISI-80 (SINGLE STREAM)
		12-S1-8 ST. JAM 1 STREAM 2	U.T.	6 7	6 7	2 2	1 -	TWO -	(62%) -	EL 678' AUX. BLDG	ISI-80 (MULTIPLE STREAMS)
		CONTAINMENT SUMP B DISCHARGE LINES									
		14-S1-33A	U.T.	4	0	-	-	-	(0%)	EL 694' CONTAINMENT	ISI-87 (IMBEDDED) (MULTIPLE STREAMS)
		14-S1-33B	U.T.	4	0	-	-	-	-	EL 694'	
		12-S1-34A	U.T.	2	1	1	-	-	(50%)	EL 694'	ISI-87 (PARTIALLY IMBEDDED)
		12-S1-34B	U.T.	2	1	0	-	-	-	EL 694'	(MULTIPLE STREAMS)

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TEN YEAR INTERVAL INSPECTION SUMMARY

MAJOR ITEM: PIPING - CIRCUMFERENTIAL BUTT WELDS

SUB ITEM	EXAM CATEGORY	COMPONENT OR SYSTEM, AND DESCRIPTION OF ITEM TO BE EXAMINED	NDE METHOD	TOTAL ITEMS	ACCESSIBLE ITEMS	40 YR. EXAM	10 YR. EXAM	INSPECTION PERIOD (10 YR.)	(40 YR.) PERCENT	LOCATION	REMARKS
C2.1	C-G	ALTERNATE CONTAINMENT SPRAY PUMP SUCTION							(51%)		
		6-RH-10A	U.T.	11	11		1	TWO	25%	EL 687' SPRAY ROOM	ISI-91 (BRANCH
		BRANCH 1	U.T.	21	21		2	TWO		EL 698' SPRAY ROOM	ISI-55 (STREAM)
		BRANCH 2									
		6-RH-10B	U.T.	13	13	3	1	THREE	26%	EL 687' SPRAY ROOM	ISI-91 (BRANCH
		BRANCH 1	U.T.	18	18	5	2	TWO		EL 698' SPRAY ROOM	ISI-78 (STREAM)
		BRANCH 2						THREE			
		RESIDUAL HEAT REMOVAL DISCHARGE							(57%)		
		12-RH-6A	U.T.	7	7	2	1	TWO		EL 694' SPRAY ROOM	ISI-53 (MULTIPLE
		12-RH-6B	U.T.	7	7	2	1	TWO		EL 694' SPRAY ROOM	ISI-76 (STREAMS)
		8-RH-9A	U.T.	8	8	2			(53%)	EL 677' RHR ROOM	ISI-55 (MULTIPLE
		8-RH-9B	U.T.	11	11	3	1	THREE		EL 679' RHR ROOM	ISI-78 (STREAMS)
		8-RH-7A	U.T.	3	3	1			(50%)	EL 674' RHR ROOM	ISI-55 (MULTIPLE
		8-RH-7B	U.T.	8	8	2	1	TWO		EL 674' RHR ROOM	ISI-78 (STREAMS)
		SAFETY INJECTION PUMPS SUCTION							(55%)		
		6-SI-13A	U.T.	10	10	3	1	TWO		EL 703' SI PUMP 11	ISI-83 (MULTIPLE
		6-SI-13B	U.T.	11	11	3	1	TWO		AUX. BLDG.	ISI-83 (STREAMS)
		8-SI-17*	U.T.	3	3	1	1	THREE	(50%)	EL 704' AUX. BLDG	ISI-82 (SINGLE
		8-SI-18*	U.T.	53	53	21	2	THREE		EL 702' AUX. BLDG	ISI-82&84 (STREAM)
										EL 735' AUX. BLDG	
		8-VC-71A*	U.T.	2	2	1				EL 735' AUX. BLDG.	ISI-84
		8-VC-71B*	U.T.	4	4	2				EL 735' AUX. BLDG	ISI-84 (* Same Line)
		RESIDUAL HEAT REMOVAL SUCTION							(67%)		
		10-SI-9A	U.T.	3	3	1				EL 674' 12-RH-5A	ISI-53 (MULTIPLE
		10-SI-9B	U.T.	3	3	1				RHR ROOM	ISI-76 (STREAMS)
										EL 674' 12-RH-5B	

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM, AND DESCRIPTION OF ITEM TO BE EXAMINED	NDE METHODS	TOTAL ITEMS	ACCES- IBLE ITEMS	40 YR. EXAM	10 YR. EXAM	INSPECTION PERIOD (10 YR.)	(40 YR.) PERCENT	LOCATION	REMARKS
C2.1	C-G	ACCUMULATOR DISCHARGE LINES									
		12-S1-28A	U.T.	5	5	1	1	ONE	(57%)	EL 704' CONTAINMENT	ISI-85 (MULTIPLE
		12-S1-28B	U.T.	2	2	1	-	-	-	EL 698' CONTAINMENT	ISI-85 STREAMS)
		12-S1-29A	U.T.	7	7	2	-	-	(55%)	EL 704' CONTAINMENT	ISI-85 (MULTIPLE
C2.1	C-F	12-S1-29B	U.T.	4	4	1	1	TWO	-	EL 698' CONTAINMENT	ISI-85 STREAMS)
		RESIDUAL HEAT REMOVAL SUCTION									
		12-RH-5A	U.T.	13	13	7	1	TWO	(100%)	EL 672' RHR ROOM	ISI-53 (MULTIPLE
		12-RH-5B	U.T.	13	13	6	2	THREE	-	EL 672' RHF ROOM	ISI-53 STREAMS)
								TWO	-	EL 672' RHR ROOM	ISI-76
		8-RH-5A	U.T.	2	2	1	1	THREE	(120%)	EL 672' RHR ROOM	ISI-53 (MULTIPLE
		8-RH-5B	U.T.	3	3	2	-	-	-	EL 672' RHR ROOM	ISI-76 STREAMS)
		8-RH-4A	U.T.	8	8	8	-	-	(100%)	EL 687' RHR ROOM	ISI-53 (MULTIPLE
		8-RH-4B	U.T.	4	4	2	1	TWO	-	EL 672' SPRAY ROOM	ISI-76 STREAMS)
		10-RH-3	U.T.	20	20	20	5	ONE (2) TWO (1) THREE (2)	(100%)	EL 710' CONTAINMENT AUX. BLDG. SPRAY ROOM	ISI-53 (SINGLE STREAM)
		RESIDUAL HEAT REMOVAL DISCHARGE									
		10-RH-11	U.T.	17	17	17	2	TWO	(100%)	EL 710' SPRAY ROOM	ISI-78
							2	THREE	-	EL 711' CONTAINMENT	(SINGLE STREAM)
		6-RH-12	U.T.	4	4	4	1	THREE	(100%)	EL 711' CONTAINMENT	ISI-78 (SINGLE STREAM)
		8-RH-7A	U.T.	12	12	6	2	TWO	(100%)	EL 666' RHR PLT	ISI-55 (MULTIPLE
		8-RH-7B	U.T.	13	13	7	2	TWO	-	EL 666' RHR PLT	ISI-78 STREAMS)
		8-RH-9A	U.T.	14	14	7	1	TWO	(100%)	EL 666' RHR PLT	ISI-55 (MULTIPLE
		8-RH-9B	U.T.	14	14	7	2	TWO	-	EL 666' RHR PLT	ISI-78 STREAMS)

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TEN YEAR INTERVAL INSPECTION SUMMARY

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MAJOR ITEM: PIPING - CIRCUMFERENTIAL BUTT WELDS

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM, AND DESCRIPTION OF ITEM TO BE EXAMINED	NDE METHODS	TOTAL ITEMS	ACCESS- IBLE ITEMS	40 YR. EXAM	10 YR. EXAM	INSPECTION PERIOD (10 YR.)	(40 YR.) PERCENT	LOCATION	REMARKS
C2.1	C-F	SAFETY INJECTION 6-S1-10B * 6-S1-10A *	U.T. U.T.	4 15	4 15	2 8	1 3	ONE TWO	(53%)	EL 711' CONTAINMENT	ISI-55 (SINGLE STREAM) *(Same Line)
									(110%)		
		REACTOR VESSEL SAFETY INJECTION 6-S1-25A 6-S1-25B	U.T. U.T.	13 9	13 9	7 5	2 1	TWO (1) THREE (1) ONE (1)	54% 56%	EL 712' CONTAINMENT EL 718' - EL 723' CONTAINMENT	ISI-89 (MULTIPLE STREAMS)



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TEN YEAR INTERVAL INSPECTION SUMMARY

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MAJOR ITEM: PIPING - LONGITUDINAL WELD JOINTS  
IN FITTINGS

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM, AND DESCRIPTION OF ITEM TO BE EXAMINED	NDE METHODS	TOTAL ITEMS	ACCES- SIBLE ITEMS	40 YR. EXAM	10 YR. EXAM	INSPECTION PERIOD (10 YR.)	(40 YR.) PERCENT	LOCATION	REMARKS
C2.2	C-G	<u>LONGITUDINAL WELD JOINTS IN FITTINGS</u>									RELIEF NO. 46 RELIEF NO. 56
		MAIN STEAM A 32-MS-1	U.T.	1	1	1	0	-	(100%)	EL 795' GENERATOR 11	ISI-51A (MULTIPLE STREAMS)
		MAIN STEAM B 32-MS-2	U.T.	1	1	-	-	-		EL 795' GENERATOR 12	ISI-68A
		MAIN STEAM A 30-MS-1	U.T.	3	3	1	1	TWO	(67%)	EL 795' & 726', CONTAINMENT	ISI-51A (MULTIPLE STREAMS)
		MAIN STEAM B 30-MS-2	U.T.	3	2	1	0	-		EL 795' & 726', CONTAINMENT	ISI-68A
		MAIN STEAM A 31-MS-1	U.T.	3	2	2	1	ONE	(67%)	EL 726' AUX. BLDG	ISI-51B (MULTIPLE STREAMS)
		MAIN STEAM B 31-MS-2	U.T.	3	0	0	-	-		EL 726' AUX. BLDG	ISI-68B
		MAIN STEAM A RELIEF HDR 30-MS-1	U.T.	1	0	-	-	-	(100%)	EL 739' AUX. BLDG	ISI-51B (MULTIPLE STREAMS)
		MAIN STEAM B RELIEF HDR 30-MS-2	U.T.	1	1	1	0	-		EL 759' AUX. BLDG	ISI-68B
		<u>RHR PUMP SUCTION</u>									
		12-RH-6A (MULTIPLE STREAMS)	U.T.	3	3	1	1	THREE	(66%)	EL 673' RHR PIT	ISI-53
		12-RH-6B	U.T.	3	3	1	-	-	-	EL 673' RHR PIT	ISI-76
		10-SI-9A (MULTIPLE STREAMS)	U.T.	1	1	-	-	-	(50%)	EL 673' RHR PIT	ISI-53
		10-SI-9B	U.T.	1	1	1	-	-	-	EL 673' RHR PIT	ISI-76

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MAJOR ITEM: PIPING LONGITUDINAL WELD JOINTS  
IN FITTINGS

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM, AND DESCRIPTION OF ITEM TO BE EXAMINED	NDE METHODS	TOTAL ITEMS	ACCES- SIBLE ITEMS	40 YR. EXAM	10 YR. EXAM	INSPECTION PERIOD (10 YR.)	(40 YEAR) PERCENT	LOCATION	R. MARKS
C2.2	C-G	RHR PUMP DISCHARGE									
		8-RH-7A (MULTIPLE STREAMS)	U.T.	1	1	1	-	-	66%	EL 666' RHR PIT	ISI-55
		8-RH-7B	U.T.	4	4	1	-	-	-	EL 666' RHR PIT	ISI-78
		8-RH-9A (MULTIPLE STREAMS)	U.T.	4	4	1	-	-	60%	EL 678' RHR PIT	ISI-55
		8-RH-9B	U.T.	6	6	2	-	-	-	EL 678' RHR PIT	ISI-78
		RWST DISCHARGE									
		14-SI-1 (SINGLE STREAM)	U.T.	5	5	3	1	THREE	60%	EL 697'	ISI-80
		12-SI-3A (MULTIPLE STREAMS)	U.T.	1	1	1	-	-	100%	EL 698'	ISI-80
		12-SI-3B	U.T.	1	1	-	-	-	-	EL 698'	ISI-80
		12-SI-4 (SINGLE STREAM)	U.T.	4	4	2	-	-	50%	EL 593' TRENCH	ISI-90
		10-SI-8 (SINGLE STREAM)	U.T.	5	5	3	1	THREE	60%	EL 678' RHR PIT	ISI-80
		12-SI-11 (SINGLE STREAM)	U.T.	1	1	1	-	-	100%	EL 698' AUX BLDG	ISI-80



NORTHERN STATES POWER CO.  
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TEN YEAR INTERVAL INSPECTION SUMMARY

TABLE 2.2.2

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MAJOR ITEM: PIPING LONGITUDINAL WELD JOINTS  
IN FITTINGS

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM, AND DESCRIPTION OF ITEM TO BE EXAMINED	NDE METHODS	TOTAL ITEMS	ACCES- SIBLE ITEMS	40 YR. EXAM	10 YR. EXAM	INSPECTION PERIOD (10 YR.)	(40 YEAR) PERCENT	LOCATION	REMARKS
C2.2	C-G	SI PUMP SECTION									
		12-SI-11 (SINGLE STREAM)	UT	3	3	2	-	-	66%	EL 698' AUX BLDG	ISI-82
		8-SI-18 (SINGLE STREAM)	UT	18	18	9	2	THREE	50%	EL 702' AUX BLDG	ISI-82
		6-SI-13A (MULTIPLE STREAMS)	UT	3	3	1	-	-	50%	EL 703' AUX BLDG	ISI-83
		6-SI-13B	UT	3	3	2	-	-	-	EL 703' AUX BLDG	ISI-83
C2.2	C-F	BORIC ACID SUPPLY									
		8-SI-18 *	UT	5	5	3	1	THREE	57%	EL 702' AUX BLDG	ISI-84
		8-VC-71A *	UT	1	1	1	-	-	-	EL 735' AUX BLDG	ISI-84
		8-VC-71B *	UT	1	1	-	-	-	-	EL 735' AUX BLDG	ISI-84
		(SINGLE STREAM)									(*SAME LINE)
		LONGITUDINAL WELD JOINTS IN FITTINGS									
		RHR SUCTION									
		10-RH-3 (SINGLE STREAM)	UT	9	9	9	1	THREE	100%	EL 710' C.S. ROOM	ISI-53
		8-RH-4A (MULTIPLE STREAMS)	UT	2	2	1	-	-	100%	EL 673' RHR PIT	ISI-53
		8-RH-4B	UT	1	1	1	-	-	-	EL 673' RHR PIT	ISI-76

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TEN YEAR INTERVAL INSPECTION SUMMARY

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MAJOR ITEM: PIPING-LONGITUDINAL WELD JOINTS

IN FITTINGS

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM, AND DESCRIPTION OF ITEM TO BE EXAMINED	NDE METHODS	TOTAL ITEMS	ACCES- SIBLE ITEMS	40 YR. EXAM	10 YR. EXAM	INSPECTION PERIOD (10 YR.)	(40 YEAR) PERCENT	LOCATION	REMARKS
C2.2	C-F	8-RH-5A (MULTIPLE STREAMS)	UT	1	1	1	-	-	100%	EL 673' RHR PIT	ISI-53
		8-RH-5B	UT	1	1	-	-	-	-	EL 673' RHR PIT	ISI-76
		12-RH-5A (MULTIPLE STREAMS)	UT	5	5	3	1	THREE	100%	EL 666' RHR PIT	ISI-53
		12-RH-5B	UT	5	5	2	-	-	-	EL 666' RHR PIT	ISI-76
		<u>RHR DISCHARGE</u>									
		8-RH-7A (MULTIPLE STREAMS)	UT	3	3	2	-	-	100%	EL 667' RHR PIT	ISI-55
		8-RH-7B	UT	5	5	2	-	-	-	EL 667' RHR PIT	ISI-78
		8-RH-9A (MULTIPLE STREAMS)	UT	6	6	3	-	-	100%	EL 676' RHR PIT	ISI-55
		8-RH-9B	UT	5	5	3	1	THREE	-	EL 676' RHR PIT	ISI-78
		6-SI-10A (SINGLE STREAM)	UT	2	2	2	-	-	100%	EL 676' RHR PIT	ISI-55
		10-RH-11 (SINGLE STREAM)	UT	6	6	6	1	THREE	100%	EL 710'	ISI-78

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TEN YEAR INTERVAL INSPECTION SUMMARY

MAJOR ITEM: PIPING - BRANCH, PIPE TO PIPE WELD JOINTS

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM, AND DESCRIPTION OF ITEM TO BE EXAMINED	NDE METHODS	TOTAL ITEMS	ACCES- SIBLE ITEMS	40 YR. EXAM	10 YR. EXAM	INSPECTION PERIOD (10 YR.)	(40 YR.) PERCENT	LOCATION	REMARKS
C2.3	C-G	BRANCH PIPE TO PIPE WELD JOINTS - (SWEEFOLETS)									RELIEF NO. 46 RELIEF NO. 56
		MAIN STEAM A RELIEF HDR 30-MS-1	U.T.	5	5	1	0	-	(60%)	EL 739' AUX. BLDG	(MULTIPLE STREAMS) ISI-51B
		MAIN STEAM B RELIEF HDR 30-MS-2	U.T.	5	5	2	1	ONE		EL 759' AUX. BLDG	ISI-68B
		FEEDWATER A 16-FW-13	U.T.	1	1	1	1	TWO	(100%)	EL 760' 3-AF-11 CONTAINMENT	(MULTIPLE STREAMS) ISI-52A
		FEEDWATER B 16-FW-16	U.T.	1	1	0	-	-		EL-760' 3-AF-12 CONTAINMENT	ISI-69A

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TEN YEAR INTERVAL INSPECTION SUMMARY

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MAJOR ITEM: PIPING-PRESSURE RETAINING BOLTING

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM, AND DESCRIPTION OF ITEM TO BE EXAMINED	NDE METHODS	TOTAL ITEMS	ACCES- SIBLE ITEMS	40 YR. EXAM	10 YR. EXAM	INSPECTION PERIOD (10 YR.)	(40 YEAR) PERCENT	LOCATION	REMARKS
C2.4	C-D	<u>PRESSURE RETAINING BOLTING</u>							10 YEAR PERCENT		RELIEF 48
		<u>RHR PUMP SUCTION</u>									
		12-RH-5A (MULTIPLE STREAMS)	V, UT	2 FLANGE	2 FLANGE	-	1	THREE	50%	EL 666' @ W-78&80 20-1 1/4" BOLTS/FLANGE	ISO-53
		12-RH-5B	V, UT	2 FLANGE	2 FLANGE	-	-	-	-	EL 666' @ W-50 & 52 20-1 1/4" BOLTS/FLANGE	ISO-76
		<u>RHR PUMP DISCHARGE</u>									
		10-EL-11 (SINGLE STREAM)	V, UT	1 FLANGE	1 FLANGE	-	-	-	-	EL 710' @ W-174 16-1 1/4" DIA BOLTS	ISO-78  UT WILL BE PER- FORMED AS A MIN- IMUM ON 10% OF THE BOLTS ON EACH JOINT

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TEN YEAR INTERVAL INSPECTION SUMMARY

MAJOR ITEM: PIPING - INTEGRALLY WELDED SUPPORTS

SUP ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM, AND DESCRIPTION OF ITEM TO BE EXAMINED	NDE METHODS	TOTAL ITEMS	ACCES- SIBLE ITEMS	40 YR. EXAM	10 YR. EXAM	INSPECTION PERIOD (10 YR.)	(10 YR) PERCENT	LOCATION	REMARKS
C2.5	C-E-1	INTEGRALLY WELDED SUPPORTS									
		MAIN STEAM A 30-MS-1	S	5	5	-	3	(1) TWO (2) THREE	(100%)	EL 796' CONTAINMENT	ISI-51A (MULTIPLE STREAM)
		MAIN STEAM B 30-MS-2	S	5	5	-	2	(1) TWO (1) THREE		EL 796' CONTAINMENT	ISI-68A
		MAIN STEAM A RELIEF HDR 30-MS-1	S	1	1	-	-	-	(100%)	EL 734' AUX. BLDG	ISI-51B (MULTIPLE STREAM)
		MAIN STEAM B RELIEF HDR 30-MS-2	S	1	1	-	1	TWO		EL 754' AUX. BLDG	ISI-68B
		MAIN STEAM A 31-MS-1	S	3	3	-	2	(1) TWO (1) ONE	50%	EL 726' AUX. BLDG	ISI-51B (MULTIPLE STREAM)
		MAIN STEAM B 31-MS-2	S	4	(*)	-	2	(2) THREE	50% (100%)	EL 734' AUX. BLDG	ISI-68B
		MAIN STEAM A 6-MS-1	S	1	1	-	1	TWO	(100%)	EL 736' AUX. BLDG	ISI-51B (MULTIPLE STREAM)
		MAIN STEAM B 6-MS-2	S	1	1	-	-	-		EL 736' AUX. BLDG.	ISI-68B
		MAIN STEAM A 32-MS-1	S	2	2	-	1	THREE	(100%)	EL 796' GEN. 11	ISI-51A (MULTIPLE STREAM)
		MAIN STEAM B 32-MS-2	S	2	2	-	1	TWO		EL 790' GEN. 12	ISI-68A
		FEEDWATER A 16-FW-12	S	1	1	-	1	(1) THREE	10%	EL 737' AUX. BLDG.	ISI-52B (MULTIPLE STREAM)
		16-FW-13	S	9	9	-	4	(1) THREE	30%	EL 737' AUX. BLDG.	ISI-52A
		FEEDWATER B 16-FW-15	S	1	1	-	1	(1) ONE	10%	EL 738' CONTAINMENT	ISI-69B (MULTIPLE STREAM)
		16-FW-16	S	8	(*)	-	4	(2) TWO (2) THREE	20% 30% (100%)	EL 748' CONTAINMENT	ISI-69A (MULTIPLE STREAM)
		(LINES COMBINED)									(*) ENCAPSULATED, EXAMINE TO EXTENT POSSIBLE



TEN YEAR INTERVAL INSPECTION SUMMARY

MAJOR ITEM: PIPING - INTEGRALLY WELDED SUPPORTS

SUB ITEM	EXAM CATEGORY	COMPONENT OR SYSTEM, AND DESCRIPTION OF ITEM TO BE EXAMINED	NDE METHODS	TOTAL ITEMS	ACCESSIBLE ITEMS	40 YR. EXAM	10 YR. EXAM	INSPECTION PERIOD (10 YR.)	(10 YR.) PERCENT	LOCATION	REMARKS
C2.5	C-E-1	REFUELING WATER STORAGE TANK DISCHARGE									
		12-S1-4	S	1	1	-	1	TWO	(100%)	EL 688' AUX. BLDG.	ISI-81 (SINGLE
		10-S1-8	S	2	2	-	2	TWO	50%	EL 686' AUX. BLDG.	ISI-81
								THREE	50%	EL 686' AUX. BLDG.	STREAM)
									(100%)		
		CONTAINMENT SUMP B DISCHARGE LINES									
		14-S1-33A	S	3	0	-	-	-	-	EL 695' CONTAINMENT	ISI-88
		14-S1-33B	S	3	0	-	-	-	-	EL 695' CONTAINMENT	ISI-88 (IMBEDDED)
											RELIEF NO. 50
		ALTERNATE CONTAINMENT SPRAY PUMP SUCTION									
		6-RH-10A	S	2	2	-	1	TWO	50%	EL 690' & 698' SPRAY RM.	ISI-92
		BRANCH 1									
		6-RH-10B	S	2	2	-	1	THREE	50%	EL 690' & 698' SPRAY RM.	ISI-92 (MULTIPLE STREAMS)
		BRANCH 1							(100%)		
		RESIDUAL HEAT REMOVAL DISCHARGE									
		6-RH-10A	S	2	2	-	1	TWO	33%	EL 688' & 693' AUX. BLDG.	ISI-56 (MULTIPLE
		BRANCH 2									ISI-79
		6-RH-10B	S	3	3	-	2	TWO	33%	EL 693' AUX. BLDG.	STREAMS)
		BRANCH 2						THREE	33%		
									(100%)		
		8-RH-7B	S	2	2	-	1	TWO	50%	EL 671' RHR ROOM	ISI-79 (MULTIPLE
		9-RH-7A	S	2	2	-	1	THREE	50%	EL 671' RHR ROOM	ISI-56 ST' WS)
									100%		
		10-RH-11	S	4	4	-	3	ONE	33%	EL 710' CONTAINMENT	ISI-79 (SINGLE
								TWO	33%		STREAM)
								THREE	33%		
									(100%)		
		8-RH-9B	S	2	2	-	1	TWO	133%	EL 679' RHR ROOM	ISI-79 (MULTIPLE
											STREAMS)
		8-RH-9A	S	1	1	-	1	THREE	-	EL 679' RHR ROOM	ISI-56

TEN YEAR INTERVAL INSPECTION SUMMARY

MAJOR ITEM: PIPING - INTEGRALLY WELDED SUPPORTS

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM, AND DESCRIPTION OF ITEM TO BE EXAMINED	NDE METHODS	TOTAL ITEMS	ACCESS- IBLE ITEMS	40 YR. EXAM	10 YR. EXAM	INSPECTION PERIOD (10 YR.)	(10 YEAR) PERCENT	LOCATION	REMARKS
C2.5	C-E-1	RESIDUAL HEAT REMOVAL SUCTION 10-RH-3	S	5	5	-	5	(3) TWO (2) THREE	60% 40% (100%)	EL712' SPRAY ROOM	ISI-54 (SINGLE STREAM)
		8-RH-4A 8-RH-4B	S	2	2	-	1	TWO	(133%)	EL682' RHR ROOM	ISI-54 (MULTIPLE STREAMS)
		12-RH-5A	S	1	1	-	1	-		EL678' RHR ROOM	ISI-77 (STREAMS)
		12-RH-5B	S	1	1	-	1	TWO	(133%)	EL673' RHR ROOM	ISI-54 (MULTIPLE STREAMS)
		SAFETY INJECTION PUMP SUCTION	S	2	2	-	1	THREE		EL670' RHR ROOM	ISI-77 (STREAMS)
		8-SI-18	S	7	7	-	7	TWO(1) THREE(3)	14% 43%	EL702' AUX. BLDG.	ISI-82 (SINGLE STREAM) HEAT TRACED
		6-SI-13A	S	1	1	-	1	THREE	57% 100%		ISI-83 (SINGLE STREAM)
		12-SI-11	S	1	1	-	1	THREE	100%		ISI-82 (SINGLE STREAM)
		ACCUMULATOR DISCHARGE LINES									
		12-SI-28A	S	1	1	-	1	ONE	(100%)	EL702' CONTAINMENT	ISI-85 (SINGLE STREAM)
		REACTOR VESSEL SAFETY INJECTION									
		6-SI-25A	S	2	2	-	1	TWO	33%	EL712' CONTAINMENT	ISI-90 (MULTIPLE)
		6-SI-25B	S	3	3	-	2	ONE THREE	33% 33% (100%)	EL713' CONTAINMENT	ISI-90 (STREAMS)
		SAFETY INJECTION FROM RHR									
		6-SI-10A	S	4	4	-	4	THREE (2)	50%	EL710' CS ROOM	ISI-56 (SINGLE STREAM)
		RHR PUMP SUCTION									
		12-RH-6A	S	1	1	-	1	THREE	(100%)	EL673' RHR ROOM	ISI-54 (MULTIPLE STREAMS)
		12-RH-6B	S	1	1	-	-	-		EL673' RHR ROOM	ISI-71 (STREAMS)



NORTHERN STATES POWER CO.  
PRAIRIE ISLAND UNIT 1

TEN YEAR INTERVAL INSPECTION SUMMARY

TABLE 2.2.6  
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MAJOR ITEM: PIPING - NON-WELDED SUPPORTS

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM, AND DESCRIPTION OF ITEM TO BE EXAMINED	NDE METHODS	TOTAL ITEMS	ACCESS- IBLE ITEMS	40 YR. EXAM	10 YR. EXAM	INSPECTION PERIOD (10 YR.)	RUNNING PERCENT	LOCATION	REMARKS
C2.6	C-E-2	<u>SUPPORT COMPONENTS</u>									
		MAIN STEAM B 31-MS-2	V	1	1	-	1	ONE	100%	EL 740' AUX. BLDG. @ RELIEF HDR (30-MS-2)	RELIEF NO. 52  ISI-68B (ENCAPSULATED)
		RESIDUAL HEAT REMOVAL SUCTION									
		12-RH-5A	V	1	1	-	1	THREE	100%	EL 666' RHR ROOM	ISI-54 (SINGLE STREAM)
		12-RH-6A	V	2	2	-	1	THREE	50%	EL 694' CS ROOM	ISI-56 (MULTIPLE STREAM)
		12-RH-6B	V	2	2	-	1	THREE	50%	EL 694' CS ROOM	ISI-77
									100%		
		RHR DISCHARGE									
		3-RH-9A	V	2	2	-	2	THREE	(133%)	EL 673 RHR ROOM	ISI-56 (MULTIPLE STREAM)
		8-RH-9B	V	1	1	-	-	-	-	EL 678 RHR ROOM	ISI-79



NORTHERN STATE'S POWER CO.  
PRAIRIE ISLAND UNIT 1

TABLE 2.2.6

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TEN YEAR INTERVAL INSPECTION SUMMARY

MAJOR ITEM: PIPING - NON-WELDED SUPPORTS

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM, AND DESCRIPTION OF ITEM TO BE EXAMINED	NDE METHODS	TOTAL ITEMS	ACCES- SIBLE ITEMS	40 YR. EXAM	10 YR. EXAM	INSPECTION PERIOD (10 YR.)	(10 YR.) PERCENT	LOCATION	REMARKS
C2.6	C-E-2	ACCUMULATOR DISCHARGE LINES									
		12-S1-29A	V	1	1	-	1	ONE	(100%)	EL 699' CONTAINMENT	ISI-85 (SINGLE STREAM)
		12-S1-28A	V	1	1	-	-	-	-	EL 699' CONTAINMENT	ISI-85 (MULTIPLE STREAM)
		12-S1-28B	V	1	1	-	1	ONE	100% (100%)	EL 699' CONTAINMENT	ISI-85
		REACTOR VESSEL SAFETY INJECTION									
		6-S1-25A	V	3	3	-	2	ONE (1) TWO (1)	67%	EL 718' CONTAINMENT	ISI-90 (MULTIPLE STREAM)
		6-S1-25B	V	3	3	-	2	ONE (1) THREE (1)	67% (134%)	EL 723' CONTAINMENT	ISI-90
		S.I. PUMP SUCTION									
		6-S1-13B	V	1	1	-	1	THREE	(100%)	EL 703	ISI-83 (SINGLE STREAM)
		8-S1-18	V	10	10	-	10	THREE(5)	50%	AUX BLDG	ISI-82 (SINGLE STREAM)

NORTHERN STATES POWER CO.  
PRAIRIE ISLAND UNIT 1

TEN YEAR INTERVAL INSPECTION SUMMARY

TABLE 2.3

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MAJOR ITEM: PUMPS

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM, AND DESCRIPTION OF ITEM TO BE EXAMINED	NDE METHODS	TOTAL ITEMS	ACCES- SIBLE ITEMS	40 YR. EXAM	10 YR. EXAM	INSPECTION PERIOD (10 YR.)	(40 YEAR) PERCENT	LOCATION	REMARKS
C3.1	C-G	PUMP CASING WELDS									
		SAFETY INJECTION PUMPS									
		CASING TO FLANGE WELD ON DISCHARGE									
		#11 PUMP	UT	1	1	1	-	-	50%	EL 693	ISI-83 (MULTIPLE STREAMS)
		#12 PUMP	UT	1	1	-	-	-	-	EL 693	ISI-83
		CASING TO FLANGE WELD ON SUCTION									
		#11 PUMP	UT	1	1	-	-	-	-	EL 693	ISI-83 (MULTIPLE STREAMS)
		#12 PUMP	UT	1	1	1	-	-	50%	EL 693	ISI-83

NORTHERN STATES POWER CO.  
PRAIRIE ISLAND UNIT 1

TEN YEAR INTERVAL INSPECTION SUMMARY

TABLE 2.3

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MAJOR ITEM: PUMPS

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM, AND DESCRIPTION OF ITEM TO BE EXAMINED	NDE METHODS	TOTAL ITEMS	ACCES- SIBLE ITEMS	40 YR. EXAM	10 YR. EXAM	INSPECTION PERIOD (10 YR.)	(40 YEAR) PERCENT	LOCATION	REMARKS
C3.2	C-D	<u>PRESSURE RETAINING BOLTING</u> RHR PUMPS							10 YEAR PERCENT		RELIEF 48
		#11 FLANGE BOLTS	V, UT	24	24	-	24	THREE	100%	EL 666' RHR ROOM	ISI-53 (MULTIPLE STREAMS)
		#12 FLANGE BOLTS	V, UT	24	24	-	-	-	-	EL 666' RHR ROOM	ISI-76
		SAFETY INJECTION PUMPS									
		#11 DISCH FLANGE BOLTS	V, UT	8	8	-	-	-	-	EL 693	ISI-83 (MULTIPLE STREAMS)
		#12 DISCH FLANGE BOLTS	V, UT	8	8	-	8	THREE	100%	EL 693	ISI-83
		#11 DRIVE END COVER BOLTS	V, UT	16	16	-	16	THREE	100%	EL 693	ISI-83 (MULTIPLE STREAMS)
		#12 DRIVE END COVER BOLTS	V, UT	16	16	-	-	-	-	EL 693	ISI-83
		#11 OUTBOARD END COVER BOLTS	V, UT	16	16	-	-	-	-	EL 693	ISI-83 (MULTIPLE STREAMS)
		#12 OUTBOARD END COVER BOLTS	V, UT	16	16	-	16	THREE	100%	EL 693	ISI-83  UT WILL BE PL. FORMED AS A MINIMUM ON 10% OF THE BOLTS IN EACH JOINT.



NORTHERN STATES POWER CO.  
PRAIRIE ISLAND UNIT 1

TEN YEAR INTERVAL INSPECTION SUMMARY

TABLE 2.3  
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MAJOR ITEM: PUMPS

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM, AND DESCRIPTION OF ITEM TO BE EXAMINED	NDE METHODS	TOTAL ITEMS	ACCES- SIBLE ITEMS	40 YR. EXAM	10 YR. EXAM	INSPECTION PERIOD (10 YR.)	(40 YEAR) PERCENT	LOCATION	REMARKS
C3.3	C-E-1	INTEGRALLY WELDED SUPPORTS									
		RHR PUMPS									
		#11	S	1	1	-	-	-	-	EL 666	ISI-54 (MULTIPLE STREAMS)
		#12	S	1	1	-	1	THREE	100%	EL 666	ISI-77
C3.4	C-E-2	SAFETY INJECTION PUMPS									
		#11	S	6	6	-	3	THREE	100%	EL 693	ISI-83 (MULTIPLE STREAMS)
		#12	S	6	6	-	3	THREE	-	EL 693	ISI-83
		SUPPORT COMPONENTS									
C3.4	C-E-2	RHR PUMPS									
		#11	V	2	2	-	1	THREE	100%	EL 666	ISI-54 (MULTIPLE STREAMS)
		#12	V	2	2	-	1	THREE	-	EL 666	ISI-77

NORTHERN STATES POWER CO.  
PRAIRIE ISLAND UNIT 1

TEN YEAR INTERVAL INSPECTION SUMMARY

TABLE 2.4

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MAJOR ITEM: VALVES

SUB ITEM	EXAM CATEGORY	COMPONENT OR SYSTEM, AND DESCRIPTION OF ITEM TO BE EXAMINED	NDE METHODS	TOTAL ITEMS	ACCESSIBLE ITEMS	40 YR. EXAM	10 YR. EXAM	INSPECTION PERIOD (10 YR.)	(10 YR. PERCENT	LOCATION	REMARKS
(C4.0)		<u>VALVES</u>									
C4.1	C-F AND C-G	<u>VALVE BODY WELDS</u>	U.T.	NONE	-	-	-	-	-		(RELIEF NO. 48) * UT WILL BE PERFORMED AS A MINIMUM ON 10% OF THE BOLTS IN EACH JOINT.
C4.2	C-D	* <u>PRESSURE RETAINING BOLTING</u>  MAIN STEAM A 31-MS-1	V, UT	1 VALVE	1 VALVE	-	1 VALVE	THREE	(100%)	EL 726'	VALVE NO. CV-31098 ISI-51B (26-1.875" DIA. BOLTS PER VALVE) (MULTIPLE STREAMS) ISI-68B
		MAIN STEAM B 31-MS-2	V, UT	1 VALVE	1 VALVE	-	-	-	-	EL 726'	
		MAIN STEAM A (OFF) RELIEF HDR. 30-MS-1 (6")	V, UT	5 VALVES	5 VALVES	-	2 VALVES	THREE(1) TWO(1)	(100%)	EL 739'	(MULTIPLE STREAMS) ISI-51B (12-1.375" DIA. BOLTS PER VALVE)
		MAIN STEAM B (OFF) RELIEF HDR. 30-MS-2 (6")	V, UT	5 VALVES	5 VALVES	-	3 VALVES	ONE(1) TWO(1) THREE(1)	- - -	EL 759'	ISI-68B
		RESIDUAL HEAT REMOVAL DISCHARGE 6-SI-10B	V, UT	1 VALVE	1 VALVE	-	-	-	-	EL 711'	(MULTIPLE STREAMS) ISI-55 (12-1.25" DIA. BOLTS PER VALVE) ISI-78
		6-RH-12	V, UT	1 VALVE	1 VALVE	-	1 VALVE	ONE	(100%)	EL 711'	

NORTHERN STATES POWER CO.  
PRAIRIE ISLAND UNIT 1

TEN YEAR INTERVAL INSPECTION SUMMARY

TABLE 2.4

PAGE 2 OF 2

MAJOR ITEM: VALVES

SUB ITEM	EXAM CATEGORY	COMPONENT OR SYSTEM, AND DESCRIPTION OF ITEM TO BE EXAMINED	NDE METHODS	TOTAL ITEMS	ACCESSIBLE ITEMS	40 YR. EXAM	10 YR. EXAM	INSPECTION PERIOD (10 YR.)	(10 YR.) PERCENT	LOCATION	REMARKS
C4.2	C-D	ACCUMULATOR DISCHARGE LINES 12-S1-29A	V, UT	1 VALVE	1 VALVE	-	-	-	-	EL 699'	VALVE NO. 8800A ISI-85 (MULTIPLE STREAMS)
		12-S1-29B	V, UT	1 VALVE	1 VALVE	-	1 VALVE	TWO	(100%)	EL 698'	(16-1.875" DIA. BOLTING PER VALVE)
C4.3	C-E-1	INTEGRALLY WELDED SUPPORTS	S	NONE	-	REMARKS					NO ITEMS TO CATEGORY C-E-1 (UNDER C2.5)
C4.4	C-E-2	SUPPORT COMPONENTS	V	NONE	-	REMARKS					NO ITEMS TO CATEGORY C-E-2 (UNDER C2.6)

ASME Section XI Pressure Testing Program - Unit No. 1 and Common Components

ASME Code Edition and Addenda: 1974 Edition through and including Summer 1975 Addenda

Program Period: April 16, 1977 to December 16, 1983

The system Code Class boundaries are established on the attached ASME Code Classification Drawings, Sheets 2 through 40. The Pressure Test Program for the Class 1, 2, and 3 systems is as follows:

ASME CODE CLASS	TEST TYPE	TEST FREQUENCY	TEST SPECIFICATION	REQUEST FOR RELIEF
1	Leakage	Refueling	IWB-5210(a) IWB-5221 IWA-5000	#20, #60
1	Hydrostatic	10 years	IWB-5210(b) IWB-5222 IWA-5000	#20
2	Pressure Test	3 1/3 years	IWC-2412 IWC-2510 IWC-5210	#19, #20, #29
2	Hydrostatic Test	10 years	IWC-2412 IWC-2510 IWC-5210	#19, #20, #29
3	Pressure	10 years	IWD-2410(b)	#20, #28, #30, #31

ASME CODE VALVES

SYS	FLOW DIAGRAM	VALVE NO	CLASS DWG	DESCRIPTION	VLV CAT	TEST PROC	TEST TYPE	TEST FREQ	REQUEST FOR RELIEF
MS	NF-39218	CV-31099	15	12 LOOP B MN STM HDR ISOL	B	SP-1099	E	CS	
MS	NF-39218	CV-31099	15	11 LOOP A MN STM HDR ISOL	B	SP-1099	E	CS	
MS	NF-39218	MV-32264	15	11 TD AFWP MN STEAM SUPPLY	B	SP-1102	E	M	
MS	NF-39218	RS-21-1	15	SAFETY VLV STM GEN 11	C	SP-1049	SP	5Y	
MS	NF-39218	RS-21-2	15	SAFETY VLV STM GEN 11	C	SP-1049	SP	5Y	
MS	NF-39218	RS-21-3	15	SAFETY VLV STM GEN 11	C	SP-1049	SP	5Y	
MS	NF-39218	RS-21-4	15	SAFETY VALVE STM GEN 11	C	SP-1049	SP	5Y	
MS	NF-39218	RS-21-5	15	SAFETY VALVE STM GEN 11	C	SP-1049	SP	5Y	
MS	NF-39218	RS-21-6	15	SAFETY VALVE STM GEN 12	C	SP-1049	SP	5Y	
MS	NF-39218	RS-21-7	15	SAFETY VALVE STM GEN 12	C	SP-1049	SP	5Y	
MS	NF-39218	RS-21-8	15	SAFETY VALVE STM GEN 12	C	SP-1049	SP	5Y	
MS	NF-39218	RS-21-9	15	SAFETY VALVE STM GEN 12	C	SP-1049	SP	5Y	
MS	NF-39218	RS-21-10	15	SAFETY VALVE STM GEN 12	C	SP-1049	SP	5Y	
MS	NF-39218	RS-15-1	15	12 STM GEN TO 11 AUX FW PUMP CHECK	C	SP-1103	E	R	#5
MS	NF-39218	RS-15-2	15	11 STM GEN TO 11 AUX FW PUMP CHECK	C	SP-1103	E	R	#5

1.4-17

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## 19. REQUEST FOR RELIEF

PAGE OF

COMPONENT	FUNCTION	ASME	
		Code Class	Vlv Cat
ALL CLASS 2 COMPONENTS	PRESSURE RETAINING	2	-

CODE REQUIREMENT

The system pressure tests will not be conducted as required by the 1974 Edition through and including the Summer 1975 Addenda of the ASME XI Code.

BASIS

The 1974 Edition Summer 1975 Addenda does not address examination frequency or pressure requirements for Class 2 systems.

ALTERNATE INSPECTION (TESTING)

All components will be pressure tested in accordance with 1977 Edition through and including the Summer 1978 Addenda of the ASME Section XI Code with exceptions as listed below.

EXCEPTIONS

1. The examination method for the IWC-5221 & IWC-5222 Test will be in accordance with the 1974 Ed through 1975 Summer Addenda.
2. For those Class 2 systems which are in continuous operation and where no the in service operation pressure shall be the test pressure.

SCHEDULE FOR IMPLEMENTATION

January 1, 1982

1.5-25

(NEXT PAGE IS 1.5-27)

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## 29. REQUEST FOR RELIEF

COMPONENT	FUNCTION	ASME	
		Code Class	Vlv Cat
Safety Injection Piping unisolable from Class 1 piping (Sheet 8)	Pressure Retaining	2	-
Reactor Coolant System Piping 3/4" & smaller that is unisolable from Class 1 Piping (Sheet 2)	Pressure retaining	2	-
Residual Heat Removal System piping unisolable from Class 1 piping (Sheet 8)	Pressure retaining	2	-
RCP Seal Injection piping 3/4" & smaller that is unisolable from Class 1 Piping (Sheet 4)	Pressure retaining	2	-
RCP Seal Return piping unisolable from Class 1 (Sheet 4)	Pressure retaining	2	-
Charging Line piping unisolable from Class 1 (Sheet 4)	Pressure retaining	2	-
Sample System piping unisolable from Class 1 (Sheet 2)	Pressure retaining	2	-

CODE REQUIREMENT

Portions of the Class 2 piping will not be tested at the pressures required by IWC-5000.

BASIS

The piping is not isolable from the Class 1 piping.

ALTERNATE INSPECTION (TESTING)

The piping will be tested to the Class 1 requirements, i.e.:

1. The unisolated portions of the Class 2 piping will be visually examined for evidence of leakage at the system nominal operating pressure in accordance with the requirement of IWB-5221. This inspection will be performed prior to startup following each reactor refueling outage.
2. The unisolated portion of the Class 2 piping will be hydrostatically tested when the Class 1 piping is tested.

SCHEDULE FOR IMPLEMENTATION

January 1, 1982

1.5-36

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#### 4/9. REQUEST FOR RELIEF

COMPONENT	FUNCTION	ASME	
		Code Class	Vlv Cat
1?, 22 Diesel Cooling Water Pump	Remove heat from components that must function during accident conditions.	3	—

#### CODE REQUIREMENT

Inlet pressure will not be used to evaluate the condition of the pump as required by IWP-3110 and 3210.

#### BASIS

The pump suction is located in the cooling water intake bay and suction pressure indication is not available.

#### ALTERNATE INSPECTION (TESTING)

Intake bay level will be factored into the differential pressure data used in the pump test.

#### SCHEDULE FOR IMPLEMENTATION

April 16, 1977

1.5-48

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## 45. REQUEST FOR RELIEF

COMPONENT OR ITEM	CODE CLASS	PROGRAM TABLE	CODE ITEM	EXAM CATEGORY
REGENERATIVE HEAT EXCHANGERS	1	1.3.2	B3.1	B-B
EXCESS LETDOWN HEAT EXCHANGER	1	1.3.3	B3.1	B-B
RHR HEAT EXCHANGERS	2	2.1.3	C1.1	C-A
			C1.2	C-B
BORIC ACID TANKS	2	2.1.4	C1.1	C-A
			C1.2	C-B

CODE REQUIREMENT

Ultrasonic examinations shall be conducted in accordance with Appendix I of Section XI or the provisions of Article 5 of Section V.

BASIS

The design requirements for these heat exchangers and tanks resulted in relatively thin wall vessels which permitted them to be fabricated from piping components or thin plate. Therefore, the ultrasonic examination procedure for pipe welds would be more applicable than these for heavy wall vessels.

ALTERNATE

The ultrasonic examination procedures will comply with Appendix III of the 1974 Edition through the Summer 1976 Addenda of ASME Section XI.

SCHEDULE FOR IMPLEMENTATION

April 16, 1977

1.5-52

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# 46. REQUEST FOR RELIEF

COMPONENT OR ITEM	CODE CLASS	PROGRAM TABLE	CODE ITEM	EXAM CATEGORY
SAFE END TO PIPING	1	1.4	B4.1	B-F
CIRCUMFERENTIAL AND LONGITUDINAL PIPEWELDS	1	1.4	B4.5	B-J
BRANCH PIPE WELDS	1	1.4	B4.6	B-J
INTEGRALLY WELDED SUPPORTS	1	1.4	B4.9	B-K-1
CIRCUMFERENTIAL BUTT WELDS	2	2.2.1	C2.1	F/C-G
LONGITUDINAL WELD JOINTS IN FITTINGS	2	2.2.2	C2.2	C-F/C-G
BRANCH PIPE TO PIPE WELD JOINTS	2	2.2.3	C2.3	C-G

## CODE REQUIREMENTS

Ultrasonic examinations shall be conducted in accordance with Appendix I of Section XI or the provisions of Article 5 of Section V.

## BASIS

Appendix I of Section XI is not applicable to most of these piping welds due to the size and material limitations of Appendix I. And the use of side drilled holes to establish a distance amplitude correction (DAC) curve, as required by Article 5 of Section V, results in an instrument gain setting which greatly impairs the examiner's ability to detect and to interpret indications by producing a much lower signal-to-noise ratio and decreases the usable DAC range.

## ALTERNATE

The rules of Appendix III, including Supplement 7, of the 1974 Edition through the Summer 1976 Addenda of ASME Section XI will be used for the ultrasonic examination of piping welds and welds in components fabricated from pipe. The evaluation of indications will comply with the rules of the Summer 1975 Addenda of Section XI.

## SCHEDULE FOR IMPLEMENTATION

April 16, 1977



## 47. REQUEST FOR RELIEF

COMPONENT OR ITEM	CODE CLASS	PROGRAM TABLE	CODE ITEM	EXAM CATEGORY
REACTOR COOLANT PUMP INTEGRALLY WELDED SUPPORTS	1	1.5	B5.4	B-K-1

CODE REQUIREMENT

Perform volumetric examination of the integrally welded support attachments.

BASIS

Present ultrasonic examination methods would be ineffective because of the weld joint geometry and the heavy wall, austenitic stainless steel cast structure of the pump body and lugs.

ALTERNATE

If a proven volumetric examination technique is developed an attempt will be made to examine these welded supports. However, if a volumetric examination technique is not developed, a surface examination will be performed on the weld to the extent possible.

SCHEDULE FOR IMPLEMENTATION

April 16, 1977

1.5-54

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## 48. REQUEST FOR RELIEF

COMPONENT OR ITEM	CODE CLASS	PROGRAM TABLE	CODE ITEM	EXAM CATEGORY
REACTOR COOLANT PUMPS FLANGE AND SEAL HOUSE BOLTING	1	1.5	B5.1 B5.2	B-G-1 B-G-1
STEAM GENERATOR MANWAY BOLTS	2	2.1.1	C1.4	C-D
ACCUMULATOR MANWAY BOLTS	2	2.1.2	C1.4	C-D
RHR HEAT EXCHANGER FLANGE BOLTING	2	2.1.3	C1.4	C-D
BORIC ACID TANK MANWAY BOLTS	2	2.1.4	C1.4	C-D
PIPING PRESSURE RETAINING BOLTS	2	2.2.4	C2.4	C-D
PUMP PRESSURE RETAINING BOLTS	2	2.3	C3.2	C-D
VALVE PRESSURE RETAINING BOLTS	2	2.4	C4.2	C-D

CODE REQUIREMENTS

Ultrasonic examinations shall be performed in accordance with Article 5 of Section V when the provisions of Appendix I of Section XI do not apply. Section V requires that calibration be established on a test bar that has certain physical and chemical parameters.

BASIS

The Section V technique utilizing the calibration test bar was not used for the baseline examinations and it is not as sensitive to detect discontinuities as the presently applied back reflection method. In addition, when using the back reflection method, the poorer the end reflecting surfaces (painted, corroded, etc.) the more conservative the examinations are.

ALTERNATE

The items will be examined using the back reflection method correlated with an as built sketch of the particular bolt or stud being examined. ASME Section XI will be used for evaluation criteria.

SCHEDULE FOR IMPLEMENTATION

April 16, 1977

1.5-55

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## 52. REQUEST FOR RELIEF

COMPONENT OR ITEM	CODE CLASS	PROGRAM TABLE	CODE ITEM	EXAM CATEGORY
NON-WELDED SUPPORT COMPONENTS	1	1.4	B4.10	B-K-2
	2	2.2.6	C2.6	C-E-2
	3	-	--	IWD-2600 (c)

CODE REQUIREMENT

Examination Category B-K-2 and C-E-2 of ASME Section XI requires all areas of the support component from the piping, valve, and pump attachment to and including the attachment to the supporting structure be examined.

BASIS

Insulation will not be removed for visual examination provided that all mechanical connections and welds can be examined. It has been our experience that any loss of support capability or inadequate restraint can usually be detected through the inspection of the uninsulated portion of the support and the surrounding insulation. The governing Codes and Regulations used in the design and construction of those systems that are now classified as Class 2 and 3 did not require provisions for inspection access for these systems. Thus, it would be an undue burden without compensating increase in safety to require insulation removal for support inspection.

ALTERNATIVE

The insulation will be removed from a supported component for further inspections whenever the connections and welds can not be examined or an abnormality is detected that may have been a result of a loss of support capability or inadequate restraint.

SCHEDULE FOR IMPLEMENTATION

April 16, 1977

1.5-59

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## 56. REQUEST FOR RELIEF

COMPONENT OR ITEM	CODE CLASS	PROGRAM TABLE	CODE ITEM	EXAM CATEGORY
SAFE END TO PIPING	1	1.4	B4.1	B-F
CIRCUMFERENTIAL AND LONGITUDINAL PIPE WELDS	1	1.4	B4.5	B-J
CIRCUMFERENTIAL BUTT WELDS	2	2.2.1	C2.1	C-F/C-G
LONGITUDINAL WELD JOINTS IN FITTINGS	2	2.2.2	C2.2	C-F/C-G
BRANCH PIPE TO PIPE WELDS	2	2.2.3	C2.3	C-G
RHR HEAT EXCHANGERS	2	2.1.3	C1.1	C-A
			C1.2	C-B
BORIC ACID TANKS	2	2.1.4	C1.1	C-A
			C1.2	C-B

CODE REQUIREMENT

When using Appendix III of ASME Section XI Summer 1976 Addenda, the basic calibration blocks shall be made from material of the same nominal diameter as those to be examined.

BASIS

A flat basic calibration block may be used in lieu of a block essentially the same curvature for components greater than 20 inches in diameter. Any difference in accuracy and sensitivity for ultrasonic examination when using a flat basic calibration block versus a curved basic calibration blocks for components greater than 20 inches in diameter is within the accuracy of the test. NSP believes that compliance with Appendix III requirements for basic calibration block curvature would be an undue burden with no increase in public safety.

ALTERNATIVE

For surface curvature, the rules of Article 5 of Section V, 1974 Edition through Summer 1975 Addenda, will apply for examination of pipe welds and welds in components fabricated from piping. In addition the other requirements of Appendix III for basic calibration blocks will be met.

SCHEDULE FOR IMPLEMENTATION

April 16, 1977

## 63. REQUEST FOR RELIEF

COMPONENT OR ITEM	CODE CLASS	PROGRAM TABLE	CODE ITEM	EXAM CATEGORY
REACTOR COOLANT PUMP CASING WELDS	1	1.5	B5.6	B-L-1

CODE REQUIREMENT

Volumetric examination of the pump casing weld at or near the end of the inspection interval.

BASIS

Present ultrasonic examination methods would be ineffective because of the heavy wall, austenitic stainless steel cast structure of the pump body.

ALTERNATE

If a proven volumetric examination technique (ultrasonic or radiography) is developed, an attempt will be made to examine this weld when pump is disassembled near the end of the inspection interval. If a volumetric inspection technique is not developed, a surface examination will be performed on the weld to the extent possible.

SCHEDULE FOR IMPLEMENTATION

September 30, 1981

1.5-75

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## 64. REQUEST FOR RELIEF

COMPONENT OR ITEM	CODE CLASS	PROGRAM TABLE	CCDE ITEM	EXAM CATEGORY
REACTOR VESSEL SAFETY INJECTION NOZZLE TO VESSEL WELDS	1	1.1	B1.4	B-D

CODE REQUIREMENT

The 1974 Edition through the summer 1975 Addenda of ASME Section XI requires a minimum and identified a maximum percentage of examinations that are to be completed by the expiration of each of the three inspection periods.

BASIS

The Safety Injection nozzle to vessel welds (2) will not be examined in accordance with this schedule. The Westinghouse reactor vessel inspection tool will be used to perform these examinations, and to date, they have been unable to develop a reliable inspection head for these small injection nozzles. The inspection head is now designed to house contact ultrasonic transducers. This design will allow a very minimum variation in alignment between the core barrel and the vessel nozzle, and also in the cladding variation on the nozzle inside diameter.

ALTERNATE

Both Safety Injection nozzle to vessel welds will be examined at the end of the ten year interval when the core barrel is removed.

SCHEDULE FOR IMPLEMENTATION

September 30, 1981

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NORTHERN STATES POWER CO.  
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TEN YEAR INTERVAL INSPECTION SUMMARY

TABLE 1.1

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MAJOR ITEM: REACTOR VESSEL

SUB ITEM	EXAM. CATE- GORY	COMPONENT OR SYSTEM, AND DESCRIPTION OF ITEM TO BE EXAMINED	TOTAL NO. PER ITEM	NDE METHODS	IDENTIFICATION	EXAMINATION AMOUNT AND EXTENT	INSPEC- TION PERIOD	LOCATION OR SYSTEM NUMBER	RUNNING PERCENT	REMARKS
B1.1	F-A	<u>LONGITUDINAL AND CIRCUMFERENTIAL WELDS IN CORE REGION</u>								REQUIRES THE REMOVAL OF CORE BARREL
		LONGITUDINAL WELDS	NONE	—	—	—	—	—		
		CIRCUMFERENTIAL WELDS	1	U.T.	WELD NO. 3 (2-ISI-42)	21 FEET (MIN.)	THREE	LOWER SHELL ASSEMBLY TO INTERMEDIATE WELD	50	RELIEF NO. 55
B1.2	B-B	<u>LONGITUDINAL AND CIRCUMFERENTIAL WELDS IN SHELL (OTHER THAN THOSE OF CATEGORY B-A AND B-C) AND MERIDIONAL AND CIRCUMFERENTIAL SEAM WELDS IN BOTTOM HEAD AND CLOSURE HEAD (OTHER THAN THOSE OF CATEGORY B-C)</u>								REQUIRES THE REMOVAL OF THE CORE BARREL
		LONGITUDINAL WELDS	NONE	—	—	—	—	—		
		MERIDIONAL WELDS	NONE	—	—	—	—	—		
		CIRCUMFERENTIAL WELDS	3	U.T.	WELD NO. 2 (2-ISI-42)	25 INCHES (MIN.)	THREE	UPPER SHELL ASSEMBLY TO LOWER SHELL ASSEMBLY	5	RELIEF NO. 55
					WELD NO. 4 (2-ISI-42)	25 INCHES (MIN.)	THREE	LOWER TRANSITION HEAD TO SHELL WELD	5	
					WELD NO. 5 (2-ISI-42)	25 INCHES (MIN.)	THREE	BOTTOM HEAD RING TO LOWER TRANSITION HEAD WELD	5	
B1.3	B-C	<u>VESSEL-TO-FLANGE AND HEAD-TO-FLANGE CIRCUMFERENTIAL WELDS</u>								RELIEF NO. 55
		VESSEL TO FLANGE	1	U.T.	WELD NO. 1 (2-ISI-42)	CLOCKWISE, 14 FT. (MIN.)	ONE	VESSEL FLANGE	33	
						CLOCKWISE, 12 FT. (MIN.)	TWO	VESSEL FLANGE	62	
						CLOCKWISE, 16 FT. (MIN.)	THREE	VESSEL FLANGE	100	

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TABLE 1.1

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MAJOR ITEM: REACTOR VESSEL

SUB ITEM	EXAM. CATE- GORY	COMPONENT OR SYSTEM, AND DESCRIPTION OF ITEM TO BE EXAMINED	TOTAL NO. PER ITEM	NDE METHODS	IDENTIFICATION	EXAMINATION AMOUNT AND EXTENT	INSPEC- TION PERIOD	LOCATION OR SYSTEM NUMBER	RUNNING PERCENT	REMARKS		
B1.4	B-D	HEAD TO FLANGE	1	U. T.	WELD NO. 6 (2-ISI-41)	CLOCKWISE, 14 FT. (MIN.)	ONE	HEAD FLANGE	33	RELIEF NO. 55  INSPECTION OF INLET NOZZLES AND SI NOZZLES REQUIRES REMOVAL OF CORE BARREL		
		<u>PRIMARY NOZZLE-TO-VESSEL WELDS AND NOZZLE INSIDE RADIUSED SECTIONS</u>  REACTOR CORE  COOLANT NOZZLES  OUTLET NOZZLES	2	U. T.	RCC-A-1 (2-ISI-40) RCC-B-1 (2-ISI-40)	1 WELD (100%)  1 WELD (100%)	ONE  TWO	237° (29-2RC-1A)  57° (29-2RC-1B)	25  50			
			2	U. T.	RCC-A-14 (2-ISI-40) RCC-B-14 (2-ISI-40)	1 WELD (100%)	THREE	174° (27.5-2RC-3A)	75			
			SAFETY INJECTION NOZZLES	2	U. T.	LOOP A (2-ISI-40) LOOP B (2-ISI-40)	1 WELD (100%)  1 WELD (100%)	THREE  THREE	354° (27.5-2RC-3B)  137° (4-2RC-14A)  317° (4-2RC-14E)		100  50  100	RELIEF NO. 64
B1.5	B-E	<u>VESSEL PENETRATIONS, INCLUDING CONTROL ROD DRIVE AND INSTRUMENTATION PENETRATIONS</u>	40	V		3 PENETRATIONS (MIN.)	ONE	TOP OF REACTOR VESSEL CLOSURE HEAD	8	PLANT OPERATIONS		
		3 PENETRATIONS (MIN.)				TWO	15					
		4 PENETRATIONS (MIN.)				THREE	25					
CONTROL ROD PENETRATIONS												

NORTHERN STATES POWER CO.  
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MAJOR ITEM: REACTOR VESSEL

SUB ITEM	EXAM. CATE- GORY	COMPONENT OR SYSTEM, AND DESCRIPTION OF ITEM TO BE EXAMINED	TOTAL NO. PER ITEM	NDE METHODS	IDENTIFICATION	EXAMINATION AMOUNT AND EXTENT	INSPIC- TION PERIOD	LOCATION OR SYSTEM NUMBER	RUNNING PERCENT	REMARKS
B1.9	B-G-1	<u>LIGAMENTS BETWEEN THREADED STUD HOLES</u>	48	U.T.	12-22 & 29-35 9-11 & 36-46 REMAINDER (2-ISI-42)	16 (100%) 14 (100%) 18 (100%)	ONE TWO THREE	VESSEL FLANGE VESSEL FLANGE VESSEL FLANGE	33 63 100	RELIEF NO. 55 CLOSURE HEAD REMOVED
B1.10	B-G-1	<u>CLOSURE WASHERS AND BUSHINGS</u>  WASHERS	48	V	1 THRU 16 17 THRU 32 33 THRU 48 (2-ISI-39)	16 PAIRS (100%) 16 PAIRS (100%) 16 PAIRS (100%)	ONE TWO THREE	—	33 66 100	
B1.11	B-G-2	<u>BUSHINGS</u>  <u>PRESSURE RETAINING BOLTING</u>	NONE 9	— V	— 3 CONOSEAL BOLTS PER MARION CLAMP (3) (2-ISI-38)	— 3 BOLTS (100%) 3 BOLTS (100%) 3 BOLTS (100%)	— ONE TWO THREE	— CLOSURE HEAD 120" CLOSURE HEAD 240" CLOSURE HEAD 360"	— 33 66 100	
B1.12	B-H	<u>INTEGRALLY WELDED VESSEL SUPPORTS</u>	2	U.T.	SUPPORT LUGS A & B (2-ISI-4C)	2 LUGS 100%	THREE	LUG A-117° LUG B-297°	100	RELIEF NO. 54 AND 55
B1.13	B-I-1	<u>CLOSURE HEAD CLADDING</u>	6	V-S	HCP-1 & HCP-2 HCP-3 & HCP-4 HCP-5 & HCP-6	TWO, 36 SQ. IN. AREA TWO, 36 SQ. IN. AREAS TWO, 36 SQ. IN. AREAS	ONE TWO THREE	INTERIOR Y CLOSURE HEAD	— — —	RELIEF REQUEST NO. 51

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TEN YEAR INTERVAL INSPECTION SUMMARY

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MAJOR ITEM: PRESSURIZER

SUB ITEM	EXAM. CATEGORY	COMPONENT OR SYSTEM, AND DESCRIPTION OF ITEM TO BE EXAMINED	TOTAL NO. PER ITEM	NDE METHODS	IDENTIFICATION	EXAMINATION AMOUNT AND EXTENT	INSPEC- TION PERIOD	LOCATION OR SYSTEM NUMBER	RUNNING PERCENT	REMARKS
B2.1	B-B	<u>LONGITUDINAL AND CIRCUMFERENTIAL WELDS</u>			(2-ISI-36)					
		LONGITUDINAL WELDS	2	U.T.	WELD NO. 1	7" (MIN.) 7" (MIN.)	THREE THREE	BOTTOM HEAD, UP @ 45° LOWER SHELL, DOWN @ 45°	5 10	RELIEF NO. 55 EXAMINATION OF LONGITUDINAL WELDS AT THE JUNCTION WITH THE CIRCUMFERENTIAL WELDS - ORIENTATION CW FROM MANWAY FOR WELD 1 AND WELD 2
		CIRCUMFERENTIAL WELDS	3	U.T.	WELD NO. 2	8" (MIN.) 8" (MIN.)	ONE TWO	UPPER SHELL, UP @ 135° TOP HEAD, DOWN @ 135°	5 10	
					WELD NO. 3	5" (MIN.) 5" (MIN.) 5" (MIN.)	ONE TWO THREE	BOTTOM HEAD TO 240° LOWER SHELL 120° 0°	1.7 3.4 5.2	VESSEL NAME PLATE @ 0°, CW FOR CIRCUMFERENTIAL SHELL WELDS
					WELD NO. 4	5" (MIN.) 5" (MIN.) 5" (MIN.)	ONE TWO THREE	UPPER SHELL TO 240° LOWER SHELL 120° 0°	1.7 3.4 5.2	
					WELD NO. 5	5" (MIN.) 5" (MIN.) 5" (MIN.)	ONE TWO THREE	TOP SHELL TO 240° UPPER SHELL 120° 0°	1.7 3.4 5.2	
B2.2	B-D	<u>NOZZLE-TO-VESSEL WELDS</u>	NONE	—	—	—	—	—	—	
B2.3	B-E	<u>HEATER PENETRATIONS</u>	78	V	HEATER SER. NO. 1 THRU 7 34 THRU 40 72 THRU 78	7 PENETRATIONS 7 PENETRATIONS 7 PENETRATIONS	ONE TWO THREE	LOWER HEAD	9 18 27	
B2.4	B-F	<u>NOZZLE-TO-SAFE END WELDS</u>	5	S-U.T.	2-8010A-1A S.E. 2-8010B-1A S.E. 2-ISI-35 AND 2-ISI-30	2 WELDS (100%)	ONE/TWO ONE/TWO	SAFETY LINE (6-2RC-20A) SAFETY LINE (6-2RC-20B)	20 40	
					WELD 15 S.E. 2-ISI-31	1 WELD (100%)	TWO	SURGE LINE 14" LOWER HEAD (10-2RC-4)	60	
					WELD 1A S.E. 2-ISI-27	1 WELD (100%)	TWO THREE	RELIEF LINE (4" x 3") (3-2RC-21)	80	
		(CONTINUED NEXT PAGE)								

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TEN YEAR INTERVAL INSPECTION SUMMARY

MAJOR ITEM: PRESSURIZER

SUB ITEM	EXAM. CATE-GORY	COMPONENT OR SYSTEM, AND DESCRIPTION OF ITEM TO BE EXAMINED	TOTAL NO. PER ITEM	NDE METHODS	IDENTIFICATION	EXAMINATION AMOUNT AND EXTENT	INSPECTION PERIOD	LOCATION OR SYSTEM NUMBER	RUNNING PERCENT	REMARKS
B2.4	B-F	(CONTINUED)			WELD 22A S.E. 2-151-7	1 WELD (100%)	TWO THREE	SPRAY LINE (3-2RC-5)	100	
B2.5 B2.6 AND B2.7	B-G-1	PRESSURE-RETAINING BOLTS AND STUDS ( $\geq 2$ IN. DIA.)	NONE	—	—	—	—	—	—	
B2.8	B-H	INTEGRALLY WELDED VESSEL SUPPORTS	1	U.T.	WELD NO. 6 (2-151-36)	1 FT. 4 IN. 1 FT. 4 IN. 1 FT. 4 IN.	ONE TWO THREE	SUPPORT SKIRT 0° 120° 240°	3.3 6.6 10	
B2.9	B-I-2	VESSEL CLADDING	1	V	—	1 PATCH (36 SQ. IN.)	THREE	UPPER HEAD MANWAY	—	
B2.10	B-P	EXEMPTED COMPONENTS			3/4" PENE-TRATIONS	(REMARKS)			---	COMPONENTS EXAMINED IN ACCORDANCE WITH IWA-5000 DURING EACH SYSTEM LEAKAGE TEST AND EACH SYSTEM HYDROSTATIC TEST REQUIRED BY IWB-5000
		INSTRUMENT NOZZLE PENETRATIONS	8	V	NO. 5A NO. 5B NO. 5C NO. 5H NO. 5D NO. 5E NO. 5F NO. 5G		1 - 10	TOP HEAD 180° TOP HEAD 240° TOP HEAD 300° TOP HEAD 120° BOTTOM SHELL 180° BOTTOM SHELL 240° BOTTOM SHELL 300° BOTTOM SHELL 120°		
		SAMPLE NOZZLE PENETRATION	1	V	NO. 6		1 - 10	BOTTOM SHELL 60°		
B2.11	B-G-2	PRESSURE-RETAINING BOLTING								
		MANWAY BOLTS	16	V	BOLTS 1 THRU 5 6 THRU 10 11 THRU 16 (2-151-35)	5 BOLTS (100%) 5 BOLTS (100%) 6 BOLTS (100%)	ONE TWO THREE	UPPER HEAD (0°-140°) UPPER HEAD (140°-250°) UPPER HEAD (250°-0°)	31 63 100	

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TEN YEAR INTERVAL INSPECTION SUMMARY

TABLE 1.3.1

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MAJOR ITEM: STEAM GENERATORS  
NO. 21 AND NO. 22

SUB ITEM	EXAM. CATE-GORY	COMPONENT OR SYSTEM, AND DESCRIPTION OF ITEM TO BE EXAMINED	TOTAL NO. PER ITEM	NDE METHOD	IDENTIFICATION	EXAMINATION AMOUNT AND EXTENT	INSPECTION PERIOD	LOCATION OR SYSTEM NUMBER	RUNNING PERCENT	REMARKS
B3.8	B-1-2	<u>VESSEL CLADDING</u> STEAM GENERATOR NO. 21	1	V	INLET	1 PATCH, 36 SQ. IN.	ONE THREE	BELOW MANWAY	—	RELIEF NO. 51
			1	V	OUTLET	1 PATCH, 36 SQ. IN.	ONE THREE	BELOW MANWAY	—	
		STEAM GENERATOR NO. 22	1	V	INLET	1 PATCH, 36 SQ. IN.	ONE THREE	BELOW MANWAY	—	
			1	V	OUTLET	1 PATCH, 36 SQ. IN.	ONE THREE	BELOW MANWAY	—	
B3.9	B-P	<u>EXEMPTED COMPONENTS</u>	NONE	—	—	—	—	—	—	
B3.10	B-G-2	<u>PRESSURE-RETAINING BOLTING</u> ( $\leq 2$ IN. DIA.) STEAM GENERATOR NO. 21	16	V	INLET MANWAY	5 BOLTS (1 THRU 5) 5 BOLTS (6 THRU 10) 6 BOLTS (11 THRU 16)	ONE TWO THREE	MANWAY COVERS OF CHANNEL HEADS	31 63 100	
			16	V	OUTLET MANWAY	5 BOLTS (1 THRU 5) 5 BOLTS (6 THRU 10) 6 BOLTS (11 THRU 16)	ONE TWO THREE		31 63 100	

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TEN YEAR INTERVAL INSPECTION SUMMARY

TABLE 1.3.3

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MAJOR ITEM: EXCESS LETDOWN  
HEAT EXCHANGER

SUB ITEM	EXAM. CATE- GORY	COMPONENT OR SYSTEM, AND DESCRIPTION OF ITEM TO BE EXAMINED	TOTAL NO. PER ITEM	NDE METHODS	IDENTIFICATION	EXAMINATION AMOUNT AND EXTENT	INSPIC- TION BY	LOCATION OR SYSTEM NUMBER	RUNNING PERCENT	REMARKS
B3.1	B-B	LONGITUDINAL AND CIRCUMFERENTIAL WELDS ON PRIMARY SIDE	NONE	—	—	—	—	—	—	—
		LONGITUDINAL WELDS	NONE	—	—	—	—	—	—	—
		CIRCUMFERENTIAL WELDS	1	U.T.	WELD 1 (2-151-46)	NONE 10 IN. (0°-240°) 10 IN. (240°- 0°)	ONE TWO THREE	HEAD TO FLANGE	100 100	RELIEF NO. 45
B3.2	B-D	NOZZLE-TO-VESSEL WELDS	NONE	—	—	—	—	—	—	—
B3.3	B-F	NOZZLE-TO-SAFE END WELDS	NONE	—	—	—	—	—	—	—
B3.4	B-G-1	PRESSURE-RETAINING BOLTS AND STUDS (≥ 2 IN. DIA.)	NONE	—	—	—	—	—	—	—
B3.5 AND B3.6										
B3.7	B-H	INTEGRALLY WELDED VESSEL SUPPORTS	NONE	—	—	—	—	—	—	—
B3.8	B-I-2	VESSEL CLADDING	NONE	—	—	—	—	—	—	—
B3.9	B-P	EXEMPTED COMPONENTS	NONE	—	—	—	—	—	—	—
B3.10	B-G-2	PRESSURE-RETAINING BOLTING (≈ 2 IN. DIA.)	12	V	1 - 5/8 IN. DIA. STUDS (2-151-46)	NONE 8 BOLTS (IN PLACE) 4 BOLTS (IN PLACE)	ONE TWO THREE	HEAD TO SHELL FLANGE	100 100	—

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TEN YEAR INTERVAL INSPECTION SUMMARY

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MAJOR ITEM: PIPING PRESSURE BOUNDARY

SUB ITEM	EXAM. CATE- GORY	COMPONENT OR SYSTEM, AND DESCRIPTION OF ITEM TO BE EXAMINED	TOTAL NO. PER ITEM	NDE METHODS	IDENTIFICATION	EXAMINATION AMOUNT AND EXTENT	INSPEC- TION PERIOD	LOCATION OR SYSTEM NUMBER	RUNNING PERCENT	REMARKS
B4.5	B-J	6.0 IN. NOM. DIA. SYSTEMS								
		REACTOR VESSEL	6	U.T.	BUTT WELDS	---	ONE	---	---	
		SAFETY INJECTION			LOOP A - 6"	1 WELD 100%	TWO	EL 721' (6-2SI-25A)	17	
		LOW HEAD			2-ISI-29	1 WELD 100%	THREE	EL 707' (6-2SI-25A)	33	
		REACTOR VESSEL	8	U.T.	BUTT WELDS	1 WELD 100%	ONE	EL 716' (6-2SI-25B)	13	
		SAFETY INJECTION			LOOP B - 6"	-NONE-	TWO	---	13	
		LOW HEAD			2-ISI-28	1 WELD 100%	THREE	EL 723' (6-2RC-14B)	25	
		SAFETY INJECTION	3	U.T.	BUTT WELDS	---	ONE	---	---	
		HIGH HEAD			LOOP A - 6"	---	TWO	---	---	
					2-ISI-8	1 WELD 100%	THREE	CUBICLE A (6-2RC-13B)	33	
		SAFETY INJECTION	3	U.T.	BUTT WELD	1 WELD 100%	ONE	CUBICLE B (6-2RC-13D)	33	
		HIGH HEAD			LOOP B - 6"	---	TWO	---	33	
					2-ISI-18	---	THREE	---	33	
		PRESSURIZER SAFETY	8	U.T.	BUTT WELDS	-NONE-	ONE	---	---	
		LINE A			LINE A - 6"	3 WELDS 100%	TWO	CUBICLE B (6-2RC-20A)	38	
					2-ISI-30	1 WELD 100%	THREE	CUBICLE B (6-2RC-20A)	50	
		PRESSURIZER SAFETY	8	U.T.	BUTT WELDS	2 WELDS 100%	ONE	CUBICLE B (6-2RC-20B)	25	
		LINE B			LINE B - 6"	2 WELDS 100%	TWO	---	50	
					2-ISI-30	1 WELD 100%	THREE	CUBICLE B (6-2RC-20B)	62	
		PLO - CAP	1	U.T.	BUTT WELD	-NONE-	ONE	---	---	
					LOOP A - 6"	-NONE-	TWO	---	---	
					2-ISI-9	1 WELD 100%	THREE	CUBICLE A (6-2RC-13A)	100	
		PLO CAP	1	U.T.	BUTT WELD	-NONE-	ONE	---	---	
					LOOP B - 6"	1 WELD 100%	TWO	CUBICLE B (6-2RC-13C)	100	
					2-ISI-19	-NONE-	THREE	---	100	

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MAJOR ITEM: PIPING PRESSURE BOUNDARY

SUB-ITEM	EXAM. CATEGORY	COMPONENT OR SYSTEM, AND DESCRIPTION OF ITEM TO BE EXAMINED	TOTAL NO. PER ITEM	NDE METHODS	IDENTIFICATION	EXAMINATION AMOUNT AND EXTENT	INSPECTION PERIOD	LOCATION OR SYSTEM NUMBER	FINISHING PERCENT	REMARKS	
B4.10	B-K-2	CONTINUED			(NON-WELDED)						
		REACTOR VESSEL	4	V	SUPPORT	1 SUPPORT 100%	ONE	EL 721'	(6-2SI-25A)	25	
		SAFETY INJECTION			LOOP A - 4" & 6"	1 SUPPORT 100%	TWO	EL 723'	(4-2RC-14A)	50	
					2-ISI-29	2 SUPPORTS 100%	THREE	EL 722'	(6-2RC-14A) (4-2RC-14A)	100	
		PRESSURIZER SAFETY LINES	2	V	SUPPORTS LOOP A & B - 6"						
					2-ISI-30						
		LINE A	1	V	---	1 SUPPORT 100%	ONE	ATOP PZR.	(6-2RC-20A)	50	
		LINE B	1	V	---	1 SUPPORT 100%	TWO	ATOP PZR.	(6-2RC-20B)	100	
		STEAM SURGE	12	V	SUPPORTS LOOP B - 10"	3 SUPPORTS 100%	ONE	CUBICLE B	(10-2RC-4)	25	
					2-ISI-31	4 SUPPORTS 100%	TWO	CUBICLE B	(10-2RC-4)	58	
						5 SUPPORTS 100%	THREE	CUBICLE B	(10-2RC-4)	100	
		REACTOR CORE COOLANT	4	V	SUPPORTS LOOP A	1 SUPPORT 100%	THREE	SANDPLUG	(27.5-2RC-3A)	75	ADDED 2 RESTRAINTS IN 1981 OUTAGE
					2-ISI-32	1 SUPPORT 100%	TWO	CUBICLE A	(31-2RC-2A)	25	
						1 SUPPORT 100%	THREE	CUBICLE A	(31-2RC-2A)	50	
		REACTOR CORE COOLANT	4	V	SUPPORTS LOOP B	1 SUPPORT 100%	ONE	CUBICLE B	(31-2RC-2B)	25	ADDED 2 RESTRAINTS IN 1981 OUTAGE
					2-ISI-33	1 SUPPORT 100%	THREE	SANDPLUG	(27.5-2RC-3B)	75	
						1 SUPPORT 100%	THREE	CUBICLE B	(31-2RC-2B)	50	

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TEN YEAR INTERVAL INSPECTION SUMMARY

MAJOR ITEM: REACTOR CORE COOLANT PUMPS

SUB ITEM	EXAM. DATE-CATEGORY	COMPONENT OR SYSTEM, AND DESCRIPTION OF ITEM TO BE EXAMINED	TOTAL NO. PER ITEM	NDE METHODS	IDENTIFICATION	EXAMINATION AMOUNT AND EXTENT	INSPECTION PERIOD	LOCATION OR SYSTEM NUMBER	RUNNING PERCENT	REMARKS
B5.1 AND B5.3	B-C-1	REACTOR CORE COOLANT PUMPS PRESSURE-RETAINING BOLTS AND STUDS, IN PLACE ( $\Sigma$ 2 IN. DIA.) FLANGE BOLTS PUMP A PUMP B SEAL HOUSE BOLTING	(2) 24 24 12 12	V-U.T. V-U.T. V-U.T. V-U.T.	4.5" DIA. X 30" 2-ISI-44 4.5" DIA. X 30" 2-ISI-44 2" DIA. X 8" 2-ISI-43 2" DIA. X 8" 2-ISI-43	100% 8 BOLTS (1 THRU 8) 8 BOLTS (9 THRU 16) 8 BOLTS (17 THRU 24) 8 BOLTS (1 THRU 8) 8 BOLTS (9 THRU 16) ITEM 5.2 4 BOLTS (1 THRU 4) 4 BOLTS (5 THRU 8) 4 BOLTS (9 THRU 12) 4 BOLTS (1 THRU 4) 4 BOLTS (5 THRU 8) ITEM B5.2	ONE TWO THREE ONE TWO THREE ONE TWO THREE ONE TWO THREE	CUBICLE A, LOOP A CUBICLE B, LOOP B CUBICLE A, LOOP A CUBICLE B, LOOP B	33 66 100 33 66 --- 33 66 100 33 66 ---	RELIEF NO. 48
B5.2 AND B5.3	B-C-1	PRESSURE-RETAINING BOLTS AND STUDS, WHEN REMOVED ( $\Sigma$ 2 IN. DIA.) PUMP B FLANGE BOLTING PUMP B SEAL HOUSE BOLTING PUMP A SEAL HOUSE BOLTING	24 12 12	S-U.T. V S-U.T. V	ITEM B5.1 ITEM B5.1 2" DIA X 8" 2-151-43	24 BOLTS (100%) 12 BOLTS (100%) 12 BOLTS (100%)	THREE THREE TWO	CUBICLE B, LOOP B CUBICLE B, LOOP B CUBICLE A, LOOP A	100% 100% 100%	RELIEF NO. 48

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TEN YEAR INTERVAL INSPECTION SUMMARY

MAJOR ITEM: REACTOR CORE COOLANT PUMPS

SUB ITEM	EXAM. CATE-GORY	COMPONENT OR SYSTEM, AND DESCRIPTION OF ITEM TO BE EXAMINED	TOTAL NO. PER ITEM	NDE METHODS	IDENTIFICATION	EXAMINATION AMOUNT AND EXTENT	INSPEC-TION PERIOD	LOCATION OR SYSTEM NUMBER	RUNNING PERCENT	REMARKS
B5.4	B-K-1	<u>INTEGRALLY WELDED SUPPORTS</u>  PUMP A	(6) 3	S-U. T. (REMARKS)	SUPPORT A (45°) SUPPORT B (180°) SUPPORT C (315°)	-NONE- 3 SUPPORTS 100% 1 SUPPORT 100%	---	DISCHARGE NOZZLE AT 0°  PUMP A PUMP A (PT EXAM ONLY) PUMP A	--- 100 100	RELIEF NO. 47
		PUMP B	3	S-U. T. (REMARKS)	SUPPORT A (45°) SUPPORT B (180°) SUPPORT C (315°)	-NONE- 3 SUPPORTS 100% 1 SUPPORT 100%	THREE	PUMP B (PT EXAM ONLY) PUMP B	--- 100	RELIEF NO. 47
B5.5	B-K-2	<u>SUPPORT COMPONENTS</u>  PUMP A COLUMN AND LATERAL SUPPORTS  PUMP B COLUMN AND LATERAL SUPPORTS	3	V	SUPPORT A (45°) SUPPORT B (180°) SUPPORT C (315°)	1 (LAT. & COL.) SUPPORTS SUPPORTS	CVE TWO THREE	PUMP A  PUMP A 100% 100% 100%	33 66 100	EACH PUMP SUPPORT CONSISTS OF A LATERAL AND COLUMN COMPONENT AND EACH SUPPORT INSPECTION SHALL INCLUDE BOTH COMPONENTS --
B5.6	B-L-1	<u>PUMP CASING WELDS</u>  PUMP A  PUMP B	NONE NONE	---	MFG ESCO S/N 510  MFG ESCO S/N 515	---	---	---	---	RELIEF NO. 63  RELIEF NO. 63

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TABLE 1.1

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TEN YEAR INTERVAL INSPECTION SUMMARY

CLASS 2 SYSTEMS

MAJOR ITEM: PRESSURE VESSELS - STEAM GENERATORS

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM, AND DESCRIPTION OF ITEM TO BE EXAMINED	NDE METHODS	TOTAL ITEMS	ACCES- SIBLE ITEMS	40 YR. EXAM	10 YR. EXAM	INSPECTION PERIOD (10 YR.)	(40 YEAR) PERCENT	LOCATION	REMARKS
C1.1	C-A	<u>CIRCUMFERENTIAL BUTT WELDS</u>									
		STEAM GENERATOR NO. 21 (MULTIPLE STREAMS)	UT	5	5	2	1	-	-	CONTAINMENT	2-ISI-37
		STEAM GENERATOR NO. 22	UT	5	5	3	1	-	-	CONTAINMENT	2-ISI-37
		NO. 21 WELD B T=3.25" L=2'	UT			20%	20%	TWO	20%	TUBESHEET TO SHELL	EXAMINATION OF EACH CIRCUMFERENTIAL WELD WILL INCLUDE THREE AREAS THAT ARE DISTRIBUTED AROUND THE VESSEL AS UNIFORMLY AS POSSIBLE
		NO. 21 WELD F T=3.68-3.62 L=46'	UT			20%	-	-	20%	TRANSITION TO SHELL	
		NO. 22 WELD C T=3.25-2.82 L=35'	UT			20%	-	-	20%	SHELL TO SHELL	
		NO. 22 WELD E T=2.82-3.68" L=35'	UT			20%	-	-	20%	SHELL TO TRANSITION	
		NO. 22 WELD H T=3.62 L=46'	UT			20%	20%	THREE	20%	SHELL TO HEAD	
C1.2	C-B	<u>NOZZLE-TO-VESSEL WELDS</u>									
		STEAM GENERATOR NO. 21 (MULTIPLE STREAMS)	UT	2	2	1	-	-	-	CONTAINMENT	2-ISI-37
		STEAM GENERATOR NO. 22	UT	2	2	1	1	-	-	CONTAINMENT	2-ISI-37
		NO. 21 M.S. NOZZLE (32")	UT			-	-	-	-	EL. 795'	
		NO. 21 F.W. NOZZLE (16")	UT			1	-	-	100%	EL. 771'	
		NO. 22 M.S. NOZZLE (32")	UT			1	1	THREE	100%	EL. 795'	
C1.3	C-D	NO. 22 F.W. NOZZLE (16")	UT			-	-	-	-	EL. 771'	
C1.3	C-C	<u>INTEGRALLY WELDED SUPPORTS</u>	-	NONE	-	-	-	-	-		
C1.4	C-D	<u>PRESSURE RETAINING BOLTS</u>							10 YEAR PERCENT		RELIEF NO. 48
		STEAM GENERATOR NO. 21 (MULTIPLE STREAMS)	V&UT	40	40	-	20	-	-	CONTAINMENT	2-ISI-37
		STEAM GENERATOR NO. 22	V&UT	40	40	-	20	-	-	CONTAINMENT	2-ISI-37
		NO. 21 MANWAY A	V&UT			-	20	TWO	100%	UPPER SHELL	UT WILL BE PER- FORMED AS A MIN- IMUM ON 10% OF THE BOLTS ON EACH JOINT.
		NO. 21 MANWAY B	V&UT			-	-	-	-	UPPER SHELL	
		NO. 22 MANWAY A	V&UT			-	-	-	-	UPPER SHELL	
		NO. 22 MANWAY B	V&UT			-	20	THREE	100%	UPPER SHELL	

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CLASS 2 SYSTEMS

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MAJOR ITEM: PRESSURE VESSELS -ACCUMULATORS

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM, AND DESCRIPTION OF ITEM TO BE EXAMINED	NDE METHODS	TOTAL ITEMS	ACCES- IBLE ITEMS	40 YR. EXAM	10 YR. EXAM	IN SPECTION PERIOD (10 YR.)	(40 YEAR) PERCENT	LOCATION	REMARKS
C1.1	C-A	CIRCUMFERENTIAL BUTT WELDS									
		ACCUMULATOR NO. 21 (MULTIPLE STREAMS)	UT	4	4	2	1	-	-	CONTAINMENT	2-ISI-76
		ACCUMULATOR NO. 22	UT	4	4	2	-	-	-	CONTAINMENT	2-ISI-76
		NO. 21 WELD 2 T=2.75-1.39 L=31'	UT			20%	-	-	20%	SHELL TO HEAD	EXAMINATION OF EACH CIRCUMFERENTIAL
		NO. 21 WELD 6 T=1.39 L=16'	UT			20%	20%	THREE	20%	DOLLAR PLATE TO HEAD	WELD WILL INCLUDE THREE AREAS THAT ARE
		NO. 22 WELD 1 T=1.39 L=16'	UT			20%	-	-	20%	HEAD TO DOLLAR PLATE	DISTRIBUTED AROUND THE VESSEL AS
		NO. 22 WELD 5 T=2.75-1.39 L=31'	UT			20%	-	-	20%	HEAD TO SHELL	UNIFORMLY AS POSSIBLE
C1.2	C-B	NOZZLE TO VESSEL WELDS									
		ACCUMULATOR NO. 21 (MULTIPLE STREAMS)	UT	1	1	1	-	-	100%	EL. 705', 12-2SI-29A	2-ISI-76
		ACCUMULATOR NO. 22	UT	1	1	-	-	-	-	EL. 705', 12-2SI-29B	2-ISI-76
C1.3	C-C	INTEGRALLY WELDED SUPPORTS									
		ACCUMULATOR NO. 21 (MULTIPLE STREAMS)	S	1	1	-	-	-	-	CONTAINMENT, SKIRT WELD	2-ISI-76
		ACCUMULATOR NO. 22	S	1	1	1	-	-	100%	CONTAINMENT, SKIRT WELD	2-ISI-76
C1.4	C-D	PRESSURE RETAINING BOLTING							10 YEAR PERCENT		RELIEF NO. 48
		ACCUMULATOR NO. 21 (MULTIPLE STREAMS)	V&UT	24	24	-	-	-	-	CONTAINMENT, MANWAY BOLTS	2-ISI-76
		ACCUMULATOR NO. 22	V&UT	24	24	-	24	THREE	100%	CONTAINMENT, MANWAY BOLTS	2-ISI-76 UT WILL BE PERFORMED AS A MINIMUM ON 10% OF THE BOLTS ON EACH JOINT

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TEN YEAR INTERVAL INSPECTION SUMMARY

CLASS 2 SYSTEMS

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MAJOR ITEM: PRESSURE VESSELS - RHR HEAT EXCHANGERS

SUB ITEM	EXAM CATE-GORY	COMPONENT OR SYSTEM, AND DESCRIPTION OF ITEM TO BE EXAMINED	NDE METHODS	TOTAL ITEMS	ACCESSIBLE ITEMS	40 YR. EXAM	10 YR. EXAM	INSPECTION PERIOD (10 YR.)	(40 YEAR) PERCENT	LOCATION	REMARKS
CL.1	C-A	CIRCUMFERENTIAL BUTT WELDS RHR HEAT EXCHANGER NO. 21 (MULTIPLE STREAMS) RHR HEAT EXCHANGER NO. 22 NO. 21 WELD 1 T= 5' L= 75" NO. 22 WELD 2 T= 5" L= 75"	UT UT UT UT	2 2 2 2	2 2 2 2	1 1 20% 20%	- - - -	- - - -	- - 20% 20%	RHR PIT RHR PIT HEAD TO SHELL SHELL TO FLANGE	RELIEF 45 AND 56 2-ISI-69 2-ISI-69 EXAMINATION OF EACH CIRCUMFERENTIAL WELD WILL INCLUDE THREE AREAS THAT ARE DISTRIBUTED AROUND THE VESSEL AS UNIFORMLY AS POSSIBLE
CL.2	C-B	NOZZLE TO VESSEL WELDS RHR HEAT EXCHANGER NO. 21 (MULTIPLE STREAMS) RHR HEAT EXCHANGER NO. 22	UT UT	2 2	2 2	1 1	- -	- -	- -	RHR PIT RHR PIT	RELIEF NO. 45 and 56 2-ISI-69 2-ISI-69
CL.3	C-C	INTEGRALLY WELDED SUPPORTS RHR HEAT EXCHANGER NO. 21 (MULTIPLE STREAMS) RHR HEAT EXCHANGER NO. 22	UT UT UT UT	- - - -	- - - -	- - - -	- - - -	- - - -	100% 100%	EL. 666' INLET EL. 666' OUTLET EL. 666' INLET EL. 666' OUTLET	
CL.4	C-D	PRESSURE RETAINING BOLTING RHR HEAT EXCHANGER NO. 21 (MULTIPLE STREAMS) RHR HEAT EXCHANGER NO. 22	S S V&UT V&UT	2 2 28 28	2 2 28 28	1 1 - -	1 - - 28	THREE - - THREE	50% - 10 YEAR PERCENT 100%	RHR PIT RHR PIT RHR PIT, FLANG. BOLTS RHR PIT, FLANGE BOLTS	2-ISI-69 2-ISI-69 RELIEF NO. 48 2-ISI-69 2-ISI-69 UT WILL BE PERFORMED AS A MINIMUM ON 10% OF THE BOLTS ON EACH JOINT



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CLASS 2 SYSTEMS

TABLE 2.1.4

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MAJOR ITEM: PRESSURE VESSELS- BORIC ACID TANKS

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM, AND DESCRIPTION OF ITEM TO BE EXAMINED	NDE METHODS	TOTAL ITEMS	ACCES- SIBLE ITEMS	40 YR. EXAM	10 YR. EXAM	INSPECTION PERIOD (10 YR.)	(40 YEAR) PERCENT	LOCATION	REMARKS
C1.1	C-A	<u>CIRCUMFERENTIAL BUTT WELDS</u>									RELIEF 45 AND 56
		BORIC ACID TANK NO. 21	UT	2	2	2	-	-	-	AUX. BUILDING	2-ISI-68
		NO. 21 WELD 1 T=.312 L= 33'	UT			20%	-	-	20%	HEAD TO SHELL	EXAMINATION OF EACH CIRCUMFERENTIAL
		NO. 21 WELD 2 T=.312 L= 33'	UT			20%	-	-	20%	SHELL TO HEAD	WELD WILL INCLUDE THREE AREAS THAT ARE DISTRIBUTED AROUND THE VESSEL AS UNIFORMLY AS POSSIBLE.
C1.7	C-B	<u>NOZZLE TO VESSEL WELDS</u>									RELIEF 45 AND 56
		BORIC ACID TANK NO. 21	UT	1	1	1	-	-	100%	EL. 735', AUX BLDG	2-ISI-68
C1.3	C-C	<u>INTEGRALLY WELDED SUPPORTS</u>									
		BORIC ACID TANK NO. 21	S	4	4	4	1	THREE	100%	EL. 735', AUX BLDG	2-ISI-68
C1.4	C-D	<u>PRESSURE RETAINING BOLTING</u>									RELIEF NO. 48
		BORIC ACID TANK NO. 21	V&UT	16	16	-	16	THREE	10 YEAR PERCENT 100%	AUX BUILDING	2-ISI-68 UT WILL BE PERFORM- ED AS A MINIMUM ON 10% OF THE BOLTS ON EACH JOINT (WITH A MIN. OF 2)

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TABLE 2.2.1

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TEN YEAR INTERVAL INSPECTION SUMMARY

CLASS 2 SYSTEMS

MAJOR ITEM: PIPING - CIRCUMFERENTIAL BUTT WELDS

SUB ITEM	EXAM CATEGORY	COMPONENT OR SYSTEM, AND DESCRIPTION OF ITEM TO BE EXAMINED	NDE METHODS	TOTAL ITEMS	ACCESSIBLE ITEMS	40 YR. EXAM	10 YR. EXAM	INSPECTION PERIOD (10 YR.)	(40 YEAR) PERCENT	LOCATION	REMARKS
C2.1	C-G	CIRCUMFERENTIAL BUTT WELDS									
		MAIN STEAM A & B 32-2MS-1 32-2MS-2	UT UT	1 1	1 1	1 0	0 0	-- --	(100%) -	EL. 795' GENERATOR 21 EL. 795' GENERATOR 22	RELIEF NO. 46 RELIEF NO. 50 RELIEF NO. 56 2-1SI-46A(MULTIPLE 2-1SI-47A STREAMS)
		MAIN STEAM A & B 30-2MS-1 30-2MS-2	UT UT	10 9	10 4	3 2	2 1	TWO THREE TWO	(53%) -	EL. 795' TO EL. 726' EL. 795' TO EL. 726'	2-1SI-46A (MULTIPLE STREAMS) 2-1SI-47A
		MAIN STEAM A & B 31-2MS-1 31-2MS-2	UT UT	12 12	10 1	6 1	6 1	ONE(1) TWO(5) TWO	(58%) -	EL. 726' THRU PENET. 6C EL. 726' THRU PENET 6D	2-1SI-46A, 46B (MULTIPLE STREAMS) 2-1SI-47A, 47B
		MAIN STEAM A & B (R HDR) 30-2MS-1 30-2MS-2	UT UT	6 6	5 5	2 1	1 0	ONE -	(50%) -	EL. 735' RELIEF HDR. A EL. 759' RELIEF HDR B	2-1SI-46B(MULTIPLE 2-1SI-47B STREAMS)
		MAIN STEAM A & B 6-2MS-1 6-2MS-2	UT UT	6 6	5 5	1 2	0 1	- ONE	(50%) -	EL. 739' AUX. BLDG. EL. 759' AUX. BLDG.	2-1SI-46P(MULTIPLE 2-1SI-47B STREAMS) INCLUDES ONE 5 INCH JOINT ON EACH LINE
		FEEDWATER A & B 16-2FW-13* 16-2FW-12* 16-2FW-11* 16-2FW-16* 16-2FW-15**	UT UT UT UT UT	15 2 2 16 4	15 2 2 1 4	4 1 1 1 4	3 0 0 1 1	ONE(1) TWO(2) - TWO ONE	(57%) (32%) - (25%)	EL. 770' CONTAINMENT EL. 738' AUX. BLDG. EL. 738' AUX. BLDG. EL. 770' CONTAINMENT EL. 738' AUX BLDG.	2-1SI-48A(SAME LINE 2-1SI-48B (MULTIPLE STREAMS) 2-1SI-49A* SAME 2-1SI-49B LINE

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TEN YEAR INTERVAL INSPECTION SUMMARY

CLASS 2 SYSTEMS

TABLE 2.2.1

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MAJOR ITEM: PIPING- CIRCUMFERENTIAL BUTT WELDS

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM, AND DESCRIPTION OF ITEM TO BE EXAMINED	NDE METHODS	TOTAL ITEMS	ACCES- SIBLE ITEMS	40 YR. EXAM	10 YR. EXAM	INSPECTION PERIOD (10 YR.)	(40 YEAR) PERCENT	LOCATION	REMARKS
C2.1	C-G	CONTINUED									
		FEEDWATER A & B (8 IN.) 3-2AF-11 (8 IN.) 3-2AF-12	UT UT	2 2	2 2	1 0	0 0	- -	(50%) -	EL. 770' CONTAINMENT EL. 770' CONTAINMENT	2-ISI-48A (MULTIPLE) 2-ISI-49A (STREAMS)
		RHR PUMP SUCTION 10-2SI-9B 10-2SI-9A	UT UT	4 4	4 4	1 1	1 1	TWO TWO	(50%) -	RHR PIT 22 RHR PIT 21	2-ISI-50 (MULTIPLE) 2-ISI-52 (STREAMS)
		RHR PUMP DISCHARGE 8-2RH-7B 8-2RH-7A	UT UT	20 15	20 15	5 4	1 1	TWO THREE	(51%) -	RHR PIT 22 RHR PIT 21	2-ISI-54 (MULTIPLE) 2-ISI-56 (STREAMS)
		8-2RH-9B 8-2RH-9A	UT UT	22 19	22 19	6 5	2 2	TWO THREE TWO THREE	(54%) - - -	RHR PIT 22 RHR PIT 21	2-ISI-54 (MULTIPLE STREAMS) 2-ISI-56
		CONTAINMENT SUMP B DISCHARGE 12-2RH-6B 12-2RH-6A	UT UT	7 8	7 8	2 2	- 1	- THREE	(53%) -	CONT. SPRAY ROOM CONT. SPRAY ROOM	2-ISI-58 (MULTIPLE) 2-ISI-59 (STREAMS)
		14-2SI-33B 14-2SI-33A	UT UT	4 3	0 0	- -	- -	- -	- -	RELIEF NO. 50 ENCAPSULATED	2-ISI-58 (MULTIPLE) 2-ISI-59 (STREAMS)
		12-2SI-34B 12-2SI-34A	UT UT	2 2	1 1	1 1	1 1	TWO TWO	(100%) -	RELIEF NO. 50 ENCAPSULATED	2-ISI-58 (MULTIPLE) 2-ISI-59 (STREAMS)

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TEN YEAR INTERVAL INSPECTION SUMMARY

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CLASS 2 SYSTEMS

MAJOR ITEM: PIPING-CIRCUMFERENTIAL BUTT WELDS

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM, AND DESCRIPTION OF ITEM TO BE EXAMINED	NDE METHODS	TOTAL ITEMS	ACCES- SIBLE ITEMS	40 YR. EXAM	10 YR. EXAM	INSPECTION PERIOD (10 YR.)	(40 YEAR) PERCENT	LOCATION	REMARKS
C2.1	C-G	CONTINUED									
		SAFETY INJECTION PUMPS SUCTION 6-2SI-13A	UT	11	11	3	2	TWO THREE	(50%) -	AUX. BLDG.	2-1SI-60 (MULTIPLE STREAMS)
		6-2SI-13B	UT	9	9	2	1	TWO	-	AUX. BLDG.	2-1SI-60
		BORIC ACID SUPPLY TO SAFETY INJECTION 12-2SI-11	UT	9	9	5	1	THREE	(56%)	EL. 698' AUX. BLDG.	2-1SI-61 (SINGLE STREAM)
		8-2SI-17*	UT	1	1	1	-	-	(51%)	AUX. BLDG.	2-1SI-61 (SINGLE STREAM)
		8-2SI-18*	UT	52	52	26	5	TWO(1) THREE(4)	-		*SAME LINE
		SAFETY INJECTION PUMP SECTION 6-2RH-10B	UT	31	31	16	4	TWO(2) THREE(2)	(50%)	RHR PIT/AUX. BLDG.	2-1SI-62 (MULTIPLE STREAMS)
		6-2RH-10A	UT	31	31	15	6	TWO(5) THREE(1)	-	RHR PIT/AUX. BLDG.	2-1SI-64
		REFUELING WATER STORAGE TANK DISCHARGE 14-2SI-1	UT	10	10	5	1	THREE	(50%)	EL. 693' AUX. BLDG.	2-1SI-66 (SINGLE STREAM)
		12-2SI-3A	UT	3	3	2	1	TWO	(100%)	EL. 698' AUX. BLDG.	2-1SI-66(MULTIPLE
		12-2SI-3B	UT	3	3	1	-	-	-	EL. 698' AUX. BLDG.	2-1SI-66 STREAMS)
		12-2SI-4	UT	8	8	4	1	THREE	(50%)	AUX. BLDG./RHR PIT	2-1SI-66 (SINGLE STREAM)
		10-2SI-8	UT	12	12	6	4	TWO(3) THREE(1)	(50%)	RHR PIT	2-1SI-66 (SINGLE STREAM)
		12-2SI-11	UT	2	2	1	-	-	-	EL. 698' AUX. BLDG.	2-1SI-66 (SINGLE STREAM)

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TEN YEAR INTERVAL INSPECTION SUMMARY

CLASS 2 SYSTEMS

TABLE 2.2.1

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MAJOR ITEM: PIPING-CIRCUMFERENTIAL BUTT WELDS

SUB ITEM#	EXAM CATE- GORY	COMPONENT OR SYSTEM, AND DESCRIPTION OF ITEM TO BE EXAMINED	NDE METHODS	TOTAL ITEMS	ACCESS- IBLE ITEMS	40 YR. EXAM	10 YR. EXAM	INSPECTION PERIOD (10 YR.)	(40 YEARS) PERCENT	LOCATION	REMARKS
C2.1	C-G	CONTINUED									
		BORIC ACID SUPPLY 8-2SI-18* 8-VC-71**	UT UT	11 2	11 2	6 1	2 -	THREE -	(54%) -	EL. 736' AUX. BLDG.	2-1SI-74 (SINGLE STREAM) * SAME LINE
		ACCUMULATOR DISCHARGE 12-2SI-28A 12-2SI-28B	UT UT	2 3	2 3	2 -	- -	- -	(80%) -	EL. 698' CONT. EL. 698' CONT.	2-1SI-75(MULTIPLE 2-1SI-75 STREAMS)
		12-2SI-29A 12-2SI-29B	UT UT	3 4	3 4	1 1	- 1	- ONE	(57%) -	EL. 698' CONT. EL. 698' CONT.	2-1SI-75(MULTIPLE 2-1SI-75 STREAMS)
C2.1	C-F	RHR PUMP SUCTION 10-2RH-3	UT	23	23	23	0	ONE(2) TWO(2) THREE(2)	(100%) - -	CONT. CONT/AUX. BLDG CONT/AUX BLDG.	2-1SI-50 (SINGLE STREAM)
		8-2RH-4B 8-2RH-4A	UT UT	7 5	7 5	4 2	1 1	THREE TWO	(100%) -	RHR PIT RHR PIT	2-1SI-50(MULTIPLE 2-1SI-52 STREAMS)
		8-2RH-5B 8-2RH-5A	UT UT	3 2	3 2	2 1	1 1	TWO TWO	(120%) -	EL. 693' RHR PIT EL. 693' RHR PIT	2-1SI-50(MULTIPLE 2-1SI-52 STREAMS)
		12-2RH-5B 12-2RH-5A	UT UT	13 13	13 13	7 6	3 2	TWO(1) THREE(2) TWO THREE	(100%) - -	EL. 667' RHR PIT EL. 667' RHR PIT	2-1SI-50 (MULTIPLE STREAMS) 2-1SI-52
		RHR PUMP DISCHARGE 6-2SI-10B 6-2RH-12 10-2RH-11	UT UT UT	21 4 18	21 4 18	11 2 18	3 1 5	THREE TWO ONE(1) TWO(1) THREE(3)	(104%) - (100%) -	CONT SPRAY/CONT EL. 713' CONT CONT/SPRAY/CONT	2-1SI-54(MULTIPLE 2-1SI-56 STREAMS) 2-1SI-56 (SINGLE STREAM)



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CLASS 2 SYSTEMS

MAJOR ITEM: PIPING-CIRCUMFERENTIAL BUTT WELDS

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM, AND DESCRIPTION OF ITEM TO BE EXAMINED	NDE METHODS	TOTAL ITEMS	ACCES- SIBLE ITEMS	40 YR. EXAM	10 YR. EXAM	INSPECTION PERIOD (10 YR.)	(40 YEARS) PERCENT	LOCATION	REMARKS
C2.1	C-F	CONTINUED  REACTOR VESSEL SAFETY INJECTION 6-2SI-25B 6-2SI-25A	UT UT	6 17	6 17	3 9	1 3	ONE ONE TWO THREE	(100%) - -	EL. 714' EL 707' CONT CONT	2-ISI-70 (MULTIPLE 2-ISI-72 STREAMS)

NORTHERN STATES POWER CO.  
PRAIRIE ISLAND UNIT 2

TEN YEAR INTERVAL INSPECTION SUMMARY

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CLASS 2 SYSTEMS

MAJOR ITEM: PIPING-LONGITUDINAL WELD JOINTS  
IN FITTINGS

SUB ITEM	EXAM CAT GORY	WELD OR SYSTEM, DESCRIPTION OF ITEM TO BE EXAMINED	NDE METHODS	TOTAL ITEMS	ACCESS- IBLE ITEMS	40 YR. EXAM	10 YR. EXAM	INSPECTION PERIOD (0 YR.)	(40 YEAR) PERCENT	LOCATION	REMARKS
C2.2	C-G	LONGITUDINAL WELD JOINTS IN FITTINGS									
		MAIN STEAM A 32-2MS-1	UT	1	1	1	-	-	(100%)	EL 795' GENERATOR 21	RELIEF NO. 46 RELIEF NO. 56
		MAIN STEAM B 32-2MS-2	UT	1	1	-	-	-	-	EL 795' GENERATOR 22	2-ISI-46A (MULTIPLE STREAMS) 2-ISI-47A
		MAIN STEAM A 30-2MS-1	UT	4	4	1	1	TWO	(67%)	EL 795' & 726' CONTAINMENT	2-ISI-46A (MULTIPLE STREAMS)
		MAIN STEAM B 30-2MS-2	UT	2	1	1	-	-	-	EL 795' & 726' CONTAINMENT	2-ISI-47A
		MAIN STEAM A 31-2MS-1	UT	4	3	-	1	ONE	(50%)	EL 726' CONT. & AUX. BLDG.	2-ISI-46A & 46B (MULTIPLE STREAMS)
		MAIN STEAM B 31-2MS-2	UT	4	0	-	-	-	-	EL 726' CONT & AUX. BLDG	2-ISI-47A & 47B
		MAIN STEAM A RELIEF HDR. 30-2MS-1	UT	1	1	-	-	-	(100%)	EL 739' AUX. BLDG.	2-ISI-46B (MULTIPLE STREAMS)
		MAIN STEAM B RELIEF HDR. 30-2MS-2	UT	1	1	1	-	-	-	EL 759' AUX. BLDG.	2-ISI-47B
		RHR PUMP SUCTION 10-2SI-98	UT	1	1	1	-	-	(100%)	EL 678' RHR PIT	2-ISI-50(MULTIPLE STREAMS)
		10-2SI-9A	UT	1	1	-	-	-	-	EL 678' RHR PIT	2-ISI-52 STREAMS)

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CLASS 2 SYSTEMS

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PIPING-LONGITUDINAL WELD JOINTS

MAJOR ITEM: IN FITTINGS

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM, AND DESCRIPTION OF ITEM TO BE EXAMINED	NDE METHODS	TOTAL ITEMS	ACCES- SIBLE ITEMS	40 YR. EXAM	10 YR. EXAM	INSPECTION PERIOD (10 YR.)	(40 YEAR) PERCENT	LOCATION		REMARKS
C2.2	C-G	CONTINUED										
		RHR PUMP DISCHARGE										
		8-2RH-7B	UT	7	7	2	-	-	(55%)	EL 666'	RHR PIT	2-ISI-54 (MULTIPLE
		8-2RH-7A	UT	4	4	1	1	THREE	-	EL 666'	RHR PIT	2-ISI-56 STREAMS)
		8-2RH-9B	UT	10	10	3	1	THREE	(56%)	EL 676'	RHR PIT	2-ISI-54 (MULTIPLE
		8-2RH-9A	UT	8	8	2	-	-	-	EL 676'	RHR PIT	2-ISI-56 STREAMS)
		CONTAINMENT SUMP B DISCHARGE										
		12-2RH-6B	UT	3	3	1	-	-	(67%)	EL 680'	CONT SPRAY	2-ISI-58 (MULTIPLE
		12-2RH-6A	UT	3	3	1	1	THREE	-	EL 679'	CONT SPRAY	2-ISI-59 STREAMS)
		SAFETY INJECTION PUMPS SUCTION										
		6-2SI-13A	UT	3	3	1	1	THREE	(80%)	EL 703'	AUX. BLDG.	2-ISI-60
		6-2SI-13B	UT	2	2	1	-	-	-	EL 703'	AUX. BLDG	(MULTIPLE STREAMS)
		BORIC ACID SUPPLY TO SAFETY INJECTION										
		12-2SI-11	UT	3	3	2	-	-	(67%)	EL 703'	AUX. BLDG	2-ISI-61 (SINGLE STREAM)
		8-2SI-18	UT	22	22	11	3	THREE	(50%)	AUX BLDG		2-ISI-61 (SINGLE STREAM)
		REFUELING WATER STORAGE TANK DISCHARGE										
		14-2SI-1	UT	5	5	3	-	-	(60%)	EL 692'	AUX BLDG	2-ISI-66 (SINGLE STREAM)
		12-2SI-3A	UT	1	1	1	-	-	(50%)	EL 698'	AUX BLDG	2-ISI-66
		12-2SI-3B	UT	1	1	-	-	-	-	EL 698'	AUX BLDG	(MULTIPLE STREAMS)

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SUB ITEM	EXAM GATE-GURY	COMPONENT OR SYSTEM, AND DESCRIPTION OF ITEM TO BE EXAMINED	NDE METHODS	TOTAL ITEMS	ACCESSIBLE ITEMS	40 YR. EXAM	10 YR. EXAM	INSPECTION PERIOD (10 YR.)	(40 YEAR) PERCENT	LOCATION	REMARKS
C2.2	C-G	CONTINUED									
		12-2SI-4	UT	4	4	2	1	THREE	(50%)	EL 692' AUX BLDG	2-ISI-66 (SINGLE STREAM)
		10-2SI-8	UT	3	3	2	-	-	(67%)	EL 678' RHR PIT	2-ISI-66 (SINGLE STREAM)
		12-2SI-11	UT	1	1	1	-	-	(100%)	EL 698' AUX BLDG	2-ISI-66 (SINGLE STREAM)
C2.2	C-F	BORIC ACID SUPPLY 8-2SI-18* 8-2VC-71C*	UT UT	5 1	5 1	3 -	1 -	THREE -	(50%) -	EL 736' AUX BLDG EL 736' AUX BLDG	2-ISI-74 (SINGLE STREAM) * SAME LINE
		RHR PUMP SUCTION 10-2RH-3	UT	8	8	8	2	THREE	(100%)	CONT/CONT SPRAY	2-ISI-50 (SINGLE STREAM)
		8-2RH-4B 8-2RH-4A	UT UT	2 1	2 1	1 1	-	-	(133%) -	RHR PIT RHR PIT	2-ISI-50(MULTIPLE 2-ISI-52 STRFAMS)
		8-2RH-5B 8-2RH-5A	UT UT	1 1	1 1	1 -	-	-	(100%) -	EL 673' RHR PIT EL 673' RHR PIT	2-ISI-50(MULTIPLE 2-ISI-52 STREAMS)
		12-2RH-5B 12-2RH-5A	UT UT	5 5	5 5	3 2	1 -	THREE -	(100%) -	EL 667' RHR PIT EL 667' RHR PIT	2-ISI-50(MULTIPLE 2-ISI-52 STREAMS)
		RHR PUMP DISCHARGE 6-2SI-10B 6-2RH-12	UT UT	6 1	6 1	3 1	- -	- -	(114%) -	CONT SPRAY/CONT EL 713' CONT	2-ISI-54(MULTIPLE 2-ISI-56 STREAMS)
		10-2RH-11	UT	6	6	6	2	THREE	(100%)	CONT SPRAY/CONT	2-ISI-56 (SINGLE STREAM)

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TEN YEAR INTERVAL INSPECTION SUMMARY

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CLASS 2 SYSTEMS

MAJOR ITEM: PIPING-BRANCH PIPE TO PIPE WELD JOINTS

SUB ITEM	EXAM CATE-GORY	COMPONENT OR SYSTEM, AND DESCRIPTION OF ITEM TO BE EXAMINED	NDE METHODS	TOTAL ITEMS	ACCESSIBLE ITEMS	40 YR. EXAM	10 YR. EXAM	INSPECTION PERIOD (10 YR.)	(40 YR.) PERCENT	LOCATION	REMARKS
C2.3	C-G	BRANCH PIPE TO PIPE WELD JOINTS (SWEEPOLETS)									RELIEF NO. 46 RELIEF NO. 36
		MAIN STEAM A RELIEF HDR. 30-2MS-1	U.T.	8	6	2	1	ONE	(57%)	EL739' AUX. BLDG.	2-1S1-45B (MULTIPLE STREAMS)
		MAIN STEAM B RELIEF HDR. 30-2MS-2	U.T.	6	4	2	0	----	----	EL759' AUX. BLDG.	2-1S1-47B
		FEEDWATER A 16-2FW-13	U.T.	1	1	1	0	----	(100%)	EL770' 3-2AF-11 CONTAINMENT	2-1S1-48A (MULTIPLE STREAMS)
		FEEDWATER B 16-2FW-16	U.T.	1	1	0	0	----	----	EL770' 3-2AF-12 CONTAINMENT	2-1S1-49A



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MAJOR ITEM: PIPING-PRESSURE RETAINING BOLTING

CLASS 2 SYSTEMS

SUB ITEM	EXAM CATEGORY	COMPONENT OR SYSTEM, AND DESCRIPTION OF ITEM TO BE EXAMINED	NDE METHODS	TOTAL ITEMS	ACCESSIBLE ITEMS	40 YR. EXAM	10 YR. EXAM	INSPECTION PERIOD (10 YR.)	40 YEAR PERCENT	LOCATION	REMARKS
C2.4	C-D	PRESSURE RETAINING BOLTING							10 YEAR PERCENT		RELIEF 48
		RHR PUMP SUCTION 12-2RH-5B 12-2RH-5A	V, UT V, UT	2Flanges 2Flanges	2Flange 2Flange	- -	1 -	THREE -	50% -	EL 666' @ W-149 & 151 EL 666' @ W-115 & 117 20-1 1/2" BOLTS/FLANGE	2-1SI-50(MULTIPLE 2-1SI-52 STREAMS)
		RHR PUMP DISCHARGE 10-2RH-11	U, VT	1Flange	1Flange	-	1	THREE	100%	EL 710' @ W-172	2-1SI-56 (SINGLE STREAM) UT WILL BE PER- FORMED AS A MINIMUM ON 10% OF THE BOLTS ON EACH JOINT

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CLASS 2 SYSTEMS

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MAJOR ITEM: PIPING- INTEGRALLY WELDED SUPPORTS

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM, AND DESCRIPTION OF ITEM TO BE EXAMINED	NDE METHODS	TOTAL ITEMS	ACCES- IBLE ITEMS	40 YR. EXAM	10 YR. EXAM	INSPECTION PERIOD (10 YR.)	(40 YEAR) PERCENT	LOCATION	REMARKS
C2.5	C-E-1	<u>INTEGRALLY WELDED SUPPORTS</u>							10 YEAR PERCENT		
		MAIN STEAM A & B									
		30-2MS-1	S	9	9	-	5	TWO(3)	(105%)	CONTAINMENT	2-ISI-46A
								THREE(2)	-		(MULTIPLE STREAMS)
		30-2MS-2	S	10	10	-	5	ONE(1)	-	CONTAINMENT	2-ISI-47A
								TWO(2)	-		
								THREE(2)	-		
		MAIN STEAM A & B									
		31-2MS-1	S	5	5	-	4	ONE(3)	(120%)	AUX BLDG	2-ISI-46B
								TWO(1)	-		(MULTIPLE STREAMS)
		31-2MS-2	S	5	5	-	2	THREE(2)	-	AUX BLDG	2-ISI-47B
		MAIN STEAM A & B									
		RELIEF HEADERS									
		30-2MS-1	S	1	1	-	1	THREE	(100%)	AUX BLDG	2-ISI-46B (MULTIPLE
		30-2MS-2	S	1	1	-	-	-	-	AUX BLDG	2-ISI-47B STREAMS)
		MAIN STEAM A & B									
		6-2MS-1	S	1	1	-	-	-	(100%)	AUX BLDG	2-ISI-46B(MULTIPLE
		6-2MS-2	S	1	1	-	1	ONE	-	AUX BLDG	2-ISI-47B STREAMS)
		FEEDWATER A & B									
		16-2FW-13*	S	9	9	-	5	ONE(1)	(105%)	CONT/AUX BLDG	2-ISI-48A
		16-2FW-12*	S	1	1	-	-	TWO(2)	-		*SAME LINE
		16-2FW-11*	S	1	1	-	1	THREE(3)	-		2-ISI-48B(MULTIPLE
		16-2FW-16	S	8**	0**	-	4	ONE(2)	-	CONT/AUX BLDG	2-ISI-49A STREAMS)
								TWO(1)	-		**ENCAPSULATED
								THREE(1)	-		RELIEF NO. 50
		RHR PUMP SUCTION									
		10-2RH-3	S	3	3	-	3	ONE	(100%)	CONT/CONT SPRAY	2-ISI-50
								TWO	-		(SINGLE STREAM)
								THREE	-		

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MAJOR ITEM: PIPING-INTEGRALLY WELDED SUPPORTS

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM, AND DESCRIPTION OF ITEM TO BE EXAMINED	NOTE METHODS	TOTAL ITEMS	ACCESS- IBLE ITEMS	40 YR. EXAM	10 YR. EXAM	INSPECTION PERIOD (10 YR.)	(40 YEAR) PERCENT	LOCATION	REMARKS
C2.5	C-E-1	CONTINUED							10 YEAR PERCENT		
		8-2RH-4B	S	2	2	-	1	TWO	(133%)	RHR PIT	2-ISI-50(MULTIPLE
		8-2RH-4A	S	1	1	-	1	TWO	-	RHR PIT	2-ISI-52 STREAMS)
		12-2RH-5B	S	1	1	-	1	THREE	(100%)	EL 666'	2-ISI-50(MULTIPLE
		12-2RH-5A	S	1	1	-	-	-	-	EL 666'	2-ISI-52 STREAMS)
		RHR PUMP DISCHARGE									
		8-2RH-7A	S	1	1	-	1	THREE	(100%)	EL 667'	2-ISI-57 (SINGLE STREAM)
		8-2RH-9B	S	1	1	-	1	THREE	(100%)	EL 680'	2-ISI-55 (SINGLE STREAM)
		6-2SI-10B	S	3	3	-	3	THREE	(100%)	CONT SPRAY	2-ISI-55 (SINGLE STREAM)
		10-2RH-11	S	4	4	-	4	ONE(1) THREE(3)	(100%)	CONT SPRAY	2-ISI-57 (SINGLE STREAM)
		CONTAINMENT SUMP B DISCHARGE									
		14-2SI-33B	S	3	3	-	-	-	-	EL 695' COIT	RELIEF NO. 50
		14-2SI-33A	S	3	3	-	-	-	-	EL 695' COIT	2-ISI-58(MULTIPLE 2-ISI-59 STREAMS)
		BORIC ACID SUPPLY TO SAFETY INJECTION									
		12-2SI-11	S	1	1	-	1	THREE	(100%)	EL 698'	2-ISI-61 (SINGLE STREAM)
		8-2SI-18	S	5	5	-	2	THREE	(40%)	EL 707'	2-ISI-61 (SINGLE STREAM)
		SAFETY INJECTION PUMP SUCTION									
		6-2RH-10B	S	3	3	-	2	TWO	(100%)	CONT SPRAY	2-ISI-63
		6-2RH-10A	S	5	5	-	2	THREE ONE	-	CONT SPRAY/AUX BLDG	(MULTIPLE STREAMS) 2-ISI-65

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CLASS 2 SYSTEMS

MAJOR ITEM: PIPING-INTEGRALLY WELDED SUPPORTS

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM, AND DESCRIPTION OF ITEM TO BE EXAMINED	NDE METHODS	TOTAL ITEMS	ACCES- SIBLE ITEMS	40 YR. EXAM	10 YR. EXAM	INSPECTION PERIOD (10 YR.)	(40 YEAR) PERCENT	LOCATION	REMARKS
C2.5	C-E-1	CONTINUED							10 YEAR PERCENT		
		REFUELING WATER STORAGE TANK DISCHARGE 12-2SI-4	S	1	1	-	1	TWO	(100%)	RHR PIT	2-ISI-67 (SINGLE STREAM)
		REACTOR VESSEL SAFETY INJECTION 6-2SI-25B 6-2SI-25A	S S	2 5	2 5	- -	1 3	ONE ONE TWO THREE	(110%) - - -	EL 714' EL 707' CONT CONT	2-ISI-71(MULTIPLE 2-ISI-73 STREAMS)

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CLASS 2 SYSTEMS

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MAJOR ITEM: PIPING-NON-WELDED SUPPORTS

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM, AND DESCRIPTION OF ITEM TO BE EXAMINED	NDE METHODS	TOTAL ITEMS	ACCES- IBLE ITEMS	40 YR. EXAM	10 YR. EXAM	INSPECTION PERIOD (10 YR.)	(40 YEAR) PERCENT	LOCATION	REMARKS
C2.6	C-E-2	SUPPORT COMPONENTS							10 YEAR PERCENT		RELIEF 52
		MAIN STEAM A & B									
		30-2MS-1	V	2	2	-	1	TWO	(133%)	EL 760' CONT	2-ISI-46A (MULTIPLE
		30-2MS-2	V	1	1	-	1	THREE	-	EL 750' CONT	2-ISI-47A STREAMS)
		31-2MS-1	V	2	2	-	1	THREE	(100%)	EL 726 CONT	2-ISI-46A(MULTIPLE
		31-2MS-2	V	2	2	-	1	THREE	-	EL 726' CONT	2-ISI-47A STREAMS)
		30-2MS-1(HDR)	V	2	2	-	1	ONE	(133%)	EL 726' AUX BLDG	2-ISI-46B(MULTIPLE
		30-2MS-2(HDR)	V	1	1	-	1	TWO	-	EL 750' CONT	2-ISI-47B STREAMS)
		FEEDWATER A									
		16-2FW-13	V	2	2	-	2	TWO THREE	(100%) -	EL 751' CONT	2-ISI-48A (SINGLE STREAM)
		RHR PUMP SUCTION									
		10-2RH-3	V	6	6	-	6	ONE(2) TWO(1) THREE(3)	(100%) - -	CONT/CONT SPRAY	2-ISI-51 (SINGLE STREAM)
		8-2RH-4B	V	2	2	-	1	THREE	(133%)	RHR PIT	2-ISI-51 (MULTIPLE
		8-2RH-4A	V	1	1	-	1	TWO	-	RHR PIT	2-ISI-53 STREAMS)
		12-2RH-5B	V	2	2	-	1	THREE	(50%)	RHR PIT	2-ISI-51 (MULTIPLE
		12-2RH-5A	V	2	2	-	1	THREE	-	RHR PIT	2-ISI-53 STREAMS)
		RHR PUMP DISCHARGE									
		8-2RH-7B	V	2	2	-	1	THREE	(133%)	EL 667' RHR PIT	2-ISI-55(MULTIPLE
		8-2RH-7A	V	1	1	-	1	THREE	-	EL 667' RHR PIT	2-ISI-57 STREAMS)
		8-2RH-9B	V	4	4	-	2	THREE	(133%)	RHR PIT	2-ISI-55(MULTIPLE
		8-2RH-9A	V	3	3	-	2	THREE	-	RHR PIT	2-ISI-57 STREAMS)
		6-2SI-10B	V	3	3	-	1	THREE	(100%)	CONT SPRAY	2-ISI-55(MULTIPLE
		6-2SI-12	V	1	1	-	1	ONE	-	CONT	2-ISI-57 STREAMS)
		10-2RH-11	V	3	3	-	2	THREE	(67%)	EL 710' CONT SPRAY	2-ISI-57 SINGLE STREAM)

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CLASS 2 SYSTEMS

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MAJOR ITEM: PIPING-NON-WELDED SUPPORT

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM, AND DESCRIPTION OF ITEM TO BE EXAMINED	NDE METHODS	TOTAL ITEMS	ACCES- SIBLE ITEMS	40 YR. EXAM	10 YR. EXAM	INSPECTION PERIOD (10 YR.)	(40 YEAR) PERCENT	LOCATION	REMARKS
C2.6	C-E-2	CONTINUED							10 YEAR PERCENT		
		CONTAINMENT SUMP B DISCHARGE LINES									
		12-2RH-6B	V	2	2	-	1	THREE	(100%)	EL 695'	2-ISI-58(MULTIPLE
		12-2RH-6A	V	2	2	-	1	THREE	-	EL 695'	2-ISI-59 STREAMS)
		SAFETY INJECTION PUMP SUCTION									
		6-2SI-13A	V	1	1	-	1	ONE	(100%)	EL 703'	2-ISI-60
		6-2SI-13B	V	1	1	-	-	-	-	EL 703'	(MULTIPLE STREAMS)
		BORIC ACID SUPPLY TO SAFETY INJECTION									
		8-2SI-18	V	10	10	-	5	THREE	(50%)	AUX BLDG	2-ISI-61 (SINGLE STREAM)
		SAFETY INJECTION PUMP SUCTION									
		6-2RH-10B	V	2	2	-	1	TWO	100%	EL 688'	2-ISI-63(MULTIPLE
		6-2RH-10A	V	2	2	-	1	TWO	-	EL 593'	2-ISI-65 STREAMS)
		REFUELING WATER STORAGE TANK DISCHARGE									
		14-2SI-1	V	1	1	-	-	-	-	EL 693'	2-ISI-67 (SINGLE STREAM)

12-2SI-4

10-2SI-8

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CLASS 2 SYSTEMS

MAJOR ITEM: PIPING-NON WELDED SUPPORTS

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM, AND DESCRIPTION OF ITEM TO BE EXAMINED	NDE METHODS	TOTAL ITEMS	ACCES- SIBLE ITEMS	40 YR. EXAM	10 YR. EXAM	INSPECTION PERIOD (10 YR.)	(40 YEAR) PERCENT	LOCATION	REMARKS
C2.6	C-E-2	CONTINUED							10 YEAR PERCENT		
		REACTOR VESSEL SAFETY INJECTION 6-2SI-25B	V	1	1	-	1	TWO	100%	EL 716' CONT	2-ISI-71 (MULTIPLE 2-ISI-73 STREAMS)
		6-2SI-25A	V	3	3	-	1	ONE	-	EL 707' CONT	
		ACCUMULATOR DISCHARGE 12-2SI-28A*	V	1	1	-	1	ONE	(133%)	EL 698' CONT	2-ISI-75 *SAME LINE (MULTIPLE STREAMS)
		12-2SI-29A*	V	1	1	-	-	-	-		
		12-2SI-28B	V	1	1	-	1	THREE	-	EL 699' CONT	

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CLASS 2 SYSTEMS

MAJOR ITEM: PUMPS

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM, AND DESCRIPTION OF ITEM TO BE EXAMINED	NDE METHODS	TOTAL ITEMS	ACCES- IBLE ITEMS	40 YR. EXAM	10 YR. EXAM	INSPECTION PERIOD (10 YR.)	(40 YEAR) PERCENT	LOCATION	REMARKS
C3.1	C-G	PUMP CASING WELDS									
		SAFETY INJECTION PUMPS									
		CASING TO FLANGE WELD ON DISCHARGE									
		#21 PUMP	UT	1	1	-	-	-	(50%)	EL 693' AUX BLDG	2-ISI-60 (MULTIPLE STREAMS)
		#22 PUMP	UT	1	1	1	-	-	-		
		C. SING TO FLANGE WELD ON SUCTION									
		#21 PUMP	UT	1	1	1	-	-	(50%)	EL 693' AUX BLDG	2-ISI-60 (MULTIPLE STREAM)
		#22 PUMP	UT	1	1	-	-	-	-		
C3.2	C-D	PRESSURE RETAINING BOLTING									RELIEF NO. 48 UT WILL BE PERFORM- ED ON A MINIMUM ON 10% OF THE BOLTS IN EACH JOINT ( AND NOT LESS THAN 2)
		RHR PUMPS									
		#22 PUMP	V,UT	24	24	-	-	-	(100%)	EL 666' RHR PIT	2-ISI-50 (MULTIPLE 2-ISI-52 STREAM)
		#21 PUMP	V,UT	24	24	-	24	THREE	-		
		SAFETY INJECTION PUMPS									
		#21 DISCH FLANGE BOLTS	V,UT	8	8	-	8	THREE	(100%)	EL 693' AUX BLDG	2-ISI-60 (MULTIPLE STREAMS)
		#22 DISCH FLANGE BOLTS	V,UT	8	8	-	-	-	-		
		#21 DRIVE END COVER BOLTS	V,UT	16	16	-	-	-	(100%)	EL 693' AUX BLDG	2-ISI-60 (MULTIPLE STREAMS)
		#22 DRIVE END COVER BOLTS	V,UT	16	16	-	16	THREE	-		
		#21 OUTBOARD END COVER BOLTS	V,UT	16	16	-	16	THREE	(100%)	EL 693' AUX BLDG	2-ISI-60
		#22 OUTBOARD EN COVER BOLTS	V,UT	16	16	-	-	-	-		(MULTIPLE STREAMS)

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NORTHERN STATES POWER CO.  
PRAIRIE ISLAND UNIT 2

TEN YEAR INTERVAL INSPECTION SUMMARY

TABLE 2.3  
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CLASS 2 SYSTEMS

MAJOR ITEM: PUMPS

SUB ITEM	EXAM CATEGORY	COMPONENT OR SYSTEM, AND DESCRIPTION OF ITEM TO BE EXAMINED	NDE METHODS	TOTAL ITEMS	ACCESSIBLE ITEMS	40 YR. EXAM	10 YR. EXAM	INSPECTION PERIOD (10 YR.)	(40 YEAR) PERCENT	LOCATION	REMARKS
C3.3	C-E-1	<u>INTEGRALLY WELDED SUPPORTS</u>									
		RHR PUMPS									
		#21 PUMP	S	1	1	-	1	THREE	(100%)	EL 666'	2-ISI-51(MULTIPLE
		#22 PUMP	S	1	1	-	-	-	-	RHR PIT	2-ISI-53 STREAMS)
C3.4	C-E-2	<u>SAFETY INJECTION PUMP</u>									
		#21 PUMP	S	6	6	-	3	THREE	(100%)	EL 693'	2-ISI-60
		#22 PUMP	S	6	6	-	3	THREE	-	AUX BLDG	(MULTIPLE STREAMS)
		<u>SUPPORT COMPONENTS</u>									
		RHR PUMPS									
		#21 PUMP	V	2	2	-	1	THREE	(100%)	EL 666'	2-ISI-51(MULTIPLE
		#22 PUMP	V	2	2	-	1	THREE	-	RHR PIT	2-ISI-53 STREAMS)

NORTHERN STATES POWER CO.  
PRAIRIE ISLAND UNIT 2

TEN YEAR INTERVAL INSPECTION SUMMARY

CLASS 2 SYSTEMS

TABLE 2.4

PAGE 1 OF 1

MAJOR ITEM: VALVES

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM, AND DESCRIPTION OF ITEM TO BE EXAMINED	NDE METHODS	TOTAL ITEMS	ACCES- IBLE ITEMS	40 YR. EXAM	10 YR. EXAM	INSPECTION PERIOD (10 YR.)	(40 YEAR) PERCENT	LOCATION	REMARKS
C4.1	C-F & C-G	VALVE BODY WELDS	UT	NONE	--	--	--	--	--	--	--
C4.2	C-D	PRESSURE RETAINING BOLTING							10 YEAR PERCENT		RELIEF NO. 48
		MAIN STEAM A & B									
		31-2MS-1	V,UT	1 Valve	1 Valve	--	1 Valve	TWO	(100%)	EL 726' CV-31116	2-ISI-46B(MULTIPLE
		31-2MS-2	V,UT	1 Valve	1 Valve	--	--	--	-	EL 738' CV-31117	2-ISI-47B STREAMS)
											26-1 7/8"-Ø- BOLTS
		30-2MS-1	V,UT	5 Valves	5 Valves	--	2 Valves	ONE	(100%)	EL 789' RS-21-11,-12,	2-ISI-46B
								TWO	-	-13,-14 &-15	(MULTIPLE STREAMS)
		30-2MS-2	V,UT	5 Valves	5 Valves	--	3 Valves	TWO(1)	-	EL 759' RS-21-16,-17,	2-ISI-47B
								THREE(2)	-	-18,-19, &-20	12-1 3/8"-Ø-BOLTS
		RHR DISCHARGE									
		6-2RH-10B	V,UT	1 Valve	1 Valve	--	1 Valve	ONE	(100%)	EL 713' 2-8803B	2-ISI-54 (MULTIPLE
		6-2RH-12	V,UT	1 Valve	1 Valve	--	--	--	--	EL 712' 2-8803A	2-ISI-56 STREAMS)
											12 BOLTS
		ACCUMULATOR DISCHARGE									
		12-2SI-29A	V,UT	1 Valve	1 Valve	--	1 Valve	THREE	(100%)	EL 698' 2-8800A	2-ISI-75
		12-2SI-29B	V,UT	1 Valve	1 Valve	--	--	--	--	EL 698' 2-8800B	(MULTIPLE STREAMS)
											16-1 7/8"-Ø-BOLTS
											WILL BE PERFORM-
											ED AS A MINIMUM ON
											10% OF THE BOLTS
											(WITH A MINIMUM OF
											2)
C4.3	C-E-1	INTEGRALLY WELDED SUPPORTS	S	NONE	--	--	--	--	--	--	(UNDER 2.5)
C4.4	C-E-2	SUPPORT COMPONENTS	V	NONE	--	--	--	--	--	--	(UNDER 2.6)

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ASME Section XI Pressure Testing Program - Unit No. 2

ASME Code Edition and Addenda: 1974 Edition through and including Summer 1975 Addenda

Program Period: April 21, 1978 through December 21, 1984

The system Code Class boundaries are established on the attached ASME Code Classification Drawings, Sheets 2 through 40. The Pressure Test Program for the Class 1, 2 and 3 systems is as follows:

ASME CODE CLASS	TEST TYPE	TEST FREQUENCY	TEST SPECIFICATION	REQUEST FOR RELIEF
1	Leakage	Refueling	IWB-5210(a) IWB-5221 IWA-5000	#20, #60,
	Hydrostatic	10 years	IWB-5210(b) IWB-5222 IWA-5000	#20
2	Pressure	3 1/3 years	IWC-2412 IWC-2510 IWC-5000	#19, #20, #29
2	Hydrostatic	10 years	IWC-2412 IWC-2510 IWC-5210	#19, #20, #29
3	Pressure	10 years	IWD-2410(b)	#20, #28

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## ASME CODE VALVES

SYSTEM	FLOW DIAGRAM	VALVE NO.	CLASS DWG	DESCRIPTION	VLV CAT	TEST PROC	TEST TYPE	TEST FREQ	REQUEST FOR RELIEF
MS	NF-39219	CV-31117	37	22 LOOP B MN STM HDR ISOL	B	SP-2099	E	CS	
MS	NF-39219	CV-31116	37	21 LOOP A MN STM HDR ISOL	B	SP-2099	E	CS	
MS	NF-39219	MV-32265	37	22 TD AFWP MN STM SUPPLY	B	SP-2102	E	M	
MS	NF-39219	RS-21-11	37	SAFETY VLV STM GEN 21	C	SP-2049	SP	5Y	
MS	NF-39219	RS-21-12	37	SAFETY VLV STM GEN 21	C	SP-2049	SP	5Y	
MS	NF-39219	RS-21-13	37	SAFETY VLV STM GEN 21	C	SP-2049	SP	5Y	
MS	NF-39217	RS-21-14	37	SAFETY VALVE STM GEN 21	C	SP-2049	SP	5Y	
MS	NF-39219	RS-21-15	37	SAFETY VALVE STM GEN 21	C	SP-2049	SP	5Y	
MS	NF-39219	RS-21-16	37	SAFETY VALVE STM GEN 22	C	SP-2049	SP	5Y	
MS	NF-39219	RS-21-17	37	SAFETY VALVE STM GEN 22	C	SP-2049	SP	5Y	
MS	NF-39219	RS-21-17	37	SAFETY VALVE STM GEN 22	C	SP-2049	SP	5Y	
MS	NF-39219	RS-21-18	37	SAFETY VALVE STM GEN 22	C	SP-2049	SP	5Y	
MS	NF-39219	RS-21-19	37	SAFETY VALVE STM GEN 22	C	SP-2049	SP	5Y	
MS	NF-39219	RS-21-20	37	SAFETY VALVE STM GEN 22	C	SP-2049	SP	5Y	
MS	NF-39219	2MS-15-1	37	22 STM GEN TO 22 AUX FW PUMP CHECK	C	SP-2103	E	R	#5
MS	NF-39219	2MS-15-2	37	21 STM GEN TO 22 AUX FW PUMP CHECK	C	SP-2103	E	R	#5

## ASME CODE VALVES

[illegible]

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## 19. REQUEST FOR RELIEF

PAGE OF

COMPONENT	FUNCTION	ASME	
		Code Class	Vlv Cat
ALL CLASS 2 COMPONENTS	PRESSURE RETAINING	2	-

CODE REQUIREMENT

The system pressure tests will not be conducted as required by the 1974 Edition through and including the Summer 1975 Addenda of the ASME XI Code.

BASIS

The 1974 Edition Summer 1975 Addenda does not address examination frequency or pressure requirements for Class 2 systems.

ALTERNATE INSPECTION (TESTING)

All components will be pressure tested in accordance with 1977 Edition through and including the Summer 1978 Addenda of the ASME Section XI Code with exceptions as listed below.

EXCEPTIONS

1. The examination method for the IWC-5221 & IWC-5222 Test will be in accordance with the 1974 Ed through 1975 Summer Addenda.
2. For those Class 2 systems which are in continuous operation and where no function test is performed the in service operation pressure shall be the test pressure.

SCHEDULE FOR IMPLEMENTATION

January 1, 1982

## 29. REQUEST FOR RELIEF

COMPONENT	FUNCTION	ASME	
		Code Class	Vlv Cat
Safety Injection Piping unisolable from Class 1 piping (Sheet 33)	Pressure Retaining	2	-
Reactor Coolant System Piping 3/4" & smaller that is unisolable from Class 1 Piping (Sheet 30)	Pressure Retaining	2	-
Residual Heat Removal System piping unisolable from Class 1 Piping (Sheet 33)	Pressure Retaining	2	-
RCP Seal Injection piping 3/4" & smaller that is unisolable from Class 1 Piping (Sheet 31)	Pressure Retaining	2	-
RCP Seal Return piping unisolable from Class 1 (Sheet 31)	Pressure Retaining	2	-
Charging Line piping unisolable from Class 1 (Sheet 31)	Pressure Retaining	2	-
Sample System piping unisolable from Class 1 (Sheet 30)	Pressure Retaining	2	-

### CODE REQUIREMENT

Portions of the Class 2 piping will not be tested at the pressures required by IWC-5000.

### BASIS

The piping is not isolable from the Class 1 piping.

### ALTERNATE INSPECTION (TESTING)

The piping will be tested to the Class 1 requirements, i. e.:

1. The unisolated portions of the Class 2 piping will be visually examined for evidence of leakage at the system nominal operating pressure in accordance with the requirements of IWB-5221. The inspection will be performed prior to startup following each reactor refueling outage.
2. The unisolated portions of the Class 2 piping will be hydrostatically tested when the Class 1 piping is tested.

### SCHEDULE FOR IMPLEMENTATION

January 1, 1982

2.5-26

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39. REQUEST FOR RELIEF

COMPONENT	FUNCTION	ASME	
		CODE CLASS	VLV CAT
2VC-8-6      22 RCP Seal Line Check	Close to isolate failure in seal injection line.	1	C
2VC-8-7      21 RCP Seal Line Check	Close to isolate failure in seal injection line.	1	C

CODE REQUIREMENT

The valves will not be exercised at cold shutdown as required by IWV-3520(b).

BASIS

Installation of the valve is such that it cannot be adequately exercised during normal plant operation. Isolation of the valve for exercising requires removal of the RCP seal injection line from service.

ALTERNATE INSPECTION ( TESTING)

The valves will be exercised during refueling outages when plant conditions are more appropriate for a test of this type.

SCHEDULE FOR IMPLEMENTATION

Refueling outage subsequent to April 21, 1978.

45. REQUEST FOR RELIEF

COMPONENT OR ITEM	CODE CLASS	PROGRAM TABLE	CODE ITEM	EXAM CATEGORY
REGENERATIVE HEAT EXCHANGERS	1	1.3.2	B3.1	B-B
EXCESS LETDOWN HEAT EXCHANGER	1	1.3.3	B3.1	B-B
RHR HEAT EXCHANGERS	2	2.1.3	Cl.1	C-A
			Cl.2	C-B
BORIC ACID TANKS	2	2.1.4	Cl.1	C-A
			Cl.2	C-B

CODE REQUIREMENT

Ultrasonic examinations shall be conducted in accordance with Appendix I of Section XI or the provisions of Article 5 of Section V.

BASIS

The design requirements for these heat exchangers and tanks resulted in relatively thin wall vessels which permitted them to be fabricated from piping components or thin plate. Therefore, the ultrasonic examination procedure for pipe welds would be more applicable than these for heavy wall vessels.

ALTERNATE

The ultrasonic examination procedures will comply with Appendix III of the 1974 Edition through the Summer 1976 Addenda of ASME Section XI.

SCHEDULE FOR IMPLEMENTATION

April 21, 1978

2.5-37

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## 46. REQUEST FOR RELIEF

COMPONENT OR ITEM	CODE CLASS	PROGRAM TABLE	CODE ITEM	EXAM CATEGORY
SAFE END TO PIPING	1	1.4	B4.1	B-F
CIRCUMFERENTIAL AND LONGITUDINAL PIPEWELDS	1	1.4	B4.5	B-J
BRANCH PIPE WELDS	1	1.4	B4.6	B-J
INTEGRALLY WELDED SUPPORTS	1	1.4	B4.9	B-K-1
CIRCUMFERENTIAL BUTT WELDS	2	2.2.1	C2.1	C-F/C-G
LONGITUDINAL WELD JOINTS IN FITTINGS	2	2.2.2	C2.2	C-F/C-G
BRANCH PIPE TO PIPE WELD JOINTS	2	2.2.3	C2.3	C-G

CODE REQUIREMENTS

Ultrasonic examinations shall be conducted in accordance with Appendix I of Section XI or the provisions of Article 5 of Section V.

BASIS

Appendix I of Section XI is not applicable to most of these piping welds due to the size and material limitations of Appendix I. And the use of side drilled holes to establish a distance amplitude correction curve, as required by Article 5 of Section V, results in an instrument gain setting which greatly impairs the examiner's ability to detect and to interpret indications by producing a much lower signal-to-noise ratio and decreases the usable DAC range.

ALTERNATE

The rules of Appendix III, including Supplement 7, of the 1974 Edition through the Summer 1976 Addenda of ASME Section XI will be used for the ultrasonic examination of piping welds and welds in components fabricated from pipe. The evaluation of indications will comply with the rules of the Summer 1975 Addenda of Section XI.

SCHEDULE FOR IMPLEMENTATION

April 21, 1978

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47. REQUEST FOR RELIEF

COMPONENT OR ITEM	CODE CLASS	PROGRAM TABLE	CODE ITEM	EXAM CATEGORY
REACTOR COOLANT PUMP INTEGRALLY WELDED SUPPORTS	1	1.5	B5.4	B-K-1

CODE REQUIREMENT

Perform volumetric examination of the integrally welded support attachments.

BASIS

Present ultrasonic examination methods would be ineffective because of the weld joint geometry and the heavy wall, austenitic stainless steel cast structure of the pump body and lugs.

ALTERNATE

If a proven volumetric examination technique is developed an attempt will be made to examine these welded supports. However, if a volumetric examination technique is not developed, a surface examination will be performed on the weld to the extent possible.

SCHEDULE FOR IMPLEMENTATION

April 21, 1978

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## 48. REQUEST FOR RELIEF

COMPONENT OR ITEM	CODE CLASS	PROGRAM TABLE	CODE ITEM	EXAM CATEGORY
REACTOR COOLANT PUMPS FLANGE AND SEAL HOUSE BOLTING	1	1.5	B5.1	B-G-1
STEAM GENERATOR MANWAY BOLTS	2	2.1.1	B5.2	B-G-1
ACCUMULATOR MANWAY BOLTS	2	2.1.2	C1.4	C-D
RHR HEAT EXCHANGER FLANGE BOLTING	2	2.1.3	C1.4	C-D
BORIC ACID TANK MANWAY BOLTS	2	2.1.4	C1.4	C-D
PIPING PRESSURE RETAINING BOLTS	2	2.2.4	C2.4	C-D
PUMP PRESSURE RETAINING BOLTS	2	2.3	C3.2	C-D
VALVE PRESSURE RETAINING BOLTS	2	2.4	C4.2	C-D

CODE REQUIREMENTS

Ultrasonic examinations shall be performed in accordance with Article 5 of Section V when the provisions of Appendix I of Section XI do not apply. Section V requires that calibration be established on a test bar that has certain physical and chemical parameters.

BASIS

The Section V technique utilizing the calibration test bar was not used for the baseline examinations and it is not as sensitive to detect discontinuities as the presently applied back reflection method. In addition, when using the back reflection method, the poorer the end reflecting surfaces (painted, corroded, etc.) the more conservative the examinations are.

ALTERNATE

The items will be examined using the back reflection method correlated with an as built sketch of the particular bolt or stud being examined. ASME Section XI will be used for evaluation criteria.

SCHEDULE FOR IMPLEMENTATION

April 21, 1978



## 52. REQUEST FOR RELIEF

COMPONENT OR ITEM	CODE CLASS	PROGRAM TABLE	CODE ITEM	EXAM CATEGORY
NON-WELDED SUPPORT COMPONENTS	1	1.4	B4.10	B-K-2
	2	2.2,6	C2.6	C-E-2
	3	-	--	IWD-2600 (c)

CODE REQUIREMENT

Examination Category B-K-2 and C-E-2 of ASME Section XI requires all areas of the support component from the piping, valve, and pump attachment to and including the attachment to the supporting structure be examined.

BASIS

Insulation will not be removed for visual examination provided that all mechanical connections and welds can be examined. It has been our experience that any loss of support capability or inadequate restraint can usually be detected through the inspection of the uninsulated portion of the support and the surrounding insulation. The governing Codes and Regulations used in the design and construction of those systems that are now classified as Class 2 and 3 did not require provisions for inspection access for these systems. Thus, it would be an undue burden without compensating increase in safety to require insulation removal for support inspection.

ALTERNATIVE

The insulation will be removed from a supported component for further inspections whenever the connections and welds can not be examined or an abnormality is detected that may have been a result of a loss of support capability or inadequate restraint.

SCHEDULE FOR IMPLEMENTATION

April 21, 1978

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## 56. REQUEST FOR RELIEF

COMPONENT OR ITEM	CODE CLASS	PROGRAM TABLE	CODE ITEM	EXAM CATEGORY
SAFE END TO PIPING	1	1.4	B4.1	B-F
CIRCUMFERENTIAL AND LONGITUDINAL PIPE WELDS	1	1.4	B4.5	B-J
CIRUMFERENTIAL BUTT WELDS	2	2.2.1	C2.1	C-F/C-G
LONGITUDINAL WELD JOINTS IN FITTINGS	2	2.2.2	C2.2	C-F/C-G
BRANCH PIPE TO PIPE WELDS	2	2.2.3	C2.3	C-G
RHR HEAT EXCHANGERS	2	2.1.3	Cl.1	C-A
			Cl.2	C-B
BORIC ACID TANKS	2	2.1.4	Cl.1	C-A
			Cl.2	C-B

CODE REQUIREMENT

When using Appendix III of ASME Section XI Summer 1976 Addenda, the basic calibration blocks shall be made from material of the same nominal diameter as those to be examined.

BASIS

A flat basic calibration block may be used in lieu of a block essentially the same curvature for components greater than 20 inches in diameter. Any difference in accuracy and sensitivity for ultrasonic examination when using a flat basic calibration block verses a curved basic calibration blocks, for components greater than 20 inches in diameter is within the accuracy of the test. NSP believes that compliance with Appedix III requirements for basic calibration block curvature would be an undue burden with no increase in public safety.

ALTERNATIVE

For surface curvature, the rules of Article 5 of Section V, 1974 Edition through Summer 1975 Addenda, will apply for examination of pipe welds and welds in components fabricated from piping. In addition, the other requirements of Appendix III for basic calibration blocks will be met.

SCHEDULE FOR IMPLEMENTATION

April 21, 1978

2.5-48

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## 63. REQUEST FOR RELIEF

COMPONENT OR ITEM	CODE CLASS	PROGRAM TABLE	CODE ITEM	EXAM CATEGORY
REACTOR COOLANT PUMP CASING WELDS	1	1.5	B5.6	B-L-1

CODE REQUIREMENT

Volumetric examination of the pump casing weld at or near the end of the inspection interval.

BASIS

Present ultrasonic examination methods would be ineffective because of the heavy wall, austenitic stainless steel cast structure of the pump body.

ALTERNATE

If a proven volumetric examination technique (ultrasonic or radiography) is developed, an attempt will be made to examine this weld when **pump is disassembled near the end of the inspection interval**. If a volumetric inspection technique is not developed, a surface examination will be performed on the weld to the extent possible.

SCHEDULE FOR IMPLEMENTATION

September 30, 1981

2.5-58

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# 64. REQUEST FOR RELIEF

COMPONENT OR ITEM	CODE CLASS	PROGRAM TABLE	CODE ITEM	EXAM CATEGORY
REACTOR VESSEL SAFETY INJECTION NOZZLE TO VESSEL WELDS	1	1.1	B1.4	B-D

## CODE REQUIREMENT

The 1974 Edition through the summer 1975 Addenda of ASME Section XI requires a minimum and identified a maximum percentage of examinations that are to be completed by the expiration of each of the three inspection periods.

## BASIS

The Safety Injection nozzle to vessel welds (2) will not be examined in accordance with this schedule. The Westinghouse reactor vessel inspection tool will be used to perform these examinations, and to date, they have been unable to develop a reliable inspection head for these small injection nozzles. The inspection head is now designed to house contact ultrasonic transducers. This design will allow a very minimum variation in alignment between the core barrel and the vessel nozzle, and also in the cladding variation on the nozzle inside diameter.

## ALTERNATE

Both Safety Injection nozzle to vessel welds will be examined at the end of the ten year interval when the core barrel is removed.

## SCHEDULE FOR IMPLEMENTATION

September 30, 1981

### SECTION 3 PROPOSED TECHNICAL SPECIFICATION CHANGES

Proposed Technical Specification changes to require inservice inspection and testing for Unit No.1 and common components to conform to 10 CFR 50, Section 50.55a(g) were submitted in a License Amendment Request dated October 15, 1976. Proposed Technical Specification changes to require inservice inspection and testing for Unit No.2 components to conform to 10 CFR 50, Section 50.55a(g) were submitted in a License Amendment Request dated October 12, 1977.

The Technical Specification changes we have proposed are reproduced in this Section to assist in review of our inservice inspection and testing program.

Technical Specification changes related to the Section XI Inservice Testing portion of the program have not yet been approved by the Commission. Changes that still must be issued are indicated by sidelines.



#### 4.0 SURVEILLANCE REQUIREMENTS

Specific time intervals between tests may be adjusted plus or minus 25% to accommodate normal test schedules with the exception that, the intervals between tests scheduled for refueling shutdowns shall not exceed two years.

In addition to other specified testing, testing of ASME Code Class 1, Class 2, and Class 3 pumps and valves shall be performed in accordance with Section XI of the ASME Boiler and Pressure Vessel Code and applicable Addenda as required by 10 CFR 50, Section 50.55a(g), except where relief has been granted by the Commission pursuant to 10 CFR 50, Section 50.55a(g)(6)(i).

#### 4.1 OPERATIONAL SAFETY REVIEW

##### Applicability

Applies to items directly related to safety limits and limiting conditions for operation.

##### Objective

To specify the minimum frequency and type of surveillance to be applied to plant equipment and conditions.

##### Specification

- A. Calibration, testing, and checking of instrumentation channels and testing of logic channels shall be performed as specified in Table TS.4.1-1.
- B. Equipment tests shall be conducted as specified in Table TS.4.1-2A.
- C. Sampling tests shall be conducted as specified in Table TS.4.1-2B.
- D. Whenever the plant condition is such that a system or component is not required to be operable the surveillance testing associated with that system or component may be discontinued. The asterisked items Tables 4.1-1, 4.1-2A, and 4.1-2B are required at all times, however. Discontinued surveillance tests shall be resumed less than one test interval before establishing plant conditions requiring operability of the associated system or component, unless such testing is not practicable (i.e. nuclear power range calibration cannot be done prior to reaching power operation) in which case the testing will be resumed within 48 hours of attaining the plant condition which permits testing to be accomplished.

##### Basis

##### Channel Check

Failures such as blown instrument fuses, defective indicators, faulted amplifiers which result in "upscale" or "downscale" indication can be easily recognized by simple observation of the functioning of an instrument or system. Furthermore, such failures are, in many cases, revealed by alarm or annunciator action, and a check supplements this type of built-in surveillance.

Based on experience in operation of both conventional and nuclear plant systems, when the plant is in operation, the minimum checking frequencies set forth are deemed adequate for reactor and steam system instrumentation.

MINIMUM FREQUENCIES FOR EQUIPMENT TESTS

	<u>Test</u>	<u>Frequency</u>	<u>FSAR Section Reference</u>
1. Control Rod Assemblies	Rod drop times of full length rods	All rods during each refueling shutdown or following each removal of the reactor vessel head; affected rods following maintenance on or modification to the control rod drive system which could affect performance of those specific rods	7
1a. Reactor Trip Breakers	Open trip	Monthly	-
2. Control Rod Assemblies	Partial movement of all rods	Every 2 weeks	7
3. Pressurizer Safety Valves	Set point	Per ASME Code, Section XI, Inservice Testing Program	
4. Main Steam Safety Valves	Set point	Per ASME Code, Section XI, Inservice Testing Program	
5. Reactor Cavity	Water level	Prior to moving fuel assemblies or control rods and at least once every day while the cavity is flooded.	-
6. (Deleted)			
7. (Deleted)			
8. (Deleted)			
9. Primary System Leakage	Evaluate	Daily	4
10. (Deleted)			
11. Turbine stop valves, governor valves, and intercept valves. (Part of turbine overspeed protection.)	Functional	Monthly	10
12. (Deleted)			

NOTES:

\* See Specification 4.1.D.

## 4.2 INSERVICE INSPECTION REQUIREMENTS

### Applicability

Applies to in-service structural surveillance of the reactor coolant pressure boundary and other systems important to safety.

### Objective

To assure the continued integrity of the reactor coolant pressure boundary and other systems important to safety.

### Specification

#### A. Inspection Requirements

Inservice inspection of ASME Code Class 1, Class 2, and Class 3 components shall be performed in accordance with Section XI of the ASME Boiler and Pressure Vessel Code and applicable Addenda as required by 10 CFR 50, Section 50.55a(g), except where relief has been granted by the Commission pursuant to 10 CFR 50, Section 50.55a(g)(6)(i). The additional inspections listed in Table TS.4.2-1 shall also be performed as specified.

B. Corrective Measures

1. The source of any reactor coolant leakage detected by the examinations of 4.2.A above shall be located by the removal of insulation where necessary and the following corrective measures applied:
  - (a) Normally expected leakage from component parts (e.g., valve stems) shall be minimized by appropriate repairs and maintenance procedures. Where such leakage may reach the surface of ferritic components of the reactor coolant pressure boundary, the leakage shall be suitably channeled for collection and disposal.
  - (b) Leakage from through-wall flaws in the pressure-retaining membrane of a component shall be eliminated, either by corrective repairs or by component replacement. Such repairs shall conform to the requirements of Section XI of the ASME Code.
2. In the event boric acid residues are detected by the examinations specified above, insulation from ferritic steel components shall be removed to the extent necessary for examination of the component surfaces wetted by reactor coolant leakage to detect evidence of corrosion. The following corrective measures shall be applied:
  - (a) An evaluation of the effect of any corroded area upon the structural integrity of the component shall be performed in accordance with the provisions of Section XI of the ASME Code.
  - (b) Repairs of corroded areas, if necessary, shall be performed in accordance with the procedures of Section XI of the ASME Code.

3. The structural integrity of the primary system boundary shall be maintained at the level required by the original acceptance standards throughout the life of the plant. Any evidence as a result of the inspections required in 4.2.A that defects have initiated or grown, shall be investigated, including evaluation of comparable areas of the primary system. In the event further unacceptable structural defects are revealed, all remaining system components or piping in this category shall be examined to the extent specified in that examination category.

C. Records

Records and reports of inservice inspection of ASME Code Class 1, Class 2, and Class 3 components shall conform to Section XI of the ASME Boiler and Pressure Vessel Code and applicable Addenda as required by 10 CFR 50, Section 50.55a(g), except where relief has been granted by the Commission pursuant to 10 CFR 50, Section 50.55a(g)(6)(i).



Basis

The inservice inspection program for the Prairie Island plant conforms to the requirements of 10 CFR 50, Section 50.55a(g). Where practical the inspection of ASME Code Class 1, Class 2, and Class 3 components is performed in accordance with Section XI of the ASME Code. If a code required inspection is impractical for the Prairie Island facility, a request for a deviation from that requirement is submitted to the Commission in accordance with 10 CFR 50, Section 50.55a(g)(6)(i).

Deviations which are needed from the procedures prescribed in Section XI of the ASME Code and applicable Addenda will be reported to the Commission prior to the beginning of each 10 year inspection period if they are known to be required at that time. Deviations which are identified during the course of inspection will be reported quarterly throughout the inspection period.

SPECIAL INSERVICE INSPECTION REQUIREMENTS

<u>Component</u>	<u>Method of Examination</u>	<u>Extent and Frequency</u>
<u>REACTOR COOLANT PUMPS</u>		
1. Pump Flywheel	U.T.	An in-place ultrasonic volumetric examination of the areas of higher stress concentration at the bore and key way at approx. 3 year intervals, during the refueling or maintenance shutdown coinciding with the in-service inspection schedule as required by the ASME B & PV Code Section XI.
	P.T.	A surface examination of all exposed surfaces and complete ultrasonic volumetric examination at approx. 10 year intervals, during the plant shutdown coinciding with the in-service inspection schedule as required by the ASME B & PB Code Section XI. Removal of the flywheel is not required to perform these examinations.
	U.T.	

Notes:

1. The following definitions shall apply to the inspection methods employed in Tabel TS.4.2-1.
  - a. U.T. - Ultrasonic examination per paragraph IS 213.2.
  - b. P.T. - Liquid Penetrant examination per paragraph IS 212.2.