



PRAIRIE ISLAND NUCLEAR GENERATING PLANT

Red Wing, Minnesota

UNITS 1 AND 2



INSERVICE INSPECTION - EXAMINATION SUMMARY

PRAIRIE ISLAND NUCLEAR GENERATING PLANT - UNIT 1

December 4, 1983 to December 23, 1983

NORTHERN STATES POWER COMPANY
MINNEAPOLIS, MINNESOTA

Report Date:
March 15, 1984

Commercial Service Date:
December 16, 1973

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NORTHERN STATES POWER COMPANY
PRAIRIE ISLAND NUCLEAR GENERATING PLANT - UNIT 1

INSERVICE INSPECTION EXAMINATION SUMMARY
PRAIRIE ISLAND NUCLEAR GENERATING PLANT - UNIT 1
DECEMBER 4, 1983 THRU DECEMBER 23, 1983

REFUELING OUTAGE NO. 8
INSPECTION PERIOD 3

Report Date:
March 15, 1984

Prepared by: L.C. Dahlman

Commercial Service Date:
December 16, 1973

Reviewed by: Michael L. Anderson
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Materials & Special
Processes

INSERVICE INSPECTION - EXAMINATION SUMMARY
PRAIRIE ISLAND NUCLEAR GENERATING PLANT - UNIT I

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Inservice Inspection - Examination Summary Table:

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Eddy Current Results and Tube Sheet Maps

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INSERVICE INSPECTION - EXAMINATION SUMMARY
PRAIRIE ISLAND NUCLEAR GENERATING PLANT - UNIT 1
DECEMBER 4 TO DECEMBER 23, 1983

1.0 INTRODUCTION

This report is a summary of the examinations performed during the eighth inservice inspection at the Prairie Island Nuclear Generating Plant - Unit 1. This was the third inservice inspection conducted for inspection period three. The examinations were performed during the plant's eighth refueling outage from December 4 to December 23, 1983. Prairie Island - Unit 1 began commercial operation on December 16, 1973.

This report identifies the components examined, the examination methods used, the examination number, and summarizes the examination results of each of the following areas:

1. Balance of Plant
 - a) Pressure retaining components and supports of the reactor coolant and associated systems classified as ASME Class 1 and Class 2.
 - b) Seismic Bolting Program
2. Eddy Current Examination of Steam Generator Tubing.

2.0 INSPECTION SUMMARY

The evaluation of the results from the inservice examinations indicated that the integrity of the systems has been maintained. To assure continued integrity of the steam generators (S.G.), a total of 10 tubes in S.G. 11 and 8 tubes in S.G. 12 were mechanically plugged.

3.0 BALANCE OF PLANT

3.1 EXAMINATION PLAN

The examination plan focused on the pressure-retaining components and their supports of the reactor coolant and associated auxiliary systems classified as ASME Class 1, Class 2, and Seismic Bolting.

3.1 EXAMINATION PLAN con't.

The examination plan was based on the examination requirements of the ASME Boiler and Pressure Vessel Code Section XI, 1974 Edition through and including the Summer 1975 Addenda, and complied with Prairie Island's Technical Specification, Section TS 4.2. The Examination is in accordance with the program submitted to the United States Nuclear Regulatory Commission on February 1, 1978 titled, "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".

3.2 EXAMINATION METHODS

Ultrasonic examination methods and techniques were used to perform the volumetric examinations. The ultrasonic test systems consisted of an ultrasonic digital/analog tester and a two channel strip chart recorder. One channel of the recorder was calibrated to reflect ultrasonic screen height (amplitude) and the second channel was calibrated to indicate metal path (range) to the reflector. This approach to the examination gives a permanent record to the extent possible.

Liquid penetrant or magnetic particle examination methods were used to perform the surface examinations. The liquid penetrant examinations were performed using color contrast-solvent removable materials. Magnetic particle examinations were performed using either a yoke with dry powder or an A-C L-10 coil with fluorescent prepared bath.

All visual examinations were aided when necessary with artificial lighting and verified for adequacy with an 18% neutral gray card with a 1/32 inch black line.

3.3 EXAMINATION PROCEDURES

The ultrasonic examination procedure for pipe welds complied with the requirements of Appendix III of ASME Section XI that was issued in the Winter 1975 Addenda. All other examination procedures complied with the requirements of the 1974 Edition through and including the Summer 1975 Addenda of ASME Section XI. A listing of the procedures used for the examinations is shown in Table III of Appendix E.

3.4 EQUIPMENT AND MATERIALS

All equipment and expendable materials used in the examinations are listed either by serial number or type along with their respective calibration date or batch number in Table IV of Appendix E.

The ultrasonic calibration standards used in the examination are listed in Table II of Appendix E. These standards are owned and maintained by NSP at the plant site.

3.5 PERSONNEL

Northern States Power Company contracted Lambert, MacGill, Thomas, Inc. to perform the examinations. Hartford Steam Boiler Inspection and Insurance Company, representing ANI, provided the Authorized Inspection.

All personnel involved in the performance or evaluation of examinations are listed along with their title, organization and ASNT Level of Certification in Table I of Appendix E.

Certifications for examination personnel are maintained on file by Northern States Power Company.

3.6 EVALUATION

Any indications disclosed in the examinations were evaluated by the examiner at the time, in accordance with the rules of the procedure and ASME Section XI.

The ultrasonic examiner was aided in his evaluation by a calibration performed on a standard reference before each day's examination, checked before and after each individual examination and at intervals not exceeding four (4) hours. In addition, the ultrasonic data was recorded on strip charts which were made a part of the inspection report, and permitted further evaluation.

3.7 EXAMINATION REPORTS AND DOCUMENTATION

All examination reports and documentation are maintained on file by Northern States Power Company. Table 1 of Appendices A, B, C, and D identifies the examination report number(s) for each item examined. Many of the items identify more than one examination report because of the different types of examinations performed on the item.

3.7 EXAMINATION REPORTS AND DOCUMENTATION con't.

Table I of Appendix A, B, C, and D summarizes all the examinations performed to date and identifies the amount that will be examined in the future to complete the ten year examination requirements. For retrieval purposes, the prefix of the inspection report number corresponds with the year the inspection was performed. The examination report numbers for this outage are prefixed with "83C".

Table II of Appendix A, B, C, and D compares the baseline examination results with the results obtained during this examination. Table III of Appendix A, B, C, and D identifies the isometric drawings that were used for the examinations. The personnel, ultrasonic calibration blocks, procedures, equipment and materials that were used for the inspection are identified in the tables of Appendix E. Appendix H contains the Form NIS-1 titled, "Owner's Data Report for Inservice Inspections".

3.8 SUMMARY OF RESULTS

The following is a listing of all anomalies detected, with the exception of the steam generator eddy current tube examination which follows in Section 4.0.

<u>System</u>	<u>Item ID</u>	<u>Exam Method</u>	<u>Type & Number of Indications</u>
Reactor Coolant Loop A	Hanger A3 RCC-A-4S.E. RCC-A-14S.E.	VT PT PT	Loose Nut Linear & 2 Rounded 3 Linears
RTD Hot Leg	W-15/M13	PT	1 Linear
RTD Cold Leg	W-13/M21 Hanger E	PT VT	2 Linears Bent Plate
Reactor Coolant Pump 12	Seal House Bolts	MT	Linears
Steam Generator No. 11	Primary Manway Bolts	MT	Linears
Steam Generator No. 12	Primary Manway Bolts	MT	Linears
Main Steam A	Hanger A	MT	Linears
RHR Discharge B	Hanger P	PT	Surface Roughness
Feedwater A	FW-164	MT	3 Linears
Feedwater B	FW-216	MT	3 Linears

3.8 SUMMARY OF RESULTS con't.

Anomalies were corrected or accepted based on re-analysis or Code acceptance limitations. The bolts with MT indications were replaced; the welds with MT or PT indications were removed by light hand grinding and blending the surface smooth. The PT indications on RCC-A-4S.5. were accepted "as is" based on IWB-3514; and the MT indication on hanger MSH-11/A was accepted "as is" based on Code case N339. The hangers with the bent plate and loose nut were re-analysed for hanger operability and functions and found acceptable.

4.0 EXAMINATION OF THE STEAM GENERATOR TUBING

Multifrequency eddy current examinations of the tubing in steam generators No. 11 and No. 12 were performed during this outage. The program consisted of full length tube examinations including row 3 through the outer peripheral rows on S.G. No. 11 and S.G. No. 12. The remainder of the tubes in each generator were examined from the point of entry on the hot-leg side completely around the U-bend to the top support of the cold-leg. All examinations were conducted from the hot-leg (inlet) side of the generators.

Westinghouse, with technical support from Zetec Corporation, was contracted to perform and evaluate the data from the eddy current examinations. In addition, NSP contracted an SNT-TC-1A certified ET Level III to provide third party evaluation services. These examinations were performed using Westinghouse's multi-frequency eddy current test system. This system provides adequate analytical capabilities for determining tube integrity. The frequencies utilized for each examination were 400 KHz and 100 KHz in the differential mode, with 210 KHz and 100 KHz in the absolute mode.

The total number of tubes examined this outage is shown in Table I. A summary of the tubes exhibiting eddy current indications is shown in Table II and a cumulative listing is found in Appendices F and G for S.G. #11 and #12, respectively. Table III is a summary of those tubes which were mechanically plugged this outage. Table IV consists of the total numbers of tubes plugged in S.G. #11 and #12 to date with the location of these tubes being exhibited in Appendices F and G.

TABLE I

Eddy Current Examination Extent - Accessible Tubes				
Examination Extent	S/G 11		S/G 12	
	Amount	%	Amount	%
Full Length	3168	94.4	3199	94.5
Around U-Bend	188	5.6	186	5.5

TABLE II

Summary of Tubes With Eddy Current Indications		
% of Wall Thinning	S/G 11	S/G 12
< 20	38	23
20-29	61	22
30-39	27	2
40-49	11	1
> 50	1	2
Other (Squirrel)	0	4

TABLE III

Summary of Plugged Tubes - 1983 Outage				
Steam Generator	Tube		% of Wall	Indication Location
	R	C		
11	25	51	43	18.4" from T.E. - H.L.
	31	56	43	#3 A.V.B.
	39	56	41	#2 A.V.B.
	29	57	43	#2 A.V.B.
	38	57	48	#1 A.V.B.
	31	59	40	#4 A.V.B.
	42	60	45	#3 T.S.P. - C.L.
	37	76	49	#1 T.S.P. - C.L.
	32	79	54	#1 T.S.P. - C.L.
	25	85	43	#1 T.S.P. - C.L.
12	1	29	98	10.7" from T.E. - H.L.
	1	34	SQR	11.6" from T.E. - H.L.
	1	36	72	10.4" from T.E. - H.L.
	3	38	SQR	10.2" from T.E. - H.L.
	8	49	SQR	11.1" from T.E. - H.L.
	16	59	20	13.4" from T.E. - H.L.
	1	62	SQR	10.4" from T.E. - H.L.
	36	62	44	TOP OF TUBE SHEET. - H.L.

A.V.B. = ANTI-VIBRATION BAR
 T.E. = TUBE END
 T.S.P. = TUBE SUPPORT PLATE
 C.L. = COLD LEG
 H.L. = HOT LEG
 SQR. = UNQUANTIFIABLE INDICATION

TABLE IV

Total Tubes Plugged to Date			
S/G 11		S/G 12	
Amount	%	Amount	%
42	1.2	11	.3

APPENDIX A
ASME CLASS 1 - EXAMINATION

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT

1

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE Sl.1PAGE 1 OF 5MAJOR ITEM: REACTOR VESSELS

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
B1.1	B-A	<u>LONGITUDINAL AND CIRCUMFER- ENTIAL SHELL WELDS IN CORE REGION</u>					
		LONGITUDINAL WELDS	-	-	-	-NONE-	
		CIRCUMFERENTIAL WELDS	THREE	50%	-	WELD NO. 3	
B1.2	B-B	<u>LONGITUDINAL AND CIRCUMFER- ENTIAL 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>					
		LONGITUDINAL WELDS	-	-	-	-NONE-	
		MERIDIONAL WELDS	-	-	-	-NONE-	
		CIRCUMFERENTIAL WELDS	THREE	5% 5% 5%	-	WELD NO. 2 WELD NO. 4 WELD NO. 5	
B1.3	B-C	<u>VESSEL-TO-FLANGE AND HEAD-TO- FLANGE CIRCUMFERENTIAL WELDS</u>					
		VESSEL-TO-FLANGE	ONE	33%	33%	NO. 1, STUD HOLE 4 TO 14&23 TO 29	77-W RPV REPORT
			TWO	29%	29%	NO. 1, STUD HOLE 16 TO 7&32 TO 43	80A-W RPV REPORT
			THREE	38%	-		

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE SL.1PAGE 2 OF 5MAJOR ITEM: REACTOR VESSELS

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
B1.3	B-C	(CON'T) HEAD-TO-FLANGE	ONE TWO THREE	33% 100% 34%	33% 100% 34%	NO. 6, STUD HOLE 1 THRU 6 NO. 6, STUD HOLE 1 TO 48 NO. 6, STUD HOLE 32 TO 48 TO 1	77-W RPV REPORT & 77-136, 138, 139 80A-77, 79, 80 83C-113, 114, 115
B1.4	B-D	<u>PRIMARY NOZZLE-TO-VESSEL WELDS AND NOZZLE INSIDE RADIUS SECTION</u> REACTOR CORE COOLANT NOZZLES OUTLET NOZZLES INLET NOZZLES SAFETY INJECTION NOZZLES	ONE TWO THREE THREE THREE	1 1 2 1 1	1 1 - - -	RCC-A-1 RCC-B-1	77-W RPV REPORT 80A-W RPV REPORT
B1.5	B-E	<u>VESSEL PENETRATIONS INCLUDING CONTROL ROD DRIVE AND INSTRU- MENTATION PENETRATIONS</u> CONTROL ROD PENETRATIONS INSTRUMENTATION PENETRATION REACTOR VESSEL HEAD VENT	ONE TWO THREE ONE TWO THREE *-	3 3 4 3 3 3 1	*3 *3 *3 *3 *3 *3 *1	1-RC-36 TO RC-8-5	*EACH ITEM INSPECTED BY PLANT PERSONNEL DURING EACH REACTOR VESSEL LEAKAGE TEST

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 1

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE SI.1PAGE 3 OF 5MAJOR ITEM: REACTOR VESSELS

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
B1.6	B-F	<u>NOZZLE-TO-SAFE END WELDS</u>					
		REACTOR CORE COOLANT NOZZLES					
		OUTLET NOZZLES	ONE	1	1	RCC-A-1 S.E.	77-W RPV REPORT & 77- <u>I</u> 56
			TWO	1	1	RCC-B-1 S.E.	80A-W RPV REPORT 80A- <u>I</u> 21
		INLET NOZZLES	THREE	2	-	RCC-A-14 S.E. (PT ONLY) RCC B-14 S.E. (PT ONLY)	83C-009, 009R 83C-008
		REACTOR VESSEL SAFETY INJECTOIN NOZZLES NOZZLE A.S.E.	ONE	1	1	NO. 1	77-W RPV REPORT & 77- <u>I</u> 55
B1.8	B-G-1	NOZZLE B.S.E.	THREE	1	1	W1 S.E.	83C-007, 010
		<u>CLOSURE STUDS AND NUTS</u>	ONE	16	16	#1 THRU #16	77-W RPV REPORT & 77- <u>I</u> 34
			TWO THREE	16 16	16 16	#17 THRU #31! #32" THRU #48	80A-W RPV REPORT 82-038, 039, 055
B1.9	B-G-1	<u>LIGAMENTS BETWEEN THREADED STUD HOLES</u>	ONE	16	16	STUD HOLE #4 THRU #14 THRU #29	77-W RPV REPORT
			TWO	13	13	STUD HOLE #16 & #17 THRU #42	80A-W RPV REPORT
			THREE	19	-		

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 1

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S1.1PAGE 4 OF 5MAJOR ITEM: REACTOR VESSELS

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
B1.10	B-G-1	<u>CLOSURE WASHERS AND BUSHINGS</u>					
		WASHERS (PAIRS)	ONE TWO THREE	16 16 16	16 16 16	1 THRU 16 17 THRU 31 & 33 32 & 34 THRU 48	77-W RPV REPORT 80A-W RPV REPORT 82-053
		BUSHINGS	-	-	-	-NONE-	
B1.11	B-G-2	<u>PRESSURE RETAINING BOLTING</u>	ONE TWO THREE	3 3 3	9 9 3	ALL 9 HOLES ALL 9 HOLES CLAMP #37	77-W RPV REPORT 80A-W RPV REPORT 83C-116
B1.12	B-H	<u>INTEGRALLY WELDED VESSEL SUPPORTS</u>	THREE	2	-		
B1.13	B-I-1	<u>CLOSURE HEAD CLADDING</u>	ONE TWO THREE	2 2 2	2 2 2	HCP-1 & HCP-2 HCP-3 & HCP-4 HCP-5 & HCP-6	77-W RPV REPORT 80A-W RPV REPORT 83C-111
B1.14	B-I-1	<u>VESSEL CLADDING</u>	ONE TWO THREE	2 2 2	2 2	VCP@77 ⁰ , VCP@237 ⁰ VCP@67 ⁰ , VCP@247 ⁰	76-W INTERNALS RPT 79-W INTERNALS RPT
B1.15	B-N-1	<u>VESSEL INTERIOR</u>					
		UPPER INTERNALS AND LOWER INTERNALS	ONE TWO THREE	* * *	* * -	* * * REPRESENTATIVE REGIONS OF THOSE INTERIOR SURFACES AND INTERNALS MADE ACCESSIBLE BY THE REMOVAL OF COMPONENTS DURING NORMAL REFUELING OPERATIONS	76-W INTERNALS RPT 79-W INTERNALS RPT

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 1

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S1.1PAGE 5 OF 5MAJOR ITEM: REACTOR VESSELS

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
B1.16	B-N-2	<u>INTERIOR ATTACHMENTS AND CORE SUPPORT STRUCTURES</u>	-	-	-	-NOT APPLICABLE FOR PWR VESSELS-	
B1.17	B-N-3	<u>REMOVABLE CORE-SUPPORT STRUCTURES</u>	THREE	*-	-	* 100% OF THE VISUALLY ACCESSIBLE ATTACHMENT WELDS AND VISUALLY ACCESSIBLE SURFACES OF THE CORE SUPPORT STRUCTURE	
B1.18	B-O	<u>CONTROL ROD DRIVE HOUSINGS</u> PERIPHERAL CRD HOUSINGS	THREE	2	-		
B1.19	B-P	<u>EXEMPTED COMPONENTS</u>	-	*-	-	* ALL COMPONENTS EXEMPTED FROM VOLUMETRIC AND SURFACE EXAMI- NATION BY IWB-1200	* PERFORMED BY PLANT PERSONNEL IN ACCORD- ANCE WITH IWA-5000 DURING EACH SYSTEM LEAKAGE TEST AND EACH SYSTEM HYDRO- STATIC TEST REQUIRED BY IWB-5000

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 1

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE SI.2PAGE 1 OF 2MAJOR ITEM: PRESSURIZER

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
B2.1	B-B	<u>LONGITUDINAL AND CIRCUM- FERENTIAL WELDS</u>					
		LONGITUDINAL WELDS					
		WELD NO. 1	TWO	10%	38%	2' BOT. HD UP AND 2' LOW SHELL DOWN	78-093, 118, 122
		WELD NO. 2	THREE	10%	10%	W-5 DOWN 11" W-4 UP 30"	81-223, 232, 236 81-221, 230, 240
		CIRCUMFERENTIAL WELDS					
		WELD NO. 3	ONE TWO THREE	1.7% 1.7% 1.8%	33% 4.0% 10.6%	(CW) FROM NAMEPLATE: +6' TO -2' +8' TO +9' 14'7" TO 17'2"	76-49, 50, 51 7-110, 117, 124, 095 81-219, 223, 229
		WELD NO. 4	ONE TWO THREE	1.7% 1.7% 1.8%	33% 4.0% 20%	+6' TO -2' +8' TO +9' 15'9" TO 20'7"	77-118, 137, 140 78-109, 119, 123, 094 81-220, 231, 237
		WELD NO. 5	ONE TWO THREE	1.7% 1.7% 1.8%	33% 7.0% 19.3%	+6' TO -2' +5' TO +7' 14'6" TO 19'2"	76-46, 47, 48 78-108, 120, 121 81-222, 228, 235
B2.2	B-D	<u>NOZZLE TO VESSEL WELDS</u>	-	-	-	-NONE-	
B2.3	B-E	<u>HEATER PENETRATIONS</u>	*	21/10 YRS	*		*EACH ITEM INSPECTED BY PLANT PERSONNEL
B2.4	B-F	<u>NOZZLE TO SAFE END WELDS</u>					
		SAFETY LINE A	ONE	1	1	8010A-1 S.E.	76-3, 55
		SAFETY LINE B	ONE	1	1	8010B-1 S.E.	76-4, 58
		SURGE LINE	TWO	1	1	W-6 S.E.	78-084, 025
		SAFETY LINE A	TWO	1	1	8010A-1A S.E.	80A-20, 40
		SAFETY LINE B	TWO	1	1	8010B-1A S.E.	80A-21, 42
		RELIEF LINE	TWO	1	1	W-1A S.E.	80A-19, 39
			THREE	1	1	W-1	81-131, 205

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INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S1.2PAGE 2 OF 2MAJOR ITEM: PRESSURIZER

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
B2.4	B-F	SPRAY LINE	TWO THREE	1 1	1 1	W-29A S.E. W-29A	80A-18, 36 81-142, 208
B2.5, B2.6 & 2.7	B-G-1	<u>PRESSURE-RETAINING BOLTS AND STUDS (2 IN. DIA)</u>	-	-	-	-NONE-	
B2.8	B-H	<u>INTEGRALLY WELDED VESSEL SUPPORTS</u>	ONE TWO THREE	3.3% 3.3% 3.4%	5.5% 5.5% 7.5%	(CW) FROM NAMEPLATE: +8" TO -8" W-6 +8" TO +9'-4" 15' TO 17'6"	76-59, 60 78-089, 113 81-240
B2.9	B-I-2	<u>VESSEL CLADDING</u>	THREE	36 SQ. IN. PATCH	36 SQ. IN. PATCH		83C-102
B2.10	B-O	<u>EXEMPTED COMPONENTS</u>					
		INSTRUMENT NOZZLE PENETRATIONS	*	-	-	NO. 5A THRU 5H	*EACH ITEM INSPECTED BY PLANT PERSONNEL
		SAMPLE NOZZLE PENETRATION	*	-	-	NO. 6	*EACH ITEM INSPECTED BY PLANT PERSONNEL
B2.11	B-G-2	<u>PRESSURE RETAINING BOLTING</u>					
		MANWAY BOLTS	ONE TWO THREE	6 6 6	6 6 16 16	BOLTS 1 THRU 6 BOLTS 6 THRU 11 BOLTS 1 THRU 16 BOLTS 1 THRU 16	76-9 78-092 81-196 83C-106, 112

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INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S1.3.1
 PAGE 1 OF 3
 MAJOR ITEM: STEAM GENERATORS

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
B3.1	B-B	LONGITUDINAL AND CIRCUM- FERENTIAL WELDS ON THE PRIMARY SIDE					
		LONGITUDINAL WELDS	-	-	-	-NONE-	
		CIRCUMFERENTIAL WELDS				(CW) FROM NAMEPLATE:	
		STEAM GENERATOR NO. 11 WELD-A	ONE TWO THREE	1.9% 1.9% 1.8%	25% 5% 7%	+6' TO -3' +11' TO +13' 23'6" TO 26'1"	76-24, 20, 25 78-096, 116, 126 81-239, 261, 262
		STEAM GENERATOR NO. 12 WELD-A	ONE TWO THREE	1.9% 1.9% 1.8%	25% 5% 2.5%	+6' TO - 3' +11' TO +13' 25'9" TO 26'10"	76-21, 22, 23 78-097, 115, 125 81-245, 251, 255
B3.2	B-D	NOZZLE TO HEAD WELDS	-	-	-	-NONE-	
B3.3	B-F	NOZZLE TO SAFE END WELDS					
		STEAM GENERATOR NO. 11	ONE THREE	1 1	1 1	RCC-A-5 S.E. RCC-A-4 S.E.	76-2, 29, 30 83C-084, 123
		STEAM GENERATOR NO. 12	TWO THREE	1 1	1 1	RCC-B-5 S.E. RCC-B-4 S.E.	80A-62, 68 83C-083, 092
B3.4, B3.5 & B3.6	B-G-1	PRESSURE RETAINING BOLTS AND STUDS (2 IN. DIA)	-	-	-	-NONE-	
B3.7	B-H	INTEGRALLY WELDED VESSEL SUPPORTS	-	-	-	-NONE-	

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 MAJOR ITEM: STEAM GENERATORS

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
B3.8	B-I-2	<u>VESSEL CLADDING</u> STEAM GENERATOR NO. 11 INLET SIDE OUTLET SIDE	ONE ONE	36 SQ. IN. PATCH 36 SQ. IN. PATCH	36 SQ. IN. 36 SQ. IN.	CP-1, BELOW MANWAY CP-2, BELOW MANWAY	76-71 76-71
B3.8	B-I-2	<u>STEAM GENERATOR NO. 12</u> INLET SIDE OUTLET SIDE	ONE ONE	36 SQ. IN. PATCH 36 SQ. IN. PATCH	36 SQ. IN. 36 SQ. IN.	CP-3, BELOW MANWAY CP-4, BELOW MANWAY	76-71 76-71
B3.9	B-P	<u>EXEMPTED COMPONENTS</u>	-	-	-	-NONE-	
B3.10	B-G-2	<u>PRESSURE RETAINING BOLTING</u> <u>(2 IN. DIA)</u> <u>STEAM GENERATOR NO. 11</u> <u>MANWAY BOLTING</u> INLET MANWAY	ONE TWO THREE	6 6 6	6 16 16 16 16	BOLTS, 1 THRU 6 BOLTS, 1 THRU 16 BOLTS, 1 THRU 16 BOLTS, 1 THRU 16 BOLTS, 1 THRU 16	76-10 78-102 81-258 82-027, 113 83C-032, 036

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MAJOR ITEM: STEAM GENERATORS

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
B3.10	B-G-2	(CONT'D)					
		OUTLET MANWAY	ONE	6	6	BOLTS, 6 THRU 12	76-10
			TWO	6	16	BOLTS, 1 THRU 16	78-099 (WR-E3124)
			THREE	6	16	BOLTS, 1 THRU 16	81-259
					16	BOLTS, 1 THRU 16	82-027, 113
					16	BOLTS, 1 THRU 16	83C-032, 036
		<u>STEAM GENERATOR NO. 12</u> <u>MANWAY BOLTING</u>					
		INLET MANWAY	ONE	6	6	BOLTS, 1 THRU 6	76-10
			TWO	6	16	BOLTS, 1 THRU 16	78-091, 101
			THREE	6	16	BOLTS, 1 THRU 16	81-248
					16	BOLTS, 1 THRU 16	82-028, 114
					16	BOLTS, 1 THRU 16	83C-033, 037
		OUTLET MANWAY	ONE	6	6	BOLTS, 6 THRU 12	76-10
			TWO	6	16	BOLTS, 1 THRU 16	78-090, 100
			THREE	6	16	BOLTS, 1 THRU 16	81-247
					16	BOLTS, 1 THRU 16	82-028, 061, 114
					16	BOLTS, 1 THRU 16	83C-033, 037

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 MAJOR ITEM: REGENERATIVE HEAT EXCHANGER

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
B3.1	B-B	<u>LONGITUDINAL AND CIRCUMFERENCE- TIAL WELDS ON PRIMARY SIDE</u>					
		LONGITUDINAL WELDS	-	-	-	-NONE-	
		CIRCUMFERENTIAL WELDS					
		EXCHANGER A	ONE	1	1	NO. 1, SHELL WELD	76-66
		EXCHANGER B	TWO	1	1	NO. 2, SHELL WELD	78-049
		EXCHANGER C	THREE	1	1	NO. 3, SHELL WELD	81-155
B3.2	B-D	<u>NOZZLE TO HEAD WELD</u>	-	-	-	-NONE-	
B3.4, B3.5 & B3.6	B-G-1	<u>PRESSURE RETAINING BOLTS AND STUDS (2 IN. DIA.)</u>	-	-	-	-NONE-	
B3.7	B-H	<u>INTEGRALLY WELDED VESSEL SUPPORTS</u>	-	-	-	-NONE-	
B3.8	B-I-2	<u>VESSEL CLADDING</u>	-	-	-	-NONE-	
B3.9	B-P	<u>EXEMPTED COMPONENTS</u>	-	-	-	-NONE-	
B3.10	B-G-2	<u>PRESSURE RETAINING BOLTING (2 IN. DIA.)</u>	-	-	-	-NONE-	

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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	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
B3.1	B-B	<u>LONGITUDINAL AND CIRCUMFERENCE- TIAL WELDS ON PRIMARY SIDE</u>					
		LONGITUDINAL WELDS	-	-	-	-NONE-	
		CIRCUMFERENTIAL WELDS	ONE	33%	100%	NO. 1, HEAD TO FLANGE	77-119
			TWO	33%	100%	NO. 1, HEAD TO FLANGE	78-048
			THREE	34%	100%	NO. 1, HEAD TO FLANGE	81-154
B3.2	B-D	<u>NOZZLE TO VESSEL WELDS</u>	-	-	-	-NONE-	
B3.3	B-F	<u>NOZZLE TO SAFE END WELDS</u>	-	-	-	-NONE-	
B3.4, B3.5 & B3.6	B-G-1	<u>PRESSURE RETAINING BOLTS AND STUDS (2 IN. DIA.)</u>	-	-	-	-NONE-	
B3.7	B-H	<u>INTEGRALLY WELDED VESSEL SUPPORTS</u>	-	-	-	-NONE-	
B3.8	B-I-2	<u>VESSEL CLADDING</u>	-	-	-	-NONE-	
B3.9	B-P	<u>EXEMPTED COMPONENTS</u>	-	-	-	-NONE-	
B3.10	B-G-2	<u>PRESSURE RETAINING BOLTING (2 IN. DIA.)</u>	ONE TWO THREE	4 4 4	12 12 12	1 THRU 12 1 THRU 12 1 THRU 12	77-126 78-089 81-197

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MAJOR ITEM: PIPING PRESSURE BOUNDARY

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
B4.1	B-F	<u>SAFE END TO PIPING AND SAFE END IN BRANCH PIPING WELDS</u>					
		<u>REACTOR VESSEL</u>					
		REACTOR CORE COOLANT SYSTEMS	ONE	1	1	RCC-A-1 S.E.	77-W RPV REPORT &
			TWO	1	1	29-RC-1A,	77-T56
			THREE	2	2	RCC-B-1 S.E., 29-RC-1B	80A-W RPV REPORT 80A-T21
						RCC-A-14 S.E. (PT ONLY)	83C-009, 009R
						RCC-B-14 S.E. (PT ONLY)	83C-008
		SAFETY INJECTION SYSTEMS	ONE	1	1	W-2, 4-RC-14A	77-W RPV REPORT &
			THREE	1	1	W-2	77-T54 82-069, 70
		<u>STEAM GENERATOR NO. 11</u>					
		REACTOR CORE COOLANT SYSTEM	ONE	1	1	RCC-A-5, 31-RC-2A	76-2, 29, 30
			THREE	1	1	RCC-A-4, 29-RC-1A	83C-084, 123
		<u>STEAM GENERATOR NO. 12</u>					
		REACTOR CORE COOLANT SYSTEM	TWO	1	1	RCC-B-5, 31-RC-2B	80A-62, 68
			THREE	1	1	RCC-B-4, 29-RC-1B	83C-083, 092
		<u>PRESSURIZER</u>					
		SAFETY LINES	ONE	2	2	8010A-1B S.E.	76-3, 55
			TWO	2	2	8010B-1B S.E.	76-4, 58
						8010A-1B S.E.	80A-20, 41
						8010B-1B S.E.	80A-21, 43

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MAJOR ITEM: PIPING PRESSURE BOUNDARY

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
B4.1	B-F	(CONT'D)					
		SURGE LINE	TWO	1	1	W-6SE, 10-RC-4	78-025, 084
		RELIEF LINE	TWO THREE	1 1	1 1	W-1B, S.E. W-1B, S.E.	80-19, 38 81-130, 206
		SPRAY LINE	TWO THREE	1 1	1 1	W-29, S.E. W-29, S.E.	80A-18, 37 81-143, 209
B4.2, B.43 & B4.4	B-G-1	PRESSURE RETAINING BOLTS AND STUDS (2 IN. DIA.)	-	-	-	-NONE-	
B4.5	B-J	CIRCUMFERENTIAL AND LONGITU- DINAL PIPE WELDS					
		LONGITUDINAL WELDS	-	-	-	-NONE-	
		CIRCUMFERENTIAL WELDS (1.5 IN. NOM. DIA. SYSTEMS)					
		SEAL INJECTION A	ONE TWO THREE	1 1 1	1 1 1	W-1 W-6 W-5	77-113, 141 78-086, 112 81-256
		SEAL INJECTION B	ONE TWO THREE	1 1 1	1 1 1	W-6 W-2B W-2A	77-38, 94 78-087, 111 81-257

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SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
B4.5	B-J	(CONT'D) (2.0 IN. NOM. DIA. SYSTEMS)					
		SEAL INJECTION A	ONE	3	3	W-11, 14, 16A	77-114, 143, 107, 123, 107, 125
			ONE	2	BASELINE	W-48A, 48B	77-150, 151, 152
			TWO	3	3	W-34, 37, 47	79-52, 82, 79
			THREE	4	4	W-21, 22, 27 W-35	81-84, 83, 85 83C-071
		SEAL INJECTION B	ONE	2	2	W-29, 30	77-20, 42, 43
			TWO	2	2	W-14, 15A	79-SP2-75, 83
			TWO	2	BASELINE	W-CJ-4, D5228-3	80A-128, 129
			THREE	4	4	W-10, 11, 18, 19	81-269, 252, 121, 120
		CHARGING LINE CVCS	ONE	6	6	W-41, 57, 62, 69, 70, 73	77-86, 98, 18, 46, 18, 45, 19, 41, 19, 40, 19, 39
			TWO	6	6	W-36, 37, 66	78-078, 074, 073
			THREE	6	6	W-2, 3, 34 W-11, 12, 20, 21 W-29A, 32	79-54, 55, 50 82-049, 050, 051, 052 83C-070, 069
		LETDOWN LINE CVCS	ONE	1	1	W-13	77-69, 73
			TWO	1	1	W-11	79-51
			THREE	2	2	w-2, 16	81-125, 124
		AUXILLIARY SPRAY TO PRESSURIZER	ONE	1	1	W-1	77-70, 74
			TWO	2	2	W-8, 9	79-SP2-81, 82
			THREE	2	2	W-1A, 3	82-102, 103
		RESIDUAL TEMPERATURE DETECTOR TAKE OFF- COLD LEG A	ONE	1	1	W-16	77-122, 142
			TWO	2	2	W-20, 22	79-SP2-77, 78
			THREE	1	1	W-10	83C-042

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SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
B4.5	B-J	(CONT'D)					
		RESIDUAL TEMPERATURE DETECTOR TAKE OFF- COLD LEG B	ONE TWO THREE	1 1 1	1 1 1	W-14 W-2 W-18	77-184, 103 79-80 83C-067
		RESIDUAL TEMPERATURE DETECTOR TAKE OFF- HOT LEG A	ONE TWO THREE	1 1 2	1 1 2	W-23 W-19 W-15A, 16	77-121, 144 79-SP2-76 83C-043, 044
		RESIDUAL TEMPERATURE DETECTOR TAKE OFF- HOT LEG B	ONE TWO THREE	1 1 2	1 1 2	W-24 W-5 W-11, 21	77-89, 106 79-81 83C-065, 066
		SAFETY INJECTION HIGH HEAD A	ONE TWO THREE	1 - 1	1 - 1	W-1A W-5	77-50, 72 81-82
		SAFETY INJECTION HIGH HEAD B	ONE TWO THREE	1 1 2	1 1 2	W-13 W-1 W-4,5	77-51, 71 79-71 81-254, 253
		DRAIN LINE ON CROSSOVER A	ONE TWO THREE	1 1 1	1 1 1	W-4 W-8 W-6	77-52, 145 78-077 81-126
		DRAIN LINE ON CROSSOVER B	ONE TWO THREE	- 1 1	- 1 1	W-2 W-7	79-53 81-122
		REACTOR VESSEL SAFETY INJECTION LOW HEAD A	ONE TWO THREE	- 1 3	- 1 3	W-7 W-8, 11, 9	78-080 81-79, 81, 80

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SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
B4.5	B-J	(CONT'D)					
		REACTOR VESSEL	ONE	1	1	W-7	77-17, 44
		SAFETY INJECTION	TWO	1	1	W-2	78-079
		LOW HEAD B	THREE	1	1	W-7A	81-78
		(3.0 IN. NOM. DIA. SYSTEMS)					
		SPRAY TO PRESSURIZER BRANCH A	ONE	3	3	W-3, 11, 25A	77-54, 115, 88, 108, 97, 99
			TWO	4	4	W-6, 10, 19, 24	79-94, 92, 91, 89
			THREE	4	4	W-20, 21	81-210, 211
						W-21, 23	83C-105, 104
		SPRAY TO PRESSURIZER BRANCH B	ONE	1	1	W-2	77-104, 117
			TWO	1	1	W-14	79-90
			THREE	2	2	W-1, 3	82-040, 043
		RESIDUAL TEMPERATURE DETECTOR RETURN A	ONE	1	1	W-4	77-53, 116
			TWO	1	1	W-8	78-075
			THREE	1	1	W-6	82-041
		RESIDUAL TEMPERATURE DETECTOR RETURN B	ONE	1	1	W-3	77-83, 95
			TWO	1	1	W-7	78-076
			THREE	1	1	W-6	83C-078
		PRESSURIZER RELIEF LINE A	ONE	1	1	W-9	77-87, 100
			TWO	1	1	W-6	79-77
			THREE	1	1	W-11	81-207
		PRESSURIZER RELIEF LINE B	ONE	1	1	W-14	77-87, 101
			TWO	-	-		
			THREE	-	-		

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MAJOR ITEM: PIPING PRESSURE BOUNDARY

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
B4.5	B-J	(CONT'D)					
		(4.0 IN. NOM. DIA. SYSTEMS)					
		SAFETY INJECTION LOW HEAD A	ONE TWO THREE	1 - -	- - -	NONE OF THESE WELDS ARE ACCESSIBLE; THEY ARE LOCATED WITHIN THE CONCRETE SHIELD WALL	
		SAFETY INJECTION LOW HEAD B	ONE TWO THREE	- - 1	- - 1	SOME OF THESE WELDS ARE ACCESSIBLE; OTHERS ARE LOCATED WITHIN THE CONCRETE SHIELD WALL W-4	83C-090
		(6.0 IN. NOM. DIA. SYSTEMS)					
		SAFETY INJECTION LOW HEAD A	ONE TWO THREE	2 - -	2 - -	W-9, 10	76-67, 68
		SAFETY INJECTION LOW HEAD B	ONE TWO THREE	- 1 -	- 1 -	W-5	79-74
		SAFETY INJECTION HIGH HEAD A	ONE TWO THREE	- 1 -	- 1 -	W-1	79-73
		SAFETY INJECTION HIGH HEAD B	ONE TWO THREE	- - 1	- - 1	W-2	83C-103
		PRESSURIZER SAFETY LINE A	ONE TWO THREE	2 - 4	2 - 4	W-2, 3 W-7, 8, 10 W-6	76-56, 57 81-190, 164, 165 82-100

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S. B ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
B4.5	B-J	(CONT'D)					
		PRESSURIZER SAFETY LINE B	ONE	-	-		
			TWO	1	1	W-4	79-76
			THREE	3	4	W-7, 8, 10 W-5	81-156, 158, 157 83C-015
		PLO-CAP A	ONE	-	-		
			TWO	-	-		
			THREE	1	1	W-1	83C-045
		PLO-CAP B	ONE	-	-		
			TWO	1	1	W-1	79-72
			THREE	-	-		
		<u>(8.0 IN. NOM. DIA. SYSTEMS)</u>					
		RESIDUAL HEAT REMOVAL TAKE OFF A	ONE	6	6	W-1, 20, 21, 22 23, 24	76-53, 39, 40, 41, 42, 43
			TWO	2	2	W-12, 14	78-034, 035
			THREE	2	2	W-5, 7	81-277, 279
		RESIDUAL HEAT REMOVAL TAKE OFF B	ONE	2	2	W-10, 19	77-90, 92, 68
			TWO	2	2	W-9, 17	78-045, 046
			THREE	2	2	W-4, 7	81-278, 275
		<u>(10.0 IN. NOM. DIA SYSTEMS)</u>					
		RESIDUAL HEAT REMOVAL RETURN B	ONE	2	2	w-8,9	76-64, 65
			TWO	1	1	W-5	78-83
			THREE	1	1	W-2	83C-068
		PRESSURIZER SURGE LINE B	ONE	2	1	W-5	76-54
			TWO	-	-		
			THREE	1	1	W-1	83C-119

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SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
B4.5	B-J	(CONT'D)					
		(12.0 IN. NOM. DIA. SYSTEMS)					
		ACCUMULATOR DISCHARGE A	ONE	3	3	W-6, 7, 8	76-36, 61, 37, 62, 38, 63
			TWO	-	-		
			THREE	1	1	W-2	82-044
		ACCUMULATOR DISCHARGE B	ONE	1	1	W-13	77-75, 49, 49R
			TWO	1	1	W-5	79-45, 48
			THREE	2	2	W-8, 11	83C-072, 073
		(27.5 IN. NOM. DIA. SYSTEMS)					
		REACTOR CORE COOLANT COLD LEG (INLET) A	ONE	-	-		
			TWO	-	-		
			THREE	1	1	RCC-A-11	83C-012
		REACTOR CORE COOLANT COLD LEG (INLET) B	ONE	-	-		
			TWO	1	1	RCC-B-12	80A-87
			THREE	-	-		
		(29.0 IN. NOM. DIA. SYSTEMS)					
		REACTOR CORE COOLANT HOT LEG (OUTLET) A	ONE	-	-		
			TWO	-	-		
			THREE	1	1	RCC-A-3	83C-124
		REACTOR CORE COOLANT HOT LEG (OUTLET) B	ONE	1	1	W-3	77-102
			TWO	-	-		
			THREE	-	-		

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SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
B4.5	B-J	(CONT'D) (31.0 IN. NOM. DIA. SYSTEMS) REACTOR CORE COOLANT CROSSOVER A REACTOR CORE COOLANT CROSSOVER B	ONE TWO THREE	3 - 1	3 - 1	W-6, 7, 8 RCC-A-9	76-28,31,27,32,1,33 83C-011
B4.6	B-J	BRANCH PIPE CONNECTION WELDS EXCEEDING SIX INCH DIAMETER ACCUMULATOR DISCHARGE A ACCUMULATOR DISCHARGE B RESIDUAL HEAT REMOVAL TAKE OFF B PRESSURIZER SURGE LINE B RESIDUAL HEAT REMOVAL TAKE OFF A	ONE - TWO THREE ONE	1 - 1 1 1	1 - 1 1 1	W-R W-R W-R W-R	76-34, 44, 45 80A-66, 75, 76 83C-120 76-35, 52

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 MAJOR ITEM: PIPING PRESSURE BOUNDARY

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
B4.7	B-J	BRANCH PIPE CONNECTION WELDS SIX INCH DIAMETER AND SMALLER					
		(6.0 IN. NOM. DIA. SYSTEMS)					
		PLO-CAP A	-	-	-		
		PLO-CAP B	-	-	-		
		SAFETY INJECTION HIGH HEAD A	THREE	1	1	W-R	83C-026
		SAFETY INJECTION HIGH HEAD B	-	-	-		
		(3.0 IN. NOM. DIA. SYSTEMS)					
		SPRAY TO PRESSURIZER BRANCH A	-	-	-		
		SPRAY TO PRESSURIZER BRANCH B	THREE	1	1	W-R	82-064
		RESIDUAL TEMPERATURE DETECTOR RETURN A	-	-	-		
		RESIDUAL TEMPERATURE DETECTOR RETURN B	-	-	-		
		(2.0 IN. NOM. DIA. SYSTEMS)					
		RESIDUAL TEMPERATURE DETECTOR TAKE OFF COLD LEG A	ONE	1	1	W-R	77-133

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TABLE S1.4
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 MAJOR ITEM: PIPING PRESSURE BOUNDARY

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
B4.7	B-J	(CONT'D)					
		RESIDUAL TEMPERATURE DETECTOR TAKE OFF COLD LEG B	-	-	-		
		DRAIN LINE ON CROSSOVER A	-	-	-		
		DRAIN LINE ON CROSSOVER B	-	-	-		
		CHARGING LINE CVC'S	TWO	1	1	W-R	79-83, 83R
		REACTOR VESSEL SAFETY INJECTION LOW HEAD A	THREE	1	1	W-R	81-94, 94R
		REACTOR VESSEL SAFETY INJECTION LOW HEAD B	-	-	-		
B4.8	B-J	<u>SOCKET WELDS</u> (2.0 IN. NOM. DIA. SYSTEMS)					
		SEAL INJECTION A	ONE TWO THREE	- 1 1	- 1 1	SW-17 SW-18	78-019 81-263
		SEAL INJECTION B	ONE TWO THREE	1 1 1	1 BASELINE 1	SW-9A SW-CJ-3 SW-13	77-036 80A-130 81-265

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TABLE S1.4PAGE 12 OF 21MAJOR ITEM: PIPING PRESSURE BOUNDARY

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
B4.8	B-J	(CONT'D)					
		CHARGING LINE B	ONE	1	1	SW-75	77-065
			TWO	1	1	SW-1	79-44
			THREE	1	2	W-29	82-123
						W-12	83C-025
		LETDOWN LINE CVCS	ONE	-	-		
			TWO	1	1	SW-5	79-21
			THREE	-	-		
		AUXILLIARY SPRAY TO PRESSURIZER	ONE	1	1	SW-1C	77-070
			TWO	-	-		
			THREE	-	-		
		RESIDUAL TEMPERATURE DETECTOR TAKE OFF COLD LEG A	ONE	1	1	SW-2	77-133
			TWO	1	1	SW-13/SW-13	78-24, 24R/79-69, 69R
						SW-13	80A-109
			THREE	1	1	W-10	83C-055
		RESIDUAL TEMPERATURE DETECTOR TAKE OFF COLD LEG B	ONE	1	1	SW-7	77-084
			TWO	1	1	SW-5	79-42
			THREE	1	1	W-13	83C-023, 023R1, 023R2
		RESIDUAL TEMPERATURE DETECTOR TAKE OFF HOT LEG A	ONE	-	-		
			TWO	1	1	SW-10	79-SP2-73, 73R
						SW-10	80A-65
			THREE	1	-	W-15	83C-024, 024R1, 024R2
		RESIDUAL TEMPERATURE DETECTOR TAKE OFF HOT LEG B	ONE	-	-		
			TWO	1	1	SW-15	79-43
			THREE	1	1	W-14	82-065

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MAJOR ITEM:

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SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
B4.8	B-J	(CONT'D)					
		SAFETY INJECTION HIGH HEAD A	ONE TWO THREE	- - 1	- - 1	SW-6	81-111
		SAFETY INJECTION HIGH HEAD B	ONE TWO THREE	1 - -	1 - -	SW-17	77-51
		DRAIN LINE ON CROSSOVER A	ONE TWO THREE	1 - -	1 - -	SW-1	77-52
		DRAIN LINE ON CROSSOVER B	ONE TWO THREE	- 1 1	- 1 1	SW-1 SW-8	79-22 81-117
		REACTOR VESSEL SAFETY INJECTION LOW HEAD A	ONE TWO THREE	- - 1	- - 1	SW-12	81-93
		REACTOR VESSEL SAFETY INJECTION LOW HEAD B	ONE TWO THREE	1 - -	1 - -	SW-8	77-17
B4.9	B-K-1	<u>INTEGRALLY WELDED SUPPORTS</u>					
		RESIDUAL HEAT REMOVAL RETURN B	ONE	2	2	F, G	76-18, 19
		ACCUMULATOR DISCHARGE A	ONE	1	1	D1	76-69

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 MAJOR ITEM: PIPING PRESSURE BOUNDARY

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
B4.9	B-K-1	(CONT'D)					
		RESIDUAL HEAT REMOVAL TAKE OFF A	ONE TWO THREE	1 1 1	1 1 1	F I K1	77-67, 91 78-052, 082, 088 81-276, 264, 214
		SPRAY TO PRESSURIZER BRANCH A	ONE	1	1	K1	77-93, 66
		REACTOR VESSEL SAFETY INJECTION LOW HEAD A & B (6")	-	-	-		
		CHARGING LINE CVCS	-	-	-		
		SAFETY INJECTION HIGH HEAD A	-	-	-		
		ACCUMULATOR DISCHARGE B	TWO	1	1	B1	79-46, 20, 36
		RESIDUAL HEAT REMOVAL TAKE OFF B	TWO	1	1	H	78-047, 020, 020R
		SPRAY TO PRESSURIZER BRANCH	TWO THREE	1 -	1 -	E E E	79-93, 70, 70R, 33 80A-56, 92, 59, 59R 81-216, 132, 136
		AUXILLIARY SPRAY CVCS	THREE	1	1	A	82-010, 060
		REACTOR VESSEL SAFETY INJECTION LOW HEAD A & B (2")	-	-	-		
		SEAL INJECTION A	THREE	1	1	I	81-86, 95, 114

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INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S1.4PAGE 15 OF 21MAJOR ITEM: PIPING PRESSURE BOUNDARY

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REC'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
B4.9	B-K-1	(CONT'D)					
		SAFETY INJECTION HIGH HEAD B	-	-	-		
		LETDOWN LINE CVCS	-	-	-		
		SEAL INJECTION B	THREE	1	1	B1	81-270, 266, 227
		RESIDUAL TEMPERATURE DETECTOR TAKE OFF COLD LEG A	-	-	-		
B4.10	B-K-2	<u>SUPPORT COMPONENTS</u>					
		REACTOR CORE COOLANT A	ONE THREE	1 1	1 2	A1 A ₂ , A ₃	77-12 83C-021, 013
		ACCUMULATOR DISCHARGE A	-	-	-	-NONE-	
		RESIDUAL HEAT REMOVAL TAKE OFF A	ONE TWO THREE	4 6 6	3 7 6	L, O, Q1 K2-MISSED IN PERIOD ONE A, D, E, K2 E1, F1, G1 G2, H, I1, J1, M, N	76-82 78-31, 32, 33, 64, 64R 79-5, 4, 6 81-243, 116, 100, 99 107, 107R, 109
		SAFETY INJECTION HIGH HEAD A	-	-	-		
		SPRAY TO PRESSURIZER BRANCH A	ONE TWO THREE	4 4 4	4 4 3	H, J, L, M D, A & B/C1 F, G, K	76-83 78-71, 51/79-7 82-003, 013, 018

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MAJOR ITEM: PIPING PRESSURE BOUNDARY

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
B4.10	B-K-2	(CONT'D)					
		RESISTANCE TEMPERATURE DETECTOR RETURN A	ONE TWO THREE	- 1 1	- 1 1	A B	78-067 83C-020
		RESISTANCE TEMPERATURE DETECTOR TAKE OFF COLD LEG A	ONE TWO THREE	1 2 2	1 2 2	A D/B B E, F	72-111 78-65/79-27, 27R 80A-108 83C-018, 017
		RESISTANCE TEMPERATURE DETECTOR TAKE OFF HOT LEG A	ONE TWO THREE	1 1 2	1 1 2	A B C, D	77-110 79-28 83C-016, 019
		SAFETY INJECTION HIGH HEAD A	ONE TWO THREE	- - 1	- - 1	A	81-244, 244R
		DRAIN LINE ON CROSSOVER A	ONE TWO THREE	1 1 1	1 1 1	B B1 C	76-84 78-050 81-106
		SEAL INJECTION A	ONE TWO THREE	6 6 7	6 6 7	D, G, H, J, K, I1 C, D, E, P A, B/A1 E1, L, M, N, O, Q, Q1	76-85 78-069, 059, 068, 060 79-23, 24/79-SP2-89 81-104, 103, 97, 105 98, 218, 224
		REACTOR CORE COOLANT B	ONE TWO THREE	- 1 2	- 1 2	B2 B2, B3	80A-125 83C-049, 044

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TABLE SL.4PAGE 17 OF 21MAJOR ITEM: PIPING PRESSURE BOUNDARY

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
B4.10	B-K-2	(CONT'D)					
		ACCUMULATOR DISCHARGE B	ONE TWO THREE	1 - -	1 - -	B	76-86
		RESIDUAL HEAT REMOVAL RETURN	ONE TWO THREE	1 2 2	- 2 2	A - MISSED IN PERIOD A, B C, D	ONE 78-054, 061 82-002, 126
		RESIDUAL HEAT REMOVAL TAKE OFF B	ONE TWO THREE	3 4 4	4 4 4	K, L, M, N A, D, E, F G, I, J, N	76-88 78-53, 30/79-26, 25 81-217, 226, 241, 225
		SAFETY INJECTION HIGH HEAD B	-	-	-	-NONE-	
		SPRAY TO PRESSURIZER BRANCH B	ONE TWO THREE	3 3 4	4 3 4	A, B, C, D A1, D, D1 F & H, I, J, K	76-89 79-31, 32, 34 81-133, 141, 140, 138
		RESISTANCE TEMPERATURE DETECTOR RETURN B	ONE TWO THREE	- 1 1	- 1 1	A B	78-066 83C-050
		RESISTANCE TEMPERATURE DETECTOR TAKE OFF COLD LEG B	ONE TWO THREE	1 2 2	1 3 2	B C/B/D E, F	77-63 78-56/79-35/79-SP2-90 83C-027, 051
		RESISTANCE TEMPERATURE DETECTOR TAKE OFF HOT LEG B	ONE TWO THREE	1 2 2	1 2 2	A B/C D, E	77-61 78-55/79-16 82-001, 014

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MAJOR ITEM: PIPING PRESSURE BOUNDARY

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
B4.10	B-K-2	(CONT'D)					
		SAFETY INJECTION HIGH HEAD B	ONE TWO THREE	1 - 1	1 - 1	A C	76-90 83C-052
		DRAIN LINE ON CROSSOVER B	ONE TWO THREE	- 1 -	- 1 -	A	79-SP2-66
		CHARGING LINE CVCS	ONE TWO THREE	6 6 7	6 6 7	H, I, J, K, L, N E, D, A, B, F, G O, P, Q, Q1 R, R1, S	76-91 78-062, 063 79-12, 13, 40, 41 82-004,005,015,016 82-006,006R,017,026
		LETDOWN LINE CVCS	ONE TWO THREE	2 2 4	2 2 4	A/C C1, D E, F, G, H	76-93/77-60 79-SP2-93, 94 81-123, 112, 118, 118R, 113
		SEAL INJECTION B	ONE TWO THREE	3 3 3	3 3 3	G/A, B C/B2, C1 D, E, E1	76-93,/77-82, 109 78-57/79-18, 19 81-101, 102, 242
		PRESSURIZER SURGE B	ONE TWO THREE	3 3 4	3 3 4	A, B/C E/D, C1 D F, G, H, I	76-94/77-80 78-072/79-SP2-95, 95R, 96/80A-57 83C-074,075,076,077
		PRESSURIZER SAFETY LINES A & B	-	-	-	-NONE-	

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MAJOR ITEM: PIPING PRESSURE BOUNDARY

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
B4.10	B-K-2	(CONT'D)					
		REACTOR VESSEL	ONE	1	1	A1	76-95
		SAFETY INJECTION (6"x4")	TWO	1	1	A2	79-1
		LOW HEAD A & B	THREE	1	1	B ₂	83C-099
		PRESSURIZER RELIEF	ONE	-	-		
		LINES A & B	TWO	1	1	A	78-037, 036, 036R
			THREE	1	1	B	81-139, 139R
		AUXILLIARY SPRAY TO	ONE	2	2	B, C	76-96
		PRESSURIZER B	TWO	2	2	D, E	79-SP2-91, 92
			THREE	2	2	F, G	82-011, 012
		REACTOR VESSEL	ONE	-	-		
		SAFETY INJECTION (2")	TWO	1	1	A1	78-029
		LOW HEAD A & B	THREE	1	1	A	81-108
		PLO-CAP A	-	-	-	-NONE-	
		PLO-CAP B	-	-	-	-NONE-	
B4.11	B-P	EXEMPT AND NON-EXEMPT COMPONENTS HYDROSTATICALLY PRESSURE TESTED TO IWA-5000 AND IWB-5000 AT END OF TEN INTERVAL PLUS SYSTEM LEAKAGE TEST EACH SCHEDULED REFUELING OUTAGE EXEMPT: RESISTANCE TEMPERATURE DETECTOR-TAKE OFF 1-RC-7A	-	*		* ALL COMPONENTS EXAMINED IN ACCORDANCE WITH IWA-500 AND IWB-5000 DURING SYSTEM LEAKAGE TEST	PERFORMED BY PLANT PERSONNEL

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MAJOR ITEM: PIPING PRESSURE BOUNDARY

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REC'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
B4.11	B-P	(CONT'D) EXCESS LETDOWN LINE A 1-RC-8 1-VC-7 1-VC-9 RESISTANCE TEMPERATURE DETECTOR TAKE OFF 1-RC-7B REACTOR VESSEL CLOSURE HEAD VENT 1-RC-36 REACTOR VESSEL CLOSURE HEAD FLANGE 1-RC-9A 1-RC-9B					
B4.12	B-G-2	PRESSURE RETAINING BOLTING (ONLY SYSTEMS APPLICABLE TO THIS ITEM ARE LISTED)					
		SEAL INJECTION A	ONE	4	4	BOLTS 1-4 @ W-10	76-7
			TWO	4	4	BOLTS 1-4 @ W-2	78-081
		RESISTANCE TEMPERATURE DETECTOR RETURN A	ONE	8	8	BOLTS 1-8	76-12
			THREE	8	8	BOLTS 1-8	83C-022
		PRESSURIZER SAFETY LINE A	ONE	12	12	BOLTS 1-12 (8010-A)	76-17
			TWO	12	12	BOLTS 1-12 (8010-A)	79-85
			THREE	-	12	BOLTS 1-12 (8010-A)	82-020, 022

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MAJOR ITEM: PIPING PRESSURE BOUNDARY

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
B4.12	B-G-2	(CONT'D)					
		SEAL INJECTION B	ONE THREE	4 4	4 4	BOLTS 1-4 BOLTS 1-4	76-16 81-271
		RESISTANCE TEMPERATURE DETECTOR RETURN B	TWO THREE	8 8	8 8	BOLTS 1-8 @ W-7 BOLTS 1-8	79-14 83C-048
		PRESSURIZER SAFETY LINE B	THREE	12	12	BOLTS 1-12 (8010-B)	82-019, 021, 045

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 MAJOR ITEM: REACTOR CORE COOLANT PUMPS

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
B5.1 & B5.3	B-G-1	PRESSURE-RETAINING BOLTS AND STUDS, IN PLACE (2 IN. DIA)					
		FLANGE BOLTS					
		PUMP A	ONE	8	8	BOLTS 10 THRU 17	76-26
			TWO	8	8	BOLTS 18 THRU 1	78-085
			THREE	8	24	BOLTS 1 THRU 24	83C-143
		PUMP B	ONE	8	8	BOLTS 1 THRU 8	76-75
			TWO	8	8	BOLTS 9 THRU 16	78-085
			THREE	ITEM B5.2	24	BOLTS 1 THRU 24	83C-144
		SEAL HOUSE BOLTING					
		PUMP A	ONE	4	4	BOLTS 1 THRU 4	76-76
			TWO	4	12	BOLTS 1 THRU 12	78-104, 107
			THREE	4	24	BOLTS 1 THRU 12	82-033, 034
B5.2 & B5.3	B-G-1	PUMP B	ONE	4	4	BOLTS 7 THRU 10	76-77
			TWO	4	12	BOLTS 1 THRU 12	78-105, 106
			THREE	ITEM B5.2	12	BOLTS 1 THRU 12	83C-031, 039
		PRESURE RETAINING BOLTS AND STUDS (2 IN. DIA.)					
		PUMP B FLANGE BOLTING	THREE	24	**		** BOLTS NOT REMOVED
		PUMP B SEAL HOUSE BOLTING	TWO	12	12	BOLTS 1 THRU 12 (MT ONLY)	80A-74
			THREE	12	24*	BOLTS 1 THRU 12	82-056, 057
					24*	BOLTS 1 THRU 12	*UPPERS AND LOWERS 83C-029,038,031,039
		PUMP A SEAL HOUSE BOLTING	-	-	24*	BOLTS 1 THRU 12	*UPPERS AND LOWERS 83C-028,035,030,034

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MAJOR ITEM: REACTOR CORE COOLANT PUMPS

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
B5.4	B-K-1	<u>INTEGRALLY WELDED SUPPORTS</u>					
		PUMP A	TWO	3	3	SUPPORT A	80A-88, 88R
						SUPPORT B	80A-89, 89R
			THREE	1	1	SUPPORT C	80A-99, 99R
						SUPPORT A	81-238
B5.5	B-K-2	<u>SUPPORT COMPONENTS*</u>					* COINCIDENT WITH SEISMIC BOLTING
		PUMP A	ONE	1	1	COLUMN 1 & PAD 1	77-131, 1, 146, 148
		COLUMN AND LATERAL SUPPORTS	TWO	1	1	COLUMN 1 & PAD 2	79-134, 135, 58, 109, 115, 131
			THREE	1	1	COLUMN 3 & PAD 3	83C-134, 133, 056
		PUMP B	ONE	1	1	COLUMN 1 & PAD 1	77-131, 2, 147, 149, 131
		COLUMN AND LATERAL SUPPORTS	TWO	1	1	COLUMN 2 & PAD 2	79-138, 139, 59, 108, 118, 130
			THREE	1	1	COLUMN 3 & PAD 3	83C-135, 138, 053
B5.6	B-L-1	<u>PUMP CASING WELDS</u>					
		PUMP A	-	-	-	-NONE-	
		PUMP B	THREE	1	-		
B5.7	B-L-2	<u>PUMP CASINGS</u>					
		PUMP A & B	THREE	1	-		
B5.8	B-P	<u>EXEMPTED COMPONENTS</u>	-	-	-	-NONE-	
B5.9	B-G-2	<u>PRESSURE RETAINING BOLTING (2 IN. DIA.)</u>					

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MAJOR ITEM: REACTOR CORE COOLANT PUMPS

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
-	-*	<u>PUMP FLYWHEELS</u> PUMP A & B	ONE TWO THREE	2 2 2	*2 2 2	PUMP-11, FLYWHEEL PUMP-12, FLYWHEEL PUMP-11, FLYWHEEL PUMP-12, FLYWHEEL PUMP-11, FLYWHEEL PUMP-12, FLYWHEEL	76-78, 79, 80 76-72, 73, 74 79-95, 96, 97 79-86, 87, 88 83C-061, 062, 063 83C-058, 059, 060 * BOTH FLYWHEELS WERE REMOVED AS A RESULT OF MODIFICATION TO THE PUMP LUBRICATION SYSTEM, THE BORE AND KEYWAYS WERE P.T. EXAMINED & THE REMAINING SURFACES WERE M.T. EXAMINED. U.T. WAS USED TO VOLUMET- RICALLY EXAMINE THE FLYWHEELS. (NOTE TEC SPEC 4.2-1)

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MAJOR ITEM: VALVE PRESSURE BOUNDARY

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
B6.1, B6.2 & B6.3	B-G-1	PRESSURE RETAINING BOLTS AND STUDS (2 IN. DIA.)	-	-	-	-NONE-	
B6.4	B-K-1	INTEGRALLY WELDED SUPPORTS	-	-	-	-NONE-	
B6.5	B-K-2	SUPPORT COMPONENTS	-	*	-	*INCLUDED IN TABLE 1.4 UNDER B4.10	
B6.6	B-M-1	VALVE BODY WELDS	-	-	-	-NONE-	
B6.7	B-M-2	VALVE BODIES (4 IN. NOM. PIPE SIZE)					
		REACTOR VESSEL SAFETY INJECTION LOH HEAD B	THREE	1	1	8843B	81-110
		RESIDUAL HEAT REMOVAL TAKE OFF A	THREE	1	-		
		PRESSURIZER SAFETY LINE A	THREE	1	-		
		RESIDUAL HEAT REMOVAL RETURN B	THREE	1	-		
		ACCUMULATOR DISCHARGE A	THREE	1	1	8840A	83C-079
B6.8	B-P	EXEMPTED COMPONENTS	*	100%	*	ITEMS INSPECTED DURING EACH LEAKAGE TEST	INSPECTED BY PLANT PERSONNEL

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 1

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S1.6PAGE 2 OF 4MAJOR ITEM: VALVE PRESSURE BOUNDARY

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
B6.9	B-G-2	<u>PRESSURE RETAINING BOLTING*</u>					* NOTE SUPPLEMENT B6.9 AT 3.4.3
		ACCUMULATOR DISCHARGE LOOP A - 12"	ONE THREE	16 16	16 16	CHECK, 8841A CHECK, 8840A	76-11 83C-122
		ACCUMULATOR DISCHARGE LOOP B - 12"	TWO THREE	16 16	16 16	CHECK, 8841B CHECK, 8840B	78-016 82-025
		RESIDUAL HEAT REMOVAL RETURN B - 10"	ONE	16	16	M.O. GATE, 8703	76-14
		RESIDUAL HEAT REMOVAL TAKE OFF A - 8"	ONE THREE	16 16	16 16	M.O. GATE, 8701A M.O. GATE, 8702A	76-8 81-91
		RESIDUAL HEAT REMOVAL TAKE OFF B - 8"	ONE ONE	16 16	16 16	M.O. GATE, 8701B M.O. GATE, 8702B	76-6 76-6
		SAFETY INJECTION HIGH HEAD B - 6"	TWO	12	12	CHECK, 8842A	79-37
		SAFETY INJECTION HIGH HEAD B - 6"	THREE	12	12	CHECK, 8842B	83C-047
		PRESSURIZER SPRAY LOOP A - 3"	THREE	8	8	A.O.GLOBE, PCV-431A	82-008
		PRESSURIZER SPRAY LOOP B - 3"	THREE	8	8	A.O.GLOBE, PCV-431B	81-137
		RESISTANCE TEMPERATURE DETECTOR RETURN LOOP A - 3"	ONE	12	12	GATE, 8001A	76-12

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE 51.6

PAGE 3 OF 4

MAJOR ITEM: VALVE PRESSURE BOUNDARY

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
B6.9	B-G-2	(CONT'D)					
		RESISTANCE TEMPERATURE DETECTOR RETURN LOOP B - 3"	ONE	12	12	GATE, 8001B	76-15
		RESISTANCE TEMPERATURE DETECTOR TAKE OFF COLD LEG A - 2"	TWO THREE	2 2	2 2	2T58, RC-1-7 2T58, RC-1-6	79-SP2-87 82-011
		RESISTANCE TEMPERATURE DETECTOR TAKE OFF COLD LEG B - 2"	TWO THREE	2 2	2 2	2T58, RC-1-17 2T58, RC-1-15	79-15 82-024
		RESISTANCE TEMPERATURE DETECTOR TAKE OFF HOT LEG A - 2"	TWO TWO THREE	2 2 2	2 2 2	2T58, RC-1-9 2T58, RC-1-10 2T58, RC-1-11	79-SP2-86 79-SP2-86 83C-046
		RESISTANCE TEMPERATURE DETECTOR TAKE OFF HOT LEG B - 2"	TWO TWO THREE	2 2 2	2 2 2	2T58, RC-1-13 2T58, RC-1-12 2T58, RC-1-14	79-17 79-SP2-88 82-007
		PRESSURIZER RELIEF LINES - 3"	TWO TWO THREE THREE	12 12 6 6	12 12 6 6	M.O. GATE, 8000A M.O. GATE, 8000B A.O. GATE, PCV-431C A.O. GATE, PCV-430	78-014 78-014 81-135 81-134
		REACTOR VESSEL SAFETY INJECTION LOW HEAD A - 6"	ONE TWO	12 12	12 12	CHECK, 8843A CHECK, 8844A	76-5 79-8
		LOW HEAD B - 6"	TWO THREE	12 12	12 12	CHECK, 8843B CHECK, 8844B	79-2 83C-093
		AUXILIARY SPRAY CVCS - 2"	THREE	6	6	A.O. GLOBE, 8143	82-009

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 1

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S1.6

PAGE 4 OF 4

MAJOR ITEM: VALVE PRESSURE BOUNDARY

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
B6.9	B-G-2	(CONT'D)					
		DRAIN LINE ON CROSSOVER A - 2"	TWO THREE	2 2	2 2	2T58, RC-1-1 2T58, RC-1-2	78-015 81-92
		DEAIN LINE ON CROSSOVER B - 2"	TWO THREE	2 2	2 2	2T58, RC-1-3 2T58, RC-1-4	79-9 81-119
		CHARGING LINE B - 2"	TWO	6	6	A.O. GLOBE, 8142	79-3
		LETDOWN LINE B - 2"	TWO TWO THREE	8 2 8	8 2 8	A.O. GLOBE, LCV-427 2T58, RC-1-5 A.O. GLOBE, LCV-428	79-11 79-10 81-115
		SEAL INJECTION A - 2"	ONE	2	2	2T58, VC-7-18	76-13
		SEAL INJECTION B - 2"	ONE	2	2	2T58, VC-7-19	76-16

COMPONENT/SYSTEM	NSP ISO	NDE METHOD	W BASELINE IDENT.	REPORT NO.	BASELINE INDICATIONS	ISI INDICATIONS	EXAMINATION LIMITATIONS
<u>REACTOR VESSEL</u>							
B1.3 <u>VESSEL-TO-FLANGE AND HEAD-TO-FLANGE CIRCUMFERENTIAL WELDS</u>							
HEAD-TO-FLANGE	49	UT	W-6	83C-113	NONE	LINEAR 50% FROM BOLT HOLE 23 TO 34	NONE
		UT		83C-115	S-2, SPOT 25%	NONE	S-1 LIMITED TO 6" BEST EFFORT (B.E.) ALL SCANS @ STUD HOLE 43 LIFTING LUG
		UT		83C-114	S-2, SPOT 25%	NONE	SAME AS ABOVE
B1.6 <u>NOZZLE-TO-SAFE END WELDS</u>							
REACTOR CORE COOLANT COLD LEG A	12	PT	RCC-A-14 S.E.	83C-009	NONE	1/16", 1/16" & 1/8" LINEARS	NONE
				83C-009R	N/A	NONE-BUFFED OUT	NONE
REACTOR CORE COOLANT COLD LEG B	13	PT	RCC-B-14 S.E.	83C-008	NONE	NONE	NONE
SAFETY INJECTION LOOP B	30	UT PT	W-1 S.E.	83C-010 83C-007	NONE NONE	NONE NONE	NONE NONE

COMPONENT/SYSTEM	NSP ISO	NDE METHOD	W BASELINE IDENT.	REPORT NO.	BASELINE INDICATIONS	ISI INDICATIONS	EXAMINATION LIMITATIONS
B1.11 <u>PRESSURE RETAINING BOLTING</u>							
CONOSEAL BOLTS	38	VT	MARMON CLAMP NO 37	83C-116	NONE	NONE	NONE
B1.13 <u>CLOSURE HEAD CLADDING</u>							
CLOSURE HEAD	39	VT VT	HCP-5 HCP-6	83C-111 83C-111	NONE NONE	NONE NONE	NONE NONE
<u>PRESSURIZER</u>							
B2.9 <u>VESSEL CLADDING</u>							
UPPER HEAD	--	VT	2 CLAD PATCHES	83C-102	NONE	NONE	NONE
B2.11 <u>PRESSURE RETAINING BOLTING</u>							
MANWAY BOLTS	42	UT MT	BOLTS 1 THRU 16	83C-112 83C-106	NONE N/A	NONE NONE	NONE NONE
<u>STEAM GENERATOR</u>							
B3.3 <u>NOZZLE-TO-SAFE END WELDS</u>							
STEAM GENERATOR NO. 11	12	UT	RCC-A-4 S.E.	83C-123	N/A	NONE	NO S-2 NOZZLE S-1 LIMITED MACHINING

COMPONENT/SYSTEM	NSP ISO	NDE METHOD	W BASELINE IDENT.	REPORT NO.	BASELINE INDICATIONS	ISI INDICATIONS	EXAMINATION LIMITATIONS
S/G NO. 11 (CONT'D)							
		PT		83C-084	N/A	1/8" LINEAR, (2) 1/4" ROUNDED ACCEPT PER IWB-3514	NONE
STEAM GENERATOR NO 12	13	UT	RCC-B-4 S.E.	83C-092	N/A	NONE	NO S-2 NOZZLE S-1 LIMITED MACHINING
B3.10 <u>PRESSURE RETAINING BOLTING</u>							
MANWAY BOLTS S/G NO. 11	43	UT MT	INLET	83C-032 83C-036	NONE NONE N/A	NONE LINEARS BOLTS REPLACED	NONE NONE
		UT MT	OUTLET	83C-032 83C-036	NONE NONE N/A	NONE LINEARS BOLTS REPLACED	NONE NONE
MANWAY BOLTS S/G NO 12	43	UT MT	INLET	83C-033 83C-037	NONE NONE N/A	NONE LINEARS BOLTS REPLACED	NONE NONE
		UT MT	OUTLET	83C-033 83C-037	NONE NONE N/A	NONE LINEARS BOLTS REPLACED	NONE NONE

COMPONENT/SYSTEM	NSP ISO	NDE METHOD	W BASELINE IDENT.	REPORT NO.	BASELINE INDICATIONS	ISI INDICATIONS	EXAMINATION LIMITATIONS
PIPING PRESSURE BOUNDARY							
B4.5 <u>SAFE END-TO-PIPING AND SAFE END IN BRANCH PIPING WELDS</u>							
REACTOR CORE COOLANT COLD LEG A	12	PT	RCC-A-14 S.E.	83C-009 83C- 009R	N/A	3 LINEARS NONE-BUFFED OUT	NONE NONE
REACTOR CORE COOLANT COLD LEG B	13	PT	RCC-B-14 S.E.	83C-008	NONE	NONE	NONE
REACTOR CORE COOLANT HOT LEG A	12	UT	RCC-A-4 S.E.	83C-123	N/A	NONE	NO S-2 NOZZLE S-1 LIMITED MACHINING NONE
		PT		83C-084	N/A	NONE	
REACTOR CORE COOLANT HOT LEG B	13	UT	RCC-B-4 S.E.	83C-092	N/A	NONE	NO S-2 NOZZLE S-1 LIMITED MACHINING NONE
		PT		83C-083	N/A	NONE	
B4.5 <u>CIRCUMFERENTIAL AND LONGITUDINAL PIPING WELDS</u>							
SEAL INJECTION LOOP A	11C	UT	W-35	83C-071	NONE	S-1, ID GEO; 50% S-1, OD GEO; 20% S-2, OD GEO; 20%	S-1 B.E., 2:00 TO 4:00 ELBOW INNER RADIUS (E.I.R.)

COMPONENT/SYSTEM	NSP ISO	NDE METHOD	W BASELINE IDEN..	REPORT NO.	BASELINE INDICATIONS	ISI INDICATIONS	EXAMINATION LIMITATIONS
B4.5 (CONT'D)							
CHARGING LINE	10	UT	W-29A	83C-070	NONE	S-1, ID GEO; 20% S-2, OD GEO; 30% S-2, ID GEO; 20%	S-1 B.E., 10:00 TO 2:00 "T" FITTING
		UT	W-32	83C-069	NONE	NONE	S-1 B.E., 10:00 TO 2:00 "T" FITTING NO S-7 CONFIGURATION
RTD COLD LEG A	7	UT	W-10	83C-042	NONE	S-1, OD GEO; 29% S-2, OD GEO; 29%	NO S-2, 4:30 TO 7:30 EIR
RTD COLD LEG B	22	UT	W-18	83C-067	NONE	S-1, OD GEO; 19%	S-1, B.E. 6:00 TO 12:00 EIR
RTD HOT LEG A	8	UT	W-15A	83C-043	N/A	NONE	NO SCANS 4:30 TO 7:30 HANGER
		UT	W-16	83C-044	NONE	S-1, OD GEO; 100% S-2, OD GEO; <20%	NO S-2, 3:00 TO 7:00 RESTRAINT S-3,4 LIMITED RESTRAINT
RTD HOT LEG B	23	UT	W-11	83C-065	N/A	S-2, GEO; 20%-100%	NO S-1 CONFIGURA- TION NO SCANS 4:00 to 8:00 BRANCH CONNECTION
		UT	W-21	83C-066	NONE	S-1, ID GEO; 24% S-1, OD GEO; 24% S-2, OD GEO; 21%	NONE

COMPONENT/SYSTEM	NSP ISO	NDE METHOD	W BASELINE IDENT.	REPORT NO.	BASELINE INDICATIONS	ISI INDICATIONS	EXAMINATION LIMITATIONS
B4.5 (CONT'D)							
SPRAY TO PRESSURIZER	5B	UT	W-21	83C-105	NONE	S-4, OD GEO; 29% @ 1:00	NONE
		UT	W-23	83C-104	NONE	S-3, OD GEO; 21% @ 10:00 S-4, OD GEO; 28% @ 10:00	NONE
RTD RETURN B	21	UT	W-6	83C-078	NONE	S-2, GEO; 50% BEAM REDIRECTION	NO S-1 4:00 TO 8:00 EIR; S-3 & 4 LIMITED HANGER
SAFETY INJECTION LOW HEAD LOOP B	30	UT	W-4	83C-090	NONE	NONE	S-2 B.F., 10:00 TO 2:00 EIR
SAFETY INJECTION HIGH HEAD LOOP B	20	UT	W-2	83C-103	NONE	NONE	NO S-1 VALVE
PRESSURIZER SAFETY LINE B	29	UT	W-5	83C-015	N/A	S-1, ID GEO; 25%	NONE
PLO-CAP A	46	UT	W-1	83C-045	NONE	NONE	NO S-1 TAPER
RHR RETURN B	18	UT	W-2	83C-068	NONE	S-1, ID GEO; 40%	NONE
PRESSURIZER SURGE	28	UT	W-1	83C-119	50%-100% ID GEO 360	S-2, ID/OD GEO; 50%	NO S-1 REDUCER
ACCUMULATOR DISCHARGE LOOP B	17	UT	W-8	83C-072	N/A	NONE	NONE
		UT	W-11	83C-073	NONE	S-1, ID GEO; 20%	NONE

COMPONENT/SYSTEM	NSP ISO	NDE METHOD	W BASELINE IDENT.	REPORT NO.	BASLINE INDICATIONS	ISI INDICATIONS	EXAMINATION LIMITATIONS
B4.5 (CONT'D)							
REACTOR CORE COOLANT COLD LEG A	12	UT	RCC-A-11	83C-012	ID GEO 30 TO 50%	NONE	NO S-1 PUMP
REACTOR CORE COOLANT HOT LEG A	12	UT	RCC-A-3	83C-124	ID GEO 30 TO 50%	S-1, ID GEO; 100%	S-2 LIMITED MACHINING
REACTOR CORE COOLANT CROSSOVER A	12	UT	RCC-A-9	83C-011	ID GEO 30 to 50%	NONE	S-2 LIMITED ELBOW
B4.6 BRANCH PIPE CONNECTION WELDS EXCEEDING SIX INCH DIAMETER							
PRESSURIZER SURGE	28	UT	W-k	83C-120	NONE	NONE	NONE
B4.7 BRANCH PIPE CONNECTION WELDS SIX INCH DIA- METER AND SMALLER							
SAFETY INJECTION HIGH HEAD LOOP A	4	PT	W-R	83C-026	NONE	NONE	NONE
B4.8 SOCKET WELDS							
CHARGING LINE CVCS	7	PT	W-12	83C-025	N/A	NONE	NONE
RTD COLD LEG A	22	PT	W-10	83C-055	N/A	NONE	NONE
RTD COLD LEG A	7	PT	M21	83C-023	N/A	GOUGE	NONE
				83C-023R1	N/A	LINEAR AFTER WELDING	NONE
				83C-023R2	N/A	NONE-BUFFED OUT	NONE

COMPONENT/SYSTEM	NSP ISO	NDE METHOD	W BASELINE IDENT.	REPORT NO.	BASELINE INDICATIONS	ISI INDICATIONS	EXAMINATION LIMITATIONS
B4.8 (CONT'D)							
RTD HOT LEG A	8	PT	M13	83C-024 83C- 024R1 83C- 024R2	N/A N/A N/A	ARC STRIKES LINEAR NONE-BUFFED OUT	NONE NONE NONE
B4.10 SUPPORT COMPONENTS							
REACTOR CORE COOLANT CROSSOVER A	12	VT	A ₂	83C-021	N/A	NONE	NONE
REACTOR CORE COOLANT COLD LEG A	12	VT	A ₃	83C-013	NONE	LOOSE BOLT; NO ACTION TAKEN RE-ANALYZED, NOT NEEDED FOR FUNCTIONABILITY	ACCESSIBLE SIDE ONLY
RTD RETURN A	6	VT	B	83C-020	N/A	NONE	NONE
RTD COLD LEG A	7	VT	E	83C-018	N/A	NONE	NONE
		VT	F	83C-017	N/A	NONE	NONE
RTD HOT LEG A	8	VT	C	83C-016	N/A	NONE	NONE
		VT	D	83C-019	N/A	NONE	NONE
REACTOR CORE COOLANT CROSSOVER B	13	VT	B ₂	83C-049	N/A	NONE	NONE
REACTOR CORE COOLANT COLD LEG B	13	VT	B ₃	83C-014	NONE	NONE	ACCESSIBLE SIDE ONLY

COMPONENT/SYSTEM	NSP ISO	NDE METHOD	W BASELINE IDENT.	REPORT NO.	BASELINE INDICATIONS	ISI INDICATIONS	EXAMINATION LIMITATIONS
B4.10 (CONT'D)							
RHR RETURN B	21	VT	B	83C-050	NONE	NONE	NONE
RTD COLD LEG B	22	VT	E	83C-027	N/A	BENT PLATE NO ACTION TAKEN RE-ANALYZED	NONE
		VT	F	83C-051	N/A	NONE	NONE
SAFETY INJECTION HIGH HEAD LOOP B	24	VT	C	83C-052	NONE	NONE	NONE
PRESSURIZER SURGE	28	VT	F	83C-074	N/A	NONE	NONE
		VT	G	83C-075	N/A	NONE	NONE
		VT	H	83C-076	N/A	NONE	NONE
		VT	I	83C-077	N/A	NONE	NONE
REACTOR VESSEL SAFETY INJECTION LOW HEAD B	30	VT	B2	83C-099	N/A	NONE	NONE
B4.12 <u>PRESSURE RETAINING BOLTING</u>							
RTD RETURN A	6	VT	FLANGE BOLTS	83C-022	NONE	NONE	NONE
RTD RETURN B	21	VT	FLANGE BOLTS	83C-048	NONE	NONE	NONE

COMPONENT/SYSTEM	NSP ISO	NDE METHOD	W BASELINE IDENT.	REPORT NO.	BASELINE INDICATIONS	ISI INDICATIONS	EXAMINATION LIMITATIONS
<u>REACTOR CORE COOLANT PUMPS</u>							
B5.1 <u>PRESSURE RETAINING BOLTING, IN PLACE</u>							
FLANGE BOLTS RCP NO 11	14	UT	BOLTS 1-24	83C-143	NONE	NONE	NONE
FLANGE BOLTS RCP NO 12	34	UT	BOLTS 1-24	83C-144	NONE	NONE	NONE
B5.2 <u>PRESSURE RETAINING BOLTING, WHEN REMOVED</u>							
SEAL HOUSE BOLTS RCP NO 11	15	UT	UPPERS	83C-028	NONE	NONE	NO S-2 CONFIGURA- TION NONE
		MT		83C-035	NONE	NONE	
	15	UT	LOWERS	83C-030	NONE	NONE	NO S-2 CONFIGURA- TION NONE
		MT		83C-034	NONE	NONE	
SEAL HOUSE BOLTS RCP NO 12	35	UT	UPPERS	83C-029	NONE	NONE	NO S-2 CONFIGURA- TION NONE
		MT		83C-038	NONE N/A	LINEARS BOLTS REPLACED	
SEAL HOUSE BOLTS RCP NO 12	35	UT	LOWERS	83C-031	NONE	NONE	NO S-2 CONFIGURA- TION NONE
		MT		83C-039	NONE N/A	LINEARS BOLTS REPLACED	

COMPONENT/SYSTEM	NSP ISO	NDE METHOD	W BASELINE IDENT.	REPORT NO.	BASELINE INDICATIONS	ISI INDICATIONS	EXAMINATION LIMITATIONS
<u>FLYWHEELS</u>							
REACTOR CORE COOLANT PUMP NO. 11	16	UT UT UT	KEYWAY PERIPHERY FLYWHEEL	83C-062 83C-063 83C-061	NONE NONE NONE	NONE NONE NONE	NONE NONE NONE
REACTOR CORE COOLANT PUMP NO. 12	16	UT UT UT	KEYWAY PERIPHERY FLYWHEEL	83C-059 83C-060 83C-058	NONE NONE NONE	NONE NONE NONE	NONE NONE NONE
<u>VALVES</u>							
B6.7 <u>VALVE BODY INTERIORS</u>							
ACCUMULATOR DISCHARGE A	2	VT	8840A	83C-079	N/A	MINOR SURFACE IRREGULARITIES NOT DETRIMENTAL TO OPERATIONAL FUNCTIONS	NONE
B6.9 <u>PRESSURE RETAINING BOLTING</u>							
ACCUMULATOR DISCHARGE A	2	VT	8840A	83C-122	NONE	NONE	NONE
SAFETY INJECTION HIGH HEAD B	20	VT	8842B	83C-047	NONE	NONE	NONE
RTD HOT LEG A	8	VT	RC-1-11	83C-046	NONE	NONE	NONE
REACTOR VESSEL SAFETY INJECTION LOW HEAD B	30	VT	8844B	83C-093	N/A	NONE	NONE

NORTHERN STATES POWER CO.
PRAIRIE ISLAND UNIT 1
ISOMETRIC SUMMARY - CLASS 1

TABLE III
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NSP ISO NUMBER	REVISION	COMPONENT OR SYSTEM	LOOP	LINE SIZE	LINE NUMBER	UT - CAL. STANDARD
ISI-1	0	CHARGING LINE (GENERAL VIEW)	B	-	-	-
ISI-1A	0		B	2"	2-RC-17	3
ISI-1B	0		B	2"	2-RC-17	3
ISI-1C	0		B	2"	2-VC-5	3
ISI-1D	0		B	2"	2-VC-5	3
ISI-1E	0		B	2"	2-VC-6	3
ISI-1F	0		B	2"	2-VC-6	3
ISI-2	0	ACCUMULATOR DISCHARGE	A	12"	12-RC-16A	11
			A	12"	12-SI-27A	11
ISI-3	0	RHR TAKEOFF (GENERAL VIEW)	A	8"	-	-
ISI-3A	0		A	8"	8-RC-15A	8
ISI-3B	0		A	8"	8-RH-1A	8
ISI-3C	0		A	8"	8-RH-1A	8
ISI-4	0	SAFETY INJECTION HIGH HEAD	A	6"	6-RC-13B	6
ISI-5	0	SPRAY TO PRESSURIZER (GENERAL VIEW)	A&B	3"	-	-
ISI-5A	0		A	3"	3-RC-5	4
ISI-5B	0		A	3"	3-RC-5	4
ISI-5C	0		A	3"	3-RC-5	4
ISI-5D	0		B	3"	3-RC-5	4
ISI-6	0	RTD RETURN	A	3"	3-RC-6A	4
ISI-7	0	RTD TAKEOFF COLD LEG	A	2"	2-RC-8A	3
ISI-8	0	RTD TAKEOFF HOT LEG	A	2"	2-RC-7A	3
ISI-9	0	SAFETY INJECTION HIGH HEAD	A	2"	2-SI-35A	3
ISI-10	0	DRAIN ON CROSSOVER	A	2"	2-RC-10A	3
			A	2"	2-RC-11A	3

NORTHERN STATES POWER CO.
PRAIRIE ISLAND UNIT 1
ISOMETRIC SUMMARY

TABLE III
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NSP ISO NUMBER	REVISION	COMPONENT OR SYSTEM	LOOP	LINE SIZE	LINE NUMBER	UT - CAL. STANDARD
ISI-11	0	SEAL INJECTION (GENERAL VIEW)	A	1½"×2"	-	-
ISI-11A	0		A	1½"	1½-VC-21A	1
ISI-11B	0		A	2"	2-VC-21A	3
ISI-11C	0		A	2"	2-VC-21A	3
ISI-11D	0		A	2"	2-VC-21A	3
ISI-12	0	REACTOR COOLANT	A	29"	29-RC-1A	14-A
			A	31"	31-RC-2A	14-A
			A	27½"	27½-RC-3A	14-A
ISI-13	0	REACTOR COOLANT	B	29"	29-RC-1B	14-A
			B	31"	31-RC-2B	14-A
			B	27½"	27½-RC-3B	14-A
ISI-14	0	R.C. PUMP A FLANGE BOLTING	A	-	-	-
ISI-15	0	R.C. PUMP A SEAL HOUSING BOLTING	A	-	-	-
ISI-16	0	R.C. PUMP A FLYWHEEL	A	-	-	-
ISI-17	0	ACCUMULATOR DISCHARGE	B	12"	12-RC-16B	11
			B	12"	12-SI-27B	11
ISI-18	0	RHR RETURN	B	10"	10-SI-26	10
ISI-19	0	RHR TAKEOFF (GENERAL VIEW)	B	8"	-	-
ISI-19A	0		B	8"	8-RH-1B	8
ISI-19B	0		B	8"	8-RC-15B	8
ISI-20	0	SAFETY INJECTION HIGH HEAD	B	6"	6-RC-13D	6
ISI-21	0	RTD RETURN	B	3"	3-2C-6B	4
ISI-22	0	RTD TAKEOFF COLD LEG	B	2"	2-RC-8B	3

NORTHERN STATES POWER CO.
PRAIRIE ISLAND UNIT 1
ISOMETRIC SUMMARY

TABLE III
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NSP ISO NUMBER	REVISION	COMPONENT OR SYSTEM	LOOP	LINE SIZE	LINE NUMBER	UT - CAL. STANDARD
ISI-23	0	RTD TAKEOFF HOT LEG	B	2"	2-RC-7B	3
ISI-24	0	SAFETY INJECTION HIGH HEAD	B	2"	2-SI-35B	3
ISI-25	0	CROSSOVER DRAIN	B	2"	2-RC-10B	3
			B	2"	2-RC-11B	3
ISI-26	0	CVCS LETDOWN	B	2"	2-RC-12	3
ISI-27	0	SEAL INJECTION (GENERAL VIEW)	B	1 1/2" x 2"	-	-
ISI-27A	0		B	1 1/2"	1 1/2-VC-21B	1
ISI-27B	0		B	2"	2-VC-21B	1
ISI-27C	0		B	2"	2-VC-21B	1
ISI-28	0	PRESSURIZER SURGE	B	10"	10-RC-4	10
ISI-29	0	PRESSURIZER SAFETY	A	6"	6-RC-20A	6
			B	6"	6-RC-20B	6
ISI-30	0	REACTOR VESSEL SAFETY INJECTION	A	4"	4-RC-14A	5
			A	6"	6-RC-14A	6
			A	6"	6-SI-25A	6
			B	4"	4-RC-14B	5
			B	6"	6-RC-14B	6
			B	6"	6-SI-25B	6
ISI-31	0	PRESSURIZER RELIEF	A&B	3"	3-RC-21	4
ISI-32	0	AUXILIARY SPRAY	-	2"	2-RC-19	3
			-	2"	2-VC-4	3
ISI-33	0	REACTOR VESSEL SAFETY INJECTION	A	2"	2-SI-24A	3
			B	2"	2-SI-24B	3
ISI-34	0	R.C. PUMP B FLANGE BOLTING	B	-	-	-

NORTHERN STATES POWER CO.
PRAIRIE ISLAND UNIT 1
ISOMETRIC SUMMARY

TABLE III
PAGE 4 OF 4

NSP ISO NUMBER	REVISION	COMPONENT OR SYSTEM	LOOP	LINE SIZE	LINE NUMBER	UT - CAL. STANDARD
ISI-35	0	R.C. PUMP B SEAL HOUSING BOLTING	B	-	-	-
ISI-36	0	R.C. PUMP B FLYWHEEL	B	-	-	-
ISI-37	0	REACTOR VESSEL STUDS, NUTS, AND WASHERS	-	-	-	STUDS-17
ISI-38	0	REACTOR VESSEL CONOSEAL BOLTING	-	-	-	-
ISI-39	0	REACTOR VESSEL CLOSURE HEAD CLAD PATCHES	-	-	-	-
ISI-40	0	REACTOR VESSEL CLAD PATCH IDENTIFICATION	-	-	-	-
ISI-41	0	PRESSURIZER	-	-	-	25A/16
ISI-42	0	PRESSURIZER SAFETY AND RELIEF NOZZLES	-	-	-	-
ISI-43	0	STEAM GENERATORS	A&B	-	-	25A
ISI-44	0	REGENERATIVE HEAT EXCHANGER	-	-	-	6
ISI-45	0	EXCESS LETDOWN HEAT EXCHANGER	-	-	-	6
ISI-46	0	PLO-CAP	A	6"	6-RC-13A	6
ISI-47	0	PLO-CAP	B	6"	6-RC-13C	6
ISI-48	0	REACTOR VESSEL SHELL WELDS	-	-	-	-
ISI-49	0	REACTOR VESSEL CLOSURE HEAD WELD	-	-	-	25A
ISI-50	0	REACTOR VESSEL NOZZLE ORIENTATION	-	-	-	-

APPENDIX B
ASME CLASS 2 EXAMINATION

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S2.1.1

PAGE 1 OF 2

MAJOR ITEM: PRESSURE VESSELS-STEAM GENERATOR

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
C1.1	C-A	<u>CIRCUMFERENTIAL BUTT WELDS*</u>				* (3 AREAS, EQUALLY DIVIDED)	
		STEAM GENERATOR NO. 11					
		WELD B	TWO	153"	153"	0" TO 60", 108" TO 144", 255" TO 312"	80A-54, 70, 71
		WELD F	THREE	-	552" 28"	W-F 100% W-F 121" TO 149"	82-037,054,066,095 83C-085, 086, 087
		STEAM GENERATOR NO. 12					
		WELD H	THREE	111"	137.3"	W-H 0" TO 46", 191.7" TO 245", 345" TO 383"	82-116, 119, 121
		WELD F	THREE	-	552"	W-F 100%	82-035,036,046,048
C1.2	C-B	<u>NOZZLE TO VESSEL WELDS</u>					
		STEAM GENERATOR NO. 11					
		MAIN STREAM NOZZLE	-	-	-		
		FEEDWATER NOZZLE	-	-	-		
		STEAM GENERATOR NO. 12					
		MAIN STEAM NOZZLE	THREE	1	1	N-4	82-118, 120, 122
		FEEDWATER NOZZLE	-	-	-		
C1.3	C-C	<u>INTEGRALLY WELDED SUPPORTS</u>	-	-	-	-NONE-	
C1.4	C-D	<u>PRESSURE RETAINING-BOLTING</u>					
		STEAM GENERATOR NO. 11					
		MANWAY A BOLTING	TWO	20	20	(V&UT)	80A-47
		MANWAY B BOLTING	-	-	-		

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 1

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S2.1.1PAGE 2 OF 2

MAJOR ITEM: PRESSURE VESSELS-STEAM GENERATOR

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
C1.4	C-D	(CONT'D) STEAM GENERATOR NO. 12 MANWAY A BOLTING MANWAY B BOLTING	- THREE	- 20 2 (MIN)	- 20 20	 (V) (UT)	 83C-146 83C-146

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S2.1.2
 PAGE 1 OF 1
 MAJOR ITEM: PRESSURE VESSELS-ACCUMULATORS

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
C1.1	C-A	<u>CIRCUMFERENTIAL BUTT WELDS*</u> ACCUMULATOR NO. 11 WELD 6 ACCUMULATOR NO. 12	THREE -	20% -	- -	* (3 AREAS EQUALLY DIVIDED)	
C1.2	C-B	<u>NOZZLE TO VESSEL WELDS</u> ACCUMULATOR NO. 11 ACCUMULATOR NO. 12	- -	- -	- -		
C1.3	C-C	<u>INTERNALLY WELDED SUPPORTS</u> ACCUMULATOR NO. 11 ACCUMULATOR NO. 12	- -	- -	- -		
C1.4	C-D	<u>PRESSURE RETAINING BOLTING</u> ACCUMULATOR NO. 11 ACCUMULATOR NO. 12	- THREE	- 24	- 24		82-115

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 1

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S2.1.3PAGE 1 OF 1MAJOR ITEM: PRESSURE VESSELS-RHR HEAT EXCHANGERS

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
C1.1	C-A	<u>CIRCUMFERENTIAL BUTT WELDS*</u> RHR HEAT EXCHANGER NO. 11 RHR HEAT EXCHANGER NO. 12	- -	- -	- -	* (3 AREAS EQUALLY DIVIDED)	
C1.2	C-B	<u>NOZZLE TO VESSEL WELDS</u> RHR HEAT EXCHANGER NO. 11 RHR HEAT EXCHANGER NO. 12	- -	- -	- -		
C1.3	C-C	<u>INTERNALLY WELDED SUPPORTS</u> RHR HEAT EXCHANGER NO. 11 RHR HEAT EXCHANGER NO. 12	THREE -	1 -	1 -	SUPPORT A	81-4, 51
C1.4	C-D	<u>PRESSURE RETAINING BOLTING</u> RHR HEAT EXCHANGER NO. 11 RHR HEAT EXCHANGER NO. 12	- THREE	- 1	- 1	28 FLANGE BOLTS	81-24

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT

INSERVICE INSPECTION-EXAMINATION SUMMARY

S2.1.4

 TABLE 1
 PRESSURE VESSELS-BORIC ACID TANKS
 PAGE 1 OF 1

MAJOR ITEM:

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
C1.1	C-A	<u>CIRCUMFERENTIAL BUTT WELDS*</u> BORIC ACID TANK NO. 11 BORIC ACID TANK NO. 121	THREE - THREE	- - -	66' - 7'	* (3 AREAS EQUALLY DIVIDED) WELD 1, WELD 2 LONGITUDINAL SEAM	83-163, 164 83-95
C1.2	C-B	<u>NOZZLE TO VESSEL WELDS</u> BORIC ACID TANK NO. 11 BORIC ACID TANK NO. 121	THREE -	- -	2'-1" -	WELD 3	83-165
C1.3	C-C	<u>INTERIALLY WELDED SUPPORTS</u> BORIC ACID TANK NO. 11 BORIC ACID TANK NO. 121	- THREE	1 1	1 1	SUPPORT A SUPPORT A	81-46, 47 81-70, 71
C1.4	C-D	<u>PRESSURE RETAINING BOLTING</u> BORIC ACID TANK NO. 11 BORIC ACID TANK NO. 121	THREE -	16 -	16 -	BOLTS 1 THRU 16	81-34

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S2.2.1

PAGE 1 OF 8

MAJOR ITEM: PIPING-CIRCUMFERENTIAL BUTT WELDS

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
C2.1	C-G	<u>CIRCUMFERENTIAL BUTT WELDS</u>					
		MAIN STEAM A 32-MS-1	-	-	-		
		MAIN STEAM B 32-MS-2	-	-	-		
		MAIN STEAM A 30-MS-1	TWO	1	1	MS-7	79-125, 128
		MAIN STEAM B 30-MS-2	-	-	-		
		MAIN STEAM A 31-MS-1	ONE	1	1	MS-12	77-25, 30
		MAIN STEAM B 31-MS-2	-	-	-		
		MAIN STEAM A RELIEF HDR, 30-MS-1	-	-	-		
		MAIN STEAM B RELIEF HDR, 30-MS-2	THREE	1	1	MS-186	81-162, 189
		MAIN STEAM A 6-MS-1	TWO	4	4	MS-147 MS-148 MS-149 MS-150	80A-1, 14 80A-3, 13 80A-2, 12 80A-10, 34
		MAIN STEAM B 6-MS-2	ONE TWO	1 4	1 4	MS-136 MS-135 MS-136 MS-137 MS-138	77-22, 8 80A-4, 16 80A-7, 17 80A-5, 15 80A-6, 44

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PRAIRIE ISLAND UNIT 1

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S2.2.1PAGE 2 OF 8

MAJOR ITEM: PIPING-CIRCUMFERENTIAL BUTT WELDS

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
C2.1	C-G	(CONT'D) FEEDWATER A 16-FW-12 16-FW-13	THREE TWO	1 18	2 19	FW-144, 164 FW-147 FW-161, 162 FW-164 FW-164 FW-164 FW-148 FW-149 FW-150 FW-227 FW-151 FW-152 FW-153 FW-154 FW-155 FW-156 FW-157 FW-158 FW-159 FW-159 Baseline FW-159 FW-160 FW-213 FW-161 FW-162 FW-164	81-144,179,90,75,87 79-129 79-SP-5,4 79-SP-2,1/80A-26, 78 81-104 82-029, 068, 087 83C-001, 001R, 003, 006, 117 79-SP2-1,72,74,105 79-SP2-1,9,60,106 79-SP2-1,10,61,107 79-SP2-6,6R,11,65, 108/80A-31, 50 79-SP2-1,12,64,109 79-SP2-1,13,69,110 79-SP2-5,14,68,111 79-SP2-1,15,67,112 79-SP2-1,16,71,113 79-SP2-1,17R,85,114 79-SP2-1,4,55,115 79-SP2-1,21,59,116 79-SP2-7,7R,22,52, 117, 97, 98, 99 79-SP2-103,104,118 80A-24, 48 79-SP2-8R,23,63,119/ 80A-25, 49 79-SP2-2,53,24,120 79-SP2,2,25,57,121 79-SP2-2,26,56,122 79-SP2-2,28,58,123
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NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT

INSER/ICE INSPECTION-EXAMINATION SUMMARY

TABLE S2.2.1

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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	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
C2.1	C-G	(CONT'D)					
		FEEDWATER B					
		16-FW-15	ONE	1	1	FW-220	77-15, 9
		16-FW-16	TWO	4	4	FW-214, FW-216 FW-214 FW-216	79-SP-7, 8, 1 79-SP2-19, 32, 70 79-SP2-19, 30, 79, 125/ 80A-23, 51, 52, 105
			THREE	-	-	FW-216 FW-216 FW-216	81-89, 76, 76R, 88 82-023, 030, 030R, 067, 088 83C-002, 002R, 004, 005, 118
		FEEDWATER A					
		(8 IN) 3-AF-11	TWO	2	2	FW-165, AFW-202 FW-165, AFW-202	79-SP-17, 18 79-SP2-127, 128
		FEEDWATER B					
		(8 IN) 3-AF-12	TWO	2	2	FW-127, AFW-129 FW-127, AFW-129	79-SP-19, 20 79-SP2-129, 130
		REFUELING WATER STORAGE TANK DISCHARGE					
		14-SI-1	TWO THREE	1 1	1 1	W-195 W-178	80-60 81-198
		12-SI-3A	TWO THREE	2 2	2 4	W-186, W-261 W-184, W-261, 186 W-187	80-54, 55 83-82, 104, 40 83-67, 105, 68, 116 83-69, 117
		12-SI-3B	TWO THREE	1 1	1 4	W-194 W-194, 258 W-191, 190	80-56 83-74, 122, 73, 121 83-71, 120, 72, 119

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S2.2.1

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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	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
C2.1	C-G	(CONT'D)					
		12-SI-11	THREE	1	1 7	W-187 W-188, 189 W-100, 101 W-102, 103 W-104 W-104	81-30 83-070, 118, 83, 161 83-84, 129, 85, 123 83-86, 124, 90, 128 83-89, 125 83B-002, 006
		12-SI-4	TWO THREE	1 1	1 1	W-196 W-202	80-57 82-076, 092
		10-SI-8 STREAM 1 STREAM 2	TWO THREE	1 -	1 1	W-206 W-213	80-50 82-089, 090
		CONTAINMENT SUMP B DISCHARGE LINES					
		14-SI-33A 14-SI-33B	- -	- -	- -		
		12-SI-34A 12-SI-34B	- TWO	- 1	- 1	W-5	80-82
		ALTERNATE CONTAINMENT SPRAY PUMP SUCTION					
		6-RH-10A BRANCH 1 BRANCH 2	TWO TWO	1 2	1 2	W-269 W-5 W-7	80-53 80-65 80-67
		6-RH-10B BRANCH 1	TWO THREE	2 2	2 2	W-230, W-270 W-229, W-283	80-52, 51 81-66, 65

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 1

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S2.2.1

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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	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
C2.1	C-G	(CONT'D)					
		BRANCH 2	TWO THREE	2 1	2 1	W-113, W-128 W-129	80-33, 66 81-64
		RESIDUAL HEAT REMOVAL DISCHARGE					
		12-RH-6A	TWO	1	1	W-17	80-81
		12-RH-6B	TWO	1	1	W-6	80-83
		8-RH-9A	TWO	1	1	W-112	80-46
		8-RH-9B	TWO THREE	2 1	2 1	W-195, W-193 W-243	80-21, 22 81-45
		8-RH-7A	TWO	1	2	W-88, 89	80-49, 47
		9-RH-7B	TWO	3	3	W-138, W-206, W-143	80-19, 23, 20
		SAFETY INJECTION PUMPS SUCTION					
		6-SI-13A	TWO	1	1	W-17W	80-3
		6-SI-13B	TWO	2	2	W-134, 141W	80-58, 2
		8-SI-17	TWO THREE	2 1	2 1 4	W-239, W-99 W-98 W-99, 239 W-98, 97	80-97, 95 81-32 83-55, 61, 54, 60 83-56, 59, 51, 58
		8-SI-18	TWO THREE	7 2	7 2 56	W-243, 235, 236 W-74, 75, 80, 81 W-68/W-58 W-92, 91 W-238, 86W W-85, 243 W-94, 237	80-96, 99, 104 80-106, 107, 105, 103 81-67/83-98, 42 83-52, 20, 48, 19 83-49, 18, 32, 17 83-34, 46, 53, 62 83-57, 63, 64, 141

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S2.2.1

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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	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
C2.1	C-G	(CONT'D)				W-88, 87 W-235, 83 W-234, 236 W-81, 80 W-79, 78 W-76, 77 W-75, 74 W-73, 72 W-71, 70 W-233, 69 W-68, 67 W-66, 64 W-63, 62 W-61, 60 W-59, 58 W-57, 242 W-52, 51 W-50, 53 W-277, 278 W-279, 280 W-281, 282 W-54, 46 W-47, 48 W-49, 55 W-282, 235 W-92, 59 W-66, 73 W-75, 77 W-78	83-65, 140, 66, 47 83-33, 50, 28, 26 83-24, 25, 23, 16 83-22, 15, 21, 14 83-12, 9, 11, 7 83-10, 3, 2, 4, 5 83-6, 8, 75, 142 83-87, 143, 88, 147 83-91, 149, 92, 150 83-93, 155, 94, 156 83-101, 152, 102, 153 83-103, 154, 97, 29 83-96, 27, 81, 30 83-80, 31, 79, 35 83-78, 36, 77, 37 83-41, 38, 76, 39 83-145, 139, 127, 138 83-115, 151, 126, 137 83-111, 136, 110, 135 83-109, 134, 108, 44 83-107, 133, 100, 132 83-99, 131, 148, 159 83-112, 157, 113, 158 83-114, 160, 45, 43 83A-009, 016, 001, 004 83A-003, 005, 007, 014 83A-008, 015, 010, 017 83A-011, 018, 012, 019 83A-013, 020
		8-VC-71A	-	-	-		
		8-VC-71B	-	-	-		

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 1

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S2.2.1

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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	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
C2.1	C-G	(CONT'D)					
		RESIDUAL HEAT REMOVAL SUCTION					
		10-SI-9A	-	-	-		
		10-SI-9B	TWO	1	1	W-39W	80-10
		ACCUMULATOR DISCHARGE LINES					
		12-SI-28A	ONE	1	1	SI-1317	77-35, 56
		12-SI-26B	-	-	-		
		12-SI-29A	-	-	-		
		12-SI-29B	TWO	1	1	SI-33	79-49, 47
		RESIDUAL HEAT REMOVAL SUCTION					
		12-RH-5A	TWO	1	1	W-66	80-87
			THREE	2	2	W-72, W-63	81-40, 43
		12-RH-5B	TWO	2	2	W-37, W-42	80-11, 25
		8-RH-5A	TWO	1	1	W-64	80-92
			THREE	1	1	W-27	82-093, 094
		8-RH-5B	TWO	1	1	W-35	80-18
		8-RH-4A	TWO	2	2	W-60, W-59	80-94, 93
		8-RH-4B	TWO	1	1	W-31	80-17
		10-RH-3	ONE	2	2	RH-1045R, RH-1048	77-76, 77
			TWO	1	1	W-23	80-101
			THREE	2	2	W-27	82-93, 94
						W-1044	83C-091

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 1

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S2.2.1PAGE 8 OF 8MAJOR ITEM: PIPING-CIRCUMFERENTIAL BUTT WELDS

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
C2.1	C-G	(CONT'D)					
		RESIDUAL HEAT REMOVAL DISCHARGE					
		10-RH-11	TWO	3	3	RH-1, W-177 W-176	79-103/80-89, 88
			THREE	2	2	W-170/ W-3	81-42/82-042
		6-RH-12	THREE	1	1	W-8	82-101
		8-RH-7A	TWO	2	2	W-88, 89	80-49, 47
		8-RH-7B	TWO	3	3	W-138, 143, 206	80-19, 20, 23
		8-RH-9A	TWO	1	1	W-112	80-46
		8-RH-9B	TWO	2	2	W-195, 193	80-21, 22
		SAFETY INJECTION					
		6-SI-10B	ONE	1	1	SI-1290	77-48, 57
		6-SI-10A	TWO	3	3	W-128, 131, 126	80-72, 73, 71
		REACTOR VESSEL SAFETY INJECTION					
		6-SI-25A	TWO	1	1	SI-1291	79-75
			THREE	1	1	W-1292	82-099
		6-SI-25B	ONE	1	1	SI-15	77-35, 58

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NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 1

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S2.2.2PAGE 1 OF 3MAJOR ITEM: PIPING-LONGITUDINAL WELD JOINTS

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	IN FITTINGS INSPECTION REPORT NO.
C2.2	C-G	<u>LONGITUDINAL WELD JOINTS</u> <u>IN FITTINGS</u>					
		MAIN STEAM A 32-MS-1	-	-	-		
		MAIN STEAM B 32-MS-2	-	-	-		
		MAIN STEAM A 30-MS-1	TWO	1	1	MS-7 TO MS-157	79-126, 127
		MAIN STEAM B 30-MS-2	-	-	-		
		MAIN STEAM A 31-MS-1	ONE	1	1	MS-12 TO MS-13	77-26, 30
		MAIN STEAM B 31-MS-2	-	-	-		
		MAIN STEAM A RELIEF HDR, 30-MS-1	-	-	-		
		MAIN STEAM B RELIEF HDR, 30-MS-2	-	-	-		
		<u>RHR PUMP SECTION</u>					
		12-RH-6A 12-RH-6B	THREE	1	1	W 20 TO 74	81-41
		10-SI-9A 10-SI-9B	-	-	-		
		<u>RHR PUMP DISCHARGE</u>					
		8-RH-7A 8-RH-7B	-	-	-		

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S2.2.2

PAGE 2 OF 3

MAJOR ITEM: PIPING-LONGITUDINAL WELD JOINTS

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	IN FITTINGS INSPECTION REPORT NO.
C2.2	C-G	(CONT'D)					
		8-RH-9A	-	-	-		
		8-RH-9B	-	-	-		
		<u>RWST DISCHARGE</u>					
		14-SI-1	THREE	1	1	W-178-179	81-200
		12-SI-3A	-	-	-		
		12-SI-3B	-	-	-		
		12-SI-4	-	-	-		
		12-SI-8	THREE	1	1	W213-265	81-68
		12-SI-11	-	-	-		
		<u>SI PUMP SUCTION</u>					
		12-SI-11	-	-	-		
		8-SI-18	THREE	2	2	W-67-68, 86W-238	81-204, 31
		6-SI-13A	-	-	-		
		6-SI-13B	-	-	-		
		<u>BORIC ACID SUPPLY</u>					
		8-SI-18	THRE	1	1	W-51-52-53	82-091
		8-VC-71A	-	-	-		
		8-VC-71B	-	-	-		

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 1

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S2.2.2
PAGE 3 OF 3
MAJOR ITEM: PIPING-LONGITUDINAL WELD JOINTS
IN FITTINGS

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
C2.2	C-F	<u>LONGITUDINAL WELD JOINTS IN FITTINGS</u>					
		<u>RHR SUCTION</u>					
		10-RH-3	THREE	1	1	W-1044-1045R	82-096
		8-RH-4A	-	-	-		
		8-RH-4B	-	-	-		
		8-RH-5A	-	-	-		
		8-RH-5B	-	-	-		
		12-RH-5A	THREE	1	1	W-70-71-72	81-39
		12-RH-5B	-	-	-		
		<u>RHR DISCHARGE</u>					
		8-RH-7A	-	-	-		
		8-RH-7B	-	-	-		
		8-RH-9A	-	-	-		
		8-RH-9B	THREE	1	1	W-237-243-109	81-44
		6-SI-10A	-	-	-		
		10-RH-11	THREE	1	1	W-3-4	82-042

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 1

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S2.2.3PAGE 1 OF 1

MAJOR ITEM: PIPING-BRANCH PIPE TO PIPE WELD JOINTS

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
C2.3	C-G	BRANCH PIPE TO PIPE WELD JOINTS - (SWEEPOLETS)					
		MAIN STEAM A					
		RELIEF HDR, 30-MS-1	-	-	-		
		MAIN STEAM B					
		RELIEF HDR, 30-MS-2	ONE	1	1	MS-185A	77-23, 31
		FEEDWATER A					
		16-FW-13	TWO	1	1	FW-163	79-SP-3
		(8", 3-AF-11)				FW-163 (REPEAT)	79-SP2-18,27,54,131
		FEEDWATER B					
		16-FW-16	TWO	1	1	FW-215	79-SP-6
		(8", 3-AF-12)				FW-215 (REPEAT)	79-SP2-19,31,80,132

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 1

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S2.2.4PAGE 1 OF 1MAJOR ITEM: PIPING-PRESSURE RETAINING BOLTING

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
C2.4	C-D	<u>PRESSURE RETAINING BOLTING</u>					
		RHR PUMP SUCTION					
		12-RH-5A	THREE	2	2	BOLTS @ W-78	81-28
		12-RH-5B	-	-	-	BOLTS @ W-81	81-29
		RHR PUMP DISCHARGE					
		10-RH-11	-	-	-		

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 1

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S2.2.5PAGE 1 OF 4MAJOR ITEM: PIPING-INTEGRALLY WELDED SUPPORTS

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
C2.5	C-E-1	<u>INTEGRALLY WELDED SUPPORTS</u>					
		MAIN STEAM A 30-MS-1	TWO THREE	1 2	1 2	G C, E	79-38, 39 82-049,098,117,124
		MAIN STEAM B 30-MS-2	TWO THREE	1 1	1 1	B F	79-121, 124 81-149
		MAIN STEAM A RELIEF HDR, 30-MS-1	-	-	-		
		MAIN STEAM B RELIEF HDR, 30-MS-2	TWO	1	1	L	80A-27, 28
		MAIN STEAM A 31-MS-1	TWO	1	1	I	80A-30
		MAIN STEAM B 31-MS-2	ONE THREE	1 2	1 2	H J, N	77-81 81-212,212R,176,213
		MAIN STEAM A 6-MS-1	TWO	1	1	K	80A-11, 22
		MAIN STEAM B 6-MS-2	-	-	-		
		MAIN STEAM A 32-MS-1	THREE	1	1	A	83C-100, 064
		MAIN STEAM B 32-MS-2	TWO	1	1	D	80A-64, 83

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 1

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S2.2.5

PAGE 2 OF 4

MAJOR ITEM: PIPING-INTEGRALLY WELDED SUPPORTS

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
C2.5	C-E-1	(CONT'D)					
		FEEDWATER A					
		16-FW-12	THREE	2	2	P, U	81-173, 194, 153, 152
		16-FW-13	TWO	9	9	Q	79-122, 132
						Q, R, S	79-SP2-3/35, 36, 37
						T, U	79-SP2-3/38, 38R, 42
						V, W	79-SP2-3/41, 40
						X, QQ	79-SP2-3/39, 39R, 34
						T, X	80A-72, 73, 29, 32
		FEEDWATER B					
		16-FW-15	ONE	1	1	K, LL	77-14, 77-62
		16-FW-16	TWO	8	8	N, O, P, Q	79-SP2-46, 50, 47, 44
			THREE	2	2	R, S, L, LL	79-SP2-43, 48, 49, 45
						P, S	81-151, 150
		REFUELING WATER STORAGE TANK DISCHARGE					
		12-SI-4	TWO	1	1	C	80-69, 75
		10-SI-8	TWO	1	1	D	80-70, 76
			THREE	1	1	E	82-073, 080
		CONTAINMENT SUMP B DISCHARGE LINES					
		14-SI-33A	-	-	-		
		14-SI-33B	-	-	-		
		ALTERNATE CONTAINMENT SPRAY PUMP SUCTION					
		6-RH-10A					
		BRANCH 1	TWO	1	1	B	80-62, 63
		6-RH-10B					
		BRANCH 1	THREE	1	1	D	81-18, 16, 16R

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 1

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S2.2.5PAGE 3 OF 4MAJOR ITEM: PIPING-INTEGRALLY WELDED SUPPORTS

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
C2.5	C-E-1	(CONT'D)					
		RESIDUAL HEAT REMOVAL DISCHARGE					
		6-RH-10A BRANCH 2	TWO	1	1	L	80-79, 102
		6-RH-10B BRANCH 2	TWO THREE	2 1	2 1	I, J H	80-84, 85/81-59, 57 83C-094
		8-RH-7A	THREE	1	1	B	82-075, 079
		8-RH-7B	TWO THREE	1 1	1 1	A C	80-28, 30, 30R 83C-095
		10-RH-11	ONE TWO THREE	1 1 1	1 1 1	S Q P	77-120 79-98, 99 83C-097, 107
		8-RH-9A	THREE	1	1	E	82-074, 078
		8-RH-9B	TWO	1	1	V	80-26, 27, 27R
		RESIDUAL HEAT REMOVAL SUCTION					
		10-RH-3	TWO	3	3	A F, G	79-78, 84, 84R 80-90, 91, 91R, 68, 77
			THREE	2	2	A D B1	80A-58, 82, 82R 82-058, 059 83C-101, 041
		8-RH-4A	TWO	1	1	O	80-80, 100
		8-RH-4B	-	-	-		

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 1

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S2.2.5

PAGE 4 OF 4

MAJOR ITEM: PIPING-INTEGRALLY WELDED SUPPORTS

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
C2.5	C-E-1	(CONT'D)					
		12-RH-5A	TWO	1	1	Q	80-61, 64
		12-RH-5B	THREE	1	1	B	81-52, 2
		SAFETY INJECTION PUMP SUCTION					
		8-SI-18	TWO	1	1	A	80-108, 109
			THREE	3	2	B, J	81-37, 38, 48, 49
		6-SI-13A	THREE	1	1	E	81-15, 19
		12-SI-11	THREE	1	1	C	81-36, 35, 35R, 35R1
		ACCUMULATOR DISCHARGE LINES					
		12-SI-28A	ONE	1	1	C	77-32
		REACTOR VESSEL SAFETY INJECTION					
		6-SI-25A	TWO	1	1	A	79-29, 104, 104R
						A (REPEAT)	80A-55, 60
		6-SI-25B	ONE	1	1	F	77-21
			THREE	2	2	I	82-062, 062R, 063
						F	83C-040, 098
		SAFETY INJECTION FROM RHR					
		6-SI-10A	THREE	2	2	I, J	82-071, 072, 077, 085
		RHR PUMP SUCTION					
		12-RH-6A	THREE	1	1	W	81-50, 56
		12-RH-6B	-	-	-		

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 1

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S2.2.6PAGE 1 OF 3MAJOR ITEM: PIPING-NON-WELDED SUPPORTS

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
C2.6	C-E-2	<u>SUPPORT COMPONENTS</u>					
		MAIN STEAM B 31-MS-2	ONE	1	1	K	77-12, 12R
		RHR SUCTION 12-RH-5A	THREE	1	1	R	81-9
		12-RH-6A	THREE	1	1	X	81-10, 8
		12-RH-6B	THREE	1	1	E	81-62
		RHR DISCHARGE 8-RH-9A	THREE	2	2	C, D	82-082, 083
		8-RH-9B	-	-	-		
		6-RH-7B	THREE	1	1	C	81-72
		REFUELING WATER STORAGE TANK DISCHARGE					
		14-SI-1	TWO	1	1	A	80-74
		12-SI-4	THREE	1	1	B	83C-108
		RESIDUAL HEAT REMOVAL DISCHARGE					
		6-RH-10B					
		BRANCH 2	TWO	1	1	G	80-86
			THREE	1	1	H	83C-094
		10-RH-11	ONE	1	1	T	77-13
			TWO	1	1	R	79-100
			THREE	4	4	K, L, N, O	81-69, 73, 61, 60
		6-RH-12	ONE	1	1	U	82-081, 084, 086
							77-13
		8-RH-7B	THREE	1	1	C	83C-095

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 1

INSERVICE INSPECTION--EXAMINATION SUMMARY

TABLE S2.2.6

PAGE 2 OF 3

MAJOR ITEM: PIPING-NON-WELDED SUPPORTS

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
C2.6	C-E-2	(CONT'D)					
		SAFETY INJECTION FROM RHR					
		6-SI-10A	TWO	1	1	K	79-101
		6-RH-10A					
		BRANCH 2	THREE	1	1	M	83C-096
		RESIDUAL HEAT REMOVAL SUCTION					
		10-RH-3	ONE	2	2	C, L	77-10
			TWO	2	2	H, K	79-102/80-78
			THREE	4	5	I, E, J, A	81-63, 58, 74, 215
						B ₂	83C-110
		8-RH-4A	TWO	1	1	M	80-29
			THREE	1	1	N	81-62
		ACCUMULATOR DISCHARGE LINES					
		12-SI-29A	ONE	1	1	A	77-11
		12-SI-28A	-	-	-		
		12-SI-28B	ONE	1	-	D-MISSED IN PERIOD ONE	
			TWO	1	1	D	78-058
		REACTOR VESSEL SAFETY INJECTION					
		6-SI-25A	ONE	1	1	B	77-59
			TWO	1	1	E	79-30
						E (REPEAT)	80A-61
		6-SI-25B	ONE	1	1	H	77-59
			THREE	1	1	G	83C-109

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S2.2.6

PAGE 3 OF 3

MAJOR ITEM: PIPING-NON-WELDED SUPPORTS

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
C2.6	C-E-2	(CONT'D)					
		SAFETY INJECTION PUMP SUCTION					
		6-SI-13B	THREE	1	1	D	81-17
		8-SI-18	THREE	5	5	D, F, H, O R	81-53, 55, 54, 47 82-097, 125

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 1

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S2.3
PAGE 1 OF 2
MAJOR ITEM: PUMPS

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
C3.1	C-G	<u>PUMP CASING WELDS</u> SAFETY INJECTION PUMPS CASING TO FLANGE WELD DISCHARGE #11 PUMP #12 PUMP CASING TO FLANGE WELDS ON SUCTION #11 PUMP #12 PUMP	- - - -	- - - -	- - - -		
C3.2	C-D	<u>PRESSURE RETAINING BOLTING</u> RHR PUMPS #11 FLANGE BOLTS #12 FLANGE BOLTS SAFETY INJECTION PUMPS #11 DISCH FLANGE BOLTS #12 DISCH FLANGE BOLTS #11 DRIVE END COVER #12 DRIVE END COVER #11 OUTBOARD COVER #12 OUTBOARD COVER	THREE - THREE THREE - THREE	24 - 8 16 - 16	24 - 8 16 - 16	BOLTS 1 THRU 24 BOLTS 1 THRU 8 BOLTS 1 THRU 16 BOLTS 1 THRU 16	81-33 81-27 81-26 81-25
C3.3	C-E-1	<u>INTEGRALLY WELDED SUPPORTS</u> RHR PUMPS #11 #12	- THREE	- 1	- 1	I	81-1, 3

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 1

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S2.3PAGE 2 OF 2MAJOR ITEM: PUMPS

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
C3.3	C-E-1	(CONT'D) SAFETY INJECTION PUMPS #11 #12	THREE THREE	3 3	3 3	A, B, C D, E, F	81-11, 20 81-12, 21, 13, 22, 14, 23
C3.4	C-E-2	<u>SUPPORT COMPONENTS</u> RHR PUMPS #11 #12	THREE THREE	1 1	1 1	S H	81-5 81-6

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 1

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S2.4PAGE 1 OF 2MAJOR ITEM: VALVES

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
C4.1	C-F & C-G	<u>VALVE BODY WELDS</u>	-	-	-	-NONE-	
C4.2	C-D	<u>PRESSURE RETAINING BOLTING</u>					
		MAIN STEAM A 31-MS-1	THREE	26	26	(V AND UT)	81-128
		MAIN STEAM B 31-MS-2	THREE	26	26	(V AND UT)	81-163
		MAIN STEAM A (6") (OFF) RELIEF HDR 30-MS-1	TWO THREE	12 24	12 24	(V AND UT) RS-21-4 (V AND UT) RS-21-1 RS-19-1	80A-46 81-127 81-274
		MAIN STEAM B (OFF) RELIEF HDR 30-MS-2	ONE TWO THREE	12 12 24	12 12 24	(V) RS-21-6 (UT) RS-21-6 (V AND UT) RS-21-8 (V AND UT) RS-21-10 RS-19-2	77-47 77-47 80A-45 81-129 81-273
		RESIDUAL HEAT REMOVAL DISCHARGE 6-SI-10B 6-RH-12	- ONE	- 12 2(MIN)	- 12 2	(V) 8803B (UT) 8803B	77-85 77-78

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 1

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S2.4
PAGE 2 OF 2
MAJOR ITEM: VALVES

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
C4.2	C-D	(CONT'D) ACCUMULATOR DISCHARGE LINES 12-SI-29A 12-SI-29B	- TWO	- 16 2(MIN)	- 16 16	(V) 8800 B (UT) 8800 B	80A-53 80A-53
C4.3	C-E-1	<u>INTEGRALLY WELDED SUPPORTS</u>	-	-	-	-NONE-	
C4.4	C-E-2	<u>SUPPORT COMPONENTS</u>	-	-	-	-NONE-	

COMPONENT/SYSTEM	NSP ISO	NDE METHOD	W BASELINE IDENT.	REPORT NO.	BASELINE INDICATIONS	ISI INDICATIONS	EXAMINATION LIMITATIONS
<u>STEAM GENERATORS</u>							
<u>C1.1 CIRCUMFERENTIAL BUTT WELDS</u>							
S/G NO. 11	43	UT	W-F @225°	83C-085	NONE	NONE	SCAN AREA 121" TO 149"
		UT		83C-086	S-2, 25%, 1/2" LONG	NONE	SAME AS ABOVE
		UT		83C-087	NONE	NONE	SAME AS ABOVE
<u>C1.4 PRESSURE RETAINING BOLTING</u>							
MANWAY BOLTS S/G NO. 12	43	UT	BOLTS 1-20	83C-146	NONE	NONE	NONE
<u>PIPING PRESSURE BOUNDARY</u>							
<u>C2.1 CIRCUMFERENTIAL BUTT WELDS</u>							
FEEDWATER A	52A	UT	FW-164	83C-006	S-1, ID/OD GEO 100% 40	S-1, ID GEO., 30% S-1 ID, GEO., 50%	S-1 LIMITED 11:45 TO 12:15 VENT, S-2 LIMITED NOZZLE
		UT		83C-003	S-1, 2, 3, 4 ID/OD GEO 40 TO 100%	S-1, OD GEO., 50% S-1, ID GEO., 35%	SAME AS ABOVE
		UT		83C-117	N/A	NONE	THICKNESS ONLY
		MT		83C-001 83C- 001R	NONE N/A	3 LINEARS NONE-BUFFED OUT	NONE NONE

COMPONENT/SYSTEM	NSP ISO	NDE METHOD	W BASELINE IDENT.	REPORT NO.	BASELINE INDICATIONS	ISI INDICATIONS	EXAMINATION LIMITATIONS
<u>C2.1 CON'T</u>					S-1, ID/OD GEO., 100% 1, 2, 3, 4		
FEEDWATER B	69A	UT	FW-216	83C-005	N	S-1, OD GEO., 75%- 90% S-1, ID GEO., 30%	S-1 LIMITED 11:45 12:15 VENT, S-2 LIMITED NOZZLE SAME AS ABOVE
		UT		83C-004	S-1, 2, 3, 4 ID/OD GEO 34% TO 100%	S-1, ID/OD GEO., 60%, 30%/50%	
		UT MT		83C-118 83C-002 83C- 002R	N/A LINEARS N/A	NONE 2 LINEARS NONE-BUFFED OUT	THICKNESS ONLY NONE NONE
RHR SUCTION	53	UT	W-1044	83C-091	N/A	S-1, ID GEO., 55%	NONE
<u>C2.5 INTEGRALLY WELDED SUPPORTS</u>							
MAIN STEAM A	51A	MT	A	83C-064	N/A	LINEARS-ACCEPT. PER CODE CASE N339	ACCESSIBLE AREAS
		VT		83C-100	N/A	NONE	NONE
RHR DISCHARGE	79	PT	P	83C-097 83C- 097R1 83C- 097R2 83C-107	N/A N/A N/A N/A	ROUGH SURFACE ROUGH SURFACE NONE-BLENDED NONE	NONE NONE NONE NONE
RHR SUCTION	54	PT VT	B1	83C-041 83C-101	N/A N/A	NONE NONE	NONE NONE

COMPONENT/SYSTEM	NSP ISO	NDE METHOD	W BASELINE IDENT.	REPORT NO.	BASELINE INDICATIONS	ISI INDICATIONS	EXAMINATION LIMITATIONS
<u>C2.5 CON'T</u>							
REACTOR VESSEL SAFETY INJECTION LOOP B	90	PT VT	F	83C-040 83C-098	N/A N/A	NONE NONE	NONE NONE
<u>C2.6 SUPPORT COMPONENTS</u>							
REFUELING WATER STORAGE TANK DIS- CHARGE	81	VT	B	83C-108	N/A	NONE	NONE
RHR SUCTION	54	VT	B2	83C-110	N/A	NONE	NONE
RHR DISCHARGE	79	VT VT	H C	83C-094 83C-095	N/A N/A	NONE NONE	NONE NONE
SAFETY INJECTION FROM RHR	56	VT	M	83C-096	N/A	NONE	NONE
REACTOR VESSEL SAFETY INJECTION	90	VT	G	83C-109	N/A	NONE	NONE

NORTHERN STATES POWER CO.
PRAIRIE ISLAND UNIT 1
ISOMETRIC SUMMARY - CLASS 2

PAGE 1 OF 3
TABLE III

NSP ISO NUMBER	REVISION	COMPONENT OR SYSTEM	LOOP	LINE SIZE	LINE NUMBER	UT - CAL. STANDARD
ISI-43	0	STEAM GENERATORS	A&B	-	-	-
ISI-51	0	MAIN STEAM (GENERAL VIEW)	A	-	-	-
ISI-51A	0		A	32"	32-MS-1	NO 24
ISI-51B	0		A	31"	31-MS-1	23
				30"	30-MS-1	7
				6"	6-MS-1	
ISI-52	0	FEEDWATER (GENERAL VIEW)	A	-	-	-
ISI-52A	0		A	16"	16-FW-13	13
ISI-52B	0		A	16"	16-FW-8	13
			A	8"	3-AF-11	NO
ISI-53	0	RHR PUMP A SUCTION (WELDS)	A	10"	10-RH-3	22
ISI-54	0	RHR PUMP A SUCTION (HANGERS)	A	8"	8-RH-4A	29
			A	8"	8-RH-5A	29
			A	12"	12-RH-5A	32
			A	12"	12-RH-6A	32
			A	10"	10-S1-9A	NO
ISI-55	0	RHR PUMP A DISCHARGE (WELDS)	A	8"	8-RH-7A	29
ISI-56	0	RHR PUMP A DISCHARGE (HANGERS)	A	8"	8-RH-9A	29
			A	6"	6-RH-10A	27
			A	6"	6-S1-10A	27
			A	6"	6-S1-10B	6
ISI-68	0	MAIN STEAM (GENERAL VIEW)	B	-	-	-
ISI-68A	0		B	32"	32-MS-2	NO 24
ISI-68B	0		B	31"	31-MS-2	23
				30"	30-MS-2	7
				6"	6-MS-2	
ISI-69	0	FEEDWATER (GENERAL VIEW)	B	-	-	-
ISI-69A	0		B	16"	16-FW-16	13
ISI-69B	0		B	16"	16-FW-15	13
				8"	3-AF-12	NO

NORTHERN STATES POWER CO.
PRAIRIE ISLAND UNIT 1
ISOMETRIC SUMMARY

PAGE 2 OF 3
TABLE III

NSP ISO NUMBER	REVISION	COMPONENT OR SYSTEM	LOOP	LINE SIZE	LINE NUMBER	UT - CAL. STANDARD
ISI-76	0	RHR PUMP B SUCTION (WELDS)	B	8"	8-RH-4B	29
ISI-77	0	RHR PUMP B SUCTION (HANGERS)	B	8"	8-RH-5B	29
			B	12"	12-RH-5B	32
			B	12"	12-RH-6B	32
			B	10"	10-SI-9B	22
ISI-78	0	RHR PUMP B DISCHARGE (WELDS)	B	8"	8-RH-7B	29
ISI-79	0	RHR PUMP B DISCHARGE (HANGERS)	B	8"	8-RH-9B	29
			B	6"	6-RH-10B	27
			B	10"	10-RH-11	22
			B	6"	6-RH-12	NO _____
ISI-80	0	REFUELING WATER STORAGE (WELDS)	-	14"	14-SI-1	NO _____
		TANK DISCHARGE		12"	12-SI-3A	33
ISI-81	0	REFUELING WATER STORAGE (HANGERS)		12"	12-SI-3B	33
		TANK DISCHARGE		12"	12-SI-4	33
				10"	10-SI-8	31
				12"	12-SI-11	NO _____
ISI-82	0	SAFETY INJECTION PUMPS SUCTION (WELDS)	-	12"	12-SI-11	NO _____
ISI-83	0	SAFETY INJECTION PUMPS SUCTION (HANGERS)		6"	6-SI-13A	NO _____
				6"	6-SI-13B	28
				8"	8-SI-17	30
				8"	8-SI-18	30
ISI-84	0	BORIC ACID SUPPLY	-	8"	8-SI-18	NO _____
ISI-85	0	ACCUMULATOR DISCHARGE (WELDS)	A	12"	12-SI-28A	11
ISI-86	0	ACCUMULATOR DISCHARGE (HANGERS)	A	12"	12-SI-29A	11
			B	12"	12-SI-28B	11
			B	12"	12-SI-29B	11

NORTHERN STATES POWER CO.
PRAIRIE ISLAND UNIT 1
ISOMETRIC SUMMARY

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TABLE III

NSP ISO NUMBER	REVISION	COMPONENT OR SYSTEM	LOOP	LINE SIZE	LINE NUMBER	UT - CAL. STANDARD
ISI-87	0	CONTAINMENT SUMP B DISCHARGE (WELDS)	A	14"	14-SI-33A	NO _____
ISI-88	0	CONTAINMENT SUMP B DISCHARGE (HANGERS)	A	12"	12-SI-34A	NO _____
			B	14"	14-SI-33B	NO _____
			B	12"	12-SI-34B	32
ISI-89	0	REACTOR VESSEL SAFETY INJECTION (WELDS)	A	6"	6-SI-25A	6
ISI-90	0	REACTOR VESSEL SAFETY INJECTION (HANGERS)	B	6"	6-SI-25B	6
ISI-91	0	ALTERNATE CONTAINMENT SPRAY (WELDS)	A	6"	6-RH-10A	27
		PUMP SUCTION	B	6"	6-RH-10B	NO _____
ISI-92	0	ALTERNATE CONTAINMENT (HANGERS)				
		SPRAY PUMP SUCTION				

APPENDIX C

FSAR AUGMENTED EXAMINATION

(NO EXAMINATIONS SCHEDULED THIS OUTAGE)

APPENDIX D
SEISMIC BOLTING EXAMINATION

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 1

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE SB
PAGE 1 OF 7
MAJOR ITEM: SEISMIC BOLTING

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
N/A	N/A	STEAM GENERATORS					
		STEAM GENERATOR NO. 11					
		UPPER RING GIRDER (SNUBBER PINS)	ONE TWO TWO THREE	2 2 8 4	2 2 8 4	SNUBBER 1 SNUBBER 2 SNUBBER 1 THRU 4 SNUBBER 1 THRU 4	77-132, 4 79-117 80A-115 82-128
		UPPER RING GIRDER (SNUBBER WALL BOLTS)	ONE TWO TWO THREE	5 5 15 5	5 5 15 5	TOP ROW CENTER ROW ALL BOLTS BOTTOM ROW	77-3 79-63 80A-111 82-132
		UPPER RING GIRDER (SNUBBER WALL BOLTS)	ONE TWO TWO THREE	8 8 32 16	8 8 32 16	TOP ROW ON GIRDER TOP ROW ON WALL ALL BOLTS BOTTOM ROW ON WALL	77-4 79-64 80A-114, 116 82-105
		UPPER RING GIRDER (WALL BOLTS)	TWO THREE	30 5	30 5	PAD 1 THRU 4 PAD 3	80A-119 82-130
		UPPER RING GIRDER (RING CONNECTING BOLTS)	TWO THREE	40 40	40 40	PAD 1 THRU 4 PAD 1 THRU 4	80A-117, 118, 118R, 122 81-267, 268, 268R
		UPPER RING GIRDER (SPRING HANGER)	THREE	2	-		
		COLUMN PINS	ONE TWO TWO THREE	2 2 8 4	2 2 8 4	COLUMN 1 COLUMN 2 COLUMN 1-4 TOP & BOTTOM COLUMN 3 & 4	77-130 79-132, 133 80A-86, 95 83C-136, 139

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 1

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE SB
PAGE 2 OF 7

MAJOR ITEM: SEISMIC BOLTING

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
N/A	N/A	(S.G. NO. 11. CONT'D)					
		BASE ANCHOR BOLTS'	ONE	8	8	BASE OF COLUMN 1	77-4
			TWO	8	8	BASE OF COLUMN 2	79-56
			TWO	32	32	BASE OF COLUMN 1 THRU 4	80A-113
			THREE	16	16	BASE OF COLUMN 3 AND 4	82-109
		TOP COLUMN CONNECTING BOLTS	ONE	4	4	TOP OF COLUMN 1	77-4
			TWO	4	4	TOP OF COLUMN 2	79-111
			TWO	16	16	TOP OF COLUMN 1 THRU 4	80A-124
			THREE	8	8	TOP OF COLUMN 3&4	83C-125, 129
		SUPPORT PAD	ONE	6	6	3)COL.3&3)COL.4	77-128
		HELI-COIL SCREWS	TWO	6	12	COLUMNS 1 AND 2	79-113, 114
			TWO	24	24	ALL HELICOIL SCREWS	80A-140
			THREE	24	24	ALL HELICOIL SCREWS	81-260
					12	COLUMN 3 & 4	83C-128, 130
		LOWER LATERAL SUPPORT ANCHOR BOLTS TO WALL	ONE	14	14	PAD 1	77-4
			TWO	8	8	PAD 3	79-10C
			TWO	42	42	PAD 1 THRU 4	80A-120
			THREE	20	28	PAD 2, 3, & 4	83C-088
		LATERAL SUPPORT WALL BOLTS	ONE	4	4	FIXTURE 1	77-4
			TWO	4	4	FIXTURE 2	79-107
			TWO	12	12	FIXTURE 1 THRU 3	80A-120
			THREE	4	4	FIXTURE 3	83C-089
		<u>STEAM GENERATOR NO. 12</u>					
		UPPER RING GIRDER (SNUBBER PINS)	ONE	2	2	SNUBBER 1	77-3, 132
			TWO	2	2	SNUBBER 2	79-116
			TWO	8	8	SNUBBER 1 THRU 4	80A-133
			THREE	4	4	SNUBBER 1 THRU 4	82-127

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 1

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE 3 SB
 PAGE 3 OF 7
 MAJOR ITEM: SEISMIC BOLTING

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
N/A	N/A	(S.G. NO. 12 CONT'D)					
		UPPER RING GIRDER (SNUBBER WALL BOLTS)	ONE	5	5	TOP ROW	77-4
			TWO	5	5	CENTER ROW	79-62
			TWO	15	15	ALL BOLTS	80A-135
			THREE	5	5	BOTTOM ROW	82-131
		UPPER RING GIRDER (SNUBBER BOLTS)	ONE	8	8	TOP ROW ON GIRDER	77-3
			TWO	8	8	TOP ROW ON WALL	79-65
			TWO	32	32	ALL BOLTS	80A-132, 137
			THREE	16	16	BOTTOM ROW ON WALL	82-104
		UPPER RING GIRDER (WALL BOLTS)	TWO	30	30	PAD 1 THRU 4	80A-134
			THREE	5	5	PAD 3	82-129
		UPPER RING GIRDER (RING CONNECTING BOLTS)	TWO	40	40	PAD 1 THRU 4	80A-131, 136, 136R
			THREE	40	40	PAD 1 THRU 4	81-280, 280R
		UPPER RING GIRDER (SPRING HANGER)	TWO	2	2	SGH-3, SGH-4	80A-138, 139
			THREE	2	2	SGH-2, SGH-4	82-031, 032, 032R
		COLUMN PINS	ONE	2	2	COLUMN 1	77-130
			TWO	2	2	COLUMN 2	79-136, 137
			TWO	8	8	COLUMN 1 THRU 4 TOP & BOTTOM	80A-86
			THREE	4	4	COLUMN 3 & 4	83C-131, 142
		BASE ANCHOR BOLTS	ONE	8	8	BASE OF COLUMN 1	77-3
			TWO	8	8	BASE OF COLUMN 2	79-57
			TWO	32	32	BASE OF COLUMN 1 THRU 4	80A-113
			THREE	16	16	BASE OF COLUMN 3 AND 4	82-108

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE 4 SB
PAGE 7 OF 7
MAJOR ITEM: SEISMIC BOLTING

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
N/A	N/A	(S.G. NO. 12 CONT'D)					
		TOP COLUMN	ONE	4	4	TOP OF COLUMN 1	77-3
		CONNECTING BOLTS	TWO	4	4	TOP OF COLUMN 2	79-110
			TWO	16	16	TOP OF COLUMN 1	80A-124
						THRU 4	
			THREE	8	8	TOP OF COLUMN 3&4	83C-126
		SUPPORT PAD	ONE	6	6	3)COL.3&3)COL.4	77-128
		HELI-COIL SCREWS	TWO	6	12	COLUMNS 1 AND 2	79-119, 120
			TWO	24	24	ALL HELICOIL SCREWS	80A-141
			THREE	24	24	ALL HELICOIL SCREWS	81-246
					12	COLUMN 3&4	83C-127
		LOWER LATERAL	ONE	14	14	PAD 1	77-3
		SUPPORT ANCHOR	TWO	14	14	PAD 2	79-112
		BOLTS TO WALL	TWO	44	44	PAD 1 THRU 5	80A-106
			THREE	16	16	PAD 3, 4, & 5	83C-081
		LATERAL SUPPORT	ONE	4	4	FIXTURE 1	77-3
		WALL BOLTS	TWO	4	4	FIXTURE 2	79-11
			TWO	12	12	FIXTURE 1 THRU 3	80A-106
			THREE	4	4	FIXTURE 3	83C-080
		CONNECTING BOLTS	ONE	5	16	16 EXAMINED	77-3
		IN LATERAL BEAM	TWO	5	16	16 EXAMINED	79-60
			TWO	16	16	ALL BOLTS	80A-123
			THREE	6	16	(REPEAT INSPECTION)	
						ALL BOLTS	83C-087, 121
		<u>PRESSURIZER</u>					
		BASE ANCHOR	ONE	8	8	1-8 BOLTS	77-6
			TWO	8	8	9-16 BOLTS	79-66
			TWO	24	24	1-24 BOLTS	80A-107
			THREE	8	8	17-24 BOLTS	82-111

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 1

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE SB
PAGE 5 OF 7
MAJOR ITEM: SEISMIC BOLTING

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
N/A	N/A	<u>ACCUMULATOR A</u>					
		BASE ANCHOR BOLTS	ONE	8	8	1-8 BOLTS	77-5
			TWO	8	8	9-16 BOLTS	79-67
			TWO	24	24	1-24 BOLTS	80A-96
			THREE	8	8	17-24 BOLTS	83C-057
		<u>ACCUMULATOR B</u>					
		BASE ANCHOR BOLTS	ONE	8	8	1-8 BOLTS	77-5
			TWO	8	8	9-16 BOLTS	79-68
			TWO	24	24	1-24 BOLTS	80A-96
			THREE	8	8	17-24 BOLTS	82-112
		<u>REACTOR COOLANT PUMPS</u>					
		<u>PUMP NO. 11</u>					
		COLUMN PINS	ONE	2	2	COLUMN 1	77-131
			TWO	2	2	COLUMN 2	79-134, 135
			TWO	6	6	COLUMN 1 THRU 3 TCP & BOTTOM	80A-84, 93
			THREE	2	2	COLUMN 3	83C-133, 134
		BASE ANCHOR BOLTS	ONE	8	8	BASE OF COLUMN 1	77-1
			TWO	8	8	BASE OF COLUMN 2	79-58
			TWO	24	24	BASE OF COLUMN 1 THRU 3	80A-112
			THREE	8	24	BASE OF COLUMN 1 THRU 3	82-106

NORTHERN STATES POWER CO.

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INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE 6 SB

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MAJOR ITEM: SEISMIC BOLTING

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
N/A	N/A	(PUMP NO. 11 CONT'D)					
		COLUMN CONNECTING BOLTS	ONE	6	6	TOP OF COLUMN 1	77-146
			TWO	6	6	TOP OF COLUMN 2	79-109
			TWO	18	18	TOP OF COLUMN 1 THRU 3	80A-101
			THREE	6	6	TOP OF COLUMN 3	83C-141
		TIE BACK BOLTS	ONE	1	1	COLUMN 1	77-148
			TWO	1	1	COLUMN 2	79-115
			TWO	3	3	COLUMN 1 THRU 3	80A-97, 102
			THREE	1	1	COLUMN 1	81-249, 249R
		TIE BACK PINS	ONE	1	1	PAD 1	77-131
			TWO	1	1	PAD 2	79-131
			TWO	3	3	PAD 1 THRU 3	80A-94
			THREE	1	1	PAD 3	83C-132
		THROUGH ANCHOR BOLTS	ONE	2	2	PAD 1, SOUTH 2	77-1
			TWO	2	2	PAD 1, CENTER 2	79-105
			TWO	6	6	PAD 1, ALL BOLTS	80A-103, 103R
			THREE	6	6	PAD 1, ALL BOLTS	81-250
		LATERAL SUPPORT & WALL BOLTS	ONE	4	4	PAD 2	77-1
			TWO	3	3	PAD 3, TOP ROW	79-105
			TWO	10	10	PAD 2 & 3, ALL BOLTS	80A-100
			THREE	3	3	PAD 3	83C-056
		<u>PUMP NO. 12</u>					
		COLUMN PINS	ONE	2	2	COLUMN 1	77-131
			TWO	2	2	COLUMN 2	79-138, 139
			TWO	6	6	COLUMN 1 THRU 3 TOP & BOTTOM	80A-84, 93
			THREE	2	2	COLUMN 3	83C-138

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PRAIRIE ISLAND UNIT 1

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE SBPAGE 7 OF 7

MAJOR ITEM: SEISMIC BOLTING

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. #/R.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
N/A	N/A	(PUMP NO. 12 CONT'D)					
		BASE ANCHOR BOLTS	ONE	8	8	BASE OF COLUMN 1	77-2
			TWO	8	8	BASE OF COLUMN 2	79-59
			TWO	24	24	BASE OF COLUMN 1 THRU 3	80A-112
			THREE	8	24	BASE OF COLUMNS 1 THRU 3	82-107
		COLUMN CONNECTING BOLTS	ONE	6	6	TOP OF COLUMN 1	77-147
			TWO	6	6	TOP OF COLUMN 2	79-108
			TWO	18	18	TOP OF COLUMN 1 THRU 3	80A-101
			THREE	6	6	TOP OF COLUMN 3	83C-140
		TIE BACK BOLTS	ONE	1	1	COLUMN 1	77-149
			TWO	1	1	COLUMN 2	79-118
			TWO	3	3	COLUMN 1 THRU 3	80A-98
			THREE	1	1	COLUMN 3	83C-137
		TIE BACK PINS	ONE	1	1	PAD 1	77-131
			TWO	1	1	PAD 2	79-130
			TWO	3	3	PAD 1 THRU 3	80A-85
			THREE	1	1	PAD 1	83C-145
		THROUGH ANCHOR BOLTS	ONE	2	1	PAD 3	77-2
			TWO	2	2	PAD 3, CENTER 2	79-61
			TWO	6	6	PAD 3, ALL BOLTS	80A-103
			THREE	2	2	PAD 1	83C-054
		LATERAL SUPPORT AND WALL BOLTS	ONE	4	4	PAD 1	77-2
			TWO	3	3	PAD 2, TOP ROW	79-61
			TWO	10	10	PAD 1 & 2, ALL BOLTS	80A-100
			THREE	3	3	PAD 3	83C-053

SEISMIC BOLTING

TABLE II
 PAGE 1 OF 2

COMPONENT/SYSTEM	NSP ISO	NDE METHOD	<u>E</u> BASELINE IDENT.	REPORT NO.	BASELINE INDICATIONS	I ^{CI} INDICATIONS	EXAMINATION LIMITATIONS
<u>STEAM GENERATOR NO. 11</u> COLUMN PINS	59/60	UT	TOP COL 3 & 4	83C-136	NONE	NONE	NONE
			BOT COL 3 & 4	83C-139	NONE	NONE	NONE
TOP COLUMN CONNECTING BOLTS	60	UT	COL 3	83C-125	NONE	NONE	NONE
		UT	COL 4	83C-129	NONE	NONE	NONE
LOWER LATERAL ANCHOR BOLTS TO WALL	63	VT	PAD 2,3&4	83C-088	NONE	NONE	NONE
LOWER LATERAL WALL BOLTS	63	VT	FIXTURE 3	83C-089	NONE	NONE	NONE
HELICOIL SCREWS	60	UT	COL 3	83C-128	NONE	NONE	NONE
			COL 4	83C-130	NONE	NONE	NONE
<u>STEAM GENERATOR NO. 12</u> COLUMN PINS	59/60	UT	TOP COL 3 & 4	83C-142	NONE	NONE	NONE
			BOT COL 3 & 4	83C-131	NONE	NONE	NONE
TOP COLUMN CONNECTING BOLTS	60	UT	COL 3&4	83C-126	NONE	NONE	NONE
LOWER LATERAL SUPPORT ANCHOR BOLTS TO WALL	65	VT	PAD 3,4&5	83C-081	NONE	NONE	NONE
LATERAL SUPPORT WALL BOLTS	65	VT	FIXTURE 3	83C-080	NONE	NONE	NONE
CONNECTING BOLTS IN LATERAL	65	UT	ALL BOLTS	93C-121	NONE	NONE	NONE
		VT	ALL BOLTS	83C-082	NONE	NONE	NONE
HELICOIL SCREWS	60	UT	COL 3&4	83C-127	NONE	NONE	NONE

SEISMIC BOLTING

COMPONENT/SYSTEM	NSP ISO	NDE METHOD	W BASELINE IDENT.	REPORT NO.	BASELINE INDICATIONS	ISI INDICATIONS	EXAMINATION LIMITATIONS
<u>REACTOR CORE COOLANT PUMP NO. 11</u>							
COLUMN PINS	61/62	UT	TOP COL 3 BOT COL 3	83C-133 83C-134	NONE NONE	NONE NONE	NONE NONE
COLUMN CONNECTING BOLTS	62	VT	TOP COL 3	83C-141	NONE	NONE	NONE
TIE BACK PIN	64	UT	PAD 3	83C-132	NONE	NONE	NONE
LATERAL SUPPORT AND WALL BOLTS	64	VT	PAD 3	83C-056	NONE	NONE	NONE
<u>REACTOR CORE COOLANT PUMP NO. 12</u>							
COLUMN PINS	61/62	UT	TOP COL 3 BOT COL 3	83C-135 83C-138	NONE NONE	NONE NONE	NONE NONE
COLUMN CONNECTING BOLTS	62	VT	TOP COL 3	83C-140	NONE	NONE	NONE
TIE BACK BOLT	66	UT	COL 3	83C-137	NONE	NONE	NONE
TIE BACK PIN	66	UT	PAD 1	83C-145	NONE	NONE	NONE
THRU ANCHOR BOLTS	66	VT	PAD 1	83C-054	NONE	NONE	NONE
LATERAL SUPPORT AND WALL BOLTS	66	VT	PAD 3	83C-053	NONE	NONE	NONE
<u>ACCUMULATOR A</u>							
BASE ANCHOR BOLTS	74	VT	BOLTS 17- 24	83C-057	NONE	NONE	NONE

NORTHERN STATES POWER CO.
PRAIRIE ISLAND UNIT 1
ISOMETRIC SUMMARY - SEISMIC BOLTING AUGMENTED

TABLE III

PAGE 1 OF 1

NSP ISO NUMBER	REVISION	COMPONENT OR SYSTEM	LOOP	LINE SIZE	LINE NUMBER	UT - CAL. STANDARD
ISI-59	0	Steam Generator Support Base	A&B	-	4/Generator	
ISI-60	0	Steam Generator Support Top	A&B	-	4/Generator	
ISI-61	0	Reactor Coolant Pump Support Base	A&B	-	3/Pump	
ISI-62	0	Reactor Coolant Pump Support Top	A&B	-	3/Pump	
ISI-63	0	Steam Generator #11 Lower Support Ring	A	-	-	
ISI-64	0	Reactor Coolant Pump #11 Lower Lateral Support	A	-	-	
ISI-65	0	Steam Generator #12 Lower Lateral Support	B	-	-	
ISI-66	0	Reactor Coolant Pump #12 Lower Lateral Support	B	-	-	
ISI-67	0	Steam Generator Support Pad	A&B	-	4/Generator	
ISI-70	0	Steam Generator Upper Support	A&B	-	-	
ISI-72	0	Steam Generator Upper Support Snubbers	A&B	-	-	
ISI-73	0	Pressurizer Base	-	-	-	
ISI-74	0	Accumulator Base	A&B	-	-	

APPENDIX E

TABLE I - PERSONNEL LISTING

TABLE II - ULTRASONIC CALIBRATION BLOCKS

TABLE III - PROCEDURE LISTING

TABLE IV - EQUIPMENT AND MATERIALS

NORTHERN STATES POWER COMPANY

PRAIRIE ISLAND UNIT I
PERSONNEL LISTINGAPPENDIX E
TABLE I
PAGE 1 of 2

EXAMINER	TITLE	ORGANIZATION	ASNT LEVEL					
			UT	PT	MT	VT	ET	RT
G.R. ADAMS	SUPERVISOR	LMT ⁽²⁾	III	III	III	II (1a,b)	-	-
D.J. EDGEL	TECHNICIAN	LMT	II	II	-	II (1a,b)	-	-
R.A. KELLERHALL	SUPERVISOR	LMT	III	III	III	III (1a,b)	-	-
T.L. KOCH	TECHNICIAN	LMT	III	II	III	II (1a,b)	-	-
K.J. LEVESQUE	TECHNICIAN	LMT	I	-	-	-	-	-
R.W. PECHACEK	TECHNICIAN	LMT	II	II	II	II (1a,b)	-	-
A.S. SPINELLI	TECHNICIAN	LMT	I	-	-	-	-	-
C.W. THOMPSON	TECHNICIAN	LMT	II	II	-	II (1b)	-	-
S.E. WALLACE	TECHNICIAN	LMT	II	-	-	-	-	-
J.T. BRONSON	TECHNICIAN	W ³	-	-	-	-	I	-
E. CISNEROS	SUPERVISOR	W	-	-	-	-	II	-
E.D. DAWSON	TECHNICIAN	W	-	-	-	-	I	-
R. HOSLEY	SUPERVISOR	W	-	-	-	-	I	-
G.W. MILLER	TECHNICIAN	W	-	-	-	-	I	-
J.E. REED	TECHNICIAN	W	-	-	-	-	I	-
R.D. REHAK	TECHNICIAN	W	-	-	-	-	II	-
J.J. ROBERTS	TECHNICIAN	W	-	-	-	-	I	-
J.T. SNEE	SUPERVISOR	W	-	-	-	-	I	-
K.D. STEWART	TECHNICIAN	W	-	-	-	-	II	-
G.T. THOMAS	TECHNICIAN	W	-	-	-	-	II	-
J.M. ZEVCHAK	TECHNICIAN	W	-	-	-	-	I	-
LCD011884JJB01								

EXAMINER	TITLE	ORGANIZATION	ASNT LEVEL					
			UT	PT	MT	VT	ET	RT
R.S. EMERY	EVALUATOR	ZETEC ⁽⁴⁾	-	-	-	-	IIa	-
J.G. CRITTENDEN	EVALUATOR	ZETEC	-	-	-	-	IIa	-
E.O. MCKEE	EVALUATOR	ZETEC	-	-	-	-	IIa	-
J. FUNANICH	EVALUATOR	CONAM ⁽⁵⁾	-	-	-	-	III	-
R.E. MARLOW	EVALUATOR	CONAM	-	-	-	-	III	-
M.T. ANDERSON	M & SP ENGINEER	NSP	III	II	-	II (1b)	-	III
R.J. COLEMAN	M & SP ENGINEER	NSP	I	-	-	-	-	-
L.C. DAHLMAN	M & SP SPECIALIST	NSP	II	III	III	III (1a,b)	-	III
J.R. SCHANEN	M & SP SPECIALIST	NSP	I	II	II	II (1b)	-	-
R. HUGHES	ANII	HARTFORD STEAM BOILER INSPECTION & INSURANCE CO.						

FOOTNOTES:

- (1a) Certified by NSP to perform visual determination of structural integrity for changer assemblies in accordance with NSP-VT-2.
- (1b) Inspection experience and NDE Qualification were judged to be adequate to perform visual examination in accordance with NSP-VT-1.
- (2) Organization: Lambert, MacGill, Thomas, Inc. (LMT)
515 Aldo Ave. Santa Clara, CA 95050
- (3) Organization: Westinghouse Electric Corporation (W)
Nuclear Services Division P.O. Box 2728
Pittsburgh, PA 15230
- (4) Organization: Zetec, Inc.
P.O. Box 140 Isaaquah, WA 98027
- (5) Organization: Conam Inspection
660 South 31st St.
Richland, CA 94804

NORTHERN STATES POWER COMPANY
 Prairie Island Unit I
 ULTRASONIC CALIBRATION BLOCKS

APPENDIX E
 TABLE II
 PAGE 1 of 1

NSP No.	SIZE & DIA.	PIPE SCHEDULE & THICKNESS	MATERIAL	SERIAL OR HEAT NUMBER	CALIBRATION REPORTS	DATE
3	2"	Sch.160 .344"	A-312 TP-304	2P 4659	DJE-012 CWT-002 CWT-004 CWT-005	12-12-83 12-09-83 12-12-83 12-12-83
4	3"	Sch.150 .438"	A376 TP-316	M5900	CWT-006 CWT-011	12-10-83 12-16-83
5	4"	Sch.120 .438"	A376 TP-316	2P0091	GRA-001 GRA-001A GRA-001B DJE-014	12-07-83 12-23-83 12-23-83 12-14-83
6	6"	Sch.160 .718"	A376 TP-316	M3715	CWT-001 CWT-003 CWT-010	12-07-83 12-09-83 12-16-83
10	10"	Sch.140 1.000"	A376 TP-316	J2009	DJE-011	12-18-83
11	12"	Sch.160 1.312"	A376 TP-316	J2103	DJE-013	12-12-83
14A	29"	- 2.335"	A376 TP-316	D8770	DJE-001 DJE-016 DJE-022	12-08-83 12-14-83 12-19-83
22	10"	Sch.40 .365"	A312 TP-304	F60917	DJE-015	12-14-83
25A	T=5-5/16"+	CLAD; W=7-1/16"; L=17-3/4"	SA-533 GR.B CL.1	C2220/1	DJE-018 DJE-019 RWP-001	12-16-83 12-16-83 12-17-83
26	T=3 1/2"	W-6" L-12"	A533 GR A	52391	CWT-007 CWT-008 CWT-009	12-13-83 12-13-83 12-13-83
36	16"	Sch.100 1.031" &.585"	A106 GR.C	45124A	DJE-020 TLK-001 TLK-002	12-10-83 12-05-83 12-05-83

NORTHERN STATES POWER COMPANY
PRAIRIE ISLAND UNIT 1
PROCEDURE LISTING

APPENDIX E
TABLE III
PAGE 1 OF 2

PROCEDURE NUMBER AND REVISION	FIELD CHANGE	PROCEDURE TITLE	PLANT APPROVAL DATE	FIELD CHANGE REMARKS	CHANGE DESCRIPTION
NSP-MT-1, REV. 2	N/A	MAGNETIC PARTICLE EXAMINATION	6-22-83	NONE	TO COVER EXAMINATION VOLUME OF STAINLESS STEEL PIPING WELDS LESS THAN .200" WALL THICKNESS
NSP-MT-2, REV. 0	N/A	WET MAGNETIC PARTICLE EXAMINATION	6-22-83	NONE	
NSP-PT-1, REV. 2	N/A	LIQUID PENETRANT EXAMINATION	6-22-83	NONE	
NSP-UT-1, REV. 1	1	ULTRASONIC EXAMINATION OF PIPE WELDS	6-9-82	NONE	
NSP-UT-2, REV. 1	N/A	AUTOMATIC DATA RECORDING	6-22-83	NONE	
NSP-UT-3, REV. 1	N/A	ULTRASONIC EXAMINATION OF FERRITIC VESSELS	6-22-83	NONE	
NSP-UT-4, REV. 1	N/A	ULTRASONIC EXAMINATION OF STUDS, BOLTS, AND NUTS	6-22-83	NONE	
NSP-UT-12, REV. 1	N/A	ULTRASONIC EXAMINATION OF REACTOR COOLANT PUMP FLY- WHEELS	6-22-83	NONE	
NSP-VT-1, REV. 2	N/A	VISUAL EXAMINATION	6-22-83	NONE	
NSP-VT-2, REV. 2	N/A	VISUAL EXAMINATION OF HANGER ASSEMBLIES	6-22-83	NONE	
NSP-VT-3, REV. 1	N/A	VISUAL EXAMINATION OF PUMP AND VALVE INTERNAL PRESSURE BOUNDARY SURFACES	6-22-83	NONE	

NORTHERN STATES POWER COMPANY
PRAIRIE ISLAND UNIT I
PROCEDURE LISTING

APPENDIX E
TABLE III
PAGE 2 OF 2

PROCEDURE NUMBER AND REVISION	FIELD CHANGE	PROCEDURE TITLE	PLANT APPROVAL DATE	FIELD CHANGE REMARKS	CHANGE DESCRIPTION
MRS 2.4.2 GEN-23	N/A	MULTI-FREQUENCY EDDY CURRENT INSPECTION OF HEAT EXCHANGER TUBING - PRESERVICE AND INSERVICE	8-22-83	NONE	

NORTHERN STATES POWER COMPANY
PRAIRIE ISLAND - I
EQUIPMENT AND MATERIALS

APPENDIX E
TABLE IV
PAGE 1 OF 4

MATERIAL OR EQUIPMENT	TYPE OR SERIAL NUMBER	CALIBRATION DATE OR BATCH NUMBER	REMARKS
<u>ULTRASONIC:</u>			
NORTEC 131D	S/N 273	CAL: 11-30-83	
NORTEC 131D	S/N 410	CAL: 12-08-83	
NORTEC 131D	S/N 360	CAL: 12-07-83	
NORTEC 131D(MASTER)	S/N 322	CAL: 10-26-83	
SLAVE	S/N 2	CAL: 11-23-83	
<u>RECORDERS:</u>			
BRUSH 220	S/N 08343	CAL: 12-06-83	
BRUSH 220	S/N 15452	CAL: 12-01-83	
BRUSH 222	S/N 95	CAL: 12-02-83	
GOULTON TR-722	S/N 2091001	CAL: 10-17-83	
<u>TEMPERATURE GAUGES:</u>			
PTC SURFACE THERMOMETERS	S/N 568	CAL: 11-15-83	CERTIFIED BY MANUFACTURER
	S/N 571	CAL: 11-15-83	
<u>MAGNETIC PARTICLE:</u>			
MAGNAFLUX Y-6 YOKE	S/N LMT-003	CAL: 08-29-83	ONSITE QUALIFICATION
PARKER PROBE B300	S/N 130	CAL: 12-06-83	ONSITE QUALIFICATION
A.C. COIL L-10	S/N GTL-2	CAL: 09-02-83	ONSITE QUALIFICATION
BLACKLITE METER	S/N 24779	CAL: 08-29-83	
<u>ROMPOS BLOCKS:</u>			
304 S/S	S/N 785221	CERT: 4-12-80	BY NORTEC CORPORATION BY ORLA'S MACHINE SHOP, INC. BY EARLE M. JORGENSEN CO.
304 S/S	S/N LMT-008	CERT: 9-8-77	
4140 C/S	S/N 403	CERT: 6-19-81	
<u>IIW BLOCK:</u>			
ASTM A36	S/M LMT-4	CERT: 7-11-80	BY DIMAC MACHINE CO.
<u>MATERIALS:</u>			
ULTRASONIC COUPLANT	LMT-GEL	BATCH #1110812	
PENETRANT	PENETRANT	BATCH #83F038	TYPE SKL-HF/S
MAGNAFLUX	CLEANER	BATCH #83F047	TYPE SKC-NF/ZC-7B
SPOTCHECK	DEVELOPER	BATCH #83E020	TYPE SKD-NF/ZP-9B

NORTHERN STATES POWER COMPANY
PRAIRIE ISLAND - I
EQUIPMENT AND MATERIALS

APPENDIX E
TABLE IV
PAGE 2 OF 4

MATERIAL OR EQUIPMENT	TYPE OR SERIAL NUMBER	CALIBRATION DATE OR BATCH NUMBER	REMARKS
<u>ULTRASONIC TRANSDUCERS:</u>			
AEROTECH	C 29610	1/2"	2.25 MHZ
AEROTECH	E 13044	1/2"	2.25 MHZ
AEROTECH	H 10142	1/2"	1.5 MHZ
HARISONIC	S 2285	1/2" x 1/2"	1.5 MHZ
HARISONIC	T 3206	1/4"	5.0 MHZ
HARISONIC	T 6241	1/2" x 1/2"	1.0 MHZ
HARISONIC	T 6242	1/2" x 1/2"	1.0 MHZ
HARISONIC	T 7463	1/2" x 1/2"	2.25 MHZ
HARISONIC	V 6271	3/4"	2.25 MHZ
HARISONIC	V 10600	1/4"	5.0 MHZ
HARISONIC	N 979	1/2" x 1/2"	2.25 MHZ
PANAMETRIC	2225	1/2"	2.25 MHZ
<u>WESTINGHOUSE EQUIPMENT:</u>			
<u>RECORDERS:</u>			
BRUSH	S/N 0989	CAL: 10-10-83	
BRUSH	S/N 0645	CAL: 10-13-83	
BRUSH	S/N 01307	CAL: 10-12-83	
BRUSH	S/N 0533	CAL: 10-10-83	
BRUSH	S/N 30232	CAL: 10-05-83	
BRUSH	S/N 0276	CAL: 10-12-83	
<u>HP RECORDERS:</u>			
HP3968AZ	S/N 0991	CAL: 10-10-83	
HP3968AZ	S/N 0534	CAL: 10-04-83	
HP3968AZ	S/N 0990	CAL: 07-07-83	
HP3968AZ	S/N 0468	CAL: 10-11-83	
HP3968AZ	S/N 000951	CAL: 10-10-83	
HP3968AZ	S/N 0992	CAL: 10-11-83	
<u>MAIN FRAME:</u>			
MIZ 12	S/N 30241	CAL: 10-14-83	
MIZ 12	S/N 0570	CAL: 10-19-83	
MIZ 12	S/N 0557	CAL: 07-13-83	
<u>FREQUENCY PLUG-IN:</u>			
MIZ 12	S/N 30247	CAL: 10-21-83	
MIZ 12	S/N 0559	CAL: 10-14-83	
MIZ 12	S/N 0664	CAL: 10-11-83	
MIZ 12	S/N 0683	CAL: 10-14-83	

NORTHERN STATES POWER COMPANY
PRAIRIE ISLAND - I
EQUIPMENT AND MATERIALS

APPENDIX E
TABLE IV
PAGE 3 OF 4

MATERIAL OR EQUIPMENT	TYPE OR SERIAL NUMBER	CALIBRATION DATE OR BATCH NUMBER	REMARKS
<u>FREQUENCY PLUG-IN</u> CON'T:			
MIZ 12	S/N 0551	CAL: 10-19-83	
MIZ 12	S/N 00890	CAL: 10-11-83	
MIZ 12	S/N 00897	CAL: 10-14-83	
MIZ 12	S/N 0712	CAL: 10-19-83	
MIZ 12	S/N 00876	CAL: 10-14-83	
MIZ 12	S/N 0691	CAL: 09-15-83	
MIZ 12	S/N 0596	CAL: 10-19-83	
MIZ 12	S/N 0558	CAL: 10-15-83	
<u>MIXER PLUG-IN:</u>			
MIZ 12	S/N 0597	CAL: 10-14-83	
MIZ 12	S/N 0553	CAL: 10-15-83	
MIZ 12	S/N 0579	CAL: 07-08-83	
MIZ 12	S/N 0674	CAL: 10-15-83	
MIZ 12	S/N 0666	CAL: 10-14-83	
MIZ 12	S/N 01622	CAL: 07-08-83	
<u>DISPLAY MODULE:</u>			
MIZ 12	S/N 00909	CAL: 10-10-83	
MIZ 12	S/N 0678	CAL: 10-10-83	
MIZ 12	S/N 00913	CAL: 10-10-83	
MIZ 12	S/N E 1053	CAL: 10-10-83	
<u>STORAGE SCOPE:</u>			
TEKTRONIX	S/N 0572	CAL: 10-10-83	
TEKTRONIX	S/N 00922	CAL: 10-10-83	
TEKTRONIX	S/N 00918	CAL: 10-10-83	
TEKTRONIX	S/N 00904	CAL: 10-10-83	
<u>ANALYZER:</u>			
VECTOR	S/N 00938	CAL: 10-06-83	
VECTOR	S/N 01617	CAL: 10-26-83	
<u>DM-3VA:</u>			
MIXER PLUG IN	S/N 0554	CAL: 10-25-83	
MIXER PLUG IN	S/N 0667	CAL: 10-12-83	
MIXER PLUG IN	S/N 00936	CAL: 10-06-83	
MIXER PLUG IN	S/N 0563	CAL: 07-08-83	

NORTHERN STATES POWER COMPANY
 PRAIRIE ISLAND - I
 EQUIPMENT AND MATERIALS

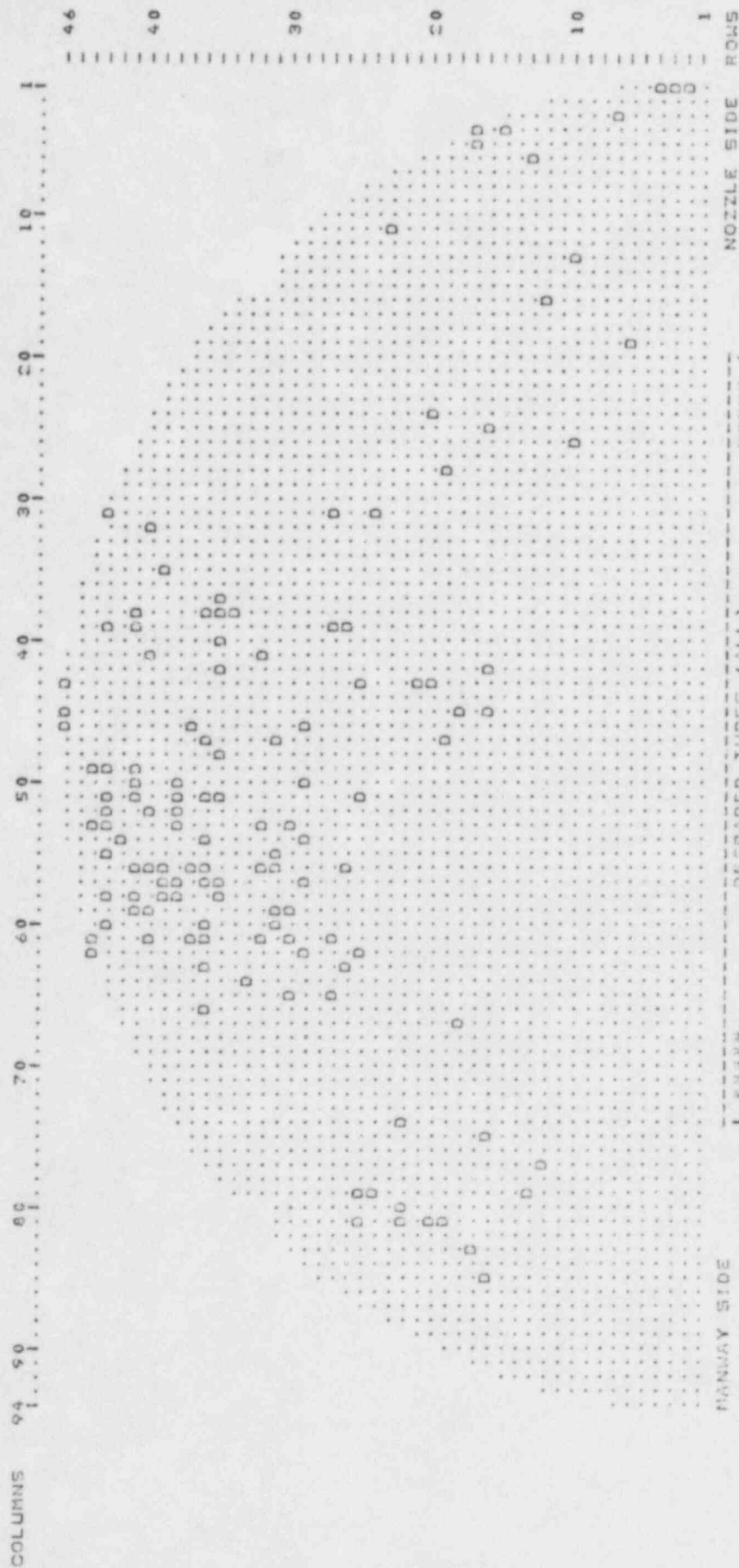
APPENDIX E
 TABLE IV
 PAGE 4 OF 4

MATERIAL OR EQUIPMENT	TYPE OR SERIAL NUMBER	CALIBRATION DATE OR BATCH NUMBER	REMARKS
<u>CONAM EQUIPMENT:</u>			
<u>HP RECORDER</u>			
HP 3968 AZ	S/N 1940A01024	CAL: 10-05-83	
<u>COMPUTER</u>			
DDA-4	S/N 2314 A0 3975	CAL: 10-01-83	
ANALOG/DIGITAL CON- VERTER AD-8	S/N 001	CAL: 10-01-83	

APPENDIX F

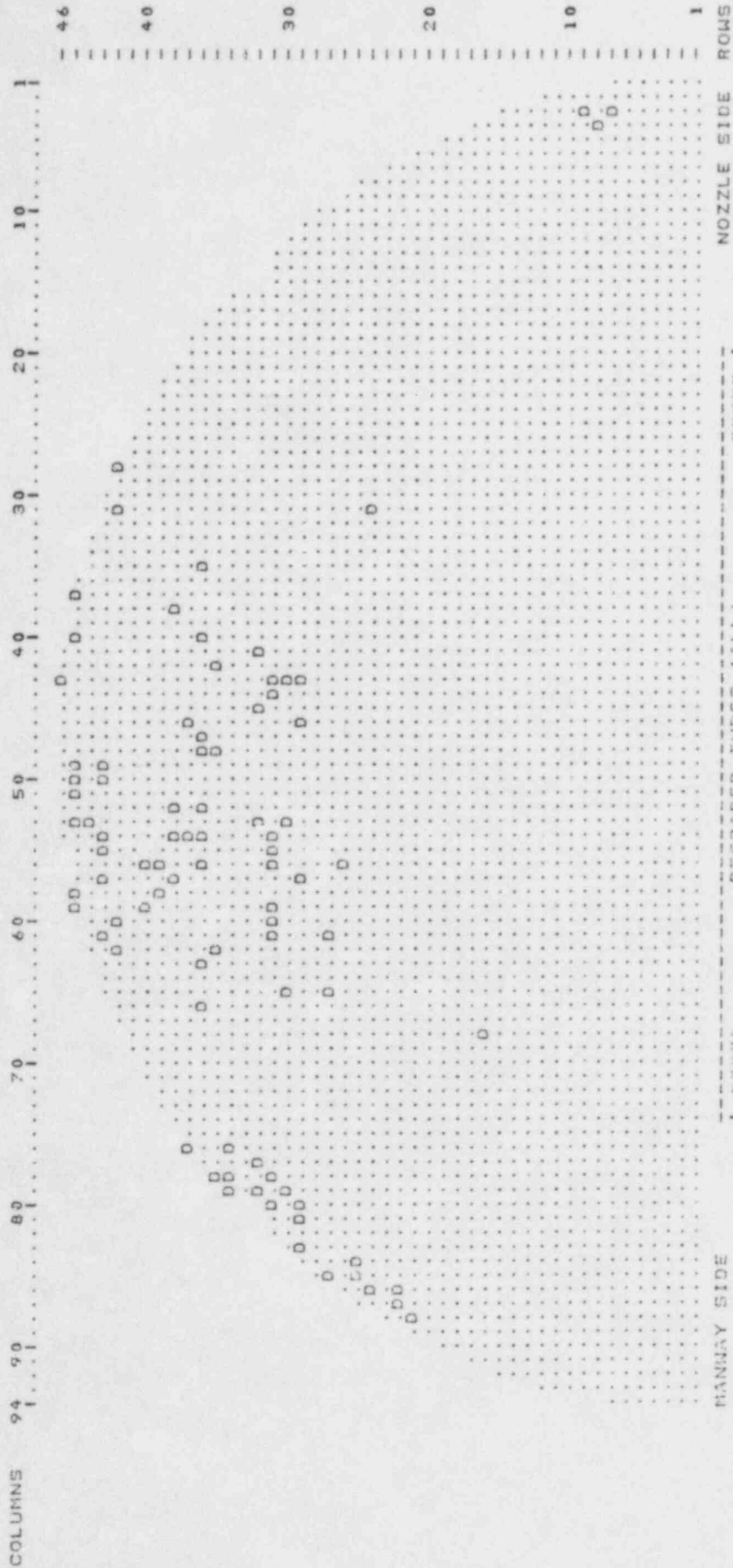
STEAM GENERATOR NO. 11
EDDY CURRENT EXAMINATION
TUBE SHEET MAPS

NORTHERN STATES POWER COMPANY
 POWER PRODUCTION MATERIALS AND SPECIAL PROCESSES SECTION
 PRAIRIE ISLAND NUCLEAR GENERATING PLANT STEAM GENERATOR TUBE MAP - WESTINGHOUSE SERIES 51



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NORTHERN STATES POWER COMPANY
 POWER PRODUCTION MATERIALS AND SPECIAL PROCESSES SECTION
 PRAIRIE ISLAND NUCLEAR GENERATING PLANT STEAM GENERATOR TUBE MAP - WESTINGHOUSE SERIES 51



MANWAY SIDE

DEGRADED TUBES (ALL)

STEAM GENERATOR NO. 1

INLET OR OUTLET NO. 1

INSPECTIONS MAPPED

REGION MAPPED TO

OUTLET (COLD LEG)

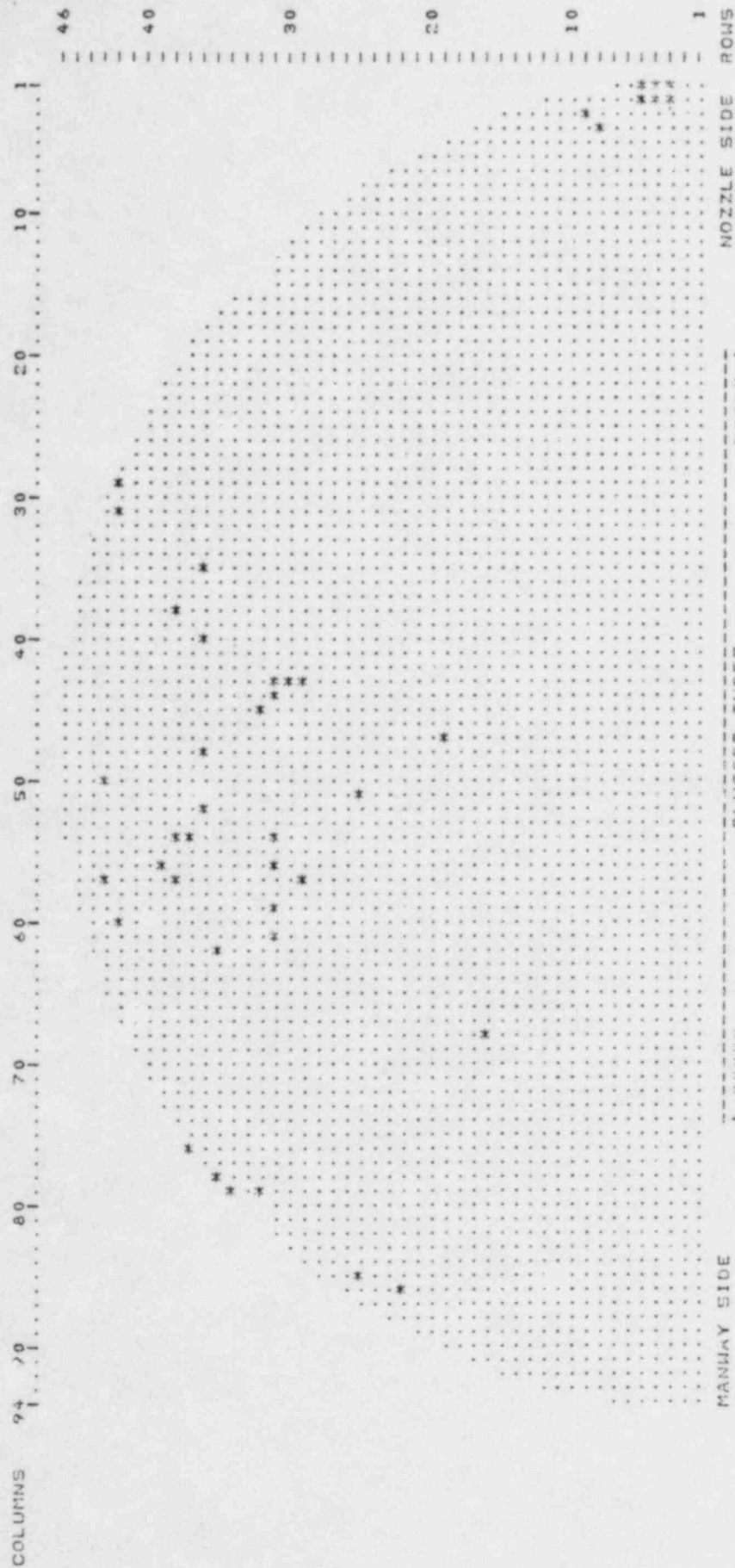
OC-8 THROUGH 89-9

TUBE SHEET

GROUND U-BEND

NOZZLE SIDE

NORTHERN STATES POWER COMPANY
 POWER PRODUCTION FACILITIES AND SPECIAL PROCESSES SECTION
 PRAIRIE ISLAND NUCLEAR GENERATING PLANT STEAM GENERATOR TUBE MAP - WESTINGHOUSE SERIES 51



STEAM GENERATOR NO.	PLUGGED TUBES	*****
INLET OR OUTLET	OUTLET (COLD LEG)	
INSTRUCTIONS MAPPED	00-0 THROUGH 99-9	
REGION MAPPED TO	TUBE SHEET	
	AROUND U-SEND	

FEB 16, 1984

PRAIRIE ISLAND NUCLEAR GENERATING PLANT
LIST OF PLUGGED STEAM GENERATOR TUBES

GEN NO.	SIDE	ROW	COL	YEAR	REMARKS/COMMENTS
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PRAIRIE ISLAND NUCLEAR GENERATING PLANT
LIST OF IMPERFECT, DEGRADED, AND DEFECTIVE TUBES

GEN NO	SIDE	ROW	COL	YEAR	FROM	TO	DEFECT OR OBS	%	REMARKS/COMMENTS
11	INLET	2	1	79	5 " ABOVE	1 " ABOVE	THINNING	100	
		3	1	80	5 " ABOVE	1 " ABOVE	THINNING	100	
		4	1	81	5 " ABOVE	1 " ABOVE	THINNING	100	
		6	19	82	5 " ABOVE	1 " ABOVE	THINNING	100	
		10	26	83			THINNING	100	
		12	36	84			THINNING	100	
		13	37	85			THINNING	100	
		15	44	86	1 " ABOVE	1 " ABOVE	THINNING	100	
		16	45	87	1 " ABOVE	1 " ABOVE	THINNING	100	
			45	88			THINNING	100	
		17	4	89	1 " ABOVE	1 " ABOVE	THINNING	100	
			45	90	1 " ABOVE	2 " ABOVE	THINNING	100	
		18	45	91			THINNING	100	
		19	45	92			THINNING	100	
		20	45	93	4 " ABOVE		THINNING	100	
		21	45	94	4 " ABOVE		THINNING	100	
		22	45	95			THINNING	100	
		23	45	96			THINNING	100	
		24	45	97			THINNING	100	
		25	43	98	21" BELOW		THINNING	100	
			51	99			THINNING	100	
			52	00			THINNING	100	
		26	56	01			THINNING	100	
			63	02			THINNING	100	
		27	31	03			THINNING	100	
			39	04			THINNING	100	
			61	05			THINNING	100	
		29	65	06			THINNING	100	
			50	07			THINNING	100	
			54	08			THINNING	100	
			57	09			THINNING	100	
				10			THINNING	100	
				11			THINNING	100	
				12			THINNING	100	
				13			THINNING	100	
				14			THINNING	100	
				15			THINNING	100	
				16			THINNING	100	
				17			THINNING	100	
				18			THINNING	100	
				19			THINNING	100	
				20			THINNING	100	
				21			THINNING	100	
				22			THINNING	100	
				23			THINNING	100	
				24			THINNING	100	
				25			THINNING	100	
				26			THINNING	100	
				27			THINNING	100	
				28			THINNING	100	
				29			THINNING	100	
				30			THINNING	100	
				31			THINNING	100	
				32			THINNING	100	
				33			THINNING	100	
				34			THINNING	100	
				35			THINNING	100	
				36			THINNING	100	
				37			THINNING	100	
				38			THINNING	100	
				39			THINNING	100	
				40			THINNING	100	
				41			THINNING	100	
				42			THINNING	100	
				43			THINNING	100	
				44			THINNING	100	
				45			THINNING	100	
				46			THINNING	100	
				47			THINNING	100	
				48			THINNING	100	
				49			THINNING	100	
				50			THINNING	100	
				51			THINNING	100	
				52			THINNING	100	
				53			THINNING	100	
				54			THINNING	100	
				55			THINNING	100	
				56			THINNING	100	
				57			THINNING	100	
				58			THINNING	100	
				59			THINNING	100	
				60			THINNING	100	
				61			THINNING	100	
				62			THINNING	100	
				63			THINNING	100	
				64			THINNING	100	
				65			THINNING	100	
				66			THINNING	100	
				67			THINNING	100	
				68			THINNING	100	
				69			THINNING	100	
				70			THINNING	100	
				71			THINNING	100	
				72			THINNING	100	
				73			THINNING	100	
				74			THINNING	100	
				75			THINNING	100	
				76			THINNING	100	
				77			THINNING	100	
				78			THINNING	100	
				79			THINNING	100	
				80			THINNING	100	
				81			THINNING	100	
				82			THINNING	100	
				83			THINNING	100	
				84			THINNING	100	
				85			THINNING	100	
				86			THINNING	100	
				87			THINNING	100	
				88			THINNING	100	
				89			THINNING	100	
				90			THINNING	100	
				91			THINNING	100	
				92			THINNING	100	
				93			THINNING	100	
				94			THINNING	100	
				95			THINNING	100	
				96			THINNING	100	
				97			THINNING	100	
				98			THINNING	100	
				99			THINNING	100	
				00			THINNING	100	
				01			THINNING	100	
				02			THINNING	100	
				03			THINNING	100	
				04			THINNING	100	
				05			THINNING	100	
				06			THINNING	100	
				07			THINNING	100	
				08			THINNING	100	
				09			THINNING	100	
				10			THINNING	100	
				11			THINNING	100	
				12			THINNING	100	
				13			THINNING	100	
				14			THINNING	100	
				15			THINNING	100	
				16			THINNING	100	
				17			THINNING	100	
				18			THINNING	100	
				19			THINNING	100	
				20			THINNING	100	
				21			THINNING	100	
				22			THINNING	100	
				23			THINNING	100	
				24			THINNING	100	
				25			THINNING	100	
				26			THINNING	100	
				27			THINNING	100	
				28			THINNING	100	
				29			THINNING	100	
				30			THINNING	100	
				31			THINNING	100	
				32			THINNING	100	
				33			THINNING	100	
				34			THINNING	100	
				35			THINNING	100	
				36			THINNING	100	
				37			THINNING	100	
				38			THINNING	100	
				39			THINNING	100	
				40			THINNING	100	
				41			THINNING	100	
				42			THINNING	100	
				43			THINNING	100	
				44			THINNING	100	
				45			THINNING	100	
				46			THINNING	100	
				47			THINNING	100	
				48			THINNING	100	
				49			THINNING	100	
				50			THINNING	100	
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				57			THINNING	100	
				58			THINNING	100	
				59			THINNING	100	
				60			THINNING	100	
				61			THINNING	100	
				62			THINNING	100	
				63			THINNING	100	
				64			THINNING	100	
				65			THINNING	100	
				66			THINNING	100	
				67			THINNING	100	
				68			THINNING	100	
				69			THINNING	100	
				70			THINNING	100	
				71			THINNING	100	
				72			THINNING	100	
				73			THINNING	100	
				74			THINNING	100	
				75			THINNING	100	
				76			THINNING	100	
				77			THINNING	100	
				78			THINNING	100	
				79			THINNING	100	
				80			THINNING	100	
				81			THINNING	100	
				82			THINNING	100	
				83			THINNING	100	
				84			THINNING	100	
				85			THINNING	100	
				86			THINNING	100	
				87			THINNING	100	
				88			THINNING	100	
				89			THINNING	100	
				90			THINNING	100	
				91			THINNING	100	
				92			THINNING	100	
				93			THINNING	100	
				94			THINNING	100	
				95			THINNING	100	
				96			THINNING	100	
				97			THINNING	100	
				98					

PRAIRIE ISLAND NUCLEAR GENERATING PLANT
LIST OF IMPERFECT, DEGRADED, AND DEFECTIVE TUBES

GEN NO.	SIDE	ROW	COL	YEAR	FROM	TO	DEFECT OR OSS	%	REMARKS/COMMENTS
11	INLET	29	57	8	3RD	AVE	THINNING	0	
		30	53		3RD	AVE	THINNING	0	
			59		3RD	AVE	THINNING	0	
			61		3RD	AVE	THINNING	0	
			65		3RD	AVE	THINNING	0	
		31	47		3RD	AVE	THINNING	0	
			55		3RD	AVE	THINNING	0	
			56		3RD	AVE	THINNING	0	
			59		3RD	AVE	THINNING	0	
			60		3RD	AVE	THINNING	0	
		32	41		3RD	AVE	THINNING	0	
			53		3RD	AVE	THINNING	0	
			56		3RD	AVE	THINNING	0	
			61		3RD	AVE	THINNING	0	
		33	64		3RD	AVE	THINNING	0	
			68		3RD	AVE	THINNING	0	
		35	70		3RD	AVE	THINNING	0	
			70		3RD	AVE	THINNING	0	
			72		3RD	AVE	THINNING	0	
			78		3RD	AVE	THINNING	0	
			81		3RD	AVE	THINNING	0	
			87		3RD	AVE	THINNING	0	
		36	88		3RD	AVE	THINNING	0	
			90		3RD	AVE	THINNING	0	
			91		3RD	AVE	THINNING	0	
			94		3RD	AVE	THINNING	0	
			96		3RD	AVE	THINNING	0	

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PRAIRIE ISLAND NUCLEAR GENERATING PLANT
LIST OF IMPERFECT, DEGRADED, AND DEFECTIVE TUBES

GEN NO.	SIDE	ROW	COL	YEAR	FROM	TO	DEFECT OR OBS	%	REMARKS/COMMENTS
11	INLET	36	56	83	2ND AVB		THINNING	3	
				84	4TH AVB		THINNING	3	
				85	4TH AVB		THINNING	3	
			57	86	4TH AVB		THINNING	3	
			60	87	4TH AVB		THINNING	3	
			61	88	2ND AVB		THINNING	3	
				89	2ND AVB		THINNING	3	
				90	2ND AVB		THINNING	3	
				91	3RD AVB		THINNING	3	
			63	92	3RD AVB		THINNING	3	
				93	3RD AVB		THINNING	3	
			66	94	3RD AVB		THINNING	3	
				95	3RD AVB		THINNING	3	
		37	46	96	3RD AVB		THINNING	3	
				97	3RD AVB		THINNING	3	
			56	98	3RD AVB		THINNING	3	
			61	99	3RD AVB		THINNING	3	
		38	50	00	3RD AVB		THINNING	3	
			51	01	3RD AVB		THINNING	3	
				02	3RD AVB		THINNING	3	
			52	03	3RD AVB		THINNING	3	
				04	3RD AVB		THINNING	3	
			53	05	3RD AVB		THINNING	3	
				06	3RD AVB		THINNING	3	
				07	3RD AVB		THINNING	3	
				08	4TH AVB		THINNING	3	
			57	09	1ST AVB		THINNING	3	
				10	1ST AVB		THINNING	3	
				11	2ND AVB		THINNING	3	
				12	2ND AVB		THINNING	3	
				13	3RD AVB		THINNING	3	
			58	14	1ST AVB		THINNING	3	
				15	2ND AVB		THINNING	3	
				16	3RD AVB		THINNING	3	
				17	3RD AVB		THINNING	3	
		39	35	18	1ST AVB		THINNING	3	
			56	19	1ST AVB		THINNING	3	
				20	1ST AVB		THINNING	3	
				21	2ND AVB		THINNING	3	
				22	2ND AVB		THINNING	3	
				23	4TH AVB		THINNING	3	
				24	4TH AVB		THINNING	3	
			57	25	4TH AVB		THINNING	3	
			58	26	2ND AVB		THINNING	3	
				27	3RD AVB		THINNING	3	
				28	3RD AVB		THINNING	3	
				29	4TH AVB		THINNING	3	
				30	4TH AVB		THINNING	3	
				31	4TH AVB		THINNING	3	
				32	3RD SUP		THINNING	3	
		40	41	33	1ST AVB		THINNING	3	
				34	2ND AVB		THINNING	3	
			52	35	3RD AVB		THINNING	3	
				36	3RD AVB		THINNING	3	
			56	37	4TH AVB		THINNING	3	
				38	4TH AVB		THINNING	3	
			59	39	2ND AVB		THINNING	3	
				40	2ND AVB		THINNING	3	
				41	2ND AVB		THINNING	3	
				42	3RD AVB		THINNING	3	
				43	3RD AVB		THINNING	3	
				44	4TH AVB		THINNING	3	
				45	4TH AVB		THINNING	3	
			61	46	2ND AVB		THINNING	3	
				47	2ND AVB		THINNING	3	
				48	3RD AVB		THINNING	3	
				49	3RD AVB		THINNING	3	
				50	4TH AVB		THINNING	3	
				51	4TH AVB		THINNING	3	
				52	4TH AVB		THINNING	3	
				53	4TH AVB		THINNING	3	
				54	4TH AVB		THINNING	3	
				55	4TH AVB		THINNING	3	
				56	4TH AVB		THINNING	3	
				57	4TH AVB		THINNING	3	
				58	4TH AVB		THINNING	3	
				59	4TH AVB		THINNING	3	
				60	4TH AVB		THINNING	3	
				61	4TH AVB		THINNING	3	
				62	4TH AVB		THINNING	3	
				63	4TH AVB		THINNING	3	
				64	4TH AVB		THINNING	3	
				65	4TH AVB		THINNING	3	
				66	4TH AVB		THINNING	3	
				67	4TH AVB		THINNING	3	
				68	4TH AVB		THINNING	3	
				69	4TH AVB		THINNING	3	
				70	4TH AVB		THINNING	3	
				71	4TH AVB		THINNING	3	
				72	4TH AVB		THINNING	3	
				73	4TH AVB		THINNING	3	
				74	4TH AVB		THINNING	3	
				75	4TH AVB		THINNING	3	
				76	4TH AVB		THINNING	3	
				77	4TH AVB		THINNING	3	
				78	4TH AVB		THINNING	3	
				79	4TH AVB		THINNING	3	
				80	4TH AVB		THINNING	3	
				81	4TH AVB		THINNING	3	
				82	4TH AVB		THINNING	3	
				83	4TH AVB		THINNING	3	
				84	4TH AVB		THINNING	3	
				85	4TH AVB		THINNING	3	
				86	4TH AVB		THINNING	3	
				87	4TH AVB		THINNING	3	
				88	4TH AVB		THINNING	3	
				89	4TH AVB		THINNING	3	
				90	4TH AVB		THINNING	3	
				91	4TH AVB		THINNING	3	
				92	4TH AVB		THINNING	3	
				93	4TH AVB		THINNING	3	
				94	4TH AVB		THINNING	3	
				95	4TH AVB		THINNING	3	
				96	4TH AVB		THINNING	3	
				97	4TH AVB		THINNING	3	
				98	4TH AVB		THINNING	3	
				99	4TH AVB		THINNING	3	
				00	4TH AVB		THINNING	3	
				01	4TH AVB		THINNING	3	
				02	4TH AVB		THINNING	3	
				03	4TH AVB		THINNING	3	
				04	4TH AVB		THINNING	3	
				05	4TH AVB		THINNING	3	
				06	4TH AVB		THINNING	3	
				07	4TH AVB		THINNING	3	
				08	4TH AVB		THINNING	3	
				09	4TH AVB		THINNING	3	
				10	4TH AVB		THINNING	3	
				11	4TH AVB		THINNING	3	
				12	4TH AVB		THINNING	3	
				13	4TH AVB		THINNING	3	
				14	4TH AVB		THINNING	3	
				15	4TH AVB		THINNING	3	
				16	4TH AVB		THINNING	3	
				17	4TH AVB		THINNING	3	
				18	4TH AVB		THINNING	3	
				19	4TH AVB		THINNING	3	
				20	4TH AVB		THINNING	3	
				21	4TH AVB		THINNING	3	
				22	4TH AVB		THINNING	3	
				23	4TH AVB		THINNING	3	
				24	4TH AVB		THINNING	3	
				25	4TH AVB		THINNING	3	
				26	4TH AVB		THINNING	3	
				27	4TH AVB		THINNING	3	
				28	4TH AVB		THINNING	3	
				29	4TH AVB		THINNING	3	
				30	4TH AVB		THINNING	3	
				31	4TH AVB		THINNING	3	
				32	4TH AVB		THINNING	3	
				33	4TH AVB		THINNING	3	
				34	4TH AVB		THINNING	3	
				35	4TH AVB		THINNING	3	
				36	4TH AVB		THINNING	3	
				37	4TH AVB		THINNING	3	
				38	4TH AVB		THINNING	3	
				39	4TH AVB		THINNING	3	
				40	4TH AVB		THINNING	3	
				41	4TH AVB		THINNING	3	
				42	4TH AVB		THINNING	3	
				43	4TH AVB		THINNING	3	
				44	4TH AVB		THINNING	3	
				45	4TH AVB		THINNING	3	
				46	4TH AVB		THINNING	3	
				47	4TH AVB		THINNING	3	
				48	4TH AVB		THINNING	3	
				49	4TH AVB		THINNING	3	
				50	4TH AVB		THINNING	3	
				51	4TH AVB		THINNING	3	
				52	4TH AVB		THINNING	3	
				53	4TH AVB		THINNING	3	
				54	4TH AVB		THINNING	3	
				55	4TH AVB		THINNING	3	
				56	4TH AVB		THINNING	3	
				57	4TH AVB		THINNING	3	
				58	4TH AVB		THINNING	3	
				59	4TH AVB		THINNING	3	
				60	4TH AVB		THINNING	3	
				61	4TH AVB		THINNING	3	
				62	4TH AVB		THINNING	3	
				63	4TH AVB		THINNING	3	
				64	4TH AVB		THINNING	3	
				65	4TH AVB		THINNING	3	
				66	4TH AVB		THINNING	3	
				67	4TH AVB		THINNING	3	
				68	4TH AVB		THINNING	3	
				69	4TH AVB		THINNING	3	
				70	4TH AVB		THINNING	3	
				71	4TH AVB		THINNING	3	
				72	4TH AVB		THINNING	3	
				73	4TH AVB		THINNING	3	
				74	4TH AVB		THINNING	3	
				75	4TH AVB		THINNING	3	
				76	4TH AVB		THINNING	3	
				77	4TH AVB		THINNING	3	
				78	4TH AVB		THINNING	3	
				79	4TH AVB		THINNING	3	
				80	4TH AVB		THINNING	3	
				81	4TH AVB		THINNING	3	
				82	4TH AVB		THINNING	3	
				83	4TH AVB		THINNING	3	

FEB 16, 1984

PRAIRIE ISLAND NUCLEAR GENERATING PLANT
LIST OF IMPERFECT, DEGRADED, AND DEFECTIVE TUBES

GEN NO.	SIDE	ROW	COL	YEAR	FROM	TO	DEFECT OR OBS	%	REMARKS/COMMENTS
11	INLET	41	50	8	1ST	AVB	THINNING	0	
			51	8	2ND	AVB	THINNING	0	
			56	8	3RD	AVB	THINNING	0	
			58	8	4TH	AVB	THINNING	0	
			59	8	5TH	AVB	THINNING	0	
		42	54	8	6TH	AVB	THINNING	0	
				8	7TH	AVB	THINNING	0	
				8	8TH	AVB	THINNING	0	
		43	60	8	9TH	AVB	THINNING	0	
			61	8	10TH	AVB	THINNING	0	
			62	8	11TH	AVB	THINNING	0	
			63	8	12TH	AVB	THINNING	0	
			64	8	13TH	AVB	THINNING	0	
			65	8	14TH	AVB	THINNING	0	
			66	8	15TH	AVB	THINNING	0	
			67	8	16TH	AVB	THINNING	0	
			68	8	17TH	AVB	THINNING	0	
			69	8	18TH	AVB	THINNING	0	
			70	8	19TH	AVB	THINNING	0	
			71	8	20TH	AVB	THINNING	0	
			72	8	21TH	AVB	THINNING	0	
			73	8	22TH	AVB	THINNING	0	
			74	8	23TH	AVB	THINNING	0	
			75	8	24TH	AVB	THINNING	0	
			76	8	25TH	AVB	THINNING	0	
			77	8	26TH	AVB	THINNING	0	
			78	8	27TH	AVB	THINNING	0	
			79	8	28TH	AVB	THINNING	0	
			80	8	29TH	AVB	THINNING	0	
			81	8	30TH	AVB	THINNING	0	
			82	8	31TH	AVB	THINNING	0	
			83	8	32TH	AVB	THINNING	0	
			84	8	33TH	AVB	THINNING	0	
			85	8	34TH	AVB	THINNING	0	
			86	8	35TH	AVB	THINNING	0	
			87	8	36TH	AVB	THINNING	0	
			88	8	37TH	AVB	THINNING	0	
			89	8	38TH	AVB	THINNING	0	
			90	8	39TH	AVB	THINNING	0	
			91	8	40TH	AVB	THINNING	0	
			92	8	41TH	AVB	THINNING	0	
			93	8	42TH	AVB	THINNING	0	
			94	8	43TH	AVB	THINNING	0	
			95	8	44TH	AVB	THINNING	0	
			96	8	45TH	AVB	THINNING	0	
			97	8	46TH	AVB	THINNING	0	
			98	8	47TH	AVB	THINNING	0	
			99	8	48TH	AVB	THINNING	0	
			100	8	49TH	AVB	THINNING	0	
			101	8	50TH	AVB	THINNING	0	
			102	8	51TH	AVB	THINNING	0	
			103	8	52TH	AVB	THINNING	0	
			104	8	53TH	AVB	THINNING	0	
			105	8	54TH	AVB	THINNING	0	
			106	8	55TH	AVB	THINNING	0	
			107	8	56TH	AVB	THINNING	0	
			108	8	57TH	AVB	THINNING	0	
			109	8	58TH	AVB	THINNING	0	
			110	8	59TH	AVB	THINNING	0	
			111	8	60TH	AVB	THINNING	0	
			112	8	61TH	AVB	THINNING	0	
			113	8	62TH	AVB	THINNING	0	
			114	8	63TH	AVB	THINNING	0	
			115	8	64TH	AVB	THINNING	0	
			116	8	65TH	AVB	THINNING	0	
			117	8	66TH	AVB	THINNING	0	
			118	8	67TH	AVB	THINNING	0	
			119	8	68TH	AVB	THINNING	0	
			120	8	69TH	AVB	THINNING	0	
			121	8	70TH	AVB	THINNING	0	
			122	8	71TH	AVB	THINNING	0	
			123	8	72TH	AVB	THINNING	0	
			124	8	73TH	AVB	THINNING	0	
			125	8	74TH	AVB	THINNING	0	
			126	8	75TH	AVB	THINNING	0	
			127	8	76TH	AVB	THINNING	0	
			128	8	77TH	AVB	THINNING	0	
			129	8	78TH	AVB	THINNING	0	
			130	8	79TH	AVB	THINNING	0	
			131	8	80TH	AVB	THINNING	0	
			132	8	81TH	AVB	THINNING	0	
			133	8	82TH	AVB	THINNING	0	
			134	8	83TH	AVB	THINNING	0	
			135	8	84TH	AVB	THINNING	0	
			136	8	85TH	AVB	THINNING	0	
			137	8	86TH	AVB	THINNING	0	
			138	8	87TH	AVB	THINNING	0	
			139	8	88TH	AVB	THINNING	0	
			140	8	89TH	AVB	THINNING	0	
			141	8	90TH	AVB	THINNING	0	
			142	8	91TH	AVB	THINNING	0	
			143	8	92TH	AVB	THINNING	0	
			144	8	93TH	AVB	THINNING	0	
			145	8	94TH	AVB	THINNING	0	
			146	8	95TH	AVB	THINNING	0	
			147	8	96TH	AVB	THINNING	0	
			148	8	97TH	AVB	THINNING	0	
			149	8	98TH	AVB	THINNING	0	
			150	8	99TH	AVB	THINNING	0	
			151	8	100TH	AVB	THINNING	0	
			152	8	101TH	AVB	THINNING	0	
			153	8	102TH	AVB	THINNING	0	
			154	8	103TH	AVB	THINNING	0	
			155	8	104TH	AVB	THINNING	0	
			156	8	105TH	AVB	THINNING	0	
			157	8	106TH	AVB	THINNING	0	
			158	8	107TH	AVB	THINNING	0	
			159	8	108TH	AVB	THINNING	0	
			160	8	109TH	AVB	THINNING	0	
			161	8	110TH	AVB	THINNING	0	
			162	8	111TH	AVB	THINNING	0	
			163	8	112TH	AVB	THINNING	0	
			164	8	113TH	AVB	THINNING	0	
			165	8	114TH	AVB	THINNING	0	
			166	8	115TH	AVB	THINNING	0	
			167	8	116TH	AVB	THINNING	0	
			168	8	117TH	AVB	THINNING	0	
			169	8	118TH	AVB	THINNING	0	
			170	8	119TH	AVB	THINNING	0	
			171	8	120TH	AVB	THINNING	0	
			172	8	121TH	AVB	THINNING	0	
			173	8	122TH	AVB	THINNING	0	
			174	8	123TH	AVB	THINNING	0	
			175	8	124TH	AVB	THINNING	0	
			176	8	125TH	AVB	THINNING	0	
			177	8	126TH	AVB	THINNING	0	
			178	8	127TH	AVB	THINNING	0	
			179	8	128TH	AVB	THINNING	0	
			180	8	129TH	AVB	THINNING	0	
			181	8	130TH	AVB	THINNING	0	
			182	8	131TH	AVB	THINNING	0	
			183	8	132TH	AVB	THINNING	0	
			184	8	133TH	AVB	THINNING	0	
			185	8	134TH	AVB	THINNING	0	
			186	8	135TH	AVB	THINNING	0	
			187	8	136TH	AVB	THINNING	0	
			188	8	137TH	AVB	THINNING	0	
			189	8	138TH	AVB	THINNING	0	
			190	8	139TH	AVB	THINNING	0	
			191	8	140TH	AVB	THINNING	0	
			192	8	141TH	AVB	THINNING	0	
			193	8	142TH	AVB	THINNING	0	
			194	8	143TH	AVB	THINNING	0	
			195	8	144TH	AVB	THINNING	0	
			196	8	145TH	AVB	THINNING	0	
			197	8	146TH	AVB	THINNING	0	
			198	8	147TH	AVB	THINNING	0	
			199	8	148TH	AVB	THINNING	0	
			200	8	149TH	AVB	THINNING	0	
			201	8	150TH	AVB	THINNING	0	
			202	8	151TH	AVB	THINNING	0	
			203	8	152TH	AVB	THINNING	0	
			204	8	153TH	AVB	THINNING	0	
			205	8	154TH	AVB	THINNING	0	
			206	8	155TH	AVB	THINNING	0	
			207	8	156TH	AVB	THINNING	0	
			208	8	157TH	AVB	THINNING	0	
			209	8	158TH	AVB	THINNING	0	
			210	8	159TH	AVB	THINNING	0	
			211	8	160TH	AVB	THINNING	0	
			212	8	161TH	AVB	THINNING	0	
			213	8	162TH	AVB	THINNING	0	
			214	8	163TH	AVB	THINNING	0	
			215	8	164TH	AVB	THINNING	0	
			216	8	165TH	AVB	THINNING	0	
			217	8	166TH	AVB	THINNING	0	
			218	8	167TH	AVB	THINNING	0	
			219	8	168TH	AVB	THINNING	0	
			220	8	169TH	AVB	THINNING	0	
			221	8	170TH	AVB	THINNING	0	
			222	8	171TH	AVB	THINNING	0	
			223	8	172TH	AVB	THINNING	0	
			224	8	173TH	AVB	THINNING	0	
			225	8	174TH	AVB	THINNING	0	
			226	8	175TH	AVB	THINNING	0	
			227	8	176TH	AVB	THINNING	0	
			228	8	177TH	AVB	THINNING	0	
			229	8	178TH	AVB	THINNING	0	
			230	8	179TH	AVB	THINNING	0	
			231	8	180TH	AVB	THINNING	0	
			232	8	181TH	AVB	THINNING	0	
			233	8	182TH	AVB	THINNING	0	
			234	8	183TH	AVB	THINNING	0	
			235	8	184TH	AVB	THINNING	0	
			236	8	185TH	AVB	THINNING	0	
			237	8	186TH	AVB	THINNING	0	
			238	8	187TH	AVB	TH		

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PRAIRIE ISLAND NUCLEAR GENERATING PLANT
LIST OF IMPERFECT, DEGRADED, AND DEFECTIVE TUBES

GEN NO.	SIDE	ROW	COL	YEAR	FROM	TO	DEFECT OR OBS	%	REMARKS/COMMENTS
11	OUTLET	30	43	81-	3RD AVB		THINNING	100	
			53	81-	4TH AVB		THINNING	100	
				81-	1ST AVB		THINNING	100	
				81-	2ND AVB		THINNING	100	
				81-	3RD AVB		THINNING	100	
			65	81-	2ND AVB		THINNING	100	
			79	81-	3RD AVB		THINNING	100	
		31	43	81-	1ST SUP		THINNING	100	
				81-	2ND AVB		THINNING	100	
				81-	3RD AVB		THINNING	100	
				81-	4TH AVB		THINNING	100	
			44	81-	1ST AVB		THINNING	100	
				81-	2ND AVB		THINNING	100	
				81-	3RD AVB		THINNING	100	
			54	81-	2ND AVB		THINNING	100	
				81-	3RD AVB		THINNING	100	
				81-	4TH AVB		THINNING	100	
			55	81-	3RD AVB		THINNING	100	
			56	81-	2ND AVB		THINNING	100	
				81-	3RD AVB		THINNING	100	
				81-	4TH AVB		THINNING	100	
			59	81-	4TH AVB		THINNING	100	
			60	81-	3RD AVB		THINNING	100	
			61	81-	2ND AVB		THINNING	100	
				81-	3RD AVB		THINNING	100	
			78	81-	1ST SUP		THINNING	100	
			80	81-	2ND SUP		THINNING	100	
		32	41	81-	1ST SUP		THINNING	100	
			45	81-	2ND AVB		THINNING	100	
				81-	3RD AVB		THINNING	100	
			53	81-	2ND AVB		THINNING	100	
				81-	3RD AVB		THINNING	100	
			77	81-	1ST SUP		THINNING	100	
			79	81-	1ST SUP		THINNING	100	
		34	76	81-	1ST SUP		THINNING	100	
			79	81-	2ND SUP		THINNING	100	
		35	42	81-	1ST AVB		THINNING	100	
				81-	2ND AVB		THINNING	100	
			48	81-	4TH AVB		THINNING	100	
			62	81-	4TH AVB		THINNING	100	
			78	81-	2ND SUP		THINNING	100	
		36	35	81-	2ND SUP		THINNING	100	
				81-	1ST AVB		THINNING	100	
				81-	2ND AVB		THINNING	100	
				81-	3RD AVB		THINNING	100	
			40	81-	4TH AVB		THINNING	100	
				81-	1ST AVB		THINNING	100	
				81-	2ND AVB		THINNING	100	
				81-	3RD AVB		THINNING	100	
			47	81-	4TH AVB		THINNING	100	
			48	81-	2ND AVB		THINNING	100	
				81-	3RD AVB		THINNING	100	
			52	81-	2ND AVB		THINNING	100	
			54	81-	2ND AVB		THINNING	100	
			56	81-	2ND AVB		THINNING	100	
				81-	4TH AVB		THINNING	100	
			63	81-	3RD AVB		THINNING	100	
			66	81-	3RD AVB		THINNING	100	
		37	46	81-	3RD AVB		THINNING	100	
			54	81-	3RD AVB		THINNING	100	
			76	81-	1ST SUP		THINNING	100	
		38	38	81-	4TH AVB		THINNING	100	
			52	81-	3RD AVB		THINNING	100	
			54	81-	2ND AVB		THINNING	100	
				81-	3RD AVB		THINNING	100	
				81-	4TH AVB		THINNING	100	
			57	81-	1ST AVB		THINNING	100	
				81-	2ND AVB		THINNING	100	
		39	56	81-	1ST AVB		THINNING	100	
				81-	2ND AVB		THINNING	100	
			58	81-	2ND AVB		THINNING	100	
				81-	3RD AVB		THINNING	100	
				81-	4TH AVB		THINNING	100	
		40	56	81-	4TH AVB		THINNING	100	
			59	81-	3RD AVB		THINNING	100	
				81-	4TH AVB		THINNING	100	
		42	28	81-	3RD SUP		THINNING	100	

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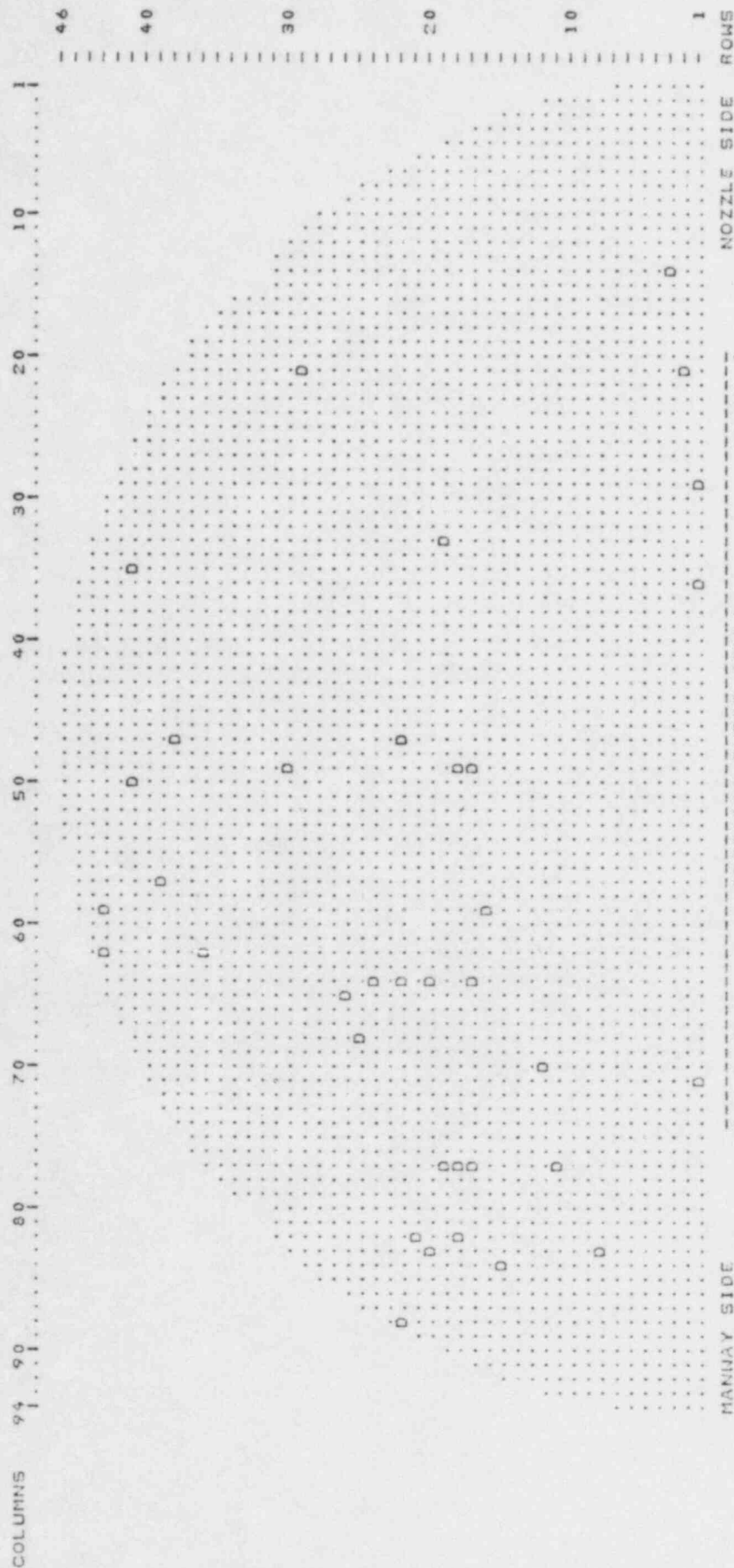
PRAIRIE ISLAND NUCLEAR GENERATING PLANT
LIST OF IMPERFECT, DEGRADED, AND DEFECTIVE TUBES

GEN NO.	SIDE	ROW	COL	YEAR	FROM	TO	DEFECT OR OBS	%	REMARKS/COMMENTS
11	OUTLET	42	31	81	3RD	SUP	THINNING	38	
			62	82	1ST	SUP	THINNING	00	
		43	49	83	1ST	SUP	THINNING	00	
				81	1ST	SUP	THINNING	00	
			50	81	3RD	AVB	THINNING	00	
				81	4TH	AVB	THINNING	00	
				81	3RD	AVB	THINNING	00	
				81	4TH	AVB	THINNING	00	
				83	1ST	SUP	THINNING	00	
				83	4TH	AVB	THINNING	00	
				83	3RD	AVB	THINNING	00	
				83	4TH	AVB	THINNING	00	
		44	33	81	3RD	AVB	THINNING	00	
			63	83	1ST	SUP	THINNING	00	
		45	72	83	1ST	SUP	THINNING	00	
				83	3RD	SUP	THINNING	00	
			40	83	3RD	SUP	THINNING	00	
				83	1ST	SUP	THINNING	00	
				83	1ST	SUP	THINNING	00	
				83	1ST	SUP	THINNING	00	
				83	1ST	SUP	THINNING	00	
				83	1ST	SUP	THINNING	00	
		46	53	83	3RD	SUP	THINNING	44	
			43	81	3RD	AVB	THINNING	00	
			43	81	3RD	AVB	THINNING	00	
			43	81	3RD	AVB	THINNING	00	
			43	81	3RD	AVB	THINNING	00	
			43	81	3RD	AVB	THINNING	00	
			43	81	3RD	AVB	THINNING	00	
			43	81	3RD	AVB	THINNING	00	
			43	81	3RD	AVB	THINNING	00	
			43	81	3RD	AVB	THINNING	00	
			43	81	3RD	AVB	THINNING	00	
			43	81	3RD	AVB	THINNING	00	
			43	81	3RD	AVB	THINNING	00	
			43	81	3RD	AVB	THINNING	00	
			43	81	3RD	AVB	THINNING	00	
			43	81	3RD	AVB	THINNING	00	
			43	81	3RD	AVB	THINNING	00	

APPENDIX G

STEAM GENERATOR NO. 12
EDDY CURRENT EXAMINATIONS
TUBE SHEET MAPS

NORTHERN STATES POWER COMPANY
POWER PRODUCTION MATERIALS AND SPECIAL PROCESSES SECTION
PRAIRIE ISLAND NUCLEAR GENERATING PLANT STEAM GENERATOR TUBE MAP - WESTINGHOUSE SERIES 51



MANWAY SIDE

NOZZLE SIDE

ROWS

COLUMNS

DEGRADED TUBES (ALL)

STEAM GENERATOR

INLET OR OUTLET NO.

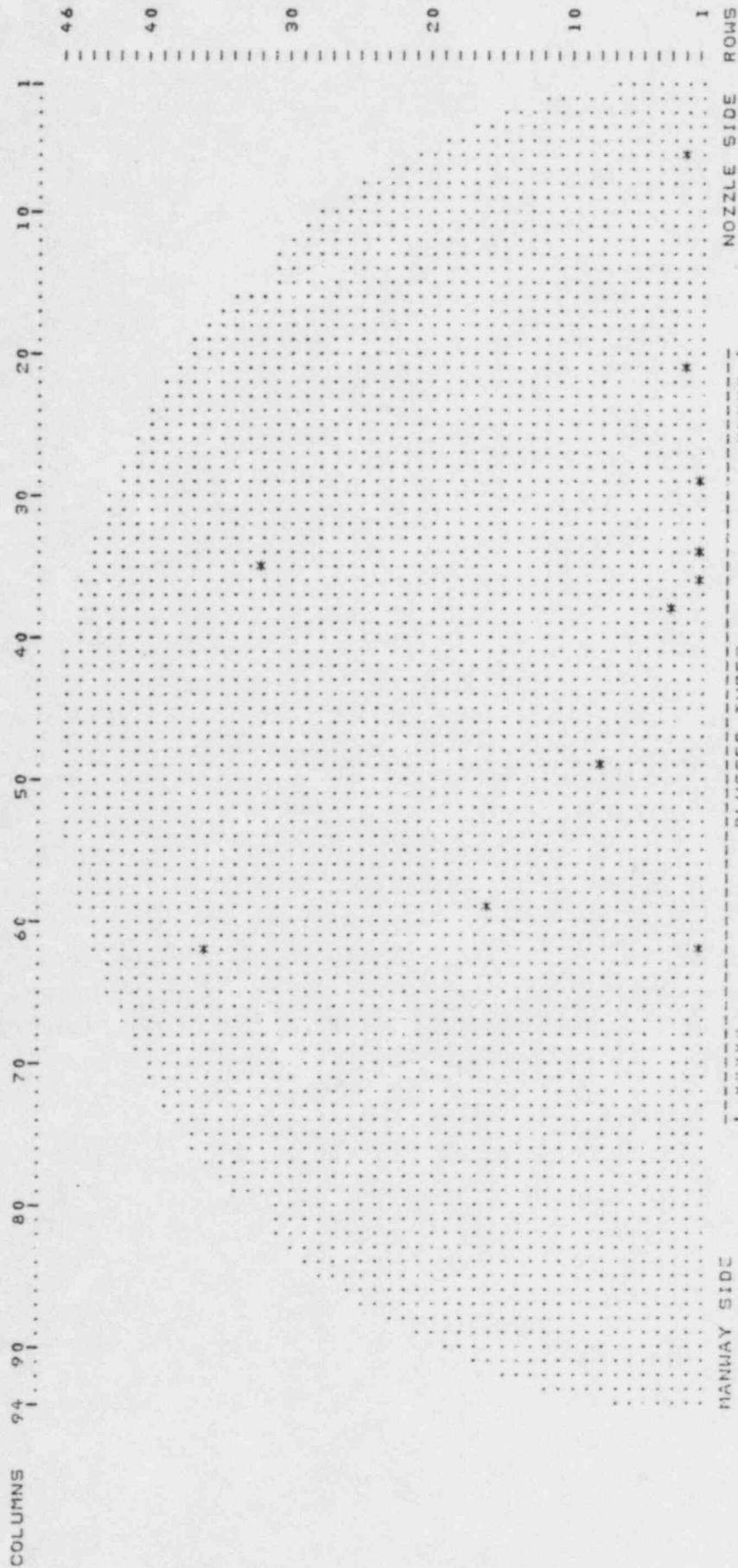
INLET (HOT LEG)

OUTLET (COLD LEG)

TUBE SHEET

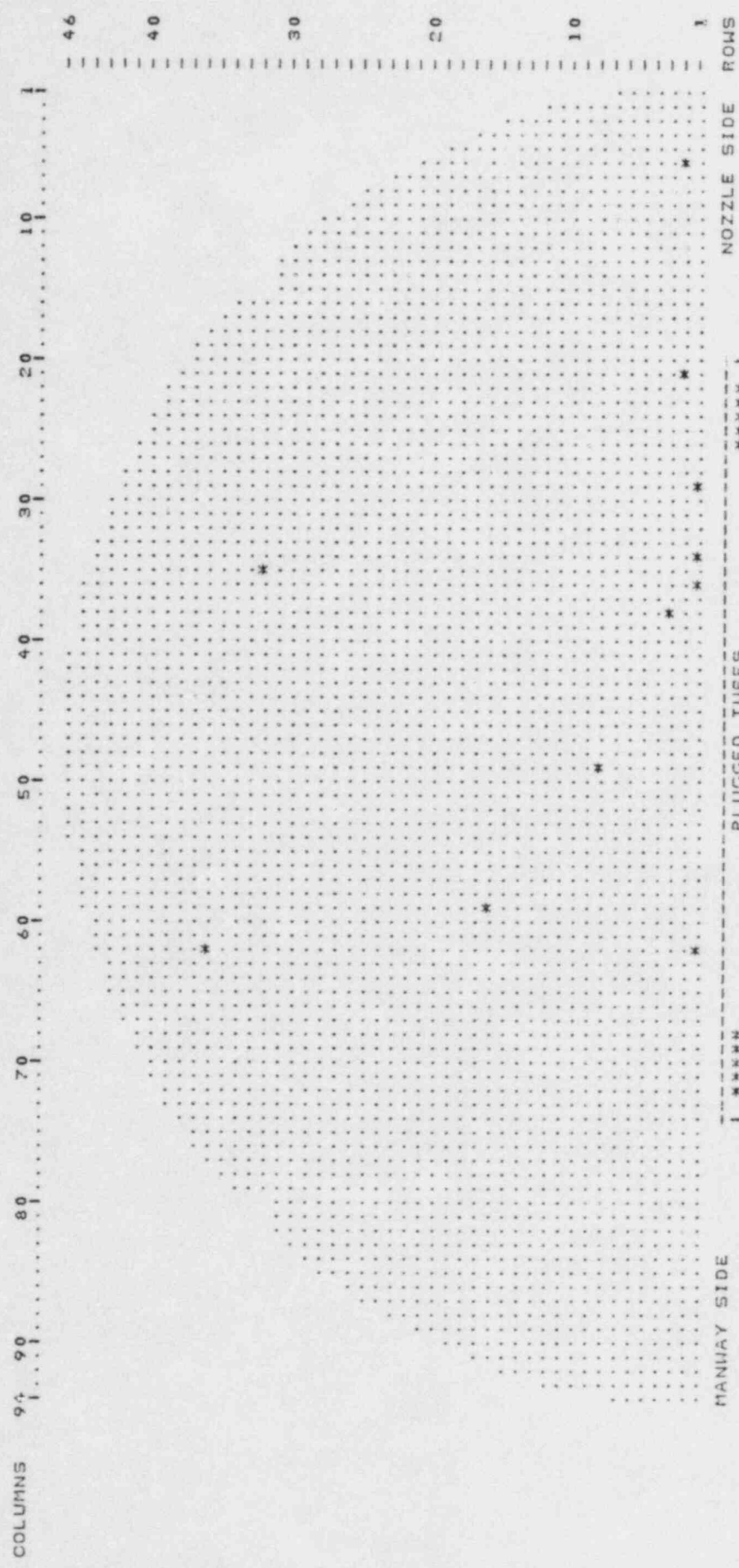
AROUND U-BEND

NORTHERN STATES POWER COMPANY
 POWER PRODUCTION MATERIALS AND SPECIAL PROCESSES SECTION
 PRAIRIE ISLAND NUCLEAR GENERATING PLANT STEAM GENERATOR TUBE MAP - WESTINGHOUSE SERIES 51



 STEAM GENERATOR NO. 1
 INLET (HOT LEG)
 THROUGH 99-9
 TUBE SHEET
 AROUND U-BEND

NORTHERN STATES POWER COMPANY
 POWER PRODUCTION MATERIALS AND SPECIAL PROCESSES SECTION
 PRAIRIE ISLAND NUCLEAR GENERATING PLANT STEAM GENERATOR TUBE MAP - WESTINGHOUSE SERIES 51



 STEAM GENERATOR NO. 12
 INLET OR OUTLET : OUTLET (COLD LEG)
 INSPECTIONS MAPPED : 00-0 THROUGH 99-9
 REGION MAPPED : TUBE SHEET
 AROUND U-BEND

PRAIRIE ISLAND NUCLEAR GENERATING PLANT
LIST OF PLUGGED STEAM GENERATOR TUBES

GEN NO.	SIDE	ROW	COL	YEAR	REMARKS/COMMENTS
12	INLET	1	2	1981	S/O
		2	3	1980	
	OUTLET	1	4	1981	
		2	5	1980	S/I
		3	6	1981	

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 PRAIRIE ISLAND NUCLEAR GENERATING PLANT
 LIST OF IMPERFECT, DEGRADED, AND DEFECTIVE TUBES

GEN NO.	SIDE	ROW	COL	YEAR	FROM	TO	DEFECT OR OBS	%	REMARKS/COMMENTS
12	INLET	1	29	8	12" BELOW	TUBE	THINNING	98	
			36	8	11" BELOW	TUBE	THINNING	72	
			71	8		1ST SUP	THINNING		
		3	21	8	11" BELOW	TUBE	THINNING		2ND SUP
			14	8	16" ABOVE	4TH SUP	THINNING	100	POSSIBLE BEND
				8	17" ABOVE	4TH SUP	THINNING	100	
		8	83	8		4TH SUP	THINNING	100	
			77	8		1ST SUP	THINNING	100	
		11	70	8		1ST SUP	THINNING	100	
			84	8		1ST SUP	THINNING	100	
		15		8		1ST SUP	THINNING	100	
				8		1ST SUP	THINNING	100	
		16	59	8	8" BELOW	TUBE	THINNING	100	
			49	8		1ST SUP	THINNING	100	
				8		1ST SUP	THINNING	100	
				8		1ST SUP	THINNING	100	
			64	8		1ST SUP	THINNING	100	
			77	8		1ST SUP	THINNING	100	
		18	49	8		1ST SUP	THINNING	100	
				8		1ST SUP	THINNING	100	
				8		1ST SUP	THINNING	100	
			77	8		1ST SUP	THINNING	100	
		19	82	8		1ST SUP	THINNING	100	
			33	8		1ST SUP	THINNING	100	
				8		1ST SUP	THINNING	100	
		20	77	8		1ST SUP	THINNING	100	
			64	8		1ST SUP	THINNING	100	
				8		1ST SUP	THINNING	100	
			83	8		1ST SUP	THINNING	100	
		21	83	8		1ST SUP	THINNING	100	
			47	8		1ST SUP	THINNING	100	
			64	8		1ST SUP	THINNING	100	
				8		1ST SUP	THINNING	100	
		24	88	8		1ST SUP	THINNING	100	
			64	8		1ST SUP	THINNING	100	
		25	85	8		1ST SUP	THINNING	100	
			63	8		1ST SUP	THINNING	100	
		26	65	8		1ST SUP	THINNING	100	
			77	8		1ST SUP	THINNING	100	
		27	85	8		1ST SUP	THINNING	100	
			84	8		1ST SUP	THINNING	100	
		28	81	8	12" ABOVE	TUBE	THINNING	100	
				8	12" ABOVE	TUBE	THINNING	100	
				8	12" BELOW	TUBE	THINNING	100	
		30	49	8		1ST SUP	THINNING	100	
		31	80	8		1ST SUP	THINNING	100	
		34	78	8		1ST SUP	THINNING	100	

FEB 16, 1984

PRAIRIE ISLAND NUCLEAR GENERATING PLANT
LIST OF IMPERFECT, DEGRADED, AND DEFECTIVE TUBES

GEN NO.	SIDE	ROW	COL	YEAR	FROM	TO	DEFECT OR OBS	%	REMARKS/COMMENTS
12	INLET	36	62	89-	TUBE SH		THINNING	44	
		38	76	89-	1ST SUP		THINNING	36	
		39	47	89-	2ND AVES		THINNING	36	
		40	57	89-	4TH AVES		THINNING	36	
		41	68	89-	1ST SUP		THINNING	36	
		42	79	89-	6TH SUP		THINNING	36	
		43	35	89-	4TH AVES		THINNING	36	
		44	53	89-	3RD AVES		THINNING	36	
		45	57	89-	3RD SUP		THINNING	36	
	OUTLET	46	62	89-	1ST SUP		THINNING	36	
		47	91	89-	1ST SUP		THINNING	36	
		48	90	89-	1ST SUP		THINNING	36	
		49	85	89-	1ST SUP		THINNING	36	
		50	86	89-	1ST SUP		THINNING	36	
		51	86	89-	1ST SUP		THINNING	36	
		52	85	89-	1ST SUP		THINNING	36	
		53	84	89-	1ST SUP		THINNING	36	
		54	84	89-	1ST SUP		THINNING	36	
		55	82	89-	1ST SUP		THINNING	36	
		56	83	89-	1ST SUP		THINNING	36	
		57	71	89-	1ST SUP		THINNING	36	
		58	80	89-	1ST SUP		THINNING	36	
		59	35	89-	1ST SUP		THINNING	36	
		60	35	89-	1ST SUP		THINNING	36	
		61	77	89-	1ST SUP		THINNING	36	
		62	78	89-	1ST SUP		THINNING	36	
		63	74	89-	1ST SUP		THINNING	36	
		64	75	89-	1ST SUP		THINNING	36	
		65	76	89-	1ST SUP		THINNING	36	
		66	71	89-	1ST SUP		THINNING	36	
		67	73	89-	1ST SUP		THINNING	36	
		68	75	89-	1ST SUP		THINNING	36	
		69	68	89-	1ST SUP		THINNING	36	
		70	68	89-	1ST SUP		THINNING	36	
		71	57	89-	1ST SUP		THINNING	36	
		72	60	89-	1ST SUP		THINNING	36	
		73	59	89-	1ST SUP		THINNING	36	
		74	62	89-	1ST SUP		THINNING	36	
		75	60	89-	1ST SUP		THINNING	36	
		76	60	89-	1ST SUP		THINNING	36	
		77	60	89-	1ST SUP		THINNING	36	
		78	60	89-	1ST SUP		THINNING	36	
		79	60	89-	1ST SUP		THINNING	36	
		80	60	89-	1ST SUP		THINNING	36	
		81	60	89-	1ST SUP		THINNING	36	
		82	60	89-	1ST SUP		THINNING	36	
		83	60	89-	1ST SUP		THINNING	36	
		84	60	89-	1ST SUP		THINNING	36	
		85	60	89-	1ST SUP		THINNING	36	
		86	60	89-	1ST SUP		THINNING	36	
		87	60	89-	1ST SUP		THINNING	36	
		88	60	89-	1ST SUP		THINNING	36	
		89	60	89-	1ST SUP		THINNING	36	
		90	60	89-	1ST SUP		THINNING	36	
		91	60	89-	1ST SUP		THINNING	36	
		92	60	89-	1ST SUP		THINNING	36	
		93	60	89-	1ST SUP		THINNING	36	
		94	60	89-	1ST SUP		THINNING	36	
		95	60	89-	1ST SUP		THINNING	36	
		96	60	89-	1ST SUP		THINNING	36	
		97	60	89-	1ST SUP		THINNING	36	
		98	60	89-	1ST SUP		THINNING	36	
		99	60	89-	1ST SUP		THINNING	36	
		100	60	89-	1ST SUP		THINNING	36	

APPENDIX H

FORM NIS-1

OWNERS' DATA REPORT FOR INSERVICE INSPECTION

FORM NIS-1 OWNERS' DATA REPORT FOR INSERVICE INSPECTIONS

(As Required by the Provisions of the ASME Code Rules)

- 1.) Owner NORTHERN STATES POWER COMPANY
 Address 414 NICOLLET MALL, MINNEAPOLIS, MINNESOTA 55401
- 2.) Plant PRAIRIE ISLAND NUCLEAR GENERATING PLANT
 Address WELSH, MINNESOTA
- 3.) Plant Unit I 4.) Owner (Certificate of Authorization) ---
- 5.) Commercial Service Date 12-16-73 6.) National Board Number for Unit ---
- 7.) Components Inspected

<u>Component or Appurtenance</u>	<u>Manufacturer or Installer</u>	<u>Manufacturer or Installer Serial No.</u>	<u>State or Province No.</u>	<u>National Board No.</u>
<u>B1.0</u> <u>REACTOR VESSEL</u>	CREUSOT-LOIRE	686	MINN. 200-51	--
<u>B1.3 VESSEL-TO- FLANGE AND HEAD-TO-FLANGE CIRCUMFERENTIAL WELDS</u>				
HEAD-TO-FLANGE W-6	CREUSOT-LOIRE	--	--	--
<u>B1.6 NOZZLE-TO-SAFE END WELDS</u>				
REACTOR CORE	CREUSOT-LOIRE	--	--	--
COOLANT NOZZLE (INLET) RCC-A-14 S.E. RCC-B-14 S.E.				
SAFETY INJECTION NOZZLE W-1 S.E.	CREUSOT-LOIRE	--	--	--
<u>B1.11 PRESSURE RETAINING BOLTING</u>				
CONOSEAL BOLTS PER MARMON CLAMP 37	CREUSOT-LOIRE	--	--	--
<u>B1.13 CLOSURE HEAD CLADDING</u>				
HCP-5 HCP-6	CREUSOT-LOIRE	--	--	--
<u>B2.0</u> <u>PRESSURIZER</u>	WESTINGHOUSE	1111	--	68-20

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- 7.) Components Inspected

<u>Component or Appurtenance</u>	<u>Manufacturer or Installer</u>	<u>Manufacturer or Installer Serial No.</u>	<u>State or Province No.</u>	<u>National Board No.</u>
<u>B2.9 VESSEL CLADDING</u>				
UPPER HEAD	WESTINGHOUSE	--	--	--
CLAD PATCHES				
<u>B2.11 PRESSURE RETAINING BOLTING</u>				
MANWAY BOLTS	WESTINGHOUSE	--	--	--
1 THRU 16				
<u>B3.0</u>				
<u>STEAM GENERATOR</u>				
<u>B3.3 NOZZLE-TO-SAFE END WELD</u>				
STEAM GENERATOR	WESTINGHOUSE	1101	--	68-24
NO. 11				
RCC-A-4 S.E.				
STEAM GENERATOR	WESTINGHOUSE	1102	--	68-25
NO. 12				
RCC-B-4 S.E.				
<u>B3.10 PRESSURE RETAINING BOLTING</u>				
STEAM GENERATOR	WESTINGHOUSE	1101	--	68-24
NO. 11 MANWAY				
BOLTS (INLET)				
STEAM GENERATOR	WESTINGHOUSE	1101	--	68-24
NO. 11 MANWAY				
BOLTS (OUTLET)				
STEAM GENERATOR	WESTINGHOUSE	1102	--	68-25
NO. 12 MANWAY				
BOLTS (INLET)				

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- 5.) Commercial Service Date 12-16-73 6.) National Board Number for Unit ---
- 7.) Components Inspected

<u>Component or Appurtenance</u>	<u>Manufacturer or Installer</u>	<u>Manufacturer or Installer Serial No.</u>	<u>State or Province No.</u>	<u>National Board No.</u>
<u>B3.3 CONT'D</u>				
STEAM GENERATOR	WESTINGHOUSE	1102	--	68-25
NO.12 MANWAY				
BOLTS (OUTLET)				
<u>B4.0</u>				
<u>PIPING PRESSURE BOUNDARY</u>				
<u>B4.1 SAFE-END-TO-PIPING AND SAFE END IN BRANCH PIPING WELDS</u>				
REACTOR VESSEL				
REACTOR COOLANT	NAVCO	--	--	--
COLD LEG A				
RCC-A-14 S.E.				
REACTOR COOLANT	NAVCO	--	--	--
COLD LEG B				
RCC-B-14 S.E.				
STEAM GENERATOR	NAVCO	--	--	--
NO.11				
RCC-A-4 S.E.				
STEAM GENERATOR	NAVCO	---	--	--
NO.12				
RCC-B-4 S.E.				
<u>B4.5 CIRCUMFERENTIAL AND LONGITUDINAL WELDS</u>				
SEAL INJECTION	NAVCO	--	--	--
LOOP A				
W-3				
CHARGING LINE	NAVCO	---	--	--
W-29A, 32				

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 Address WELSH, MINNESOTA
- 3.) Plant Unit 1 4.) Owner (Certificate of Authorization) ---
- 5.) Commercial Service Date 12-16-73 6.) National Board Number for Unit ---
- 7.) Components Inspected

<u>Component or Appurtenance</u>	<u>Manufacturer or Installer</u>	<u>Manufacturer or Installer Serial No.</u>	<u>State or Province No.</u>	<u>National Board No.</u>
B4.5 CONT'D				
RTD COLD LEG A W-10	NAVCO	--	--	--
RTD COLD LEG B W-18	NAVCO	--	--	--
RTD HOT LEG A W-15A, 16	NAVCO	--	--	--
RTD HOT LEG B W-11, 21	NAVCO	--	--	--
SPRAY TO PRESSURIZER A W-21, 23	NAVCO	---	--	--
RTD RETURN B W-6	NAVCO	--	--	--
SAFETY INJECTION LOW HEAD LOOP B W-4	NAVCO	--	--	--
SAFETY INJECTION HIGH HEAD LOOP B W-2	NAVCO	--	--	--
PRESSURIZER SAFETY LINE B W-5	NAVCO	--	--	--

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 Address WELSH, MINNESOTA
- 3.) Plant Unit 1 4.) Owner (Certificate of Authorization) ---
- 5.) Commercial Service Date 12-16-73 6.) National Board Number for Unit ---
- 7.) Components Inspected

<u>Component or Appurtenance</u>	<u>Manufacturer or Installer</u>	<u>Manufacturer or Installer Serial No.</u>	<u>State or Province No.</u>	<u>National Board No.</u>
<u>B4.5 CONT'D</u>				
PLO CAP A W-1	NAVCO	--	--	--
RHR RETURN B W-2	NAVCO	--	--	--
PRESSURIZER SURGE W-1	NAVCO	--	--	--
ACCUMULATOR DISCHARGE LOOP B W-8, 11	NAVCO	--	--	--
REACTOR COOLANT COLD LEG A RCC-A-11	NAVCO	--	--	--
REACTOR COOLANT HOT LEG A RCC-A-3	NAVCO	--	--	--
REACTOR COOLANT CROSSOVER A RCC-A-9	NAVCO	--	--	--
<u>B4.6 BRANCH PIPE CONNECTION WELDS EXCEEDING SIX INCH DIAMETER</u>				
PRESSURIZER SURGE W-R	NAVCO	--	--	--

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- Address WELSH, MINNESOTA
- 3.) Plant Unit 1 4.) Owner (Certificate of Authorization) ---
- 5.) Commercial Service Date 12-16-73 6.) National Board Number for Unit ---
- 7.) Components Inspected

<u>Component or Appurtenance</u>	<u>Manufacturer or Installer</u>	<u>Manufacturer or Installer Serial No.</u>	<u>State or Province No.</u>	<u>National Board No.</u>
<u>B4.7 BRANCH PIPE CONNECTION WELDS SIX INCH DIAMETER AND SMALLER</u>				
SAFETY INJECTION	NAVCO	--	--	--
HIGH HEAD LOOP A				
W-R				
<u>B4.8 SOCKET WELDS</u>				
CHARGING LINE	NAVCO	--	--	--
CVCS				
W-12				
RTD COLD LEG A	NAVCO	--	--	--
W-10				
RTD HOT LEG A	NAVCO	--	--	--
W-15				
RTD COLD LEG B	NAVCO	--	--	--
W-13				
<u>B4.10 SUPPORT COMPONENTS</u>				
REACTOR COOLANT	NAVCO	--	--	--
CROSSOVER A				
A ₂				
REACTOR COOLANT	NAVCO	--	--	--
HOT LEG A				
A ₃				
RTD RETURN A	NAVCO	--	--	--
B, 138-RTD-43				

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 Address WELSH, MINNESOTA
- 3.) Plant Unit 1 4.) Owner (Certificate of Authorization) ---
- 5.) Commercial Service Date 12-16-73 6.) National Board Number for Unit ---
- 7.) Components Inspected

<u>Component or Appurtenance</u>	<u>Manufacturer or Installer</u>	<u>Manufacturer or Installer Serial No.</u>	<u>State or Province No.</u>	<u>National Board No.</u>
B4.10 CONT'D				
RTD COLD LEG A	NAVCO	--	--	--
E, RPCH-171				
F, RPCH-118				
RTD HOT LEG A	NAVCO	--	--	--
C, 138-RTD-5				
D, RPCH-168				
REACTOR COOLANT CROSSOVER B	NAVCO	--	--	--
B ₂				
REACTOR COOLANT HOT LEG B	NAVCO	--	--	--
B ₃				
RTD RETURN B	NAVCO	--	--	--
B, 137-RTD-4B				
RTD COLD LEG B	NAVCO	--	--	--
E, 137-RTD-2				
F, 137-RTD-1				
SAFETY INJECTION HIGH HEAD LOOP B	NAVCO	--	--	--
C, RSIH-93				

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- 7.) Components Inspected

<u>Component or Appurtenance</u>	<u>Manufacturer or Installer</u>	<u>Manufacturer or Installer Serial No.</u>	<u>State or Province No.</u>	<u>National Board No.</u>
<u>B4.10 CONT'D</u>				
PRESSURIZER SURGE	NAVCO	--	--	--
F, 134-RC-6				
G, 134-RC-7				
H, 134-RC-8				
I, 134-RC-9				
REACTOR VESSEL	NAVCO	--	--	--
SAFETY INJECTION				
LOW HEAD B				
B ₂ , 102-SIS-2				
<u>B4.12 PRESSURE RETAINING BOLTING</u>				
RTD RETURN A	NAVCO	--	--	--
FLANGE BOLTS				
RTD RETURN B	NAVCO	--	--	--
FLANGE BOLTS				
<u>B5.0</u>				
<u>REACTOR COOLANT PUMPS</u>				
<u>B5.1 PRESSURE RETAINING BOLTING, IN PLACE</u>				
PUMP A FLANGE	WESTINGHOUSE	W-561	--	--
BOLTS 2 THRU 9				
<u>B5.2 PRESSURE RETAINING BOLTING, WHEN REMOVED</u>				
PUMP A SEAL	WESTINGHOUSE	W-561	--	--
HOUSE BOLTS				
BOLTS 1 THRU 12				

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- 7.) Components Inspected

<u>Component or Appurtenance</u>	<u>Manufacturer or Installer</u>	<u>Manufacturer or Installer Serial No.</u>	<u>State or Province No.</u>	<u>National Board No.</u>
<u>B5.2 CONT'D</u>				
PUMP B SEAL	WESTINGHOUSE	W-543	--	--
HOUSE BOLTS				
BOLTS 1 THRU 12				
<u>REACTOR CORE COOLANT PUMP FLYWHEELS</u>				
PUMP A	WESTINGHOUSE	W-561	--	--
FLYWHEEL				
PUMP B				
FLYWHEEL	WESTINGHOUSE	W-543	--	--
<u>B6.7 VALVE BODIES</u>				
ACCUMULATOR	NAVCO	--	--	--
DISCHARGE A				
8840 A				
<u>B6.9 PRESSURE RETAINING BOLTING</u>				
ACCUMULATOR	NAVCO	--	--	--
DISCHARGE A				
8840A				
SAFETY INJECTION	NAVCO	--	--	--
HIGH HEAD LOOP B				
8842B				
RTD HOT LEG A	NAVCO	--	--	--
RC-1-11				
REACTOR VESSEL	NAVCO	--	--	--
SAFETY INJECTION				
LOW HEAD LOOP B				
8844B				

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<u>ASME CLASS 2</u>				
<u>C1.0</u>				
<u>PRESSURE VESSELS</u>				
<u>C1.1 CIRCUMFERENTIAL BUTT WELDS</u>				
STEAM GENERATOR	WESTINGHOUSE	1102	--	68-25
No.12				
W-F				
<u>C1.4 PRESSURE RETAINING BOLTING</u>				
STEAM GENERATOR	WESTINGHOUSE	1102	--	68-25
No.12				
MANWAY B				
<u>C2.0</u>				
<u>PIPING</u>				
<u>C2.1 CIRCUMFERENTIAL BUTT WELDS</u>				
FEEDWATER A	NAVCO	--	--	--
FW-164				
FEEDWATER B	NAVCO	--	--	--
FW-216				
RHR SUCTION	NAVCO	--	--	--
W-1044				
<u>C2.5 INTEGRALLY WELDED SUPPORTS</u>				
MAIN STEAM A	NAVCO	--	--	--
A, MSH-11				

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<u>C2.5 CONT'D</u>				
RHR DISCHARGE P, RHRH-37	NAVCO	--	--	--
RHR SUCTION B1, RHRH-39 B2, 9-RHR-13	NAVCO	--	--	--
REACTOR VESSEL SAFETY INJECTION LOOP B F, RHRRH-2	NAVCO	--	--	--
<u>C2.6 SUPPORT COMPONENTS</u>				
REFUELING WATER STORAGE TANK DISCHARGE B, SIH-27	NAVCO	--	--	--
RHR DISCHARGE H, SIH-18 C, RHRH-64	NAVCO	--	--	--
SAFETY INJECTION FROM RHR M, SIH-23	NAVCO	--	--	--
REACTOR VESSEL SAFETY INJECTION G, RHRRH-3	NAVCO	--	--	--

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<u>SEISMIC BOLTING</u>				
<u>STEAM GENERATOR</u>				
No. 11	WESTINGHOUSE	1101	--	68-24
COLUMN PINS		--	--	--
COLUMNS 3 & 4				
TOP COLUMN		--	--	--
CONNECTING BOLTS				
COLUMNS 3 & 4				
LOWER LATERAL		--	--	--
ANCHOR BOLTS				
TO WALL				
PADS 2, 3 & 4				
LOWER LATERAL		--	--	--
WALL BOLTS				
FIXTURE 3				
HELICOIL SCREWS		--	--	--
COLUMNS 3 & 4				
<u>STEAM GENERATOR</u>				
<u>NO. 12</u>	WESTINGHOUSE	1102	--	68-25
COLUMN PINS		--	--	--
COLUMNS 3 & 4				
TOP COLUMN CONNECT-		--	--	--
ING BOLTS				
COLUMNS 3 & 4				

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<u>STEAM GENERATOR</u>				
<u>NO.12 CONT'D</u>				
LOWER LATERAL SUPPORT ANCHOR BOLTS TO WALL PADS 3,4 & 5		--	--	--
LATERAL SUPPORT WALL BOLTS FIXTURE 3		--	--	--
CONNECTING BOLTS IN LATERAL ALL BOLTS		--	--	--
HELICOIL SCREWS COLUMNS 3 & 4		--	--	--
<u>ACCUMULATOR A</u>	DELTA SOUTHERN	--	--	2554
BASE ANCHOR BOLTS BOLTS 17 THRU 24				
<u>REACTOR CORE</u>	WESTINGHOUSE	W-561	--	--
<u>COOLANT PUMP NO.11</u>				
COLUMN PINS COLUMN 3		--	--	--
COLUMN CONNECTING BOLTS COLUMN 3		--	--	--

FORM NIS-1 OWNERS' DATA REPORT FOR INSERVICE INSPECTIONS

(As Required by the Provisions of the ASME Code Rules)

- 1.) Owner NORTHERN STATES POWER COMPANY
 Address 414 NICOLLET MALL, MINNEAPOLIS, MINNESOTA 55401
- 2.) Plant PRAIRIE ISLAND NUCLEAR GENERATING PLANT
 Address WELSH, MINNESOTA
- 3.) Plant Unit 1 4.) Owner (Certificate of Authorization) ---
- 5.) Commercial Service Date 12-16-73 6.) National Board Number for Unit ---
- 7.) Components Inspected

<u>Component or Appurtenance</u>	<u>Manufacturer or Installer</u>	<u>Manufacturer or Installer Serial No.</u>	<u>State or Province No.</u>	<u>National Board No.</u>
<u>COOLANT PUMP NO.11 CONT'D</u>				
TIE BACK PIN				
PAD 3		--	--	--
LATERAL SUPPORT		--	--	--
AND WALL BOLTS				
PAD 3				
<u>REACTOR CORE</u>	WESTINGHOUSE	W-543	--	--
<u>COOLANT PUMP NO.12</u>				
COLUMN PINS		--	--	--
COLUMN 3				
COLUMN CONNECTING		--	--	--
BOLTS				
COLUMN 3				
TIE BACK BOLT		--	--	--
COLUMN 3				
TIE BACK PIN		--	--	--
PAD 1				
THRU ANCHOR BOLTS		--	--	--
PAD 1				
LATERAL SUPPORT		--	--	--
AND WALL BOLTS				
PAD 3				

FORM NIS-1 (back)

8.) Examination Dates 12-4-83 to 12-23-83 9.) Inspection Interval 12-15-73 to 12-16-83

10.) Abstract of Examinations. Include a list of examinations and a statement concerning status of work required for current interval.

This was the third inservice inspection conducted for inspection period three. The examinations completed approximately 90% of the required pressure retaining components and their supports for the reactor coolant and associated auxilliary systems classified as ASME Class I; 100% of ASME Class 2; and 100% of the Seismic Bolting Program.

The remainder of ASME Class I examinations are to be conducted in the 10 Year Inspection.

Eddy Current examination requirements for steam generator tubes during this outage was also completed in accordance with Prairie Island Technical Specification Section T.S.4.12.

11.) Abstract of Conditions Noted.

The following is a list of all anomalies detected:

<u>System</u>	<u>Item ID</u>	<u>Exam Method</u>	<u>Type & Number of Indications</u>
Reactor Coolant Loop A	Hanger A3 RCC-A-4S.E. RCC-A-14S.E.	VT PT PT	Loose Nut Linears & 2 Rounded 3 Linears
RTD Hot Leg	W-15/M13	PT	1 Linear
RTD Cold Leg	W-13/M21 Hanger E	PT VT	2 Linears Bent Plate
Reactor Coolant Pump 12	Seal House Bolts	MT	Linears
Steam Generator No. 11	Primary Manway Bolts	MT	Linears
Steam Generator No. 12	Primary Manway Bolts	MT	Linears
Main Steam A	Hanger A	MT	Linears
RHR Discharge B	Hanger P	PT	Surface Roughness
Feedwater A	FW-164	MT	3 Linears
Feedwater B	FW-216	MT	3 Linears

12.) Abstract of Corrective Measures Recommended and Taken.

Anomalies were corrected or accepted based on re-analysis or Code acceptance limitations. The bolts with MT indications were replaced; the welds with MT or PT indications were removed by light hand grinding and blending the surface smooth. The PT indications on RCC-A-4S.E. were accepted "as is" based on IWB-3514; and the MT indication on hanger MSH-11/A was accepted "as is" based on Code case N339. The hangers with the bent plate and loose nut were re-analyzed for hanger operability and functions and found acceptable.

All degraded S.G. tubes with wall thinning of 40% at the AntiVibration bars, 43% at the tube support plates and tube with indications within the tube sheet were mechanically plugged; a total of 10 for S.G. No. 11 and 8 for S.G. No. 12.

We certify that the statements made in this report are correct and the examinations and corrective measures taken conform to the rules of the ASME Code, Section XI.

Date March 15 1984 Signed Northern States Power Company By Samuel C. Sweeney

Certificate of Authorization No. (if applicable) --- Expiration Date ---

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of MINNESOTA and employed by HARTFORD STEAM BOILER CO. OF HARTFORD CONN. have inspected the components described in this Owner's Data Report during the period 12-4-83 to 12-23-83, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owners' Data Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owners' Data report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or loss of any kind arising from or connected with this inspection.

Date March 15 19 84

R. A. Hughes
Inspector's Signature

Commissions N.B. 9904 MN 84-34
National Board, State, Province & No.