PRAIRIE ISLAND NUCLEAR GENERATING PLANT

Red Wing, Minnesota

UNITS 1 AND 2

INSERVICE INSPECTION - EXAMINATION SUMMARY

PRAIRIE ISLAND NUCLEAR GENERATING PLANT - UNIT 2

SEPTEMBER 5, 1984 THRU OCTOBER 2, 1984

NORTHERN STATES POWER COMPANY

MINNEAPOLIS, MINNESOTA

Report Date:
January 3, 1985

Commercial Service Date:
December 16, 1973

NORTHERN STATES POWER COMPANY

PRAIRIE ISLAND NUCLEAR GENERATING PLANT - UNIT 2

INSERVICE INSPECTION - EXAMINATION SUMMARY

SEPTEMBER 5, 1984 THRU OCTOBER 2, 1984

REFUELING OUTAGE 8

INSPECTION PERIOD 3

Report Date:
January 3, 1985

Commercial Service Date:
December 16, 1973

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INSERVICE INSPECTION - EXAMINATION SUMMARY

PRAIRIE ISLAND NUCLEAR GENERATING PLANT - UNIT II

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INSERVICE INSPECTION - EXAMINATION SUMMARY

PRAIRIE ISLAND NUCLEAR GENERATING PLANT - UNIT 2

SEPTEMBER 5, 1984 TO OCTOBER 2, 1984

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 2. This was the third inservice inspection conducted for inspection period three. The examinations were performed during the plants eigth refueling outage from September 5, to October 2, 1984. Prairie Island - Unit 2 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 examination indicated that the integrity of the systems has been maintained. To assure continued integrity of the steam generators (S.G.), a total of 19 tubes in S.G. 21 and 15 tubes in S.G. 22 were mechanically plugged.

3.0 BALANCE OF PLANT

3.1 Examination Plan

The examination plan focused on the pressure-retaining components and their supports classified as ASME Class 1, Class 2, and Seismic Bolting.

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.

In addition, the examination complied with Prairie Island's Technical Specifications, Section TS 4.2 and as required by Volume 6, Appendix I of the Prairie Island FSAR. 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 system consisted of an ultrasonic digital/analog tester and a two-channel strip chart recorder. One channel of the recorders 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 containing a 1/32" black line.

3.3 Examination Procedures

The ultrasonic examination procedure for pipe welds complied with the requirements of Appendix III of ASME Section XI issued in the Winter 1974 Addenda. ET procedures per ASME Section XI 1980 Edition. 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 examinations are listed in Table II of Appendix E. With the exception of ET, all standards are owned and maintained by Northern States Power Company at the plant site.

3.5 Personnel

Northern States Power Company Company contracted Lambert, MacGill, Thomas, Inc. and 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 that 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 examinations reports and documentation are maintained on file by Northern States Power Company. Table I 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.

Table I of Appendices 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 "84".

Table II of Appendices A, B, C, and D compares the baseline examination results with the results obtained during this examination. Table II of Appendices 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.

System	Item ID	Exam Method	Type and Number of Indications
Feedwater A	FW-177	MT	3 Linears
Feedwater B	FW-133	MT	3 Linears
Reactor Coolant Pump - Seal House Bolts	Bolt 1	MT	3/4" Linear

System	Item ID	Exam Method	Type and Number of Indications
Reactor Vessel Conoseal Bolts	Marmon Clamp 37	VT	1 Bolt & 2 Nuts Erroded
Residual Heat Removal	Hanger M	PT	Porosity
	Hanger H	VT	Drawing Compliance
	Hanger B	PT	Porosity
	Hanger H	PT	Undercut
	Hanger J	PT	Porosity
Seismic Bolting S/G #21	Snubber Wall Bolt	VT	Washer Not Fully Contacted by Nut

All anomalies were corrected. The linear MT indications and pit undercut were removed by light hand grinding and blending the surface smooth.

The reactor vessel conoseal bolt and nuts and the reactor cooland pump seal house bolt were replaced with new bolts and nuts.

The snubber wall bolts were corrected by machining the washer to enable full contact between the nut and washer; straightening of the bolt was not performed due to the possibility of bolt deterioration.

The hangers with porosity were either found code acceptable or were analyzed for design load and found acceptable. The drawing compliance was determined, through magnification of the drawing, to be acceptable.

4.0 EXAMINATION OF THE STEAM GENERATOR TUBING

Multifrequency eddy current examinations of the tubing in steam generators No. 21 and No. 22 were performed during this outage. The program consisted of full length tube examinations including row 4 through the outer peripheral rows on S.G. No. 21 and No. 22. 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.

Babcock & Wilcox, Special Products and Integrated Field Services Division, was contracted to perform and evaulate the data from the eddy current examinations. In addition, Conam Inspection was contracted to provide 100% second level review of all data. The examinations were performed using a standard Zetec Miz-12 multifrequency data acquisition system. The frequencies utilized for each examination were 400 KHz and 100 KHz in the differential mode, with 225 KHz and 100 KHz in the absolute mode. All primary and second level analyses were performed using Zetec digital data analysis (DDA-4) equipment.

A small sample (approximately 30 tubes) were examined in the AVB (U-bend) area with an 8 x 1, multicoil pancake-type probe, for supplemental information. The data on these examinations was acquired by use of the new Zetec Miz-18 digital data acquisition system.

Examinations performed during this outage reflected combined steam generator indication growth rates of 2.0% for cold leg (tube support plate) and 6.8% for anti-vibration bar (AVB) degradations over the last fuel cycle. 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. No. 21 and No. 22, 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. No. 21 and No. 22 to date with the location of these tubes being exhibited in Appendices F and G.

TABLE I

Examination Extent (Accessible Tubes)	S/G 21		S/G 22	
	Amount	%	Amount	%
Full Length	3073	91.4	3077	93.0
Around U-Bend	288	8.6	230	7.0

TABLE II

% of Wall Thinning	S/G 21	S/G 22
20	83	47
20-29	60	59
30-39	30	39
40	20	29

TABLE III

Summary of Plugged Tubes - 1984 Outage

Steam Generator	Tube		% Degradation	Indication Location
	R	C		
21	20	87	52	#1 TSP - CL
	25	34	50	#3 AVB
	27	69	43	#3 AVB
	29	37	41/42	#2/#3 AVB
	36	44	42	#4 AVB
	37	76	52	#1 TSP-CL
	39	25	48	#1 TSP-CL
	40	69	46	#1 TSP-CL
	41	28	59	#1 TSP-CL
	41	67	52	#1 TSP-CL
	42	28	56	#2 TSP-CL
	43	41	48	#1 TSP-CL
	43	62	69	#1 TSP-CL
	44	52	64	#1 TSP-CL
	45	37	42/61	#2/#1 TSP-CL
	45	40	47	#1 TSP-CL
	45	46	50	#1 TSP-CL
	45	54	48	#1 TSP-CL
	44	54	48	#1 TSP-CL
#22	26	11	45	#1 TSP-CL
	31	16	47	#1 TSP-CL
	31	82	46	#1 TSP-CL
	32	18	45	#1 TSP-CL
	33	16	53	#1 TSP-CL
	35	18	46	#1 TSP-CL
	36	20	48	# TSP-CL
	36	50	41	#2 AVB
	38	23	51	#1 TSP-CL
	40	54	52/41	#2/#3 AVB
	43	52	46	#1 TSP-CL
	43	62	47	#1 TSP-CL
	44	60	45	#1 TSP-CL
	46	41	46	#1 TSP-CL

AVB = ANTI-VIBRATION BAR
TSP = TUBE SUPPORT PLATE
CL = COLD LEG
HL = HOT LEG

TABLE VI

Total Tubes Plugged to Date			
S/G 21		S/G 22	
Amount	%	Amount	%
46	1.4	95	2.8

APPENDIX A

ASME CLASS 1 EXAMINATIONS

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NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 2

INSERVICE INSPECTION–EXAMINATION SUMMARY

TABLE S1.1

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MAJOR ITEM: REACTOR VESSEL

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	LONGITUDINAL AND CIRCUM-FERENTIAL WELDS IN CORE REGION					
		LONGITUDINAL WELDS	-	-	-	-NONE-	
		CIRCUMFERENTIAL WELDS	THREE	50%	-		
B1.2	B-B	LONGITUDINAL AND CIRCUMFERENTIAL WELDS IN SHELL (OTHER THAN THOSE OF CATEGORY B-A AND B-C) AND MERIDINAL AND CIRCUMFERENTIAL SEAMWELDS IN BOTTOM HEAD AND CLOSURE HEAD (OTHER THAN THOSE AT CATEGORY B-C					
		LONGITUDINAL WELDS	-	-	-	-NONE-	
		MERIDIONAL WELDS	-	-	-	-NONE-	
		CIRCUMFERENTIAL WELDS	THREE	5%	-	WELD NO. 2	
				5%	-	WELD NO. 4	
				5%	-	WELD NO. 5	
B1.3	B-C	VESSEL TO FLANGE AND HEAD TO FLANGE CIRCUMFERENTIAL WELDS					
		VESSEL TO FLANGE WELD NO. 1	ONE	33%	33%	STUD HOLE: 12 TO 22 & 29 TO 35	77-W RPV REPORT
			TWO	30%	30%	9 TO 12 & 35 TO 46	81-W RPV REPORT
			THREE	36%	-		

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PRAIRIE ISLAND UNIT 2
INSERVICE INSPECTION–EXAMINATION SUMMARY

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MAJOR ITEM: REACTOR VESSEL

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	(CONT'D)					
						STUD HOLE:	
		HEAD TO FLANGE WELD NO. 6	ONE	33%	33%	1 THRU 16	77-W RPV REPORT & 77-74,73,75
			TWO	33%	33%	16 THRU 34	81-141,143,144
			THREE	33%	-		
B1.4	B-D	PRIMARY NOZZLE-TO-VESSEL WELDS AND NOZZLE INSIDE RADIUSED SECTIONS					
		REACTOR CORE COOLANT NOZZLES					
		OUTLET NOZZLES	ONE	1	1	RCC-A-1	77-W RPV REPORT
			TWO	1	1	RCC-B-1	81-W RPV REPORT
		INLET NOZZLES	THREE	2	-		
		SAFETY INJECTION NOZZLES	THREE	1	-		
			THREE	1	-		
B1.5	B-E	VESSEL PENETRATIONS, INCLUDING CONTROL ROD DRIVE AND INSTRUMENTATION PENETRATIONS					
		CONTROL ROD PENETRATIONS	ONE	3%	*3		*EACH ITEM INSPECTED BY PLANT PERSONNEL DURING EACH REACTOR VESSEL LEAKAGE TEST
			TWO	3%	*3		
			THREE	4%	-		

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MAJOR ITEM: REACTOR VESSEL

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.
B1.5	B-E	(CONT'D)					
		INSTRUMENTATION PENETRATIONS	ONE TWO THREE	3% 3% 3%	*3 *3 -		*EACH ITEM INSPECTED BY PLANT PERSONNEL DURING EACH REACTOR VESSEL LEAKAGE TEST
		REACTOR VESSEL HEAD VENT	*-	1	*1	1-2RC-36 TO 2-RC-8-5	
B1.6	B-F	NOZZLE TO SAFE END WELDS					
		REACTOR CORE COOLANT NOZZLES					
		OUTLET NOZZLES	ONE	1	1	RCC-A-1 S.E.	77-W RPV REPORT & 77-020,112
			TWO	1	1	RCC-B-1 S.E.	81-W RPV REPORT & 81-21
		INLET NOZZLES	THREE	2	2	RCC-A-14 S.E. RCC-B-14 S.E.	83B-133 (PT ONLY) 83B-134 (PT ONLY)
		REACTOR VESSEL SAFETY INJECTION NOZZLES					
		NOZZLE A S.E.	ONE	1	1	NO. 1	77-W RPV REPORT & 77-023,113
		NOZZLE B S.E.	THREE	1	1	NO. 1	83B-047, 157
B1.8	B-G-1	CLOSURE STUDS AND NUTS	ONE	16	16	#1 THRU #16	77-W RPV REPORT & 77-106
			TWO	16	16	#1THRU #16 #17 THRU #32	78-84,99 (MT ONLY) 81-162,163,165,166

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MAJOR ITEM: REACTOR VESSEL

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.
			THREE	16	16	#33 THRU #48	83B-048, 061, 062 (STUDS ONLY)
						#33 THRU #48	84-038, 049 (NUTS)
							STUD HOLES:
B1.9	B-G-1	LIGAMENTS BETWEEN THREADED STUD HOLES	ONE	16	16	12-22 & 29-35	77-W RPV REPORT
			TWO	14	14	9-11 & 36-46	81-W RPV REPORT
			THREE	18	-		
B1.10	B-G-1	CLOSURE WASHERS AND BUSHINGS					
		WASHERS	ONE	16	16	PAIRS, 1 THRU 16	77-W RPV REPORT
			TWO	16	16	PAIRS, 17 THRU 32	81-I64
			THREE	16	16	PAIRS, 33 THRU 48	84-039
		BUSHINGS	-	-	-	-NONE-	
B1.11	B-G-2	PRESSURE RETAINING BOLTING	ONE	3	9	ALL 9 BOLTS	77-W RPV REPORT
			TWO	3	9	ALL 9 BOLTS	81-I70
			THREE	3	9	ALL 9 BOLTS	84-064
B1.12	B-H	INTEGRALLY WELDED VESSEL SUPPORTS	THREE	2	-		
B1.13	B-I-1	CLOSURE HEAD CLADDING	ONE	2	2	HCP-1 & HCP-2	77-W RPV REPORT
			TWO	2	3	HCP-1,HCP-3 & HCP-4	81-I55
			THREE	2	2	HCP-5 & HCP-6	84-063
B1.14	B-I-1	VESSEL CLADDING	ONE	2	2	VCP-1 & VCP-2	76-W INTERNALS RPT
			TWO	2	2	VCP-3 (2 PATCHES)	81-W RPV REPORT
			THREE	2	-		

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MAJOR ITEM: REACTOR VESSEL

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.
B1.15	B-N-1	VESSEL INTERIOR					
		UPPER INTERNALS AND LOWER INTERNALS	ONE TWO THREE	* * *	* * -	* *	76-W INTERNALS RPT 80-W INTERNALS RPT *, REPRESENTATIVE REGIONS OF THOSE INTERIOR SURFACES AND INTERNALS MADE ACCESSIBLE BY THE REMOVAL OF COMPONENTS DURING NORMAL REFUELING OPERATION
B1.16	B-N-2	INTERIOR ATTACHMENTS AND CORE SUPPORT STRUCTURES	-	-	-	NOT APPLICABLE FOR PWR'S	
B1.17	B-N-3	REMOVABLE CORE SUPPORT STRUCTURES	THREE	*-	-	*100% OF THE VISUALLY ACCESSIBLE ATTACHMENT WELDS AND VISUALLY ACCESSIBLE SURFACES OF THE CORE SUPPORT STRUCTURE	
B1.18	B-O	CONTROL ROD DRIVE HOUSINGS					
		PERIPHERAL CRD HOUSINGS	THREE	2	-		
B1.19	B-P	EXEMPTED COMPONENTS	-	*-	-	*ALL COMPONENTS EXEMPTED FROM VOLUMETRIC AND SURFACE EXAMINATION BY IWB-1200	*PERFORMED BY PLANT PERSONNEL IN ACCORDANCE WITH IWA-5000 DURING EACH SYSTEM LEAKAGE TEST AND EACH SYSTEM HYDROSTATIC TEST REQUIRED BY IWB-5000

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MAJOR 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	LONGITUDINAL AND CIRCUMFERENTIAL WELDS					
		LONGITUDINAL WELDS					
		WELD NO. 1	THREE	5%	9%	W-3 UP 12"	82-197,217,251
			THREE	5%	12%	W-4 DOWN 15"	82-197,217,251
		WELD NO. 2	ONE	5%	5%	BOTTOM TO TOP	76-45,67
			TWO	5%	8%	W-5 DOWN 11" (CW)	78-104,112,118
		CIRCUMFERENTIAL WELDS				FROM NAMEPLATE:	
		WELD NO. 3	ONE	1.7%	33%	+10' TO +18'	76-43,69
			TWO	1.7%	13%	+7'6" TO +10'8"	78-105,115,122
			THREE	1.8%	25%	-2' TO +4'	82-198,216,252
		WELD NO. 4	ONE	1.7%	33%	+8' TO 16'	76-44,66
			TWO	1.7%	6%	+8'4" TO +9'10"	78-103,114,119
			THREE	1.8%	25%	-1'10" TO +4'2"	82-196,208,253
		WELD NO. 5	ONE	1.7%	33%	+10' TO +18'	76-29,68
			TWO	1.7%	12%	+6'10" TO +9'9"	78-113,116,121
			THREE	1.8%	6.9%	0" TO 1'8"	82-195,209,254
B2.2	B-D	NOZZLE TO VESSEL WELDS	-	-	-	-NONE-	
B2.3	B-E	HEATER PENETRATION	*	25/10 YRS	*		*EACH ITEM INSPECTED BY PLANT PERSONNEL
B2.4	B-F	NOZZLE TO SAFE END WELDS	ONE	2	2	W-1A S.E.(8010A)	76-26,53
						W-1A S.E.(8010B)	76-61,52
			TWO	5	5	W-15 S.E.	78-31,100
						W-1A S.E.(RELIEF)	80-58,87,170
						W-22A S.E.(SPRAY)	80-57,85,168
						W-1A S.E.(8010A)	80-188,192,192R,192Ra
						W-1A S.E.(8010B)	80-189,191,191R
					2	W-1A S.E.(8010A)	81-6,6R,37,63
						W-1B S.E.(8010B)	81-23,23R,39,62

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MAJOR 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	(CON'T)					
			THREE	2	2	W-1A S.E. W-22A S.E.	82-200,224,226 82-203,225,227
B2.5 B2.6 AND B2.7	B-G-1	PRESSURE-RETAINING BOLTS AND STUDS (2 IN. DIA.)	-	-	-	-NONE-	
						(CW) FROM NAMEPLATE:	
B2.8	B-H	INTEGRALLY WELDED VESSEL WELD SKIRT WELD					
			ONE	3.3%	3.3%	+8" TO -8"	76-77
			TWO	3.3%	23%	+6' TO +11'9"	78-106,107,117
			THREE	3.4%	27%	+10' TO +16' 5"	82-231
B2.9	B-I-2	VESSEL CLADDING	THREE	36 SQ. IN. PATCH	-		
B2.10	B-P	EXEMPTED COMPONENTS					
		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	PRESSURE RETAINING BOLTING					
		MANWAY BOLTS	ONE	5	5	BOLTS 1 THRU 6	76-30
			TWO	5	5	BOLTS 6 THRU 10	78-82
						BOLTS 1 THRU 16	81-60
			THREE	6	16	BOLTS 1 THRU 16	82-232

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PRAIRIE ISLAND UNIT 2
INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S1.3.1
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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.
B3.1	B-B	LONGITUDINAL AND CIRCUMFERENTIAL WELDS ON THE PRIMARY SIDE					
		LONGITUDINAL WELDS	-	-	-	-NONE-	
		CIRCUMFERENTIAL WELDS				(CW) FROM NAMEPLATE:	
		STEAM GENERATOR NO. 21	ONE	1.9%	37%	+8" TO +13'8"	76-111,101,118
			TWO	1.9%	8%	+23'8" TO +26'8"	78-108,110,120
			THREE	1.8%	20%	-2'7" TO 4'6"	82-096,261,265
						-2'7" TO 4'6"	83B-188, 223, 225
		STEAM GENERATOR NO. 22	ONE	1.9%	31%	+2' TO +13'	76-112,102,119
			TWO	1.9%	17%	+21'10" TO +28'	78-109,111,123
			THREE	1.8%	10%	-13" TO 26"	82-095,256,266,271
						-13" TO 26"	83B-187, 224, 226
B3.2	B-D	NOZZLE TO HEAD WELDS	-	-	-	-NONE-	
B3.3	B-F	NOZZLE TO SAFE END WELDS					
		STEAM GENERATOR NO. 21	TWO	1	1	RCC-A-5 S.E.	81-116,125
			THREE	1	1	RCC-A-4 S.E.	83B-143, 143R, 146
		STEAM GENERATOR NO. 22	ONE	1	1	RCC-B-5 S.E.	81-116,125
			THREE	1	1	RCC-B-4 S.E.	83B-145, 151
B3.4 B3.5 AND 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	VESSEL CLADDING					
		STEAM GENERATOR NO. 21					
		INLET SIDE	ONE	36 SQ. IN. PATCH	36 SQ. IN.	CP-1, BELOW MANWAY	76-124
		OUTLET SIDE	ONE	36 SQ. IN. PATCH	36 SQ. IN.	CP-2, BELOW MANWAY	76-124
		STEAM GENERATOR NO. 22					
		INLET SIDE	ONE	36 SQ. IN. PATCH	36 SQ. IN.	CP-3, BELOW MANWAY	76-123
		OUTLET SIDE	ONE	36 SQ. IN. PATCH	36 SQ. IN.	CP-4, BELOW MANWAY	76-123
B3.9	B-P	EXEMPTED COMPONENTS	-	-	-	-NONE-	
B3.10	B-G-2	PRESSURE RETAINING BOLTING (2 IN. DIA.)					
		STEAM GENERATOR NO. 21 MANWAY BOLTING					
		INLET MANWAY	ONE	5	6	BOLTS 1 THRU 6	76-99
			TWO	5	21	BOLTS 6 THRU 10	78-83
						BOLTS 1 THRU 16	81-25,31,45
			THREE	6	48	BOLTS 1 THRU 16	82-213,215
						BOLTS 1 THRU 16	83B-060, 068, 170
						BOLTS 1 THRU 16	84-014, 018

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B3.10	B-G-2	(CONT'D)					
		OUTLET MANWAY	ONE	5	6	BOLTS 1 THRU 6	76-99
			TWO	5	21	BOLTS 6 THRU 10	78-83
						BOLTS 1 THRU 15	81-25,31,45
			THREE	6	48	BOLTS 1 THRU 16	82-213,215
						BOLTS 1 THRU 16	83B-060,067,068,170
						BOLTS 1 THRU 16	84-014, 018
		STEAM GENERATOR NO. 22 MANWAY BOLTING					
		INLET MANWAY	ONE	5	6	BOLTS 1 THRU 6	76-120
			TWO	5	16	BOLTS 6 THRU 10	78-77
						BOLTS 1 THRU 16	81-29,44
			THREE	6	46	BOLTS 1 THRU 14	82-212,215
						BOLTS 1 THRU 16	83B-049, 066, 169
						BOTLS 1 THRU 16	84-015, 019
		OUTLET MANWAY	ONE	5	6	BOLTS 1 THRU 6	76-120
			TWO	5	21	BOLTS 6 THRU 10	78-77
						BOLTS 1 THRU 16	81-29,44
			THREE	6	46	BOLTS 1 THRU 14	82-212,215
						BOLTS 1 THRU 16	83B-049,052,066,169
						BOLTS 1 THRU 16	84-015, 019

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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	LONGITUDINAL AND CIRCUMFERENTIAL WELDS ON THE PRIMARY SIDE					
		LONGITUDINAL WELDS	-	-	-	-NONE-	
		CIRCUMFERENTIAL WELDS					
		EXCHANGER A	ONE	1	1	NO. 1, SHELL WELD	76-100
		EXCHANGER B	TWO	1	1	NO. 2, SHELL WELD	78-74
		EXCHANGER C	THREE	1	1	NO. 3, SHELL WELD	82-086
B3.2	B-D	NOZZLE TO HEAD WELD	-	-	-	-NONE-	
B3.4 B3.5 AND B3.6	B-G-1	PRESSURE RETAINING BOLTS AND STUDS (2 IN. DIA.)	-	-	-	-NONE-	
B3.7	B-H	INTEGRALLY WELDED VESSEL SUPPORTS	-	-	-	-NONE-	
B3.8	B-I-2	VESSEL CLADDING	-	-	-	-NONE-	
B3.9	B-P	EXEMPTED COMPONENTS	-	-	-	-NONE-	
B3.10	B-G-2	PRESSURE RETAINING BOLTING (2 IN. DIA.)	-	-	-	-NONE-	

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MAJOR ITEM EXCESS LETDOWN 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.
B3.1	B-B	LONGITUDINAL AND CIRCUMFERENTIAL WELDS ON THE PRIMARY SIDE					
		LONGITUDINAL WELDS	-	-	-	-NONE-	
		CIRCUMFERENTIAL WELDS	ONE	33%	-	(NOTE PERIOD TWO)	
			TWO	66%	100%	W-1, HEAD TO FLANGE	78-73
			THREE	34%	100%	W-1, HEAD TO FLANGE	82-087
B3.2	B-D	NOZZLE TO VESSEL WELDS	-	-	-	-NONE-	
B3.3	B-F	NOZZLE TO SAFE END WELDS	-	-	-	-NONE-	
B3.4 B3.5 AND B3.6	B-G-1	PRESSURE RETAINING BOLTS AND STUDS (2 IN. DIA.)	-	-	-	-NONE-	
B3.7	B-H	INTEGRALLY WELDED VESSEL SUPPORTS	-	-	-	-NONE-	
B3.8	B-I-1	VESSEL CLADDING	-	-	-	-NONE-	
B3.9	B-P	EXEMPTED COMPONENTS	-	-	-	-NONE-	
B3.10	B-G-2	PRESSURE RETAINING BOLTING (2 IN. DIA.)	ONE	4	-	(NOTE PERIOD TWO)	
			TWO	8	8	BOLTS 1 THRU 8	78-72
			THREE	4	12	BOLTS 1 THRU 12	82-112

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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.
B4.1	B-F	SAFE END TO PIPING AND SAGE END IN BRANCH PIPING WELDS					
		REACTOR VESSEL					
		REACTOR CORE COOLANT SYSTEMS	ONE	1	1	W-1A, 29-2RC-1A	77-W RPV REPORT & 77-022,112
			TWO	1	1	RCC-B-1 S.E.	81-W RPV REPORT & 81-21
			THREE	2	2	RCC-A-14 S.E. RCC-B-14 S.E.	83B-155 (PT ONLY) 83B-156 (PT ONLY)
		SAFETY INJECTION SYSTEMS	ONE	1	1	W-2, 4-2RC-14A	77-W RPV REPORT & 77-024,113
			THREE	1	1	W-1	83B-047, 135
		STEAM GENERATOR NO. 21					
		REACTOR CORE COOLANT SYSTEM	TWO	1	1	RCC-A-5 S.E.	81-116,125
			THREE	1	1	RCC-A-4 S.E.	83B-143, 143R, 146
		STEAM GENERATOR NO. 22					
		REACTOR CORE COOLANT SYSTEM	ONE	1	1	W-5, 31-2RC-2B	76-136,139
			THREE	1	1	RCC-B-4 S.E.	83B-145, 151
		PRESSURIZER					
		SAFETY LINES	ONE	2	2	W-1, (8010A) W-1, (8010B)	76-26,53 76-61,52
			TWO	2	2	W-1, (8010A)	80-187, 192, 192R, 192Ra
						W-1, (8010B)	80-190,191,191R
					2	W-1, (8010A) W-1, (8010B)	81-7,7R,38,61 81-22,22R,40,64
		SURGE LINE	TWO	1	1	W-15 SE, 10-2RC-4	78-31,100

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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.
B4.1	B-F	(CONT'D)					
		RELIEF LINE	TWO	1	1	W-1B	80-58,88,169
			THREE	1	1	W-1	82-201,222
		SPRAY LINE	TWO	1	1	W-22B	80-56,56R,86,167
						W-22B	81-5,5R,24
			THREE	1	1	W-22	82-202,223
B4.2 B4.3 AND B4.4	B-G-1	PRESSURE REMAINING BOLTS AND STUDS (2 IN. DIA.)	-	-	-	-NONE-	
B4.5	B-J	CIRCUMFERENTIAL AND LONGITUDINAL PIPE WELDS					
		LONGITUDINAL WELDS	-	-	-	-NONE-	
		CIRCUMFERENTIAL WELDS					
		(1.5 IN. NOM.DIA. SYS.)					
		SEAL INJECTION A	ONE	-	-		
			TWO	1	1	W-4	78-12
			THREE	1	1	W-3	82-077
		SEAL INJECTION B	ONE	1	1	W-9	77-57
			TWO	-	-		
			THREE	1	1	W-4	84-061
		(2.0 IN. NOM. DIA. SYS.)					
		SEAL INJECTION A	ONE	3	3	W-21,22,24	77-18,19,20
			TWO	3	3	W-34,35,36	78-14,16,17
			THREE	4	4	W-8,52,53,54	82-076,230,229,228

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B4.5	B-J	(CONT'D)					
		SEAL INJECTION B	ONE	4	4	W-54,55,58,59	77-10,11,13,12
			TWO	5	5	W,29,33,34,36,37	80-91,90,89,92,93
			THREE	4	4	W-11,16,17,18	82-072,073,074,075
		CHARGING LINE CVCS	ONE	6	6	W-81,82A,80,83B, 83A,83	77-9,8,7,6,5,4
			TWO	6	6	W-32,33,36	78-20,21,22
						W-37,38,39	80-96,97,98
			THREE	6	6	W-4,5,12,13,24,25	83B-009,008,007,006, 004,003
		LETDOWN LINE AND DRAIN LINE	ONE	1	1	W-22	77-27
			TWO	2	2	W-6,7	80-94,95
			THREE	2	2	W-9,13	82-109,110
		AUXILIARY SPRAY TO PRESSURIZER	ONE	1	1	W-1	77-28
			TWO	1	1	W-11	78-71
			THREE	2	2	W-12, 13	83B-115, 116
		RESIDUAL TEMPERATURE DETECTOR TAKE OFF-COLD LEG A	ONE	1	1	W-20	77-42
			TWO	1	1	W-6	80-177
			THREE	1	1	W-11	83B-014
		RESIDUAL TEMPERATURE DETECTOR TAKE OFF-COLD LEG B	ONE	1	1	W-18	77-60
			TWO	2	2	W-8,9	80-116,117
			THREE	1	1	W-13	83B-021
		RESIDUAL TEMPERATURE DETECTOR TAKE OFF-HOT LEG A	ONE	1	1	W-24	77-58
			TWO	1	1	W-29	80-178
			THREE	2	2	W-39, 40	83B-013, 012
		RESIDUAL TEMPERATURE DETECTOR TAKE OFF-HOT LEG B	ONE	1	1	W-19	77-59
			TWO	1	1	W-23	80-104
			THREE	2	2	W-37, 38	83B-020, 026

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)					
		SAFETY INJECTION	ONE	-	-		
		HIGH HEAD A	TWO	1	1	W-2	78-15
			THREE	1	1	W-7	82-108
		SAFETY INJECTION	ONE	1	1	W-7	77-43
		HIGH HEAD B	TWO	-	-		
			THREE	1	1	W-2	82-262
						W-2 (REPEAT)	83B-027
		DRAIN LINE ON	ONE	1	1	W-14	77-26
		CROSSOVER A	TWO	1	1	W-7	78-13
			THREE	1	1	W-6	82-107
		REACTOR VESSEL	ONE	1	1	W-12	77-17
		SAFETY INJECTION	TWO	1	1	W-9	78-19
		LOW HEAD A	THREE	1	1	W-2	82-092
		REACTOR VESSEL	ONE	-	-		
		SAFETY INJECTION	TWO	1	1	W-2	78-23
		LOW HEAD B	THREE	1	1	W-1	82-091
		(3.0 IN. NOM. DIA. SYS.)					
		SPRAY TO PRESSURIZER	ONE	3	3	W-5,7,8	77-38,40,39
		BRANCH A	TWO	3	3	W-20,24,25	80-121,120,119
			THREE	4	4	W-16,17	82-220,218
						W-9, 11	83B-138, 139
		SPRAY TO PRESSURIZER	ONE	2	2	W-18,19	77-48,46
		BRANCH B	TWO	3	3	W-3,4,5	80-118,122,103
			THREE	2	2	W-2, 3	83B-136, 137
		RESIDUAL TEMPERATURE	ONE	1	1	W-5	77-41
		DETECTOR RETURN A	TWO	1	1	W-2	78-66
			THREE	1	1	W-3	84-062

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 RETURN B	ONE	1	1	W-7	77-56
			TWO	1	1	W-6	78-85
			THREE	1	1	W-3	83B-029
		PRESSURIZER RELIEF LINE A	ONE	-	-		
			TWO	-	-		
			THREE	1	1	W-5	82-221
		PRESSURIZER RELIEF LINE B	ONE	1	1	W-4	77-47
			TWO	1	1	W-9	80-99
			THREE	1	1	W-10	83B-120
		(4.0 IN. NOM. DIA. SYS.)					
		SAFETY INJECTION LOW HEAD A	ONE	1	-	NONE OF THESE WELDS ARE ACCES-SIBLE; THEY ARE LOCATED WITHIN THE CONCRETE SHIELD WALL	
			TWO	-	-		
			THREE	-	-		
		SAFETY INJECTION LOW HEAD B	ONE	-	-		
			TWO	-	-		
			THREE	1	1	W-2	83B-120
		(6.0 IN. NOM. DIA. SYS.)					
		REACTOR VESSEL SAFETY INJECTION LOW HEAD A	ONE	-	-		
			TWO	1	1	W-6	80-100
			THREE	1	2	W-5, 4	83B-092, 091
		REACTOR VESSEL SAFETY INJECTION LOW HEAD B	ONE	1	1	W-9 (+W-8)	76-37 (+76-38)
			TWO	-	-		
			THREE	1	2	W-4, 3	83B-090, 093

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B4.5	B-J	(CONT'D)					
		SAFETY INJECTION HIGH HEAD A	ONE	-	-		
			TWO	-	-		
			THREE	1	1	W-2	83B-010
		SAFETY INJECTION HIGH HEAD B	ONE	1	1	W-1	76-143
			TWO	-	-		
			THREE	-	-		
		PRESSURIZER SAFETY LINE A	ONE	-	-		
			TWO	3	3	W-8/W-3,4	80-102/81-59,58
			THREE	1	-		
		PRESSURIZER SAFETY LINE B	ONE	2	2	W-1,2	76-54,61
			TWO	2	2	W-6,7	81-57,56
			THREE	1	1	W-4	83B-089
		PLO-CAP A	ONE	-	-		
			TWO	-	-		
			THREE	1	1	W-1	83B-011
		PLO-CAP B	ONE	-	-		
			TWO	1	1	W-1	80-101
			THREE	-	-		
		(8.0 IN. NOM. DIA. SYS.)					
		RESIDUAL HEAT REMOVAL TAKE OFF A	ONE	2	2	W-11,12	77-33,32
			TWO	3	3	W-5,6,8	78-90,94,92
			THREE	3	3	W-2,3,4	82-078,079,082
		RESIDUAL HEAT REMOVAL TAKE OFF B	ONE	3	8	W-25,27,28 (+W-8,10,11,12,26)	76-74,58,56 (+76-70,71,72,73,58)
			TWO	2	2	W-12,14	78-95,91
			THREE	3	3	W-5,6,7	82-083,084,085

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B4.5	B-J	(CONT'D)					
		(10.0 IN. NOM. DIA. SYS.)					
		RESIDUAL HEAT REMOVAL RETURN B	ONE	1	2	W-1 (+W-9)	76-9 (+76-7)
			TWO	1	1	W-7	78-102
			THREE	1	1	W-9	83B-019
		PRESSURIZER SURGE LINE B	ONE	1	4	W-12 (+W-11,13,14)	76-81 (+76-78,81,79)
			TWO	1	1	W-14	78-101
			THREE	2	2	W-1, 2	83B-165, 166
		(12.0 IN. NOM. DIA. SYS.)					
		ACCUMULATOR DISCHARGE A	ONE	1	1	W-11	77-35
			TWO	1	1	W-7	80-35,36
			THREE	1	1	W-3	83B-173
		ACCUMULATOR DISCHARGE B	ONE	2	5	W-1,15 (+W-13,14 16)	76-146,18 (+76-20 21,19)
			TWO	1	1	W-13	80-34,37
			THREE	2	2	W-2, 3	83B-174, 175
		(27.5 IN. NOM. DIA. SYS.)					
		REACTOR CORE COOLANT COLD LEG (INLET) A	ONE	-	-		
			TWO	-	-		
			THREE	1	1	RCC-A-11	83B-015, 017, 017R
		(29.0 IN. NOM. DIA. SYS.)					
		REACTOR CORE COOLANT COLD LEG (INLET) B	ONE	-	-		
			TWO	1	1	RCC-B-12	81-87,94
			THREE	-	-		

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B4.5	B-J	(CONT'D)					
		REACTOR CORE COOLANT HOT LEG (OUTLET) A	ONE	1	1	W-3, 29-2RC-1A	77-044
			TWO	-	-		
			THREE	-	-		
		REACTOR CORE COOLANT HOT LEG (OUTLET) B	ONE	-	-		
			TWO	-	-		
			THREE	1	1	RCC-B-3	83B-147, 150
		(31.0 IN. NOM DIA. SYS.)					
		REACTOR CORE COOLANT CROSSOVER A	ONE	-	-		
			TWO	2	2	RCC-A-7 RCC-A-7	81-115,115R,152 81-117,124
			THREE	-	-		
		REACTOR CORE COOLANT CROSSOVER B	ONE	1	3	W-6 (+W-7,8)	76-140 (+76-141,142)
			TWO	-	-		
			THREE	1	1	RCC-B-10	83B-016, 018
B4.6	B-J	BRANCH PIPE CONNECTION WELDS EXCEEDING SIX INCH DIAMETER					
		ACCUMULATOR DISCHARGE A	-	-	-		
		ACCUMULATOR DISCHARGE B	ONE	1	1	W-R	76-145,137
		RESIDUAL HEAT REMOVAL TAKE OFF A	-	-	-		
		RESIDUAL HEAT REMOVAL TAKE OFF B	TWO	1	1	W-ROOT	81-113,121,126
		PRESSURIZER SURGE LINE B	THREE	1	1	W-R	83B-160, 167

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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.
B4.7	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	-	-	-		
		SAFETY INJECTION HIGH HEAD B	ONE	1	1	W-R	76-138,144
		(3.0 IN NOM. DIA. SYSTEMS)					
		SPRAY TO PRESSURIZER BRANCH A	-	-	-		
		SPRAY TO PRESSURIZER BRANCH B	THREE	1	1	W-R	83B-149
		RESIDUAL TEMPERATURE DETECTOR RETURN A	-	-	-		
		RESIDUAL TEMPERATURE DETECTOR RETURN B	-	-	-		
		(2.0 IN. NOM. DIA. SYSTEMS)					
		RESIDUAL TEMPERATURE DETECTOR TAKE OFF COLD LEG A	-	-	-		

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 A	TWO	1	1	W-ROOT	81-89
		DRAIN LINE ON CROSSOVER A	-	-	-		
		DRAIN LINE ON CROSSOVER B	ONE	1	1	W-R	76-131
		CHARGING LINE CVCS	-	-	-		
		REACTOR VESSEL SAFETY INJECTION LOW HEAD A	-	-	-		
		REACTOR VESSEL SAFETY INJECTION LOW HEAD B	THREE	1	1	W ?	82-144
B4.8	B-J	SOCKET WELDS					
		(2.0 IN. NOM. DIA. SYSTEMS)					
		SEAL INJECTION A	ONE	-	-		
			TWO	1	1	SW-9	78-25
			THREE	1	1	W-10	82-099
		SEAL INJECTION B	ONE	1	1	SW-64	76-5
			TWO	-	-		
			THREE	1	1	W-12	82-097

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-54 (+SW-57,87)	76-49 (+76-49,6)
			TWO	1	1	SW-27	78-28
			THREE	1	1	W-26	83B-098
		DRAIN LINE AND	ONE	1	1	SW-1 (+SW-24)	76-131 (+76-40)
		LETDOWN LINE B	TWO	1	1	SW-10	80-158
			THREE	1	1	W-17	83B-101
		AUXILLIARY SPRAY	ONE	1	1	SW-4	76-42
			TWO	-	-		
			THREE	-	-		
		RESIDUAL TEMPERATURE	ONE	1	1	SW-13	77-117
		DETECTOR TAKE OFF	TWO	1	1	SW-4	78-27
		COLD LEG A	THREE	1	1	W-12	83B-059
		RESIDUAL TEMPERATURE	ONE	1	1	SW-15	77-120
		DETECTOR TAKE OFF	TWO	1	1	SW-4	78-26
		COLD LEG B	THREE	1	1	SW-14	84-050
		RESIDUAL TEMPERATURE	ONE	-	-		
		DETECTOR TAKE OFF	TWO	1	1	SW-31	80-154
		HOT LEG A	THREE	1	1	W-38	83B-038
		RESIDUAL TEMPERATURE	ONE	-	-		
		DETECTOR TAKE OFF	TWO	1	1	SW-29	80-157
		HOT LEG B	THREE	1	1	W-36	83B-039
		SAFETY INJECTION	ONE	-	-		
		HIGH HEAD A	TWO	-	-		
			THREE	1	1	W-8	82-145

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 B	ONE TWO THREE	1 - -	1 - -	SW-8	77-110
		DRAIN LINE ON CROSSOVER A	ONE TWO THREE	1 - -	1 - -	SW-13	77-114
		REACTOR VESSEL SAFETY INJECTION LOW HEAD A	ONE TWO THREE	1 - -	1 - -	SW-13	77-111
		REACTOR VESSEL SAFETY INJECTION LOW HEAD B	ONE TWO THREE	- - 1	- - 1	W-6	82-143
B4.9	B-K-1	INTEGRALLY WELDED SUPPORTS					
		SEAL INJECTION A	TWO	1	1	H	78-18,30,39
		RESIDUAL TEMPERATURE DETECTOR TAKE OFF HOT LEG A	-	-	-		
		SAFETY INJECTION HIGH HEAD A	-	-	-		
		SPRAY TO PRESSURIZER					
		BRANCH A	TWO	1	1	L	80-76,123,156
		BRANCH B	THREE	1	1	I	82-204,206,219

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	TWO	1	1	U	78-29,50,93
		ACCUMULATOR DISCHARGE A	-	-	-		
		SEAL INJECTION B	TWO	1	1	A	80-49,105,155
		CHARGING LINE CVCS	ONE	1	2	Z (+X)	76-109,106(+76-110-6)
			TWO	-	-		
			THREE	1	1	L	83B-005, 124, 125
		RESIDUAL TEMPERATURE DETECTOR TAKE OFF COLD LEG B	-	-	-		
		RESIDUAL HEAT REMOVAL TAKE OFF B	ONE	1	1	Q	76-60,59
		RESIDUAL HEAT REMOVAL RETURN B	THREE	1	1	D	82-123,140,255
		ACCUMULATOR DISCHARGE B	ONE	1	1	B1	76,39-3
		SAFETY INJECTION HIGH HEAD B	-	-	-		
		AUXILLIARY SPRAY CVCS	-	-	-		
		REACTOR VESSEL SAFETY INJECTION A	THREE	1	1	C	82-098,139,146

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)					
4.10	B-K-2	SUPPORT COMPONENTS					
		SEAL INJECTION A	ONE	4	3	A1, N/G (HGR J ADDED, PER.2)	76-96/77-133
			TWO	5	6	F,I,J	78-38,40,65
						A,B,C	80-148,147
			THREE	6	5	L,M,N,O,P	82-114,116,117,113, 115
		DRAIN LINE ON CROSSOVER A	ONE	-	-		
			TWO	-	-		
			THREE	1	1	A	82-118
		RESIDUAL TEMPERATURE DETECTOR TAKE OFF COLD LEG A	ONE	1	1	A	76-97
			TWO	1	1	B1	80-144,144R
						B1	81-139,139R
			THREE	2	2	A1	83B-070
						B	83B-109
		RESIDUAL TEMPERATURE DETECTOR TAKE OFF HOT LEG A	ONE	2	2	C,D	77-144
			TWO	2	2	G,H	80-146
			THREE	3	3	C1, C2, E	83B-071, 073, 033
		SAFETY INJECTION HIGH HEAD A	ONE	1	1	C	77-131
			TWO	1	1	D	80-132
			THREE	1	1	A	82-257
						A (REPEAT)	83B-077
		RESIDUAL TEMPERATURE DETECTOR RETURN A	ONE	1	1	C	76-98
			TWO	1	1	B	78-41
			THREE	1	1	A	83B-072

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B4.10	B-K-2	(CONT'D)					
		SPRAY TO PRESSURIZER BRANCH A	ONE	4	4	J/M,N,O	76-107/77-151
			TWO	5	5	B,C,D,H	78-42,43,44,45
						V	80-135
			THREE	5	5	P	82-205
						P (REPEAT)	83B-164
						Q, R, S, U, V	83B-081, 082, 083, 075, 076
		SPRAY TO PRESSURIZER BRANCH B	ONE	3	3	G,H,F	76-107
			TWO	3	3	D,E,F1	80,129,130,131
			THREE	3	3	B,C,C1	82-163,162,161
		RESIDUAL HEAT REMOVAL TAKE OFF A	ONE	5	5	O,P,Q,S,T	76-41
			TWO	5	5	B.C.D.H,	78-46,47,48,49
						C,E	80-54,23
			THREE	6	6	I,J,L,M,	82-247,155,156,157
						R,V	82-121,154
		ACCUMULATOR DISCHARGE A	ONE	2	2	H,I	76-33
			TWO	3	3	D,E,G	80-25,50,51
			THREE	3	3	A,B,C	83B-079, 078, 080
		SEAL INJECTION B	ONE	4	4	O,P,N/Q	76-32/77-157
			TWO	4	4	D,E,K,M	80,53,52,47,46
			THREE	5	5	F,H,I,J	82-122,158,119,120
						B	83B-159
		CHARGING LINE CVCS	ONE	5	5	R,S,V,W,Y	76-51,85
			TWO	7	7	K,M,N,O	78-53,53,52,51
						O,Q,T,V	80-80,127,126,125
			THREE	8	8	B,B1,C,D	83B-158,163,102, 153,153R
						F,H,J,P	83B-154,154R,123, 114,114R,126

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B4.10	B-K-2	(CONT'D)					
		RESIDUAL TEMPERATURE DETECTOR TAKE OFF COLD LEG B	ONE	2	2	A,A1	77-156
			TWO	2	2	B,C/C	78-54,55/80-145
			THREE	2	2	C1,E	83B-074,074R,045,045R
		RESIDUAL TEMPERATURE DETECTOR TAKE OFF HOT LEG B	ONE	1	1	A2	77-134
			TWO	2	2	A1,A	80-73, 73R,72
						A1	81-140
			THREE	2	2	C,D	83B-034,046
		DRAIN LINE AND LETDOWN LINE B	ONE	2	2	E/C	77-135/76-108
			TWO	2	2	A,B	80-79,78
			THREE	2	2	A1,A2	82-244,245
		RESIDUAL TEMPERATURE DETECTOR RETURN B	ONE	-	-		
			TWO	1	1	A	78-56
			THREE	-	-		
		RESIDUAL HEAT REMOVAL TAKE OFF B	ONE	5	5	H/L,M,N,O	76-63/77-145,149
			TWO	5	5	A,B,C	78-57,57,58
						C,D,K	80-65,64,133
			THREE	6	6	F,G,I,J,	82-149,150,147,148, 148R
						P,P	82-137,138
		RESIDUAL HEAT REMOVAL RETURN B	ONE	1	1	A	77-132
			TWO	1	1	B	78-59
			THREE	1	1	C	83B-069
		ACCUMULATOR DISCHARGE B	ONE	3	3	E,F,C	77-138
			TWO	3	3	B,B1/A	78-60/80-48
			THREE	4	4	A1,A2,D1,D2	83B-094,095,097,096
		SAFETY INJECTION HIGH HEAD B	ONE	1	1	C	77-127
			TWO	-	-		
			THREE	1	1	A	83B-085

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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.
B4.10	B-K-2	(CONT'D)					
		AUXILLIARY SPRAY	ONE	1	1	A	76-46
		TO PRESSURIZER	TWO	1	1	B	78-61
			THREE	2	2	C,E	83B-128,127
		REACTOR VESSEL	ONE	1	1	A	77-128
		SAFETY INJECTION	TWO	-	-		
		LOW HEAD A	THREE	-	-		
		REACTOR VESSEL	ONE	-	-		
		SAFETY INJECTION	TWO	1	1	A	
		LOW HEAD B	THREE	-	-		
		PRESSURIZER RELIEF	ONE	-	-		
		LINE B	TWO	-	-		
			THREE	1	1	A	82-159
		REACTOR VESSEL	ONE	1	1	D	77-130
		SAFETY INJECTION	TWO	1	1	B	78-62
		LOW HEAD B (6 X 4")	THREE	2	2	A,C	82-249,141
		REACTOR VESSEL	ONE	1	1	D	77-129
		SAFETY INJECTION	TWO	1	1	A	80-75
		LOW HEAD A (6 X 4")	THREE	2	2	B,C	83B-152,103
		PRESSURIZER SAFETY	ONE	1	1	A1	77-152
		LINES A & B	TWO	1	1	A2	80-128
			THREE	-	-		
		PRESSURIZER SURGE B	ONE	3	3	K,J,I	76-48
			TWO	4	4	A,B/C,D	78-64,63/80-70,71
			THREE	5	5	E,F,G,H,H1	83B-043,043R,084, 084R,040,041,042

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 CORE COOLANT CROSSOVER A	ONE	-	-		
			TWO	1	1	A1	81-138
			THREE	1	2	A2,A3	83B-162,107,107R
		REACTOR CORE COOLANT CROSSOVER B	ONE	1	1	B1	76-106
			TWO	-	-		
			THREE	1	2	B2,B3	83B-161,106
B4.11	B-P	EXEMPT AND NON-EXEMPT COMPONENTS HYDROSTATICALLY PRESSURE TESTED TO IWA-500) AT END OF TEN YEAR INTERVAL PLUS SYSTEM LEAKAGE EXAM EACH SCHEDULED REFUELING OUTAGE	-	*	-	*ALL COMPONENTS EXAMINED IN ACCORDANCE WITH IWA-5000 AND IWB-5000 DURING SYSTEM LEAKAGE TEST	PERFORMED BY PLANT PERSONNEL
		EXEMPT: RESISTANCE TEMPERATURE DETECTOR TAKE OFF 1-2RC-7A EXCESS LETDOWN LINE A 1-2RC-8 1-2VC-7 1-2VC-9 RESISTANCE TEMPERATURE DETECTOR TAKE OFF 1-2RC-7B					

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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.
B4.11	B-P	(CON'T)					
		REACTOR VESSEL CLOSURE HEAD VENT 1-2RC-36					
		REACTOR VESSEL CLOSURE HEAD FLANGE 1-2RC-9A 1-2RC-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-2	76-76
			TWO	4	4	BOLTS 1-4 @ W-4	78-81
		RESISTANCE TEMPERATURE DETECTOR RETURN A	THREE	8	8	BOLTS 1-8 @ W-7	83B-037
		PRESSURIZER SAFETY LINE A	TWO	12	12	BOLTS 1-12 @ 2-8010A	80-135
		SEAL INJECTION B	TWO	4	4	BOLTS 1-4 @ W-2	80-172
			THREE	4	4	BOLTS 1-4 @ W-4	82-100
		RESISTANCE TEMPERATURE DETECTOR RETURN B	THREE	8	-		
		PRESSURIZER SAFETY LINE B	ONE	12	12	BOLTS 1-12	76-17

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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 AND B5.3	B-G-1	PRESSURE RETAINING BOLTS AND STUDS, IN PLACE (2 IN. DIA.)					
		FLANGE BOLTS					
		PUMP A	ONE	8	8	BOLTS 1 THRU 8	76-87
			TWO	8	8	BOLTS 9 THRU 16	78-67
			THREE	8	8	BOLTS 17 THRU 24	83B-213
		PUMP B	ONE	8	8	BOLTS 1 THRU 8	76-86
			TWO	8	8	BOLTS 9 THRU 16	78-68
			THREE	ITEM B5.2	8	BOLTS 17 THRU 24	83B-214
		SEAL HOUSE BOLTING					
		PUMP A	ONE	4	4	BOLTS 1 THRU 4	76-89
			TWO	4	4	BOLTS 5 THRU 8	78-69
			THREE	4	12	BOLTS 1 THRU 12	83B-200
		PUMP B	ONE	4	4	BOLTS 1 THRU 4	76-88
			TWO	4	4	BOLTS 5 THRU 8	78-70
			THREE	4	12	BOLTS 1 THRU 12	83B-192
B5.2 AND B5.3	B-G-1	PRESSURE RETAINING BOLTS AND STUDS, WHEN REMOVED (2 IN. DIA.)					
		PUMP A SEAL HOUSE BOLTING	TWO	12	12	BOLT 1 THRU 12	81-46,47/81A-4,7
			THREE	24	24	BOLT 1 THRU 24	83B-105, 186, 104
					24	BOLT 1 THRU 24	84-054,054R,055, 057, 058
		FLANGE BOLTING	TWO	24	24	BOLT 1 THRU 24	81A-1,2,3,5,6,6R

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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.
B5.2 AND B5.3	B-G-1	(CON'T)					
		PUMP B					
		FLANGE BOLTING	THREE	24	-		
		SEAL HOUSE BOLTING	THREE	12	24	BOLT 1 THRU 24	83B-050,063,064, 051,065
					24	BOLT 1 THRU 24	84-016,017,020,021
B5.4	B-K-1	INTEGRALLY WELDED SUPPORTS					
		PUMP A	TWO	3	3	SUPPORT A,B,C	RELIEF NO. 47 81-129,131,130
		PUMP B	TWO	3	3	SUPPORT A,B,C	81-132,134,137
			THREE	3	-		
B5.5	B-K-2	SUPPORT COMPONENTS*					*COINCIDENT WITH SEISMIC BOLTING
		PUMP A					
		COLUMN AND	ONE	1	1	COLUMN 1	77-67,163,158
		LATERAL SUPPORTS	TWO	1	1	COLUMN 2	80-181,107,174
			THREE	1	-		
		PUMP B					
		COLUMN AND	ONE	1	1	COLUMN 1	77-64,162,161
		LATERAL SUPPORTS	TWO	1	1	COLUMN 2	80-181,107,108
			THREE	1	-		
B5.6	B-L-1	PUMP CASING WELDS					
		PUMP A	-	-	-	-NONE-	
		PUMP B	-	-	-	-NONE-	

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B5.7	B-L-2	PUMP CASINGS					
		PUMP A or B	THREE	1	-		
		PUMP A	TWO	1	1	PUMP CASING	81A-8
B5.8	B-P	EXEMPTED COMPONENTS	-	-	-	-NONE-	
B5.9	B-G-2	PRESSURE RETAINING BOLTING (2 IN. DIA.)	-	-	-	-NONE-	
-	-*	PUMP FLYWHEELS					
		PUMP A & B	ONE	2	2*	PUMP-21, FLYWHEEL	76-113,117,116
						PUMP-22, FLYWHEEL	76-93,82,92
			TWO	2	2	PUMP-21, FLYWHEEL	80-141,142,143
						PUMP-22, FLYWHEEL	80-124,139,140
			THREE	2	2	PUMP-21, FLYWHEEL	83B-176,177,178
						PUMP-22, FLYWHEEL	83B-179,180,181
							*BOTH FLYWHEELS WERE REMOVED AS A RESULT OF MODIFICATION TO THE PUMP LUBRICATION SYSTEM THE BORE AND KEYWAY'S WERE PT EXAMINED & THE REMAINING SURFACES WERE MT EXAMINED. U.T. WAS USED TO VOLUMETRICALLY EXAMINE THE FLYWHEELS (NOTE TECH SPEC 4.2-1)

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INSERVICE INSPECTION--EXAMINATION SUMMARY

TABLE S1.6
PAGE 1 **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.
B6.1 B6.2 AND 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	-	*	-	*INCLUDE 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 LOW HEAD A	THREE	1	-		
		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	2-8841A	84-013
B6.8	B-P	EXEMPTED COMPONENTS	*	100%	*	ITEMS INSPECTED DURING EACH LEAKAGE TEST	INSPECTED BY PLANT PERSONNEL

NORTHERN STATES POWER CO.
PRAIRIE ISLAND UNIT 2
INSERVICE INSPECTION–EXAMINATION SUMMARY

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	PRESSURE RETAINING BOLTING *					*NOTE SUPPLEMENT B6.9 AT 3.4.3
		ACCUMULATOR DISCHARGE LOOP A - 12"	ONE	16	16	CHECK, 2-8841A	76-12
			THREE	16	16	CHECK, 2-8840A	82B-054
		ACCUMULATOR DISCHARGE LOOP B - 12"	TWO	16	16	CHECK, 2-8841B	80-82
			THREE	16	16	CHECK, 2-8840B	84-070
		RESIDUAL HEAT REMOVAL RETURN B-10"	ONE	16	16	M.O. GATE, 2-8703	76-13
		RESIDUAL HEAT REMOVAL TAKE OFF A-8"	TWO	16	16	M.O. GATE, 2-8701A	78-80
			THREE	16	16	M.O. GATE, 2-8702A	82-167
		RESIDUAL HEAT REMOVAL TAKE OFF B-8"	ONE	16	16	M.O. GATE, 2-8701B	76-16
			ONE	16	16	M.O. GATE, 2-8702B	76-16
		SAFETY INJECTION HIGH HEAD A - 6"	TWO	12	12	CHECK, 2-8842A	80-166
		SAFETY INJECTION HIGH HEAD B - 6"	THREE	12	12	CHECK, 2-8842B	83B-058
		PRESSURIZER SPRAY					
		LOOP A - 3"	THREE	8	8	GLOBE(2-PCV-431A)	83B-055
		LOOP B - 3"	ONE	8	8	GLOBE(2-PCV-431B)	76-28
			THREE	8	8	GLOBE(2-PVC-431B)	82-166
		RESISTANCE TEMPERATURE DETECTOR RETURN LOOP A - 3"	TWO	12	12	GATE, 2-8001A	78-79
		RESISTANCE TEMPERATURE DETECTOR RETURN LOOP B - 3"	TWO	12	12	GATE, 2-8001B	78-78

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TABLE S1.6
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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.
B6.9	B-G-2	(CONT'D)					
		RESISTANCE TEMPERATURE DETECTOR TAKE OFF COLD LEG A - 2"	ONE	2	2	2T58, 2RC-1-6	76-95
			TWO	2	2	2T58, 2RC-1-7	80-152
			THREE	2	2	2T58, 2RC-1-8	83B-090
		RESISTANCE TEMPERATURE DETECTOR TAKE OFF COLD LEG B - 2"	TWO	2	2	2T58, 2RC-1-15	80-137
			TWO	2	2	2T58, 2RC-1-16	80-165
			THREE	2	2	2T58, 2RC-1-17	83B-056
		RESISTANCE TEMPERATURE DETECTOR TAKE OFF HOT LEG A - 2"	TWO	2	2	2T58, 2RC-1-12	80-150
			TWO	2	2	2T58, 2RC-1-10	80-151
			THREE	2	2	2T58, 2RC-1-11	83B-100
		RESISTANCE TEMPERATURE DETECTOR TAKE OFF HOT LEG B - 2"	ONE	2	2	2T58, 2RC-1-12	76-103
			TWO	2	2	2T58, 2RC-1-13	80-136
			THREE	2	2	2T58, 2RC-1-14	83B-053
		PRESSURIZER RELIEF LINES 3"	ONE	12	12	M.O. GATE, 2-8000B	76-14
			ONE	6	6	GLORE, 2PCV-431C	76-14
			TWO	6	6	GLOBE, 2PCV-430	80-149
			THREE	12	6	M.O. GATE, 2-8000A	82-165
		REACTOR VESSEL SAFETY INJECTION LOW HEAD A - 6"	ONE	12	12	CHECK, 2-8843A	76-91
			TWO	12	12	CHECK, 2-8844A	80-171
			THREE	-	12	CHECK, 2-8844A	83B-086, 086R
		LOW HEAD B - 6"	ONE	12	12	CHECK, 2-8843B	76-36
			THREE	12	12	CHECK, 2-8844B	83B-087
		AUXILIARY SPRAY CVCS - 2"	THREE	6	6	GLOBE 2-8143	83B-121

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PRAIRIE ISLAND UNIT 2
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.
B6.0	B-G-2	(CONT'D)					
		DRAIN LINE	ONE	2	2	2T58, 2RC-1-3	76-11
		ON CROSSOVER B	THREE	2	2	2T58, 2RC-1-4	82-259, 259R
					2	2T58, 2RC-1-4 (REPEAT)	83B-057
		DRAIN LINE	ONE	2	2	2T58, 2RC-1-2	76-15
		ON CROSSOVER A - 2"	THREE	2	2	2T58, 2RC-1-1	82-258
					2	2T58, 2RC-1-1 (REPEAT)	83B-148
		LETDOWN LINE B - 2	ONE	8	8	A.O. GLOBE, 2LCV-427	76-10
			TWO	2	2	2T58, 2RC-1-5	80-81
			THREE	8	8	A.O. GLOBE, 2LCV-428	82-164
		CHARGING LINE B - 2"	TWO	6	6	A.O. GLOBE, 2-8142	78-24
		SEAL INJUNCTION A - 2"	ONE	2	2	2T58, 2VC-7-18	76-94
		SEAL INJUNCTION B - 2"	ONE	2	2	2T58, 2VC-7-19	76-84

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PRAIRIE ISLAND UNIT II
BASELINE COMPARISON SUMMARY

TABLE II
PAGE 1 OF 3

COMPONENT/SYSTEM	NSP ISO	NDE METHOD	W BASELINE IDENT.	REPORT NO.	BASELINE INDICATIONS	ISI INDICATIONS	EXAMINATION LIMITATIONS
REACTOR VESSEL							
B1.8 CLOSURE STUDS AND NUTS							
NUTS	39	UT	#33 - 48	84-049	NONE	NONE	NONE
		MT		84-038	NONE	NONE	NONE
B1.10 CLOSURE WASHERS							
WASHERS	39	VT	#33 - 48	84-039	NONE	NONE	NONE
B1.11 PRESSURE RETAINING BOLTING							
MARMON CLAMP	38	VT	CLAMP #34	84-064	NONE	NONE	NONE
			CLAMP #35	84-064	NONE	NONE	NONE
			CLAMP #37	84-064	NONE	1 BOLT & 2 NUTS ERRODED - ITEMS REPLACED	NONE
B1.13 CLOSURE HEAD CLADDING							
CLADDING PATCH	47	VT	HCP-5	84-063	NONE	NONE	NONE
			HCP-6	84-063	NONE	NONE	NONE
STEAM GENERATOR							
B3.10 PRESSURE RETAINING BOLTING							
S/G #21	37	UT	INLET	84-014	NONE	NONE	NONE
		MT	MANWAY	84-018	NONE	NONE	NONE
	37	UT	OUTLET	84-014	NONE	NONE	NONE
		MT	MANWAY	84-018	NONE	NONE	NONE

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NORTHERN STATES POWER COMPANY
PRAIRIE ISLAND UNIT II
BASELINE COMPARISON SUMMARY

TABLE II
PAGE 2 OF 3

COMPONENT/SYSTEM	NSP ISO	NDE METHOD	W BASELINE IDENT.	REPORT NO.	BASELINE INDICATIONS	ISI INDICATIONS	EXAMINATION LIMITATIONS
S/G #22	37	UT	INLET	84-015	NONE	NONE	NONE
		MT	MANWAY	84-019	NONE	NONE	NONE
	37	UT	OUTLET	84-015	NONE	NONE	NONE
		MT	MANWAY	84-019	NONE	NONE	NONE
PIPING							
B4.5 CIRCUMFERENTIAL AND LONGITUDINAL WELDS							
SEAL INJECTION LOOP B	12C	UT	W-4	84-061	NONE	NONE	S-2,3,4 LIMITED @ 1:30, 4:30, 7:30 AND 10:30 BY FLANGE BOLTS
RTD RETURN LOOP A	6	UT	W-3	84-062	NONE	NONE	NO S-1 VALVE; S-2,3,4 LIMITED FROM 2:00 and 10:00 BY HANGER
B4.8 SOCKET WELDS							
RTD COLD LEG B	14	PT	W-14	84-050	NONE	NONE	LIMITED BY HANGER (APPROX. 60% COVERAGE)
REACTOR CORE COOLANT PUMPS							
B5.2 PRESSURE RETAINING BOLTING, WHEN REMOVED							
PUMP #21	43	UT	SEAL HOUSE UPPER	84-058	NONE	NONE	NONE
		MT		84-055	NONE	NONE	NONE

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PRAIRIE ISLAND UNIT II
BASELINE COMPARISON SUMMARY

TABLE II
PAGE 3 OF 3

COMPONENT/SYSTEM	NSP ISO	NDE METHOD	W BASELINE IDENT.	REPORT NO.	BASELINE INDICATIONS	ISI INDICATIONS	EXAMINATION LIMITATIONS
	43	UT	SEAL	84-057	NONE	NONE	NONE
		MT	HOUSE LOWER	84-054	NONE	1 BOLT = 3/4" LINEAR	NONE
				84-054R	N/A	REPLACEMENT BOLT/NONE	NONE
PUMP #22	43	UT	SEAL	84-020	NONE	NONE	NONE
		MT	HOUSE UPPER	84-016	NONE	NONE	NONE
	43	UT	SEAL	84-020	NONE	NONE	NONE
		MT	HOUSE LOWER	84-017	NONE	NONE	NONE
VALVES							
B6.7 VALVE INTERIORS							
ACCUMULATOR DISCHARGE	75	VT	2-8841A	84-013	NONE	NONE	NONE
B6.9 PRESSURE RETAINING BOLTING							
ACCUMULATOR DISCHARGE	22	VT	2-8840B	84-070	NONE	NONE	NONE

TABLE 3

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

NSP ISO NUMBER	REVISION	COMPONENT OR SYSTEM	LOOP	LINE SIZE	LINE NUMBER	UT - CAL. STANDARD
2-ISI-1	0	SEAL INJECTION (GENERAL VIEW)	A	1½"&2"	-	-
2-ISI-1A	0		A	1½"	1½-2VC-21A	1
2-ISI-1B	0		A	2"	2-2VC-21A	3
2-ISI-1C	0		A	2"	2-2VC-21A	3
2-ISI-2	0	CROSSOVER DRAIN	A	2"	2-2RC-10A	3
					2-2RC-11A	3
2-ISI-3	0	RTD TAKEOFF COLD LEG	A	2"	2-2RC-8A	3
2-ISI-4	0	RTD TAKEOFF HOT LEG	A	2"	2-2RC-7A	3
2-ISI-5	0	SAFETY INJECTION HIGH HEAD	A	2"	2-2SI-35A	3
2-ISI-6	0	RTD RETURN	A	3"	3-2RC-6A	4
2-ISI-7	0	SPRAY TO PRESSURIZER (GENERAL VIEW)	A&B	3"	-	-
2-ISI-7A	0		A	3"	3-2RC-5	4
2-ISI-7B	0		A	3"	3-2RC-5	4
2-ISI-7C	0		A	3"	3-2RC-5	4
2-ISI-7D	0		B	3"	3-2RC-5	4
2-ISI-8	0	SAFETY INJECTION HIGH HEAD	A	6"	6-2RC-13B	6
2-ISI-9	0	PLO-CAP	A	6"	6-2RC-13A	6
2-ISI-10	0	RHR TAKE OFF (GENERAL VIEW)	A	8"	-	-
2-ISI-10A	0			8"	8-2RC-15A	8
2-ISI-10B	0			8"	8-2RH-1A	8
2-ISI-10C	0			8"	8-2RH-1A	8
2-ISI-11	0	ACCUMULATOR DISCHARGE	A	12"	12-2RC-16A	11
					12-2SI-27A	11

NORTHERN STATES POWER CO.
PRAIRIE ISLAND UNIT 2
ISOMETRIC SUMMARY

NSP ISO NUMBER	REVISION	COMPONENT OR SYSTEM	LOOP	LINE SIZE	LINE NUMBER	UT - CAL. STANDARD
2-ISI-12	0	SEAL INJECTION (GENERAL VIEW)	B	1½"&2"	-	-
2-ISI-12A	0		B	2"	2-2VC-21B	3
2-ISI-12B	0		B	2"	2-2VC-21B	3
2-ISI-12C	0		B	1½"	1½-2VC-21B	1
2-ISI-13	0	CHARGING LINE (GENERAL VIEW)	B	2"	-	-
2-ISI-13A	0		B	2"	2-2RC-17	3
2-ISI-13B	0		B	2"	2-2VC-5	3
2-ISI-13C	0		B	2"	2-2VC-6	3
2-ISI-13D	0		B	2"	2-2VC-6	3
2-ISI-14	0	RTD TAKEOFF COLD LEG	B	2"	2-2RC-8B	3
2-ISI-15	0	RTD TAKEOFF HOT LEG	B	2"	2-2RC-7B	3
2-ISI-16	0	CROSSOVER DRAIN AND LETDOWN	B	2"	2-2RC-10B	3
					2-2RC-11B	3
					2-2RC-12	3
2-ISI-17	0	RTD RETURN	B	3"	3-2RC-6B	4
2-ISI-18	0	SAFETY INJECTION HIGH HEAD	B	6"	6-2RC-13D	6
2-ISI-19	0	PLO-CAP	B	6"	6-2RC-13C	6
2-ISI-20	0	RHR TAKEOFF (GENERAL VIEW)	B	8"	-	-
2-ISI-20A	0		B	8"	8-2RC-15B	8
2-ISI-20B	0		B	8"	8-2RH-1B	8
2-ISI-20C	0		B	8"	8-2RH-1B	8
2-ISI-21	0	RHR RETURN	B	10"	10-2SI-26	10
2-ISI-22	0	ACCUMULATOR DISCHARGE	B	12"	12-2RC-16B	11
					12-2SI-27B	11

NORTHERN STATES POWER CO.
PRAIRIE ISLAND UNIT 2
ISOMETRIC SUMMARY

NSP ISO NUMBER	REVISION	COMPONENT OR SYSTEM	LOOP	LINE SIZE	LINE NUMBER	UT - CAL. STANDARD
2-ISI-23	0	SAFETY INJECTION HIGH HEAD	B	2"	2-2SI-35B	3
2-ISI-24	0	AUXILIARY SPRAY	-	2"	2-2RC-19	3
					2-2VC-4	3
2-ISI-25	0	REACTOR VESSEL SAFETY INJECTION	A	2"	2-2SI-24A	3
2-ISI-26	0	REACTOR VESSEL SAFETY INJECTION	B	2"	2-2SI-24B	3
2-ISI-27	0	PRESSURIZER RELIEF	A&B	3"	3-2RC-21	4
2-ISI-28	0	REACTOR VESSEL SAFETY INJECTION	B	4"	4-2RC-14B	5
			B	6"	6-2RC-14B	6
			B	6"	6-2SI-25B	6
2-ISI-29	0	REACTOR VESSEL SAFETY INJECTION	A	4"	4-2RC-14A	5
			A	6"	6-2RC-14A	6
			A	6"	6-2SI-25A	6
2-ISI-30	0	PRESSURIZER SAFETY	A	6"	6-2RC-20A	6
			B	6"	6-2RC-20B	6
2-ISI-31	0	PRESSURIZER SURGE	B	10"	10-2RC-4	10
2-ISI-32	1	REACTOR COOLANT	A	29"	29-2RC-1A	15
			A	31"	31-2RC-2A	15
			A	27½"	27½-2RC-3A	15
2-ISI-33	1	REACTOR COOLANT	B	29"	29-2RC-1B	15
			B	31"	31-2RC-2B	15
			B	27½"	27½-2RC-3B	15
2-ISI-34	0	REGENERATIVE HEAT EXCHANGER	-	-	-	6
2-ISI-35	0	PRESSURIZER SAFETY AND RELIEF NOZZLES	-	-	-	-

TABLE 3

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NORTHERN STATES POWER CO.
PRAIRIE ISLAND UNIT 2
ISOMETRIC SUMMARY

NSP ISO NUMBER	REVISION	COMPONENT OR SYSTEM	LOOP	LINE SIZE	LINE NUMBER	UT - CAL. STANDARD
2-ISI-36	0	PRESSURIZER	-	-	-	25A/16
2-ISI-37	0	STEAM GENERATORS	A&B	-	-	25A
2-ISI-38	0	REACTOR VESSEL CONOSEAL BOLTING	-	-	-	-
2-ISI-39	0	REACTOR VESSEL STUDS, NUTS & WASHERS	-	-	-	STUDS-17
2-ISI-40	1	REACTOR VESSEL NOZZLES	-	-	-	-
2-ISI-41	0	REACTOR VESSEL HEAD WELD	-	-	-	25A
2-ISI-42	0	REACTOR VESSEL SHELL WELDS	-	-	-	-
2-ISI-43	0	RC PUMP SEAL HOUSING BOLTING	A&B	-	-	-
2-ISI-44	0	RC PUMP FLANGE BOLTING	A&B	-	-	-
2-ISI-45	0	RC PUMP FLYWHEEL	A&B	-	-	-
2-ISI-46 CL-1	0	EXCESS LETDOWN HEAT EXCHANGER	-	-	-	6
2-ISI-47 CL-1	0	REACTOR VESSEL CLOSURE HEAD CLAD PATCHES	-	-	-	-
2-ISI-48 CL-1	0	REACTOR VESSEL CLAD PATCH IDENTIFICATION	-	-	-	-

APPENDIX B

ASME CLASS 2 - EXAMINATION

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NORTHERN STATES POWER CO.
PRAIRIE ISLAND UNIT 2
INSERVICE INSPECTION–EXAMINATION SUMMARY

TABLE S2.1
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	CIRCUMFERENTIAL BUTT WELDS *				*(3 AREAS, EQUALLY DIVIDED)	
		STEAM GENERATOR NO. 21					
		WELD B	TWO	82"	180.5"	0" TO 48",129" TO 189",270" TO 330" & 439 TO 0"	81-127,128,133
		WELD F	THREE	111"	1085.4"	W-F 100%	82-241,242,243,250
		STEAM GENERATOR NO. 22					
		WELD C	-	82"			
		WELD E	-	82"			
		WELD F	THREE	-	1085.4"	W-F 100%	82-267,268,269,270
		WELD H	THREE	111"	253"	W-H 100" TO 176", 300" TO 375", 450" TO 528"	83B-044,031,111,032
C1.2	C-B	NOZZLE TO VESSEL WELDS					
		STEAM GENERATOR NO. 21					
		MAIN STEAM NOZZLE	-	-	-		
		FEEDWATER NOZZLE	-	-	-		
		STEAM GENERATOR NO. 22					
		MAIN STEAM NOZZLE	THREE	1	1	N-4	83B-110 (45° ONLY)
						N-4	84-007, 008, 006
		FEEDWATER NOZZLE	-	-	-		

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PRAIRIE ISLAND UNIT 2
INSERVICE INSPECTION–EXAMINATION SUMMARY

TABLE S2.1
PAGE 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.
C1.3	C-C	INTEGRALLY WELDED SUPPORTS	-	-	-	-NONE-	
C1.4	C-D	PRESSURE RETAINING BOLTING					
		STEAM GENERATOR NO. 21					
		MANWAY A BOLTING	TWO	20	17	(V)(MT)	81-70
				2(MIN)	17	(U.T.)	81-78
			THREE	-	20	(V)	82-237
		MANWAY B BOLTING	TWO	20	20	(V)(MT)	81-69
				2(MIN)	20	(U.T.)	81-77
			THREE	-	20	(V)	82-234
		STEAM GENERATOR NO. 22					
		MANWAY A BOLTING	TWO	20	18	(V)(MT)	81-71
				2(MIN)	18	(U.T.)	81-75
			THREE	-	18	(V)	82-239
		MANWAY B BOLTING	TWO	20	18	(V)(MT)	81-47,46
				2(MIN)	18	(U.T.)	81-47
			THREE	18	18	(V)	82-238
				2(MIN)	-	(U.T.)	
					20	(U.T. & V.T.)	83B-216

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INSERVICE INSPECTION–EXAMINATION SUMMARY

TABLE S2.1.2

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MAJOR ITEM: PRESSURE VESSELS-ACCUMULATORS

SUB ITEM	EXAM CATE-GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
C1.1	C-A	CIRCUMFERENTIAL BUTT WELDS *				*(3 AREAS, EQUALLY DIVIDED)	
		ACCUMULATOR NO. 21	THREE	20%	100%	W-6	84-059, 060, 069
		ACCUMULATOR NO. 22	-	-	-		
C1.2	C-B	NOZZLE TO VESSEL WELDS					
		ACCUMULATOR NO. 21	-	-	-		
		ACCUMULATOR NO. 22	-	-	-		
C1.3	C-C	INTERNALLY-WELDED-SUPPORTS					
		ACCUMULATOR NO. 21	-	-	-		
		ACCUMULATOR NO. 22	-	-	-		
C1.4	C-D	PRESSURE-RETAINING-BOLTING					
		ACCUMULATOR NO. 21	-	-	-		
		ACCUMULATOR NO. 22	THREE	24	24	(U.T. & V.T.)	83B-117

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PRAIRIE ISLAND UNIT 2

INSERVICE INSPECTION–EXAMINATION SUMMARY

TABLE S2.1.3

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MAJOR ITEM: PRESSURE VESSELS-RHR 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.
C.1.1	C-A	CIRCUMFERENTIAL BUTT WELDS *				*(3 AREAS EQUALLY DIVIDED)	
		RHR HEAT EXCHANGER NO. 21	-	-	-		
		RHR HEAT EXCHANGER NO. 22	-	-	-		
C1.2	C-B	NOZZLE TO VESSEL WELDS					
		RHR HEAT EXCHANGER NO. 21	-	-	-		
		RHR HEAT EXCHANGER NO. 23	-	-	-		
C1.3	C-C	INTERNALLY WELDED SUPPORTS					
		RHR HEAT EXCHANGER NO. 21	THREE	1	1	SUPPORT A	83B-258, 245
		RHR HEAT EXCHANGER NO. 22	-	-	-		
C1.4	C-D	PRESSURE RETAINING BOLTING					
		RHR HEAT EXCHANGER NO. 21	-	-	-		
		RHR HEAT EXCHANGER NO. 22	THREE	1	1	28 FLANGE BOLTS	82-070

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MAJOR ITEM: PRESSURE VESSELS-BORIC ACID TANKS

SUB ITEM	EXAM CATE-GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
C1.1	C-A	CIRCUMFERENTIAL BUTT WELDS *				*(3 AREAS EQUALLY DIVIDED)	
		BORIC ACID TANK NO. 21	-	-	-		
C1.2	C-B	NOZZLE TO VESSEL WELDS					
		BORIC ACID TANK NO. 21	-	-	-		
C1.3	C-C	INTERNALLY WELDED SUPPORTS					
		BORIC ACID TANK NO. 21	THREE	1	1	SUPPORT A	82-042,042R,043
C.14	C-D	PRESSURE RETAINING BOLTS					
		BORIC ACID TANK No. 21	THREE	16	16	BOLTS 1 THRU 16	82-069

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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	CIRCUMFERENTIAL BUTT WELDS					
		MAIN STEAM A 32-2MS-1	-	-	-		
		MAIN STEAM B 32-2MS-2	-	-	-		
		MAIN STEAM A 30-2MS-1 MAIN STEAM B 30-2MS-2	TWO THREE TWO	1 1 1	1 1 1	MS-11 MS-15 MS-83	81-123 82-124,136 81-43,55
		MAIN STEAM A 31-2MS-1 MAIN STEAM B 31-2MS-2	ONE TWO TWO	1 1 1	1 6 1	MS-17 MS-16,17,18 MS-19,20,174 MS-117	77-101,31 81-52,83,4,54,85 81-50,84,51,92,53,86 81-93
		MAIN STEAM A RELIEF HDR., 30-2MS-1 MAIN STEAM B RELIEF HDR., 30-2MS-2	ONE -	1 -	1 -	MS-188	77-99,15
		MAIN STEAM A 6-2MS-1 MAIN STEAM B 6-2MS-2	- ONE	- 1	- 1	MS-113	77-96,37
		FEEDWATER A 16-2FW-13 16-2FW-12 16-2FW-11	ONE TWO -	1 2 -	1 2 -	FW-161 FW-161 FW-174 FW-177 FW-177 FW-177 FW-177	77-45,55 80-20,27,83,185 80-18,31,84,160 80-19,29,40,162 81-10,32,36,42,42R 82-081,081A,089,089A 094 83B-022,025,035,001 001R,198 84-002,002R,009,012

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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					
		16-2FW-16	ONE	1	1	FW-116	77-97,3
		16-2FW-15	TWO	1	1	FW-133	80,21,38,41,161
						FW-133	81-11,33,35,41,41R
						FW-133	82-080,080R,088,088A, 090,090A
						FW-133	83B-023,024,036,002, 002R,002R1,199
						FW-133	84-001,001R,010,011
		FEEDWATER A					
		(8 in) 3-2AF-11	-	-	-		
		FEEDWATER B					
		(8 in) 3-2AF-12	-	-	-		
		REFUELING WATER STORAGE TANK DISCHARGE					
		14-2SI-1	TWO	1	1	W-58 (Pt only)	79-41
		14-2SI-1	THREE	1	1	W-49	82-040,040A
		12-2SI-3A	TWO	1	1	W-60	79-83
			THREE	-	3	W-59	83A-002, 060
						W-60	83A-001, 079
						W-61	83A-031, 059
		12-2SI-3B	THREE	-	3	W-57	83A-019, 055
						W-54	83A-030, 058
						W-55	83A-020, 054
		12-2SI-11	THREE	1	1	W-37	82-044,044A
				-	2	W-46	83A-017, 078
						W-47	83A-016, 056
		12-2SI-4	THREE	1	1	W-69W	82-005
		10-2SI-8	TWO	1	1	W-68W	79-84
		STREAM 1	THREE	1	1	W-75	82-016
		STREAM 2	TWO	2	2	W-88,289	79-77, 76

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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)					
		CONTAINMENT SUMP B DISCHARGE LINES					
		14-2SI-33A	-	-	-		
		14-2SI-33B	-	-	-		
		12-2SI-34A	TWO	1	1	W-17	79-25
		12-2SI-34B	TWO	1	1	W-5	79-26
		12-2RH-6A	THREE	1	1	W-18	82-018,018A
		12-2RH-6B	-	-	-		
		SAFETY INJECTION PUMP NO. 21 SUCTION 6-2RH-10A					
		BRANCH 1	TWO	5	5	W-285,93,161,96,95 96	79-59,78,79,82,80
		BRANCH 2	THREE	1	1	W-108	82-037
		SAFETY INJECTION PUMP NO. 22 SUCTION 6-2RH-10B					
		BRANCH 1	TWO	2	2	W-286, 135	79-57, 81
		BRANCH 2	THREE	1	2	W-148, 157	82-038,062
		RESIDUAL HEAT REMOVAL DISCHARGE					
		8-2RH-9A	TWO	1	1	W-68	79-67
		8-2RH-9A	THREE	1	1	W-154	82-045
		8-2RH-9B	THREE	1	1	W-71	82-024
			TWO	1	1	W-53	79-65

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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)					
		8-2RH-7A	THREE	1	1	W-192	82-046
		8-2RH-7B	TWO	1	1	W-201	79-63
		BORIC ACID SUPPLY TO SAFETY INJECTION					
		6-2SI-13A	TWO	1	1	W-272R	79-53
			THREE	1	3	W-127	82-041,041A
						W-126,W-127	83B-254,255
		6-2SI-13B	TWO	1	1	W-271	79-52
		8-2SI-17	THREE	-	1	W-35	83A-077, 097
		8-2SI-18	TWO	1	1	W-85	79-94
			THREE	5	5	W-2,26,32,34	82-060,060A,061,061A
							051,051A,050,050A
						W-27R	83A-070, 100
				-	51	W-34, 85	83A-076,098,071,099
						W-26	83A-072, 105
						W-25, 24	83A-073,106,091,116
						W-23, 22	83A-090,115,087,110
						W-33, 32	83A-069,101,074,104
						W-31, 30	83A-075,107,089,102
						W-29W, 28	83A-088,103,086,108
						W-21, 20	83A-085,109,034,117
						W-19, 18	83A-033,118,029,124
						W-17X, 16	83A-035,125,036,128
						W-280, 292	83A-037,129,038,130
						W-279, 278	83A-044,138,053,137
						W-12, 277	83A-045,136,046,132
						W-294,10	83A-050,133,047,134
						W-276, 275	83A-048,135,049,127
						W-7, 274	83A-051,126,052,123
						W-13, 273	83A-061,122,063,121
						W-4, 3	83A-064,120,065,119

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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)					
		8-2SI-18				W-2, 1	83A-066,114,067,113
						W-83X, 290	83A-068,112,062,111
						W-82, 81	83A-095,131,094,139
						W-80, 79	83A-093,140,092,141
						W-78, 77	83A-028,155,027,156
						W-76,75	83A-026,157,025,158
						W-353W, 74	83A-024,159,023,160
						W-73,44	83A-022,161,021,162
					5	W-2,3,25	83B-236,237,249
						W-31,32	83B-228,229
		12-2SI-11	THREE	1	1	W-40	82-068
				-	7	W-37, 38	83A-039,084,040,083
						W-39, 40	83A-043,081,042,080
						W-41, 44	83A-041,082,032,096
						W-45	83A-018,057
					1	W-40	83B-234
		RESIDUAL HEAT REMOVAL SUCTION					
		10-2SI-9A	TWO	1	1	W-212	79-54
		10-2SI-9B	TWO	1	1	W-143	79-55
		BORIC ACID SUPPLY					
		8-VC-71C	THREE	-	2	W-38, 39	83A-011,142,012,143
		8-2SI-18	THREE	2	11	W-40, 271	83A-013,144,014,145
						W-272, 273	83A-015,146,008,147
						W-274, 275	83A-007,148,006,149
						W-276, 41	83A-010,150,005,151
						W-42, 43	83A-004,153,009,152
						W-45	83A-003,154
					1	W-271	83B-235

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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.
		ACCUMULATOR DISCHARGE LINES					
		12-2SI-28A	-	-	-		
		12-2SI-28B	-	-	-		
		12-2SI-29A	-	-	-		
		12-2SI-29B	ONE	1	1	S1-316	77-49
C2.1	C-F						
		RESIDUAL HEAT REMOVAL DISCHARGE					
		10-2RH-11	ONE	1	1	RH-294	77-33
			TWO	1	1	W-176	79-30
			THREE	3	3	W-177,178,1411	82-006,003,127
		6-2RH-12	TWO	1	1	W-331	81-66
		6-2SI-10B	THREE	3	3	W-90,96,97	82-026,026A,025,256
		RESIDUAL HEAT REMOVAL SUCTION					
		12-2RH-5A	TWO	1	1	W-105	79-27
			THREE	2	1	119	82-052,052A
		12-2RH-5B	TWO	1	1	W-142	79-47,50
			THREE	2	2	W-139,153	82-035,035A,036,036A
		8-2RH-4A	TWO	1	1	W-100	79-68
		8-2RH-4B	THREE	1	1	W-134	82-039
		10-2RH-3	ONE	2	2	RH-255,RH-256	77-50,51
			TWO	2	2	W-225,226	79-28,29
			THREE	2	2	W-120,123	82-002,001

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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-F	(CONT'D)					
		8-2RH-5A	TWO	1	1	W-104	79-69
		8-2RH-5B	TWO	1	1	W-138	79-64
		REACTOR VESSEL SAFETY INJECTION					
		6-2SI-25A	ONE	1	1	S1-332	77-52
			TWO	1	1	W-349	81-65
			THREE	1	1	W-349	82-235
		6-2SI-25B	ONE	1	1	S1-26	77-46A

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MAJOR ITEM: 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-G	LONGITUDINAL WELD JOINTS IN FITTINGS					
		MAIN STEAM A					
		32-2MS-1	-	-	-		
		MAIN STEAM B					
		32-2MS-2	-	-	-		
		MAIN STEAM A					
		30-2MS-1	TWO	1	1	MS-11 TO MS-12	81-123
		MAIN STEAM B					
		30-2MS-2	-	-	-		
		MAIN STEAM A					
		31-2MS-1	ONE	1	1	MS-17 TO MS-18	77-93,30 (+93R)
		MAIN STEAM B					
		31-2MS-2	-	-	-		
		MAIN STEAM A					
		RELIEF HDR., 30-2MS-1	-	-	-		
		MAIN STEAM B					
		RELIEF HDR., 30-2MS-2	-	-	-		
		REFUELING WATER STORAGE TANK DISCHARGE					
		12-2SI-4	THREE	1	1	W-68W TO 69W	82-004
		RHR PUMP DISCHARGE					
		8-2RH-7B	-	-	-		
		8-2RH-7A	THREE	1	1	W-188 TO 189WR	83B-195, 196
		8-2RH-9B	THREE	1	1	W-72 TO 73	83B-193, 194
		8-2RH-9A	-	-	-		

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MAJOR ITEM: 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.
		CONTAINMENT SUMP B DISCHARGE					
		12-2RH-6A	THREE	1	1	W-19 TO 20R	82-017
		SAFETY INJECTION PUMPS SUCTION					
		6-2SI-13A	THREE	1	1	W-126 TO 127	83B-253
		6-2SI-13B	-	-	-		
		BORIC ACID SUPPLY TO SAFETY INJECTION					
		12-2SI-11	-	-	-		
		8-2SI-18	THREE	3	3	W-2 TO 3 W-25 TO 26 W-31 TO 32	83B-230 83B-211 83B-227
		BORIC ACID SUPPLY					
		8-2SI-18	THREE	1	1	W-40 TO 271	83B-233
	C-F	RHR PUMP SUCTION					
		10-2RH-3	THREE	2	2	W-121 TO 122 W-123 TO 124	83B-191 83B-189,190
		12-2RH-5B	THREE	1	1	W-139 to 140 to 216	84-056, 056A
		RHR PUMP DISCHARGE					
		10-2RH-11	THREE	2	2	W-176 TO 177 W-1411 TO 291	82-007 82-126

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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., 30-2MS-1	ONE	1	1	MS-186A	77-100,16
		MAIN STEAM B RELIEF HDR., 30-2MS-2	-	-	-		
		FEEDWATER A 16-2FW-13 (8", 3-2AF-11)	-	-	-		
		FEEDWATER B 16-2FW-16 (8", 3-2AF-12)	-	-	-		

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MAJOR ITEM: PIPING-PRESSURE RETAINING BOLTING

SUB ITEM	EXAM CATE-GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
C2.4	C-D	PRESSURE RETAINING BOLTING					
		RESIDUAL HEAT REMOVAL PUMP SUCTION					
		12-2RH-5B	THREE	20	20	BOLTS 1 THRU 20	83B-252
		12-2RH-5A	-	-	-	FLANGE @ 151	
		RESIDUAL HEAT REMOVAL PUMP DISCHARGE					
		10-2RH-11	THREE	16	16	BOLTS 1 THRU 16 FLANGE @ 172	83B-250

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MAJOR ITEM: PIPING-INTEGRALLY WELDED SUPPORTS

SUB ITEM	EXAM CATE-GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
C2.5	C-E-1	INTEGRALLY WELDED SUPPORTS					
		MAIN STEAM A	TWO	2	2	F,H,A	81-16,48,48R,14,74, 74R,16
		30-2MS-1	THREE	2	2	D,I	83B-129,113,130,122
		MAIN STEAM B	ONE	1	1	I	77-147
		30-2MS-2	TWO	2	2	A,H	81-13,30,15,34
			THREE	3	2	B,G	82-214,184,102
		MAIN STEAM A	ONE	3	3	J,K,M,	77-154,140
		31-2MS-1	TWO	1	1	S	81-2,3
		MAIN STEAM B					
		31-2MS-2	THREE	2	2	J,K,	82-101,125,160,199
		MAIN STEAM A					
		30-2MS-1 (R-HDR)	THREE	1	1	P	83B-172,168
		MAIN STEAM B					
		30-2MS-2 (R-HDR)	-	-	-		
		MAIN STEAM A					
		6-2MS-1	-	-	-		
		MAIN STEAM B					
			ONE	1	1	P	77-103
		FEEDWATER A					
		16-2FW-13	ONE	1	1	K	77-105
		16-2FW-12	TWO	10	10	A	80-5,5R,32
						B,C	80-5,5R,32
						E,F	80-1,28,68,63
						H,I	80-67,61,66,59
						J,K,L	80-77,60,3,3R,44
							80-8,26
						A,K	81-19,67,67R,20,68
			THREE	3	3	F,I	82-103,135,104,134
						J	82-105,133

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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.
C2.5	C-E-1	(CONT'D)					
		FEEDWATER B					
		16-2FW-16	ONE	2	2	G,H	77-104,148
		16-2FW-15	TWO	8	8	A	80-16,16R
						B,C,D,E,F	80-9,10,42,74
						G,H	80-11,11R,12
						A,G	81-18,17
			THREE	1	1	C	82-106
		REFUELING WATER STORAGE TANK DISCHARGE					
		12-2SI-4	TWO	1	1	C	79-42,34
		CONTAINMENT SUMP B DISCHARGE LINES					
		12-2SI-33A	-	-	-		
		12-2SI-33B	-	-	-		
		SAFETY INJECTION PUMP NO. 21 SUCTION					
		BRANCH 1					
		6-2RH-10A	ONE	1	1	B	77-119
		BRANCH 2					
		6-2RH-10A	ONE	1	1	G	77-119
		SAFETY INJECTION PUMP NO. 22 SUCTION					
		BRANCH 1					
		6-2RH-10B	TWO	1	1	D	79-35,38,38R
		BRANCH 2					
		6-2RH-10B	TWO	1	1	E	82-019,021,021R
		RESIDUAL HEAT REMOVAL SUCTION PUMP A					
		8-2RH-4A	TWO	1	1	A	79-19,44

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TABLE S2.2.5
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MAJOR ITEM: PIPING-INTEGRALLY WELDED SUPPORTS

SUB ITEM	EXAM CATE-GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
C2.5	C-E-1	(CONT'D)					
		RESIDUAL HEAT REMOVAL DISCHARGE PUMP B					
		8-2RH-9B	THREE	1	1	M	84-028, 029
		6-2SI-10B	THREE	3	3	F,H,J	83B-243,242,210,209
						H,J	84-022,027,023,026
		RESIDUAL HEAT REMOVAL DISCHARGE PUMP A					
		10-2RH-11	ONE	1	1	L	77-115
			THREE	3	3	G,J,K/J	83B-259,208,184,184R, 153,182/84-024,025
		8-2RH-7A	THREE	1	1	B/B	83B-246/84-030,031
		RESIDUAL HEAT REMOVAL DISCHARGE PUMP B					
		6-2S1-10B	-	-	-	-NONE-	
		RESIDUAL HEAT REMOVAL SUCTION PUMP B					
		10-2RH-3	ONE	1	1	C	77-118
			TWO	1	1	E	79-37,40,40R
			THREE	1	1	D	83B-241, 257
		8-2RH-4B	TWO	1	1	J	79-36,39,39R
		REACTOR VESSEL SAFETY INJECTION A					
		6-2S1-25A	ONE	1	1	A	77-109
			TWO	1	1	B	81-27,49,49R
			THREE	1	1	G	83B-232,231,231R
		REACTOR VESSEL SAFETY INJECTION B					
		6-2S1-25B	ONE	1	1	A	77-108

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MAJOR ITEM: PIPING-INTEGRALLY WELDED SUPPORTS

SUB ITEM	EXAM CATE-GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
		BORIC ACID SUPPLY TO SAFETY INJECTION					
		12-2SI-11	THREE	1	1	A	84-036, 037
		8-2SI-18	THREE	2	2	D, O	84-032,033,034,035

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TABLE S2.2.6
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MAJOR ITEM: PIPING-NON WELDED SUPPORTS

SUB ITEM	EXAM CATE-GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
C2.6	C-E-2	SUPPORT COMPONENTS					
		MAIN STEAM A					
		31-2MS-1	THREE	1	-		
		MAIN STEAM B					
		31-2MS-2	THREE	1	1	Q	82-207
		MAIN STEAM A					
		30-2MS-1	TWO	1	-	G	81-12,12R
		MAIN STEAM B					
		30-2MS-2	THREE	1	1	E	83B-108
		MAIN STEAM A					
		RELIEF HDR., 30-2MS-1	ONE	1	1	O	77-140
		MAIN STEAM B					
		RELIEF HDR., 30-2MS-2	TWO	1	1	O	81-1,1R
		FEEDWATER A					
		16-2FW-13	TWO	2	2	D,G	80-4,69
			THREE	1	1	D	83B-112
		REFUELING WATER STORAGE TANK DISCHARGE					
		12-2SI-4	TWO	1	1	B	79-45
		RESIDUAL HEAT REMOVAL DISCHARGE					
		8-2RH-7B	THREE	1	1	B	82-065
		8-2RH-7A	THREE	1	1	A	82-064
		10-2RH-11	THREE	2	2	H,I	82-048,047
		10-2SI-8					
		BRANCH 1	THREE	1	1	D	82-014
		BRANCH 2	-	-	-		

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 NO. 21 SUCTION BRANCH 1					
		6-2RH-10A	-	-	-	-NONE-	
		BRANCH 2					
		6-2RH-10A	TWO	1	1	E	79-46
			THREE	1	-		
		SAFETY INJECTION PUMP NO. 22 SUCTION BRANCH 1					
		6-2RH-10B-	-	-	-NONE-		
		BRANCH 2					
		6-2RH-10B	TWO	1	1	A	79-33,33R
			THREE	1	-		
		RESIDUAL HEAT REMOVAL DISCHARGE PUMP A					
		6-2RH-12	ONE	1	1	M	77-136
		PUMP B					
		6-2S1-10B	THREE	1	1	I	82-063
		RESIDUAL HEAT REMOVAL SUCTION PUMP B					
		10-2RH-3	ONE	2	2	A,B	77-155
			TWO	1	1	F	79-9
			THREE	2	3	D,G,H	82-020,022,023
		PUMP A					
		8-2RH-4A	TWO	1	1	B	79-18
		PUMP B					
		8-2RH-4B	THREE	1	1	L	82-013
		12-2RH-5B	THREE	1	1	N	82-010
		12-2RH-5A	THREE	1	1	D	82-011

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MAJOR ITEM: PIPING-NON WELDED SUPPORTS

SUB ITEM	EXAM CATE-GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
C2.6	C-E-2	(CONT'D)					
		RESIDUAL HEAT REMOVAL DISCHARGE					
		PUMP A					
		8-2RH-9A	THREE	2	2	C,D	83B-284,244
		PUMP B					
		8-2RH-9B	THREE	2	2	L/C	82-257/83B-247
		ACCUMULATOR DISCHARGE LINES					
		LINE A					
		12-2SI-28A	ONE	1	1	B	77-137
		12-2SI-29A	-	-	-		
		LINE B					
		12-2SI-28B	THREE	1	1	C	84-003
		12-2SI-29B	-	-	-		
		REFUELING WATER STORAGE TANK DISCHARGE					
		10-2SI-8	THREE	1	1	O	82-
		BORIC ACID SUPPLY TO SAFETY INJECTION					
		6-2SI-13A	ONE	1	1	B	77-153
		6-2SI-13B	-	-	-		
		8-2SI-18	THREE	5	5	C,E,F I,N	82-059,055,056 82-057,058
		REACTOR VESSEL SAFETY INJECTION					
		LINE A					
		6-2SI-25A	ONE	1	1	H	77-150
		LINE B					
		6-2SI-25B	TWO	1	1	B	

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MAJOR ITEM: PIPING-NON WELDED SUPPORTS

SUB ITEM	EXAM CATE-GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
C2.6	C-E-2	(CONT'D)					
		CONTAINMENT SUMP DISCHARGE LINES					
		LINE A	THREE	1	1	D	82-049
		LINE B	THREE	1	1	E	82-054

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TABLE S2.3

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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	PUMP CASING WELDS					
		SAFETY INSPECTION PUMPS CASING TO FLANGE WELD ON DISCHARGE					
		#21 PUMP	-	-	-		
		#22 PUMP	-	-	-		
		CASING TO FLANGE WELD ON SUCTION					
		#21 PUMP	-	-	-		
		#22 PUMP	-	-	-		
C3.2	C-D	PRESSURE RETAINING BOLTING					
		RHR PUMPS					
		#21 FLANGE BOLTS	THREE	24	24	BOLTS, 1 THRU 24	82-053
		#22 FLANGE BOLTS	-	-	-		
		SAFETY INJECTION PUMPS					
		#21 DISCH FLANGE BOLTS	THREE	8	8	BOLTS, 1 THRU 8	82-067
		#22 DISCH FLANGE BOLTS					
		#21 DRIVE END COVER	-	-	-		
		#22 DRIVE END COVER	THREE	16	16	BOLTS, 1 THRU 16	82-071
		#21 OUTBOARD COVER	THREE	16	16	BOLTS, 1 THRU 16	82-066
		#22 OUTBOARD COVER	-	-	-		

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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.
C3.3	C-E-1	INTEGRALLY WELDED SUPPORTS					
		RHR PUMPS					
		#21	THREE	1	1	Q	82-008
		#22	-	-	-		
		SAFETY INJECTION PUMPS					
		#21	THREE	3	3	A,B,E	32-027,028,029,030
		#22	THREE	3	3	C,D,F	82-031,032,033,034
C3.4	C-E-2	SUPPORT COMPONENTS					
		RHR PUMPS					
		#21	THREE	1	1	P	82-009
		#22	THREE	1	2	E,F	82-015,012

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INSERVICE INSPECTION–EXAMINATION SUMMARY

TABLE S2.4

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.
C4.1	C-F AND C-G	VALVE BODY WELDS	-	-	-	-NONE-	
C4.2	C-D	PRESSURE RETAINING BOLTING					
		MAIN STEAM A					
		31-2MS-1	TWO	26	26	(V)	81-9
				3(MIN)	26	(UT)	81-9
		MAIN STEAM B					
		31-2MS-2	-	-	-		
		MAIN STEAM A					
		(6") (OFF) RELIEF HDR	ONE	12	12	(V) RS-21-11	77-54
		30-2MS-1		2(MIN)	2	(UT) RS-2-11	77-54
			TWO	12	12	(V) RS-21-14	81-73
				2(MIN)	12	(UT) RS-21-14	81-73
		MAIN STEAM B					
		(6") (OFF) RELIEF HDR					
		30-2MS-2	TWO	12	12	(V) RS-21-20	81-8
				2(MIN)	12	(UT) RS-21-20	81-8
			THREE	24	24	(V) RS-21-17, RS-21-19	82-211,210
				4(MIN)	42	(UT) RS-21-17, RS-21-19	82-211,210
		RESIDUAL HEAT REMOVAL					
		PUMP A					
		6-2RH-12	-	-	-		
		PUMP B					
		6-2SI-10B	ONE	12	12	(V) 2-8803B	77-63
				2(MIN	2	(UT) 2-8803B	77-63

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INSERVICE INSPECTION–EXAMINATION SUMMARY

TABLE S2.4

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					
		12-2S1-29A	THREE	16	16	(V) 2-8800A	82-236
				2(MIN)	16	(UT) 2-8800A	82-236
		12-2S1-29B	-	-	-		
C4.3	C-E-1	INTEGRALLY WELDED SUPPORTS	-	-	-	-NONE-	
C4.4	C-E-2	SUPPORT COMPONENTS	-	-	-	-NONE-	

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PRAIRIE ISLAND UNIT II
BASELINE COMPARISON SUMMARY

TABLE II
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COMPONENT/SYSTEM	NSP ISO	NDE METHOD	W BASELINE IDENT.	REPORT NO.	BASELINE INDICATIONS	ISI INDICATIONS	EXAMINATION LIMITATIONS
C1.1 CIRCUMFERENTIAL BUTT WELDS							
ACCUMULATOR #21	76	UT	W-6	84-059	NONE	NONE	LIMITED SCANS OVER LONGITUDINAL WELDS
		UT		84-060	NONE	NONE	SAME
		UT		84-069	NONE	NONE	NONE
C1.2 NOZZLE TO VESSEL WELD							
S/G #22	37	UT	W-N4	84-007	NONE	NONE	NONE
		UT		84-006	NONE	NONE	S-2 BEST EFFORT NOZZLE
		UT		84-008	NONE	NONE	S-2 B.E. NOZZLE
C2.1 CIRCUMFERENTIAL BUTT WELDS							
FEEDWATER A	48A	UT	FW-177	84-009	S-2 ID GEO 70%	S-2 OD GEO, 20% S-2 ID GEO, 45%	NO. S-1 DIFF CAL
		UT		84-012	S-2 OD GEO 100%	S-1 OD GEO 45%	NO S-2 DIFF CAL
		MT		84-002	NONE	LINEARS	NONE
				84-002R	N/A	NONE-INDICATIONS BUFFED OUT	NONE
FEEDWATER B	49A	UT	FW-133	84-010	S-2 ID GEO 80%	S-2 OD GEO, 30%	NO. S-1 DIFF CAL
					S-2 OD GEO 80%	S-2 ID GEO, 25%	
		UT		84-011	S-1 ID GEO 20%	S-1 ID GEO, 40%	NO S-2 DIFF CAL
					S-1 OD GEO 20%	S-1 OD GEO, 40%	

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PRAIRIE ISLAND UNIT II
BASELINE COMPARISON SUMMARY

TABLE II
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COMPONENT/SYSTEM	NSP ISO	NDE METHOD	W BASELINE IDENT.	REPORT NO.	BASELINE INDICATIONS	ISI INDICATIONS	EXAMINATION LIMITATIONS
		MT		84-001	NONE	LINEARS	NONE
				84-001R	N/A	NONE-INDICATIONS BUFFED OUT	NONE
C2.2 LONGITUDINAL WELDS IN FITTINGS:							
RHR PUMP SUCTION	50	UT	W-139 to 140 to 216	84-056	N/A	NONE	NONE
				84-056A	N/A	NONE	NONE
C2.5 WELDED SUPPORTS							
RHR PUMP DISCHARGE	57	PT	B	84-030	N/A	POROSITY, CODE ACCEPTABLE	NONE
		VT		84-031	N/A	NONE	NONE
	55	PT	M	84-028	N/A	POROSITY, ENGR ANALYSIS ACCEPTED	NONE
		VT		84-029	N/A	NONE	NONE
	55	PT	H	84-022	N/A	UNDERCUT	NONE
				84-022R	N/A	INDICATION BLENDED OUT/NONE	NONE
		VT		84-027	N/A	NONE	NONE
	55	PT	J	84-023	N/A	POROSITY, CODE ACCEPTABLE	NONE
		VT		84-026	N/A	NONE	NONE
	57	PT	J	84-024	N/A	NONE	NONE
		VT		84-025	N/A	NONE	NONE

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PRAIRIE ISLAND UNIT II
BASELINE COMPARISON SUMMARY

TABLE II
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COMPONENT/SYSTEM	NSP ISO	NDE METHOD	W BASELINE IDENT.	REPORT NO.	BASELINE INDICATIONS	ISI INDICATIONS	EXAMINATION LIMITATIONS
BORIC ACID SUPPLY TO SAFETY INJECTION	61	PT	A	84-036	N/A	NONE	NONE
		VT		84-037	N/A	NONE	NONE
	61	PT	D	84-032	N/A	NONE	NONE
		VT		84-033	N/A	NONE	NONE
	61	PT	O	84-034	N/A	NONE	NONE
		VT		84-035	N/A	NONE	NONE
C2.6 SUPPORT COMPONENTS							
ACCUMULATOR DISCHARGE	75	VT	C	84-003	N/A	NONE	NONE

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PRAIRIE ISLAND UNIT I
ISOMETRIC SUMMARY

TABLE III
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NSP ISO NUMBER	REVISION	COMPONENT OR SYSTEM	LOOP	LINE SIZE	LINE NUMBER	UT - CAL. STANDARD
ISI-43	0	STEAM GENERATORS	A & B	-	-	26
ISI-51	0	MAIN STEAM (GENERAL VIEW)	A	-	-	-
ISI-51A	0		A	32"	32-MS-1	NO
ISI-51B	0		A	31"	31-MS-1	24
				30"	30-MS-1	23
				6"	6-MS-1	7
ISI-52	0	FEEDWATER (GENERAL VIEW)	A	-	-	-
ISI-52A	1		A	16"	16-FW-13	13
ISI-52B	0		A	16"	16-FW-8	13
			A	8"	3-AF-11	NO
ISI-53	2	RHR PUMP A SUCTION (WELDS)	A	10"	10-RH-3	22
ISI-54	2	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-SI-9A	22
ISI-55	2	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-SI-10A	27
			A	6"	6-SI-10B	6
ISI-68	0	MAIN STEAM (GENERAL VIEW)	B	-	-	-
ISI-68A	0		B	32"	32-MS-2	NO
ISI-68B	0		B	31"	31-MS-2	24
				30"	30-MS-2	23
				6"	6-MS-2	7
ISI-69	0	FEEDWATER (GENERAL VIEW)	B	-	-	-
ISI-69A	1		B	16"	16-FW-16	13
ISI-69B	0		B	16"	16-FW-15	13
				8"	3-AF-12	NO

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PRAIRIE ISLAND UNIT 1
ISOMETRIC SUMMARY

NSP ISO NUMBER	REVISION	COMPONENT OR SYSTEM	LOOP	LINE SIZE	LINE NUMBER	UT - CAL. STANDARD
ISI-76	2	RHR PUMP B SUCTION (WELDS)	B	8"	8-RH-4B	29
ISI-77	1	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	1	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	27
ISI-80	1	REFUELING WATER STORAGE (WELDS)	-	14"	14-SI-1	34
		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	33
ISI-82	1	SAFETY INJECTION PUMPS' SUCTION	-	12"	12-SI-11	33
				8"	8-SI-17	30
				9"	8-SI-18	30
ISI-83	1	SAFETY INJECTION PUMPS' SUCTION AND		6"	6-SI-13A	28
				6"	6-SI-13B	28
		SAFETY INJECTION PUMPS	#11 & #12	-	-	NO
ISI-84	1	BORIC ACID SUPPLY	-	8"	8-SI-18	30
ISI-85	1	ACCUMULATOR DISCHARGE	A	12"	12-SI-28A	11
			A	12"	12-SI-29A	11
			B	12"	12-SI-28B	11
			B	12"	12-SI-29B	11
ISI-86	1	ACCUMULATOR TANKS	#11 & #12	-	-	NO

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PRAIRIE ISLAND UNIT 1
ISOMETRIC SUMMARY

NSP ISO NUMBER	REVISION	COMPONENT OR SYSTEM	LOOP	LINE SIZE	LINE NUMBER	UT - CAL. STANDARD
ISI-87	1	CONTAINMENT SUMP B DISCHARGE (WELDS)	A	14"	14-SI-33A	34
ISI-88	0	CONTAINMENT SUMP B DISCHARGE (HANGERS)	A	12"	12-SI-34A	32
			B	14"	14-SI-33B	34
			B	12"	12-SI-34B	32
ISI-89	1	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	1	ALTERNATVE CONTAINMENT SPRAY (WELDS) PUMP SUCTION	A	6"	6-RH-10A	27
ISI-92	0	ALTERNATE CONTAINMENT (HANGERS) SPRAY PUMP SUCTION	B	6"	6-RH-10B	27
ISI-93	0	RESIDUAL HEAT EXCHANGER	#11 & #12	-	-	NO
ISI-94	0	BORIC ACID TANKS	#11 & #12	-	-	NO

APPENDIX C
FSAR AUGMENTED EXAMINATION

APPENDIX C

FSAR AUGMENTED EXAMINATIONS

NO EXAMINATIONS SCHEDULED THIS OUTAGE

APPENDIX D

SEISMIC BOLTING EXAMINATIONS

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NORTHERN STATES POWER CO.
PRAIRIE ISLAND UNIT 2
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. 21					
		UPPER RING GIRDER (SNUBBER PINS)	ONE	2	2	SNUBBER 1	77-72
			TWO	2	2	SNUBBER 2	80-180
						SNUBBER 1 THRU 4	81-97
			THREE	4	4	SNUBBER 3 & 4	83B-119
		UPPER RING GIRDER (SNUBBER WALL BOLTS)	ONE	5	5	TOP ROW	77-143
			TWO	5	5	CENTER ROW	80-110
					15	ALL BOLTS	81-106
			THREE	5	5	BOTTOM ROW	83B-204
					5	BOTTOM ROW	84-004, 004R
		UPPER RING GIRDER (SNUBBER BOLTS)	ONE	8	8	TOP ROW ON GIRDER	77-143
			TWO	8	8	TOP ROW ON WALL	80-176
					32	ALL BOLTS	81-98
			THREE	16	-		
		UPPER RING GIRDER (RING CONNECT BOLTS)	ONE	10	10	RING CON. 2	77-159
			TWO	10	10	RING CON. 1	80-110
					40	PAD 1 THRU 4	81-119,114,114R
			THREE	20	-		
		UPPER RING GIRDER (RING WALL BOLTS)	ONE	10	10	10 EXAMINED	77-159
			TWO	10	10	10 EXAMINED	80-110
					30	PAD 1 THRU 4 (REPEAT INSP.)	81-107,108,109,110
			THREE	10	20	PAD 2 & 4	83B-202
		COLUMN PINS	ONE	2	2	BOT COL 1/ TOP COL 4	77-69,70
			TWO	2	2	BOT & TOP COL 2	80-182
						COLUMN 1 THRU 4 TOP & BOTTOM	81-135

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NORTHERN STATES POWER CO.
PRAIRIE ISLAND UNIT 2
INSERVICE INSPECTION–EXAMINATION SUMMARY

TABLE 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	(S.G. NO. 21 CONT'D)					
			THREE	4	3	TOP COL 1 BOT COL 3 & 4	84-067 84-068, 042
		BASE ANCHOR BOLTS	ONE	8	8	BASE OF COLUMN 1	77-143
			TWO	8	8	BASE OF COLUMN 2	80-106
					32	BASE OF COLUMN 1 THRU 4	81-80
			THREE	16	16	BASE OF COL. 3&4	83B-028
		TOP COLUMN CONNECTING BOLTS	ONE	4	4	TOP OF COLUMN 1	77-165
			TWO	4	4	TOP OF COLUMN 2	80-173
					16	TOP OF COLUMN 1 THRU 4	81-136,149
			THREE	8	16	TOP OF COLUMN 1 THRU 4	83B-217
		UPPER RING GIRDER (SPRING HANGER)			2	SGH-2,SGH-4	81-111,112
		SUPPORT PAD HELI-COIL SCREWS	ONE	6	6	COLUMN 1	77-62
			TWO	6	6	COLUMN 2	80-183
					24	ALL HELICOIL SCREWS	81-122
			THREE	12	24	ALL HELICOIL SCREWS	82-111
		STEAM GENERATOR NO. 22					
		UPPER RING GIRDER (SNUBBER PINS)	ONE	2	2	SNUBBER 1	77-71
			TWO	2	2	SNUBBER 2	80-180
					8	SNUBBFR 1 THRU 4	81-96
			THREE	4	4	SNUBBER 3 & 4	83B-118

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NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 2

INSERVICE INSPECTION–EXAMINATION SUMMARY

TABLE 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. 22 CONT'D)					
		UPPER RING GIRDER (SNUBBER WALL BOLTS)	ONE	5	5	TOP ROW	77-142
			TWO	5	5	CENTER ROW	80-111
					15	ALL BOLTS	81-99
			THREE	5	5	BOTTOM ROW	84-005
		UPPER RING GIRDER (SNUBBER BOLTS)	ONE	8	8	TOP ROW ON GIRDER	77-142
			TWO	8	8	TOP ROW ON WALL	80-112
					32	ALL BOLTS	81-95
			THREE	16	-		
		UPPER RING GIRDER (RING CONNECT BOLTS)	ONE	10	10	RING CON. 4	77-160
			TWO	10	10	RING CON. 1	80-111
					40	PAD 1 THRU 4	81-118,120
			THREE	20	-		
		UPPER RING GIRDER (RING WALL BOLTS)	ONE	10	10	10 EXAMINED	77-160
			TWO	10	10	10 EXAMINED	80-111
					30	PAD 1 THRU 4 (REPEAT INSP.)	81-102,103,104,105
			THREE	10	20	PAD 2 & 4	83B-205
		BASE ANCHOR BOLTS	ONE	8	8	BASE OF COLUMN 1	77-160
			TWO	8	8	BASE OF COLUMN 2	80-106
					32	BASE OF COLUMN 1 THRU 4	81-79
			THREE	16	16	BASE OF COLUMN 3 & 4	83B-144
		UPPER RING GIRDER (SPRING HANGER)			2	SGH-2,SGH-4	81-100,101
		TOP COLUMN CONNECTING BOLTS	ONE	4	4	TOP OF COLUMN 1	77-165
			TWO	4	4	TOP OF COLUMN 2	80-113
					16	TOP OF COLUMN 1 THRU 4	81-137,148

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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.
N/A	N/A	(S.G. NO. 22 CONT'D)					
			THREE	8	16	TOP OF COLUMN 1 THRU 4	83B-218
		COLUMN PINS	THREE	4	4	TOP COL 3 & 4 BOT COL 3 & 4	84-065, 066 84-043, 044
		SUPPORT PAD	ONE	6	6	COLUMN 1	77-61
		HELI-COIL SCREWS	TWO	6	6	COLUMN 2	80-184
					24	ALL HELICOIL SCREWS	81-151
			THREE	12	24	ALL HELICOIL SCREWS	82-260
		PRESSURIZER					
		BASE ANCHOR BOLTS	ONE	8	8	1-8 BOLTS	77-146
			TWO	8	8	9-16 BOLTS	80-114
					24	ALL BOLTS	81-91
			THREE	8	8	17-24 BOLTS	83B-022
		ACCUMULATOR A					
		BASE ANCHOR BOLTS	ONE	8	8	1-8 BOLTS	77-141
			TWO	8	8	9-16 BOLTS	80-115
					24	ALL BOLTS	81-90
			THREE	8	8	17-24 BOLTS	83B-131
		ACCUMULATOR B					
		BASE ANCHOR BOLTS	ONE	8	8	1-8 BOLTS	77-141
			TWO	8	8	9-16 BOLTS	80-115
					24	ALL BOLTS	81-88
			THREE	8	8	17-24 BOLTS	83B-132

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NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 2

INSERVICE INSPECTION–EXAMINATION SUMMARY

TABLE 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	REACTOR COOLANT PUMPS					
		PUMP NO. 21					
		COLUMN PINS	ONE	2	2	COLUMN 1	77-67
			TWO	2	2	COLUMN 2	80-181
					6	COLUMN 1 THRU 3	81-135
			THREE	2	2	COLUMN 3	84-041, 048
		BASE ANCHOR BOLTS	ONE	8	8	BASE OF COLUMN 1	77-158
			TWO	8	8	BASE OF COLUMN 2	80-107
					24	BASE OF COLUMN 1 THRU 3	81-82
			THREE	8	8	BASE OF COLUMN 3	84-052
		COLUMN CONNECTING BOLTS	ONE	6	6	TOP OF COLUMN 1	77-163
			TWO	6	6	TOP OF COLUMN 2	80-174
					18	TOP OF COLUMN 1 THRU 3	81-154,156
			THREE	6	6	TOP OF COLUMN 3	84-053
		TIE BACK BOLTS	ONE	1	1	PAD 1	77-77
			TWO	1	1	PAD 2	80-179
					3	PAD 1 THRU 3	81-150,157,160,161
			THREE	1	1	PAD 3	82-093
		TIE BACK PINS	ONE	1	1	PAD 1	77-68
			TWO	1	1	PAD 2	80-186
					3	PAD 1 THRU 3	81-135
			THREE	1	1	PAD 3	84-047
		THROUGH ANCHOR BOLTS	ONE	2	2	PAD 1, SOUTH 2	77-161
			TWO	2	2	PAD 1, CENTER 2	80-175
					6	PAD 1, ALL BOLTS	81-157,168
			THREE	2	-		

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PRAIRIE ISLAND UNIT 2

INSERVICE INSPECTION–EXAMINATION SUMMARY

TABLE 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.
		PUMP NO. 21 (CONT'D)					
		LATERAL SUPPORT AND WALL BOLTS	ONE	4	4	PAD 2	77-158
			TWO	3	3	PAD 3, TOP ROW	80-175
					10	PAD 2 & 3, ALL BOLTS	81-160,161
			THREE	3	3	PAD 3, BOTTOM ROW	83B-221
		PUMP NO. 22					
		COLUMN PINS	ONE	2	2	COLUMN 1	77-64
			TWO	2	2	COLUMN 2	80-181
					6	COLUMN 1 THRU 3	81-135
			THREE	2	2	COLUMN 3	84-040, 046
		BASE ANCHOR BOLTS	ONE	8	8	BASE OF COLUMN 1	77-161
			TWO	8	8	BASE OF COLUMN 2 THRU 3	80-107
					24	BASE OF COLUMN 1 THRU 3	81-81
			THREE	8	8	BASE OF COLUMN 3	84-051
		COLUMN CONNECTING BOLTS	ONE	6	6	TOP OF COLUMN 1	77-162
			TWO	6	6	TOP OF COLUMN 2	80-108
					18	TOP OF COLUMN 1 THRU 3	81-142,153
			THREE	6	18	TOP OF COLUMN 1 THRU 3	83B-219
		TIE BACK BOLTS	ONE	1	1	PAD 1	77-76
			TWO	1	1	PAD 2	80-179
					3	PAD 1 THRU 3	81-145,147,158,159
			THREE	1	1	PAD 3	83B-171

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NORTHERN STATES POWER CO.
PRAIRIE ISLAND UNIT 2
INSERVICE INSPECTION–EXAMINATION SUMMARY

TABLE 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.
		PUMP NO. 22 (CONT'D)					
		TIE BACK PINS	ONE	1	1	PAD 1	77-66
			TWO	1	1	PAD 2	80-186
					3	PAD 1 THRU 3	81-135
			THREE	1	1	PAD 3	84-045
		THRUGH ANCHOR BOLTS	ONE	2	2	PAD 1, SOUTH 2	77-158
			TWO	2	2	PAD 1, CENTER 2	80-109,109R
					6	PAD 1, ALL BOLTS	81-145,168
			THREE	2	2	PAD 1, NORTH 2	83B-220
		LATERAL SUPPORT AND WALL BOLTS	ONE	4	4	PAD 2	77-161
			TWO	3	3	PAD 3, TOP ROW	80-109
					10	PAD 2 & 3, ALL BOLTS	81-158,159
			THREE	3	3	PAD 3, BOTTOM ROW	83B-238

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NORTHERN STATES POWER COMPANY
PRAIRIE ISLAND UNIT II
BASELINE COMPARISON SUMMARY

TABLE II
PAGE 1 OF 2

COMPONENT/SYSTEM	NSP ISO	NDE METHOD	W BASELINE IDENT.	REPORT NO.	BASELINE INDICATIONS	ISI INDICATIONS	EXAMINATION LIMITATIONS
SEISMIC BOLTING							
STEAM GENERATOR NO 21							
SNUBBER BOLTS	85	VT	BOTTOM ROW	84-004	NONE	WASHER NOT IN FULL CONTACT	NONE
				84-004R	N/A	NONE - WASHER BEVELED FOR FULL CONTACT	NONE
COLUMN PINS	77	UT	TOP COL 1	84-067	NONE	NONE	NONE
	78	UT	BOT COL 3	84-068	NONE	NONE	NONE
		UT	BOT COL 4	84-042	NONE	NONE	NONE
STEAM GENERATOR NO 22							
SNUBBER BOLTS	85	VT	BOTTOM ROW	84-005	NONE	NONE	NONE
COLUMN PINS	77	UT	TOP COL 3	84-066	NONE	NONE	NONE
		UT	TOP COL 4	84-065	NONE	NONE	NONE
		UT	BOT COL 3	84-043	NONE	NONE	NONE
		UT	BOT COL 4	84-044	NONE	NONE	NONE
REACTOR CORE COOLANT PUMP 21							
COLUMN PINS	79	UT	TOP COL 3	84-048	NONE	NONE	NONE
	80	UT	BOT COL 3	84-041	NONE	NONE	NONE
BASE ANCHOR BOLTS	79	VT	COL 3	84-052	NONE	NONE	NONE
TOP COLUMN CONNECTING BOLTS	80	VT	COL 3	84-053	NONE	NONE	NONE
TIE BACK PIN	84	UT	PAD 3	84-047	NONE	NONE	NONE

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NORTHERN STATES POWER COMPANY
PRAIRIE ISLAND UNIT II
BASELINE COMPARISON SUMMARY

TABLE II
PAGE 2 OF 2

COMPONENT/SYSTEM	NSP ISO	NDE METHOD	W BASELINE IDENT.	REPORT NO.	BASELINE INDICATIONS	ISI INDICATIONS	EXAMINATION LIMITATIONS
REACTOR CORE COOLANT PUMP 22							
COLUMN PINS	79	UT	TOP COL 3	84-046	NONE	NONE	NONE
	80	UT	BOT COL 3	84-040	NONE	NONE	NONE
BASE ANCHOR BOLTS	79	VT	COL 3	84-051	NONE	NONE	NONE
TIE BACK PIN	81	UT	PAD 3	84-045	NONE	NONE	NONE

TABLE 3

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NORTHERN STATES POWER CO.
PRAIRIE ISLAND UNIT 2
ISOMETRIC SUMMARY - SEISMIC BOLTING AUGMENTED

NSP ISO NUMBER	REVISION	COMPONENT OR SYSTEM	LOOP	LINE SIZE	LINE NUMBER	UT - CAL. STANDARD
2-ISI-77	0	STEAM GENERATOR SUPPORT BASE	A&B	-	4/GENERATOR	-
2-ISI-78	0	STEAM GENERATOR SUPPORT TOP	A&B	-	4/GENERATOR	-
2-ISI-79	0	REACTOR COOLANT PUMP SUPPORT BASE	A&B	-	3/PUMP	-
2-ISI-80	0	REACTOR COOLANT PUMP SUPPORT TOP	A&B	-	3/PUMP	-
2-ISI-81	0	R.C. PUMP #22 LOWER LATERAL SUPPORT	B	-	-	-
2-ISI-84	0	R.C. PUMP #21 LOWER LATERAL SUPPORT	A	-	-	-
2-ISI-85	0	STEAM GENERATOR UPPER SUPPORT	A&B	-	-	-
2-ISI-86	0	STEAM GENERATOR UPPER SUPPORT SNUBBERS	A&B	-	-	-
2-ISI-87	0	STEAM GENERATOR SUPPORT PAD	A&B	-	4/GENERATOR	37/38
2-ISI-88	0	PRESSURIZER BASE	-	-	-	-
2-ISI-89	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

PERSONNEL LISTING

EXAMINER	TITLE	ORGANIZATION	ASNT LEVEL UT	PT	MT	VT	ET	RT
ALLER, R G	TECHNICIAN	LMT (2)	II	II	II	II(1b)	-	-
CAPPELL, R M	TECHNICIAN	LMT	I	II	II	II(1a,b)	-	-
KELLERHALL, R A	SUPERVISOR	LMT	III	III	III	III(1a,b)	-	-
MACGILL, D B	SUPERVISOR	LMT	III	III	III	III(1a,b)	-	-
SEVERTSON, R J	TECHNICIAN	LMT	I	-	-	-	-	-
ABELL, G E	ANALYST	B & W (3)	-	-	-	-	III	-
AKERLUND, B E	TECHNICIAN	B & W	-	-	-	-	II	-
BOWLER, S R	TECHNICIAN	B & W	-	-	-	-	I	-
COCKLIN, P R	TECHNICIAN	B & W	-	-	-	-	II	-
FUNG, G P	TECHNICIAN	B & W	-	-	-	-	II	-
GLADNEY, A C	ANALYST	B & W	-	-	-	-	II	-
HACKER, M	ANALYST	B & W	-	-	-	-	IIA	-
LOER, M S	TECHNICIAN	B & W	-	-	-	-	II	-
MARINAK, E A	SUPERVISOR	B & W	-	-	-	-	II	-
MUNSON, E J	TECHNICIAN	B & W	-	-	-	-	I	-
NAVRATIL, G	SUPERVISOR	B & W	-	-	-	-	II	-
O'BRIEN, T K	TECHNICIAN	B & W	-	-	-	-	TRAINEE	-
O'GRADY, P W	TECHNICIAN	B & W	-	-	-	-	II	-

FOOTNOTES:

(1a) Certified by NSP to perform visual determination of structural integrity for hanger assemblies in accordance with NSP-VT-2.

(1b) Inspection experience and NDE qualifications were judged to be adequate to perform visual examinations in accordance with NSP-VT-1.

PERSONNEL LISTING

EXAMINER	TITLE	ORGANIZATION	ASNT LEVEL UT	PT	MT	VT	ET	RT
PERSINGER, W J	SUPERVISOR	B & W	-	-	-	-	II	-
PORTER, J	TECHNICIAN	B & W	-	-	-	-	I	-
REDNER, S A	COORDINATOR	B & W	-	-	-	-	II	-
RICHARDS, T	ANALYST	B & W	-	-	-	-	III	-
SCHWENN, J S	TECHNICIAN	B & W	-	-	-	-	II	-
SPENCER, J L	TECHNICIAN	B & W	-	-	-	-	I	-
STOREY, M M	SUPERVISOR	B & W	-	-	-	-	II	-
TERNING, G A	ANALYST	B & W	-	-	-	-	IIA	-
U'REN, T J	TECHNICIAN	B & W	-	-	-	-	II	-
WASHBURN, T G	TECHNICIAN	B & W	-	-	-	-	I	-
WEBER, D D	ANALYST	B & W	-	-	-	-	III	-
WEBBER, C B	TECHNICIAN	B & W	-	-	-	-	II	-
BANDY, C L	TECHNICIAN	CONAM (4)	-	-	-	-	IIB	-
CHAMBERS, D M	ANALYST	CONAM	-	-	-	-	IIA	-
DOBSON, M E	ANALYST	CONAM	-	-	-	-	IIA	-
FUNANICH, J	SUPERVISOR	CONAM	-	-	-	-	III	-
LOFGREN, R H	ANALYST	CONAM	-	-	-	-	IIA	-

FOOTNOTES:

(2) Organization: (LMT) Lambert, MacGill, Thomas, Inc.
515 Aldo Avenue
Santa Clara, CA 95050

(3) Organization: (B&W) Babcock & Wilcox
Special Productions & Integrated Field Services
3110 Odd Fellows Road
Lynchburg, VA 24501

PERSONNEL LISTING

EXAMINER	TITLE	ORGANIZATION	ASNT LEVEL UT	PT	MT	VT	ET	RT
ANDERSON, M T	M & S P ENGINEER	NSP	III	III	II	III(1b)	-	III
DAHLMAN, L C	M & S P	NSP	II	III	III	III(1a,b)	-	III
BRUSSEAU, F	ANI	HARTFORD STEAM BOILER INSPECTION AND INSURANCE CO						
CHRISTIE, G	ANI	HARTFORD STEAM BOILER INSPECTION AND INSURANCE CO						

FOOTNOTES:

(4) Organization: (Conam) Conam Inspection
660 South 31st Street
Richmond, CA 94804

NORTHERN STATES POWER COMPANY
PRAIRIE ISLAND UNIT II
ULTRASONIC CALIBRATION BLOCKS

APPENDIX E
TABLE II

NSP No.	SIZE & DIA.	PIPE SCHEDULE & THICKNESS		MATERIAL	SERIAL OR HEAT NUMBER	CALIBRATION REPORTS	DATE
3	2"	Sch.160	.344	A312,TP-304	2P4659	RGA-013	9-18-84
4	3"	Sch.160	.438	A376,TP-316	M5900	RGA-014	9-18-84
26	-	6" X 12"	3.500	A533,GR.A CL.2	52391	RGA-001 RGA-002 RGA-003	9-8-84 9-7-84 9-8-84
32	12"	Sch.40	.375	A312,TP-304	F41542	RGA-012 RGA-015	9-17-84 9-22-84
36	16"	Sch.100	1.031 X.585	A106,GR.C	45124A	RGA-004 RGA-005	9-10-84 9-10-84
37	-	6" x 12"	1.500 + CLAD	SA516 GR.70	8733967	RGA-016 RAK-003 RAK-004	9-24-84 9-18-84 9-18-84

NORTHERN STATES POWER COMPANY
PRAIRIE ISLAND - UNIT II

APPENDIX E
TABLE ~~III~~

PROCEDURE LISTING

PROCEDURE NUMBER AND REVISION	FIELD CHANGE	PROCEDURE TITLE	PLANT APPROVAL DATE	FIELD CHANGE REMARKS	CHANGE DESCRIPTION
NSP-MT-1, REV 2	NONE	MAGNETIC PARTICLE EXAM	6-22-83	NONE	
NSP-MT-2, REV 0	NONE	WET MAGNETIC PARTICLE EXAM	6-22-83	NONE	
NSP-PT-1, REV 2	NONE	LIQUID PENETRANT EXAM	6-22-83	NONE	
NSP-PT-2, REV 0	NONE	HIGH TEMPERATURE LIQUID PENETRANT EXAMINATION	6-22-83	NONE	
NSP-UT-1, REV 1	NONE	ULTRASONIC EXAMINATION OF PIPE WELDS	6-22-83	NONE	
NSP-UT-2, REV 1	NONE	AUTOMATIC DATA RECORDING	6-22-83	NONE	
NSP-UT-3, REV 1	1	ULTRASONIC EXAMINATION OF FERRITIC VESSELS			ALLOW EXAMINATION OF VESSELS WITH $\geq$ 1" WALL THICKNESS
NSP-UT-4, REV 1	NONE	ULTRASONIC EXAMINATION OF STUDS, BOLTS, & NUTS	6-22-83	NONE	
NSP-VT-1, REV 2	NONE	VISUAL EXAMINATION	6-22-83	NONE	
NSP-VT-2, REV 2	NONE	VISUAL EXAMINATION OF HANGER ASSEMBLIES	6-22-83	NONE	
NSP-VT-3, REV 1	NONE	VISUAL EXAMINATION OF PUMP AND VALVE INTERNAL PRESSURE BOUNDARY SURFACES	6-22-83	NONE	
ISI-428, REV 2	1	MULTIFREQUENCY EDDY CURRENT EXAMINATION OF RSG TUBING IN SERIES 51 STEAM GENERATORS	8-31-84		CHANGE EXAMINATION MIX (CHANNEL 3) FREQUENCY FROM 210 KHz to 225 KHz ±25 KHz

NORTHERN STATES POWER COMPANY
PRAIRIE ISLAND - UNIT II

APPENDIX E
TABLE III
PAGE 2 of 2

PROCEDURE LISTING

PROCEDURE NUMBER AND REVISION	FIELD CHANGE	PROCEDURE TITLE	PLANT APPROVAL DATE	FIELD CHANGE REMARKS	CHANGE DESCRIPTION
	2				ALLOWS LOWER GAIN SETTINGS TO BE USED ON SMALL RADIUS U-BENDS TO ELIMINATE SATURATION
ISI-425, REV 7	NONE	EDDY CURRENT EXAMINATION OF TUBING BY THE ABSOLUTE MULTICOIL (8x1) TECHNIQUE	8-31-84	NONE	
ISI-460, REV 7	NONE	TECHNICAL PROCEDURE FOR THE EVALUATION OF EDDY CURRENT DATA OF NUCLEAR GRADE STEAM GENERATOR TUBING	8-31-84	NONE	
ISI-463, REV 3	NONE	TECHNICAL PROCEDURE FOR THE EVALUATION OF EDDY CURRENT DATA GENERATED FROM THE MULTIELEMENT PROBE	8-31-84	NONE	
ISI-464	NONE	TECHNICAL PROCEDURE FOR THE EVALUATION OF EDDY CURRENT BOBBIN COIL FOR WEAR FRETTING AND AVB WEAR	8-31-84	NONE	
ISI-467	NONE	TECHNICAL PROCEDURE FOR THE EVALUATION OF EDDY CURRENT DATA OF NUCLEAR GRADE STEAM GENERATOR TUBING FOR INTERGRANULAR ATTACK	8-31-84	NONE	

MATERIAL OR EQUIPMENT	TYPE OR SERIAL NUMBER	CALIBRATION DATE OR BATCH NUMBER	REMARKS
ULTRASONIC:			
NORTEC 131D	S/N 409	CAL. 08/16/84	
NORTEC 131D	S/N 371	CAL. 08/17/84	
NORTEC 131D	S/N 167	CAL. 08/23/84	
RECORDERS:			
BRUSH 220	S/N 18687	CAL. 08/07/84	
BRUSH 220	S/N 18940	CAL. 06/22/84	
TEMP. GAUGES:			
PTC MODEL 310F	S/N 623	CAL. 05/11/84	
PTC MODEL 310F	S/N 627	CAL. 07/19/84	
PTC MODEL 310F	S/N 641	CAL. 07/19/84	
PTC MODEL 310F	S/N 649	CAL. 07/19/84	
PTC MODEL 310F	S/N 619	CAL. 05/11/84	
PTC MODEL 310F	S/N 630	CAL. 07/19/84	
MAGNETIC PARTICLE:			
MAGNUFLUX, Y-6	S/N LMT-002	CAL. 09/06/84	ON SITE QUALIFICATION
MAGNUFLUX, L-10	S/N GTL-004	CAL. 09/12/84	ON SITE QUALIFICATION
BLACK LITE METER	S/N 24779	CAL. 05/17/84	TYPE J221
ROMPAS BLOCKS:			
ROMPAS, S/S	S/N 046	CERT 10/28/83	EARLE M JORGENSEN CO
ROMPAS, C/S	S/N 012	CERT 09/08/77	ORLA'S MACHINE SHOP INC
	S/N 018	CERT 01/03/79	ORLA'S MACHINE SHOP INC
IIW BLOCKS:			
NONE			
MATERIALS:			
SPOT CHECK PENETRANT	PENETRANT	BATCH 83F038	TYPE: SKL-HF/S
	DEVELOPER	BATCH 83E020	TYPE: SKD-NF/ZP-9B
	CLEANER	BATCH 83F047	TYPE: SKC-NF/ZC-7B
ULTRASONIC COUPLANT	LMT-GEL	BATCH 1110812 BATCH 12484	

MATERIAL OR EQUIPMENT	TYPE OR SERIAL NUMBER	CALIBRATION DATE OR BATCH NUMBER	REMARKS
ULTRASONIC TRANSDUCERS:	S/N:	SIZE:	FREQUENCY:
AEROTECH	C18085	1/2" DIA	2.25 MHZ
AUTOMATION	23311	1/2" x 1"	2.25 MHZ
HARISONIC	V6271	3/4" DIA	2.25 MHZ
HARISONIC	T3156	1/2" DIA	2.25 MHZ
HARISONIC	LC1	1/2" x 1"	2.25 MHZ
HARISONIC	A52	1/2" X 1"	2.25 MHZ
HARISONIC	W8560	.375" x .375"	2.25 MHZ
HARISONIC	W8562	.375" x .375"	2.25 MHZ
HARISONIC	8041	1/2" x 1/2"	5.0 MHZ
HARISONIC	V12038	1/4" x 1/4"	2.25 MHZ
HARISONIC	V3380	1/4" x 1/4"	2.25 MHZ
HARISONIC	8403	1/4" x 1/4"	5.0 MHZ
HARISONIC	8404	1/4" x 1/4"	5.0 MHZ
HARISONIC	V12539	1/4" x 1/4"	5.0 MHZ
HARISONIC	R941	1/4" x 1/4"	5.0 MHZ
HARISONIC	P366	1/2" x 1/2"	5.0 MHZ
HARISONIC	R2147	1/2" x 1/2"	2.25 MHZ
B&W EDDY CURRENT EQUIPMENT:			
TM503 MAIN FRAMES	24105	08-03-84	
	24120	08-09-84	
	24121	07-20-84	
	24139	07-27-84	
	24187	08-14-84	
	24620	08-09-84	
MIZ-12 DISPLAY SCOPES	24080	07-23-84	
	24169	08-14-84	
	24185	07-24-84	
	24137	08-16-84	
	24156	07-23-84	
MIZ-12 DISPLAY MODULES	24138	07-23-84	
	24170	08-14-84	
	24186	07-24-84	
	24103	08-17-84	
	24130	07-23-84	
MIZ-12 FREQUENCY/ MIXER MODULES	24092	08-14-84	
	24093	08-03-84	
	24106	07-20-84	
	24107	08-13-84	

EQUIPMENT AND MATERIALS

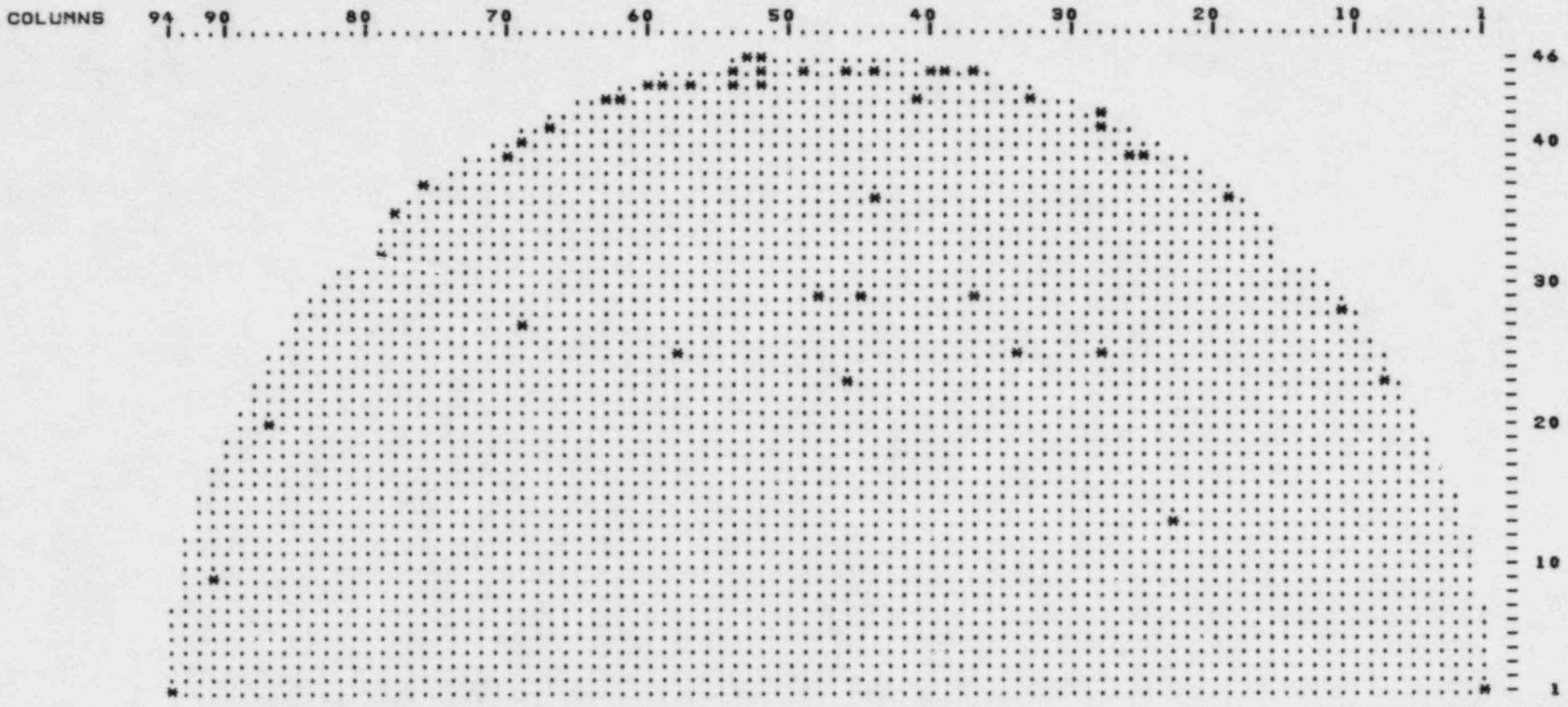
MATERIAL OR EQUIPMENT	TYPE OR SERIAL NUMBER	CALIBRATION DATE OR BATCH NUMBER	REMARKS
MIXERS (CONT'D)	24108	08-13-84	
	24112	08-14-84	
	24115	08-15-84	
	24116	08-03-84	
	24117	08-15-84	
	24118	08-13-84	
	24119	08-14-84	
	24142	08-14-84	
	24143	07-23-84	
	24150	07-23-84	
	24163	07-20-84	
	24164	08-15-84	
	24176	08-03-84	
	24189	08-14-84	
	24177	07-20-84	
	24095	08-13-84	
	24110	07-24-84	
	24111	08-14-84	
	24127	08-03-84	
	24128	08-03-84	
	24145	08-14-84	
	24154	07-24-84	
	24178	08-15-85	
	24192	08-15-84	
	24193	08-13-84	
HP3968AZ FM TAPE RECORDERS	24134	07-26-84	
	24135	08-10-84	
	24172	08-10-84	
	24148	08-08-84	
	24184	08-03-84	
GOULD BRUSH 260 STRIP CHART RECORDERS	04708	08-27-84	
	24146	07-05-84	
	24147	07-06-84	
CALIBRATION STANDARDS	AVB 49087	INCONEL 600	
	AVB 49098	INCONEL 600	
	ASME 49088	INCONEL 600	
	ASME 49098	INCONEL 600	
	8 x 1 49081	INCONEL 600	
CONAM EDDY CURRENT EQUIPMENT:			
HP3968AZ FM TAPE RECORDERS		CAL DUE	
	1940A01024	06-22-85	
	2105A01693	05-23-85	

APPENDIX F

STEAM GENERATOR NO. 21 AND NO. 22

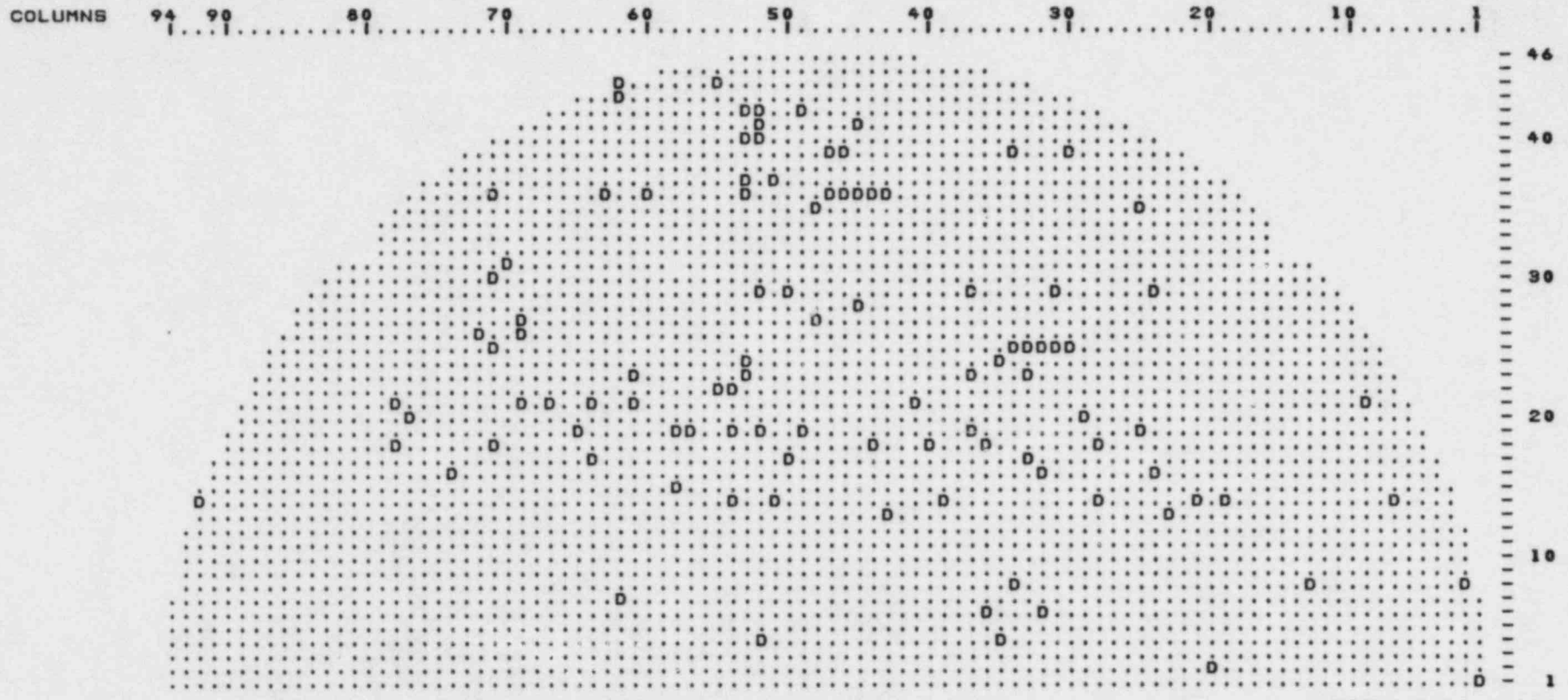
TUBE SHEET MAPS OF PLUGGED TUBES

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

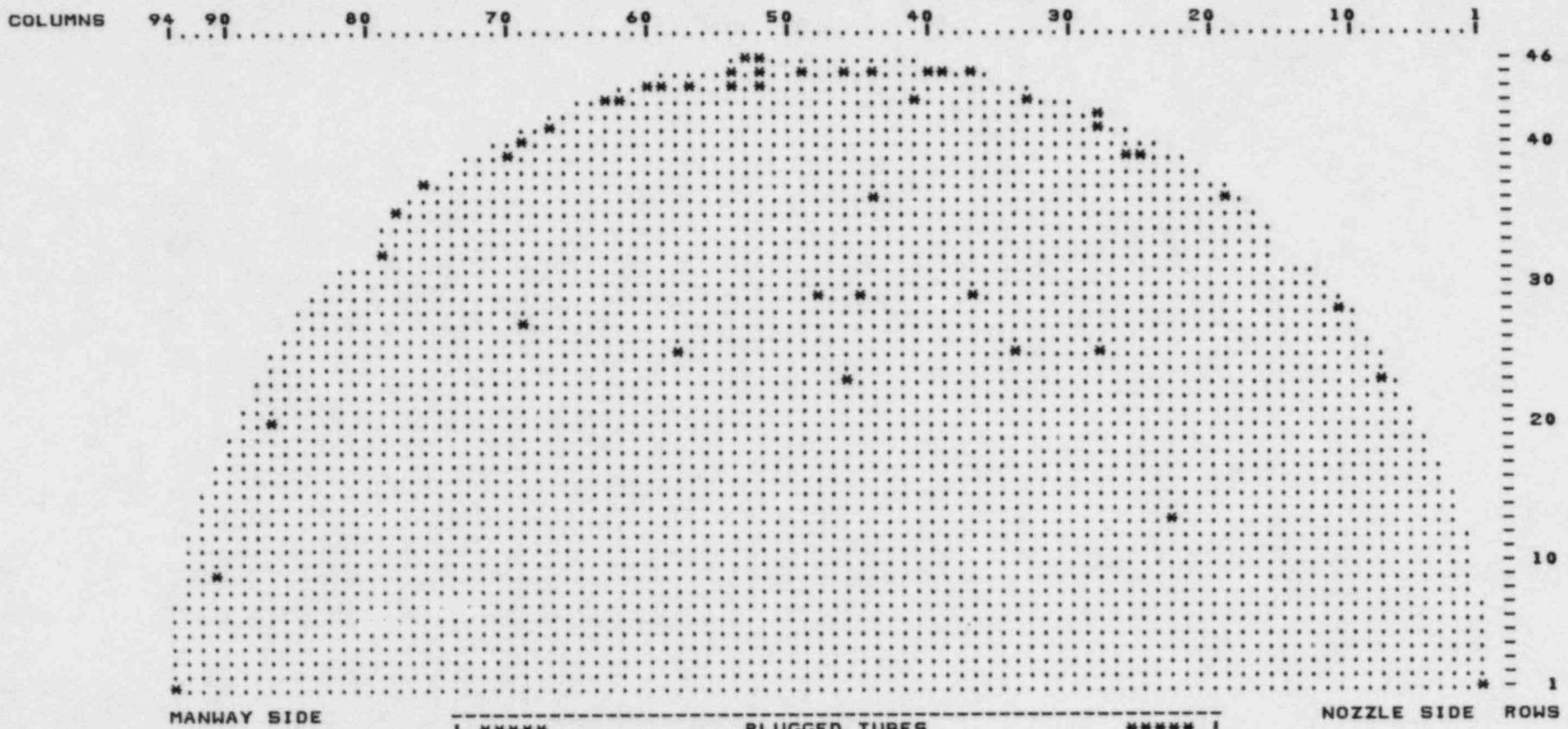


***** PLUGGED TUBES *****	
STEAM GENERATOR NO.	21
INLET OR OUTLET	INLET (HOT LEG)
INSPECTIONS MAPPED	00-0 THROUGH 99-9
REGION MAPPED	TUBE SHEET
TO	AROUND U-BEND

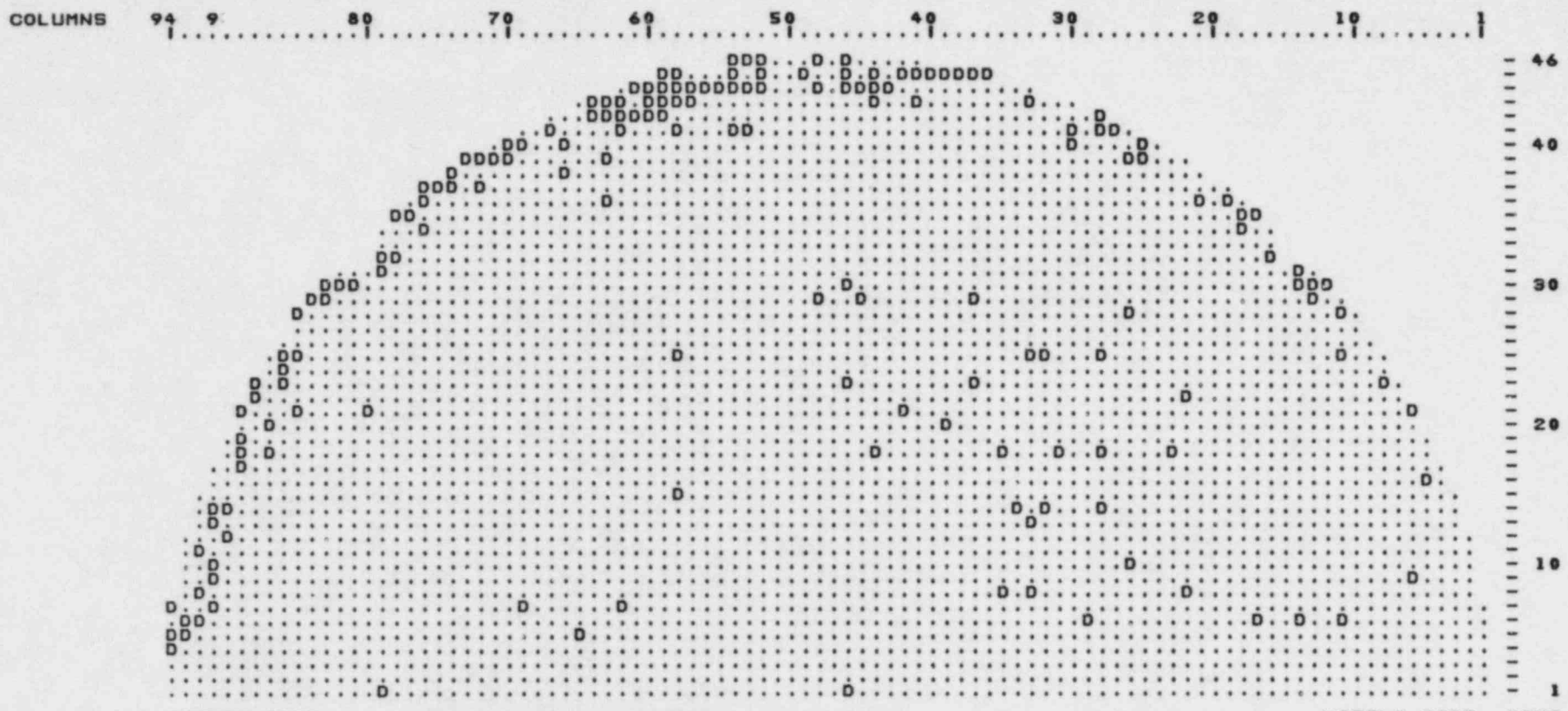
NORTHERN STATES POWER COMPANY
POWER PRODUCTION MATERIALS AND SPECIAL PROCESSES SECTION
PRAIRIE ISLAND NUCLEAR GENERATING PLANT STEAM GENERATOR TUBE MAP - WESTINGHOUSE SERIES 51



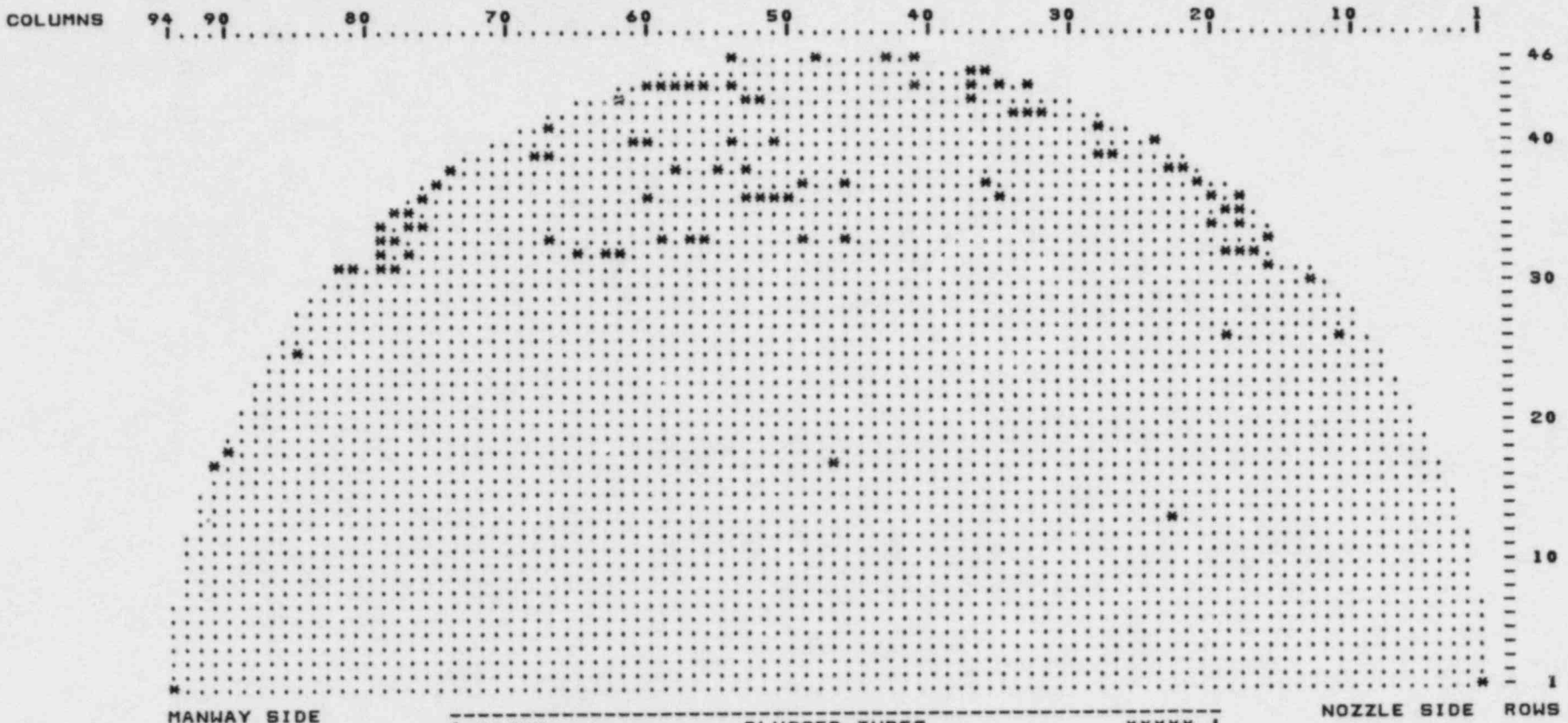
NORTHERN STATES POWER COMPANY
POWER PRODUCTION MATERIALS AND SPECIAL PROCESSES SECTION
PRAIRIE ISLAND NUCLEAR GENERATING PLANT STEAM GENERATOR TUBE MAP - WESTINGHOUSE SERIES 51



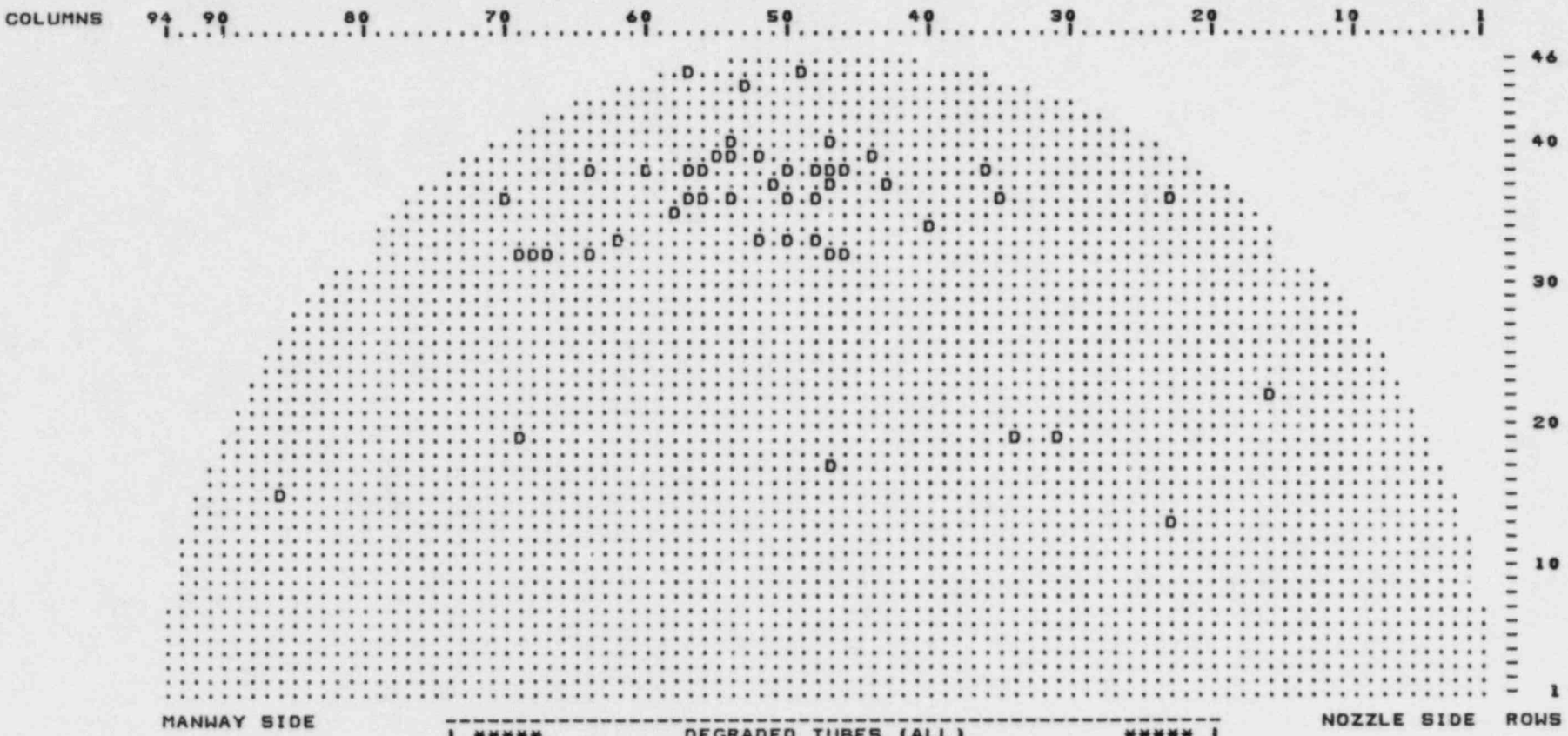
NORTHERN STATES POWER COMPANY
POWER PRODUCTION MATERIALS AND SPECIAL PROCESSES SECTION
PRAIRIE ISLAND NUCLEAR GENERATING PLANT STEAM GENERATOR TUBE MAP - WESTINGHOUSE SERIES 51



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

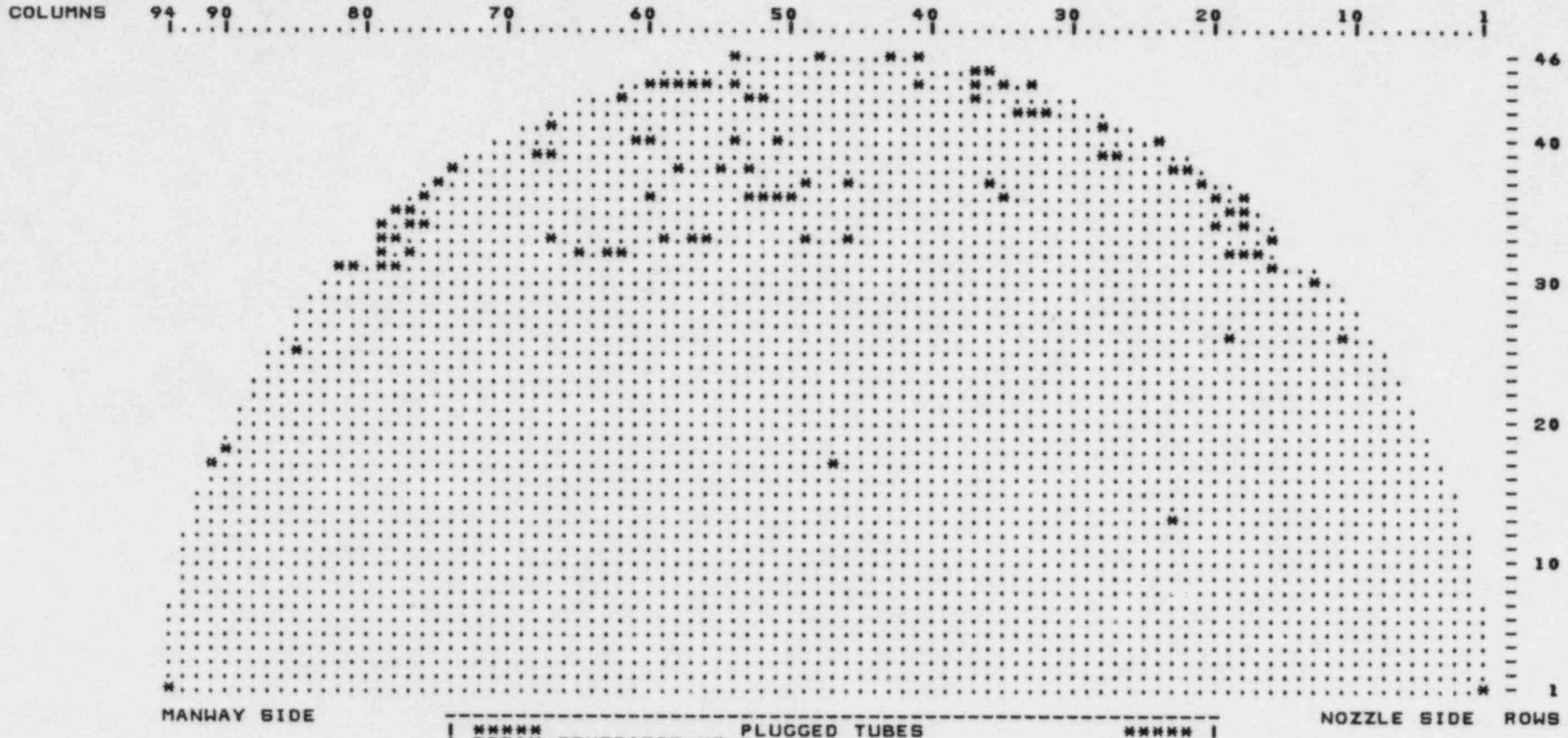


NORTHERN STATES POWER COMPANY
POWER PRODUCTION MATERIALS AND SPECIAL PROCESSES SECTION
PRAIRIE ISLAND NUCLEAR GENERATING PLANT STEAM GENERATOR TUBE MAP - WESTINGHOUSE SERIES 51

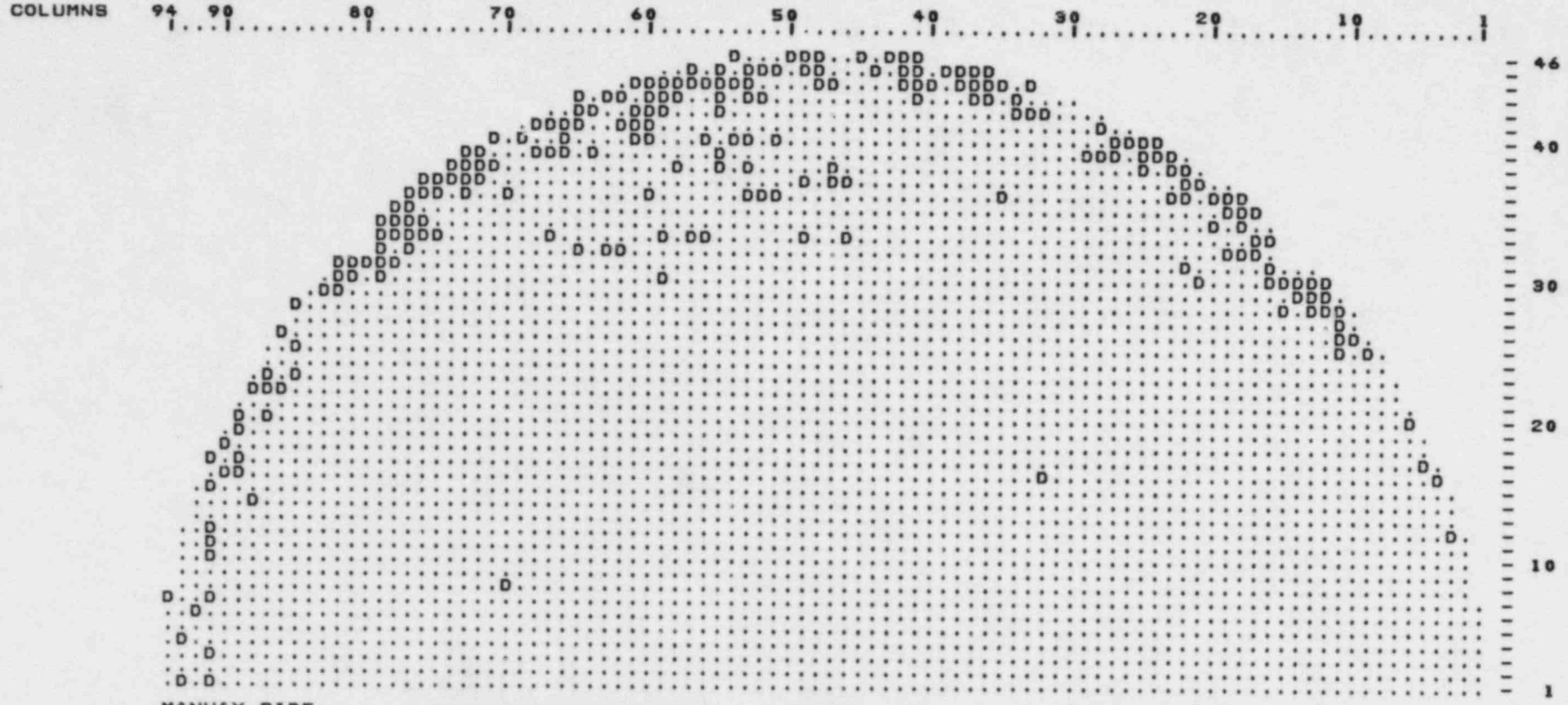


****** DEGRADED TUBES (ALL) ******	
STEAM GENERATOR NO.	22
INLET OR OUTLET	INLET (HOT LEG)
INSPECTIONS MAPPED	00-0 THROUGH 99-9
REGION MAPPED TO	TUBE SHEET AROUND U-BEND

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



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



****** DEGRADED TUBES (ALL) ******
STEAM GENERATOR NO. : 22
INLET OR OUTLET : OUTLET (COLD LEG)
INSPECTIONS MAPPED : 00-0 THROUGH 99-9
REGION MAPPED : TUBE SHEET
TO : AROUND U-BEND

APPENDIX G

STEAM GENERATOR NO. 21 AND NO. 22

LISTING OF EDDY CURRENT INDICATIONS & PLUGGED TUBES

DEC 18, 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
21	INLET	1	1	80-	17 " ABOVE	TUBE SH	THINNING	66	
		2	20	84		TUBE SH			
		4	38	84		1ST SUP	2ND SUP	THINNING	<20
			52	83		1ST SUP		THINNING	<20
				84	10 " ABOVE	1ST SUP		THINNING	<20
		6	32	84		6TH SUP	7TH SUP	THINNING	<20
			36	84		5TH SUP	6TH SUP	THINNING	<20
		7	6	84		TUBE SH		THINNING	<20
		8		74	14 " ABOVE	3RD SUP		THINNING	<20
			13	84		TUBE SH	1ST SUP	THINNING	<20
			34	84		6TH SUP	7TH SUP	THINNING	<20
		13	23	82	11" BELOW	TUBE SH		THINNING	33
			43	84	39 " ABOVE	TUBE SH		THINNING	30
		14	7	83		1ST AVB		THINNING	<20
				84		1ST AVB		THINNING	<20
			19	84		3RD SUP	4TH SUP	THINNING	<20
			18	84		TUBE SH	1ST SUP	THINNING	<20
			22	83	23 " ABOVE	1ST SUP		THINNING	41
				84	25 " ABOVE	1ST SUP		THINNING	28
			9	84	39 " ABOVE	1ST SUP		THINNING	<20
			14	84	7 " ABOVE	4TH SUP		THINNING	<20
			22	84	15 " ABOVE	4TH SUP		THINNING	<20
				84		2ND AVB		THINNING	31
		15	28	84		5TH SUP	6TH SUP	THINNING	<20
		16	42	84		3RD SUP	4TH SUP	THINNING	<20
			42	84		4TH AVB		THINNING	<20
			43	84		2ND AVB		THINNING	<20
		17	33	84		3RD AVB		THINNING	<20
			50	84		2ND AVB		THINNING	<20
				84		3RD AVB		THINNING	<20
			64	84		3RD AVB		THINNING	<20
				83		4TH AVB		THINNING	30
		18	28	84		1ST AVB		THINNING	<20
				83		2ND AVB		THINNING	<20
				84		2ND AVB		THINNING	10
				83		3RD AVB		THINNING	<20
				84		3RD AVB		THINNING	10
			36	84		2ND AVB		THINNING	<20
				84		4TH AVB		THINNING	30
			40	83		4TH AVB		THINNING	34
				84		4TH AVB		THINNING	
			44	83		3RD AVB		THINNING	47
				84		3RD AVB		THINNING	
	•		71	83		1ST AVB		THINNING	30
				84		1ST AVB		THINNING	
				84		2ND AVB		THINNING	20
				83		3RD AVB		THINNING	<20
				84		3RD AVB		THINNING	60
				84		3RD AVB		THINNING	<20
		19	78	84		4TH SUP	5TH SUP	THINNING	<20
			87	83		2ND AVB		THINNING	<20
				84		3RD AVB		THINNING	<20
				83		3RD AVB		THINNING	<20
				84		4TH AVB		THINNING	<20
			49	84		3RD SUP	4TH SUP	THINNING	<20
			54	84		3RD SUP	4TH SUP	THINNING	<20
			55	84		3RD AVB		THINNING	<20
				84		4TH AVB		THINNING	<20
			57	84		1ST AVB		THINNING	<20
			56	84		3RD AVB		THINNING	<20
			65	83		1ST AVB		THINNING	50
				84		1ST AVB		THINNING	<20
				83		2ND AVB		THINNING	<20
				84		2ND AVB		THINNING	<20
				83		3RD AVB		THINNING	<20
				84		3RD AVB		THINNING	<20
		20	29	84		2ND AVB		THINNING	<20
			77	84	5" " ABOVE	TUBE SH		THINNING	<20
				83	57 " ABOVE	TUBE SH		THINNING	88
		21	9	84		1ST AVB		THINNING	
				84		2ND AVB		THINNING	80
			41	84	18 " ABOVE	TUBE SH		THINNING	<20
			61	83				THINNING	<20
				84		2ND AVB		THINNING	30
				84		3RD AVB		THINNING	70
			64	83		2ND AVB		THINNING	<20
				84		2ND AVB		THINNING	<20

DEC 18, 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
21	INLET	21	64	83		3RD AVB	THINNING	20	
				84		3RD AVB	THINNING	27	
			67	83		1ST AVB	THINNING	<20	
				84		1ST AVB	THINNING	<20	
				83		2ND AVB	THINNING	<20	
			69	83		1ST AVB	THINNING	<20	
				84		1ST AVB	THINNING	<20	
				83		2ND AVB	THINNING	<20	
				84		2ND AVB	THINNING	<20	
				83		3RD AVB	THINNING	<20	
				84		3RD AVB	THINNING	<20	
				83		4TH AVB	THINNING	<20	
				84		4TH AVB	THINNING	<20	
			78	84		3RD AVB	THINNING	<20	
		22	54	84		3RD AVB	THINNING	<20	
				84		4TH AVB	THINNING	<20	
			55	84		3RD AVB	THINNING	28	
		23	39	84		3RD AVB	THINNING	26	
			37	83		3RD AVB	THINNING	27	
				84		3RD AVB	THINNING	25	
			53	84		4TH AVB	THINNING	20	
			61	83			THINNING	<20	
				84		1ST AVB	THINNING	23	
				84		2ND AVB	THINNING	39	
				84		3RD AVB	THINNING	27	
				84		4TH AVB	THINNING	20	
		24	35	74	42 " ABOVE	1ST SUP	THINNING	<20	
			53	84		1ST AVB	THINNING	20	
		25	30	83		1ST AVB	THINNING	<20	
				84		1ST AVB	THINNING	20	
				83		2ND AVB	THINNING	<20	
				84		2ND AVB	THINNING	27	
				83		3RD AVB	THINNING	22	
				84		3RD AVB	THINNING	25	
				83		4TH AVB	THINNING	20	
				84		4TH AVB	THINNING	<20	
			31	83		1ST AVB	THINNING	<20	
				84		1ST AVB	THINNING	<20	
				83		2ND AVB	THINNING	20	
				84		2ND AVB	THINNING	23	
				83		3RD AVB	THINNING	21	
				84		3RD AVB	THINNING	20	
			32	84		2ND AVB	THINNING	25	
				84		3RD AVB	THINNING	20	
			33	83		1ST AVB	THINNING	23	
				84		1ST AVB	THINNING	28	
				83		2ND AVB	THINNING	25	
				84		2ND AVB	THINNING	21	
				83		3RD AVB	THINNING	27	
				84		3RD AVB	THINNING	21	
				83		4TH AVB	THINNING	27	
			34	83		1ST AVB	THINNING	21	
				84		1ST AVB	THINNING	20	
				83		2ND AVB	THINNING	26	
				84		2ND AVB	THINNING	28	
				83		3RD AVB	THINNING	25	
				84		3RD AVB	THINNING	<20	
				83		4TH AVB	THINNING	<20	
			71	84	5 " ABOVE	TUBE SH	THINNING	25	
		26	69	83		1ST AVB	THINNING	27	
				84		1ST AVB	THINNING	21	
				83		2ND AVB	THINNING	29	
				84		2ND AVB	THINNING	26	
				83		3RD AVB	THINNING	<20	
			72	83		1ST AVB	THINNING	<20	
				84		1ST AVB	THINNING	27	
				83		2ND AVB	THINNING	23	
				84		2ND AVB	THINNING	24	
				83		3RD AVB	THINNING	20	
				84		3RD AVB	THINNING	<20	
		27	48	84		4TH AVB	THINNING	23	
			69	83		3RD AVB	THINNING	43	
				84		3RD AVB	THINNING	<20	
				83		4TH AVB			

DEC 18, 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
21	INLET	27	69	84-		4TH AVB	THINNING	<20	
		28	45	83-		1ST AVB	THINNING	28	
				84-		1ST AVB	THINNING	33	
				83-		2ND AVB	THINNING	35	
				84-		2ND AVB	THINNING	31	
				83-		3RD AVB	THINNING	<20	
				84-		3RD AVB	THINNING	22	
				83-		4TH AVB	THINNING	<20	
				84-		4TH AVB	THINNING	21	
		29	24	84-	17 " ABOVE	TUBE SH	THINNING	<10	
			31	84-		3RD AVB	THINNING	00	
			37	83-		1ST AVB	THINNING	04	
				84-		1ST AVB	THINNING	07	
				83-		2ND AVB	THINNING	37	
				84-		2ND AVB	THINNING	41	
				83-		3RD AVB	THINNING	35	
				84-		3RD AVB	THINNING	42	
				83-		4TH AVB	THINNING	<20	
				84-		4TH AVB	THINNING	03	
			50	83-		1ST AVB	THINNING	<20	
				83-		2ND AVB	THINNING	02	
				84-		2ND AVB	THINNING	27	
				83-		3RD AVB	THINNING	28	
				84-		3RD AVB	THINNING	34	
			52	84-		4TH AVB	THINNING	02	
		30	71	84-		2ND AVB	THINNING	<20	
				84-		3RD AVB	THINNING	<20	
		31	70	84-		2ND AVB	THINNING	<20	
		35	25	83-		TUBE SH	THINNING	<20	
				82-	30 " ABOVE	TUBE SH	THINNING	<20	
				84-	43 " ABOVE	TUBE SH	THINNING	<20	
			48	83-		1ST AVB	THINNING	04	
				84-		1ST AVB	THINNING	31	
				83-		2ND AVB	THINNING	<20	
				84-		2ND AVB	THINNING	02	
				84-		3RD AVB	THINNING	01	
		36	43	83-		1ST AVB	THINNING	<20	
				84-		1ST AVB	THINNING	01	
				83-		2ND AVB	THINNING	<20	
				84-		2ND AVB	THINNING	02	
				83-		3RD AVB	THINNING	<20	
				84-		3RD AVB	THINNING	<20	
				83-		4TH AVB	THINNING	<20	
				84-		4TH AVB	THINNING	<20	
			44	83-		1ST AVB	THINNING	<20	
				84-		1ST AVB	THINNING	<20	
				83-		2ND AVB	THINNING	01	
				84-		2ND AVB	THINNING	07	
				83-		3RD AVB	THINNING	<20	
				84-		3RD AVB	THINNING	06	
				83-		4TH AVB	THINNING	07	
				84-		4TH AVB	THINNING	05	
			45	84-		2ND AVB	THINNING	00	
			46	84-		1ST AVB	THINNING	<20	
			47	83-		1ST AVB	THINNING	08	
				84-		1ST AVB	THINNING	02	
				83-		2ND AVB	THINNING	11	
				84-		2ND AVB	THINNING	11	
				83-		3RD AVB	THINNING	<20	
				84-		3RD AVB	THINNING	07	
			53	84-		3RD AVB	THINNING	03	
			60	84-		2ND AVB	THINNING	04	
			63	83-		2ND AVB	THINNING	09	
				84-		2ND AVB	THINNING	07	
			71	84-		3RD AVB	THINNING	02	
-		37	51	84-		4TH AVB	THINNING	00	
		39	53	84-		4TH AVB	THINNING	<20	
			30	84-		4TH AVB	THINNING	03	
			34	84-		3RD AVB	THINNING	01	
				84-		4TH AVB	THINNING	07	
			46	84-	12 " ABOVE	3RD SUP	THINNING	<20	
			47	83-		3RD AVB	THINNING	16	
				84-		3RD AVB	THINNING	16	
				83-		4TH AVB	THINNING	01	
				84-		4TH AVB	THINNING	16	
		40	52	84-		1ST AVB	THINNING	32	
			53	84-		1ST AVB	THINNING	32	
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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
21	INLET	41	45	84	2ND AVB		THINNING	20	
			52	84	1ST AVB		THINNING	20	
				84	2ND AVB		THINNING	21	
		42	49	84	1ST AVB		THINNING	23	
			52	84	4TH AVB		THINNING	25	
			53	84	1ST AVB		THINNING	40	
		43	62	83	1ST SUP		THINNING	20	
		44	55	84	5 " ABOVE TUBE SH		THINNING	20	
			62	84	2ND AVB		THINNING	20	
				84	3RD AVB		THINNING	20	
	OUTLET	1	46	81	40 " ABOVE 6TH SUP		THINNING	20	
				82	40 " ABOVE 6TH SUP		THINNING	23	
			79	80	11 " ABOVE TUBE SH		THINNING	35	
				82	11 " ABOVE TUBE SH		THINNING	38	
				82	16 " ABOVE TUBE SH		THINNING	50	
				80	8 " ABOVE TUBE SH		THINNING	42	
				81	8 " ABOVE TUBE SH		THINNING	28	
		4	94	83	1ST SUP		THINNING	23	
				84	1ST SUP		THINNING	28	
				80	1ST SUP		THINNING	28	
				81	1ST SUP		THINNING	28	
				82	1ST SUP		THINNING	23	
		5	65	84	7TH SUP	7TH SUP	THINNING	20	
			93	83	1ST SUP		THINNING	20	
				84	1ST SUP		THINNING	26	
			94	83	1ST SUP		THINNING	31	
				84	1ST SUP		THINNING	31	
				81	1ST SUP		THINNING	31	
				82	1ST SUP		THINNING	20	
		6	11	84	2ND SUP	3RD SUP	THINNING	20	
			14	84	4TH SUP	5TH SUP	THINNING	20	
			17	84	6TH SUP	7TH SUP	THINNING	20	
			29	84	3RD SUP	4TH SUP	THINNING	20	
			92	83	1ST SUP		THINNING	20	
				84	1ST SUP		THINNING	20	
			93	83	2ND SUP		THINNING	20	
		7	62	83	TUBE SH		THINNING	20	
			69	84	21 " ABOVE 1ST SUP		THINNING	20	
			91	83	1ST SUP		THINNING	36	
				84	1ST SUP		THINNING	34	
				80	1ST SUP		THINNING	20	
				81	1ST SUP		THINNING	31	
				82	1ST SUP		THINNING	20	
			94	83	1ST SUP		THINNING	20	
				84	1ST SUP		THINNING	20	
		8	22	84	6TH SUP	7TH SUP	THINNING	20	
			23	84	1ST SUP	2ND SUP	THINNING	20	
			35	84	4TH SUP	5TH SUP	THINNING	20	
			92	83	1ST SUP		THINNING	20	
				82	1ST SUP		THINNING	20	
		9	6	84	5TH SUP	6TH SUP	THINNING	20	
			91	80	1ST SUP		THINNING	20	
				81	1ST SUP		THINNING	20	
				82	1ST SUP		THINNING	40	
		10	26	84	1ST SUP	2ND SUP	THINNING	20	
			91	83	1ST SUP		THINNING	29	
				84	1ST SUP		THINNING	25	
				80	1ST SUP		THINNING	20	
				81	1ST SUP		THINNING	31	
				82	1ST SUP		THINNING	20	
		11	92	83	1ST SUP		THINNING	20	
				82	1ST SUP		THINNING	20	
		12	90	83	1ST SUP		THINNING	33	
				84	1ST SUP		THINNING	20	
				81	1ST SUP		THINNING	20	
				82	1ST SUP		THINNING	20	
		13	33	83	2ND SUP		THINNING	20	
				84	18 " ABOVE 2ND SUP		THINNING	20	
			91	83	1ST SUP		THINNING	20	
				84	1ST SUP		THINNING	20	
		14	28	82	23 " ABOVE 1ST SUP	12 " ABOVE 3RD SUP	THINNING	20	
			32	84	12 " ABOVE 4TH SUP		THINNING	20	
				84	28 " ABOVE 5TH SUP		THINNING	20	
				84	31 " ABOVE 5TH SUP		THINNING	20	
			34	84	3RD SUP	4TH SUP	THINNING	20	
			90	83	1ST SUP		THINNING	39	
				84	1ST SUP		THINNING	31	

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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
21	OUTLET	14	90	81		1ST SUP	THINNING	24	
				82		1ST SUP	THINNING	36	
			91	84		1ST SUP	THINNING	<20	
				81		1ST SUP	THINNING	<20	
				82		1ST SUP	THINNING	<20	
		15	58	84		6TH SUP 7TH SUP	THINNING	<20	
		16	5	83		2ND SUP	THINNING	21	
				84		2ND SUP	THINNING	21	
		17	89	83		2ND SUP	THINNING	<20	
				84		2ND SUP	THINNING	<20	
				81		2ND SUP	THINNING	<20	
				82		2ND SUP	THINNING	<20	
		18	23	84	48 " ABOVE	3RD SUP	THINNING	<20	
				83		4TH SUP	THINNING	<20	
				82		4TH SUP	THINNING	20	
			28	82		3RD AVB	THINNING	24	
			31	84	11 " ABOVE	TUBE SH	THINNING	<20	
				84	13 " ABOVE	2ND SUP	THINNING	<20	
			35	84		TUBE SH 1ST SUP	THINNING	23	
			44	82		3RD AVB	THINNING	31	
			87	83		1ST SUP	THINNING	21	
				84		1ST SUP	THINNING	<20	
				81		1ST SUP	THINNING	24	
				82		1ST SUP	THINNING	<20	
			89	83		1ST SUP	THINNING	21	
				84		1ST SUP	THINNING	26	
				80		1ST SUP	THINNING	<20	
				82		1ST SUP	THINNING	25	
				83		2ND SUP	THINNING	<20	
				84		2ND SUP	THINNING	29	
				82		2ND SUP	THINNING	27	
		19	89	83		1ST SUP	THINNING	<20	
				84		1ST SUP	THINNING	20	
				82		1ST SUP	THINNING	<20	
		20	39	84		TUBE SH 1ST SUP	THINNING	<20	
			87	83		1ST SUP	THINNING	27	
				84		1ST SUP	THINNING	25	
				80		1ST SUP	THINNING	<20	
				81		1ST SUP	THINNING	29	
				82		1ST SUP	THINNING	25	
		21	6	83		2ND SUP	THINNING	<20	
				81		2ND SUP	THINNING	<20	
				82	1 " ABOVE	2ND SUP	THINNING	<20	
				84	15 " ABOVE	2ND SUP	THINNING	<20	
			42	84	14 " ABOVE	2ND SUP	THINNING	<20	
			80	84	12 " ABOVE	5TH SUP	THINNING	23	
			85	81		1ST SUP	THINNING	24	
				82		1ST SUP	THINNING	23	
			89	83	24 " ABOVE	6TH SUP	THINNING	<20	
				84	24 " ABOVE	6TH SUP	THINNING	<20	
				81	24 " ABOVE	6TH SUP	THINNING	<20	
				82	24 " ABOVE	6TH SUP	THINNING	<20	
		22	22	84	23 " ABOVE	3RD SUP	THINNING	<20	
			88	83		1ST SUP	THINNING	<20	
				84		1ST SUP	THINNING	<20	
				81		1ST SUP	THINNING	<20	
				82		1ST SUP	THINNING	28	
		23	8	82		2ND SUP	THINNING	48	
			37	82		3RD AVB	THINNING	30	
			46	82		1ST AVB	THINNING	<20	
				82		2ND AVB	THINNING	42	
				82		3RD AVB	THINNING	<20	
			86	83		1ST SUP	THINNING	<20	
				84		1ST SUP	THINNING	<20	
				80		1ST SUP	THINNING	<20	
				81		1ST SUP	THINNING	<20	
				82		1ST SUP	THINNING	<20	
			88	83		1ST SUP	THINNING	<20	
				84		1ST SUP	THINNING	<20	
				82		1ST SUP	THINNING	<20	
		24	86	83		2ND SUP	THINNING	34	
				84		2ND SUP	THINNING	41	
				81		2ND SUP	THINNING	22	
				82		2ND SUP	THINNING	40	
		25	11	84		2ND SUP	THINNING	<20	
			28	82		3RD AVB	THINNING	42	
			32	82		2ND AVB	THINNING	<20	

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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
21	OUTLET	25	32	82		3RD AVB	THINNING	<20	
			33	82		1ST AVB	THINNING	<20	
				82		2ND AVB	THINNING	<20	
				82		3RD AVB	THINNING	<20	
			58	82		2ND AVB	THINNING	43	
			85	83		1ST SUP	THINNING	38	
				84		1ST SUP	THINNING	39	
				81		1ST SUP	THINNING	37	
				82		1ST SUP	THINNING	37	
			86	83		1ST SUP	THINNING	<20	
				84		1ST SUP	THINNING	<20	
		28	11	81		1ST SUP	THINNING	47	
			26	84	36 " ABOVE	4TH SUP	THINNING	<20	
			85	83		2ND SUP	THINNING	37	
				84		2ND SUP	THINNING	<20	
				81		2ND SUP	THINNING	<20	
				82		2ND SUP	THINNING	<20	
		29	13	83		1ST SUP	THINNING	<20	
				84		1ST SUP	THINNING	28	
				82		1ST SUP	THINNING	<20	
			37	82		2ND AVB	THINNING	30	
			45	82		1ST AVB	THINNING	43	
				82		2ND AVB	THINNING	45	
			48	82		1ST AVB	THINNING	49	
				82		2ND AVB	THINNING	33	
				82		3RD AVB	THINNING	33	
			83	84		1ST SUP	THINNING	<20	
			84	83		1ST SUP	THINNING	33	
				84		1ST SUP	THINNING	35	
				81		1ST SUP	THINNING	<20	
				82		1ST SUP	THINNING	<20	
		30	12	83		1ST SUP	THINNING	34	
				84		1ST SUP	THINNING	40	
				81		1ST SUP	THINNING	<20	
				82		1ST SUP	THINNING	34	
			13	83		1ST SUP	THINNING	45	
				84		1ST SUP	THINNING	<20	
				80		1ST SUP	THINNING	<20	
				81		1ST SUP	THINNING	55	
				82		1ST SUP	THINNING	<20	
			14	80		1ST SUP	THINNING	<20	
			46	84	12 " ABOVE	3RD SUP	THINNING	<20	
			81	83		1ST SUP	THINNING	<20	
				84		1ST SUP	THINNING	<20	
				81		1ST SUP	THINNING	<20	
				82		1ST SUP	THINNING	<20	
			82	84		1ST SUP	THINNING	29	
			83	83		1ST SUP	THINNING	29	
				84		1ST SUP	THINNING	26	
				80		1ST SUP	THINNING	<20	
				81		1ST SUP	THINNING	33	
				82		1ST SUP	THINNING	33	
		31	14	83		1ST SUP	THINNING	33	
				84		1ST SUP	THINNING	33	
				81		1ST SUP	THINNING	<20	
				82		1ST SUP	THINNING	26	
			79	83		1ST SUP	THINNING	26	
				84		1ST SUP	THINNING	<20	
				80		1ST SUP	THINNING	26	
				81		1ST SUP	THINNING	27	
				82		1ST SUP	THINNING	<20	
				84		2ND SUP	THINNING	<20	
				81		2ND SUP	THINNING	<20	
				82		2ND SUP	THINNING	43	
		32	16	83		1ST SUP	THINNING	43	
				84		1ST SUP	THINNING	43	
				81		1ST SUP	THINNING	43	
				82		1ST SUP	THINNING	43	
			78	83		2ND SUP	THINNING	<20	
				84		2ND SUP	THINNING	<20	
				81		2ND SUP	THINNING	40	
				82		2ND SUP	THINNING	30	
			79	80		1ST SUP	THINNING	35	
				81		1ST SUP	THINNING	43	
				82		1ST SUP	THINNING	45	
		34	18	84		1ST SUP	THINNING	<20	
			76	83		2ND SUP	THINNING	<20	

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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
21	OUTLET	34	76	84	2ND SUP		THINNING	<20	
				80	2ND SUP		THINNING	<20	
				81	2ND SUP		THINNING	24	
				82	2ND SUP		THINNING	22	
		35	17	83	1ST SUP		THINNING	28	
				84	1ST SUP		THINNING	21	
				80	1ST SUP		THINNING	<20	
				81	1ST SUP		THINNING	<20	
				82	1ST SUP		THINNING	30	
			18	83	1ST SUP		THINNING	<20	
				84	1ST SUP		THINNING	31	
				81	1ST SUP		THINNING	<20	
				82	1ST SUP		THINNING	<20	
			77	83	2ND SUP		THINNING	<20	
				84	2ND SUP		THINNING	<20	
				81	2ND SUP		THINNING	<20	
				82	2ND SUP		THINNING	<20	
			78	80	1ST SUP		THINNING	72	
		36	19	83	1ST SUP		THINNING	48	
				80	1ST SUP		THINNING	<20	
				81	1ST SUP		THINNING	22	
				82	1ST SUP		THINNING	<40	
			21	84	1ST SUP		THINNING	<20	
				83	2ND SUP		THINNING	27	
				81	2ND SUP		THINNING	<20	
				82	2ND SUP		THINNING	33	
			63	80	2ND AVB		THINNING	39	
			76	83	1ST SUP		THINNING	<20	
				84	1ST SUP		THINNING	<20	
				81	1ST SUP		THINNING	<20	
				82	1ST SUP		THINNING	<20	
				83	2ND SUP		THINNING	<20	
				84	2ND SUP		THINNING	31	
				81	2ND SUP		THINNING	<20	
				82	2ND SUP		THINNING	<20	
		37	72	83	1ST SUP		THINNING	23	
				84	1ST SUP		THINNING	24	
				81	1ST SUP		THINNING	28	
				82	1ST SUP		THINNING	26	
			74	80	1ST SUP		THINNING	<20	
			75	83	1ST SUP		THINNING	<20	
				84	1ST SUP		THINNING	<20	
				81	1ST SUP		THINNING	<20	
				82	1ST SUP		THINNING	<20	
			76	83	1ST SUP		THINNING	44	multiple indic.
				84	1ST SUP		THINNING	52	
				80	1ST SUP		THINNING	<20	
				81	1ST SUP		THINNING	36	
				82	1ST SUP		THINNING	35	
		38	66	83	1ST SUP		THINNING	<20	
			74	83	1ST SUP		THINNING	29	
				84	1ST SUP		THINNING	24	
				81	1ST SUP		THINNING	24	
				82	1ST SUP		THINNING	24	
		39	25	83	1ST SUP		THINNING	38	
				84	1ST SUP		THINNING	48	
				80	1ST SUP		THINNING	31	
				81	1ST SUP		THINNING	33	
				82	1ST SUP		THINNING	33	
			26	82	1ST SUP		THINNING	47	
			63	83	1ST SUP		THINNING	<20	
				84	1ST SUP		THINNING	26	
			70	81	1ST SUP		THINNING	38	
				82	1ST SUP		THINNING	46	
			71	83	1ST SUP		THINNING	25	
				84	1ST SUP		THINNING	22	
				81	1ST SUP		THINNING	22	
				82	1ST SUP		THINNING	30	
			72	83	1ST SUP		THINNING	<20	
				84	1ST SUP		THINNING	<20	
				80	1ST SUP		THINNING	<20	
				81	1ST SUP		THINNING	<20	
				82	1ST SUP		THINNING	<20	
			73	83	1ST SUP		THINNING	<20	
				84	1ST SUP		THINNING	<20	
				82	1ST SUP		THINNING	<20	
		40	25	84	1ST SUP		THINNI	<20	

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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
21	OUTLET	40	30	83	1ST SUP		THINNING	37	
			66	83	2ND SUP		THINNING	21	
				84	2ND SUP		THINNING	18	
				80	2ND SUP		THINNING	<20	
				81	2ND SUP		THINNING	20	
				82	2ND SUP		THINNING	20	
			69	83	1ST SUP		THINNING	25	
				84	1ST SUP		THINNING	46	
				80	1ST SUP		THINNING	<20	
				81	1ST SUP		THINNING	20	
				82	1ST SUP		THINNING	21	
			70	83	2ND SUP		THINNING	<20	
				84	2ND SUP		THINNING	<20	
		41	27	84	1ST SUP		THINNING	20	
			28	83	1ST SUP		THINNING	44	
				84	1ST SUP		THINNING	49	
				81	1ST SUP		THINNING	<20	
				82	1ST SUP		THINNING	20	
			30	84	1ST SUP		THINNING	29	
				81	1ST SUP		THINNING	<20	
				82	1ST SUP		THINNING	<20	
			53	84	1ST SUP		THINNING	20	
			54	83	1ST SUP		THINNING	28	
			58	84	1ST SUP		THINNING	<20	
			67	83	1ST SUP		THINNING	26	
				84	1ST SUP		THINNING	29	
				80	1ST SUP		THINNING	29	
				81	1ST SUP		THINNING	29	
				82	1ST SUP		THINNING	29	
		42	28	83	2ND SUP		THINNING	36	
				84	2ND SUP		THINNING	<20	
				80	2ND SUP		THINNING	20	
				81	2ND SUP		THINNING	20	
				82	2ND SUP		THINNING	20	
			59	83	1ST SUP		THINNING	<20	
				81	1ST SUP		THINNING	<20	
				82	1ST SUP		THINNING	<20	
			60	84	1ST SUP		THINNING	20	
			61	84	1ST SUP		THINNING	<20	
			62	84	1ST SUP		THINNING	<20	
			63	83	1ST SUP		THINNING	<20	
				84	1ST SUP		THINNING	<20	
			64	83	2ND SUP		THINNING	<20	
				84	2ND SUP		THINNING	<20	
				81	2ND SUP		THINNING	<20	
		43	33	80	2ND SUP		THINNING	20	
				81	2ND SUP		THINNING	20	
			41	84	1ST SUP		THINNING	25	
			44	84	1ST SUP		THINNING	<20	
			57	84	1ST SUP		THINNING	<20	
			58	82	1ST SUP		THINNING	20	
			59	84	1ST SUP		THINNING	20	
				80	1ST SUP		THINNING	20	
				81	1ST SUP		THINNING	20	
			60	83	1ST SUP		THINNING	<20	
				84	1ST SUP		THINNING	<20	
				81	1ST SUP		THINNING	<20	
				82	1ST SUP		THINNING	20	
			62	84	1ST SUP		THINNING	<20	
				80	1ST SUP		THINNING	20	
				81	1ST SUP		THINNING	20	
				82	1ST SUP		THINNING	20	
			63	83	1ST SUP		THINNING	20	
				81	1ST SUP		THINNING	20	
				82	1ST SUP		THINNING	20	
			64	83	1ST SUP		THINNING	<20	
				84	1ST SUP		THINNING	<20	
				81	1ST SUP		THINNING	<20	
				82	1ST SUP		THINNING	<20	
		44	43	83	1ST SUP		THINNING	20	
				84	1ST SUP		THINNING	38	
			44	83	1ST SUP		THINNING	38	
				84	1ST SUP		THINNING	38	
				82	1ST SUP		THINNING	<20	

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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
21	OUTLET	44	45	83		1ST SUP	THINNING	<20	
				84		1ST SUP	THINNING	24	
			46	83		1ST SUP	THINNING	33	
				84		1ST SUP	THINNING	28	
				80		1ST SUP	THINNING	<20	
				81		1ST SUP	THINNING	28	
				82		1ST SUP	THINNING	26	
			48	83		1ST SUP	THINNING	32	
				84		1ST SUP	THINNING	41	
				80		1ST SUP	THINNING	22	
				81		1ST SUP	THINNING	<20	
				82		1ST SUP	THINNING	44	
				80		2ND SUP	THINNING	22	
			52	83		1ST SUP	THINNING	28	
				84		1ST SUP	THINNING	64	
				82		1ST SUP	THINNING	<20	
			53	83		1ST SUP	THINNING	<20	
				84		1ST SUP	THINNING	38	
				80		1ST SUP	THINNING	<20	
				81		1ST SUP	THINNING	<20	
				82		1ST SUP	THINNING	<20	
			54	83		1ST SUP	THINNING	35	
				84		1ST SUP	THINNING	48	
				80		1ST SUP	THINNING	29	
				81		1ST SUP	THINNING	39	
				82		1ST SUP	THINNING	32	
			55	83	4 " ABOVE	TUBE SH	THINNING	32	
				82	4 " ABOVE	TUBE SH	THINNING	32	
				81	5 " ABOVE	TUBE SH	THINNING	24	
			56	84		1ST SUP	THINNING	25	
			57	83		1ST SUP	THINNING	47	
				82		1ST SUP	THINNING	40	
			58	83		2ND SUP	THINNING	20	
				84		2ND SUP	THINNING	<20	
				81		2ND SUP	THINNING	<20	
				82		2ND SUP	THINNING	<20	
			59	81	6 " ABOVE	TUBE SH	THINNING	46	
				81		1ST SUP	THINNING	<20	
			60	81	6 " ABOVE	TUBE SH	THINNING	36	
				82	6 " ABOVE	TUBE SH	THINNING	45	
			61	83		2ND SUP	THINNING	<20	
				84		2ND SUP	THINNING	<20	
		45	36	83		1ST SUP	THINNING	<20	
				83		2ND SUP	THINNING	<20	
				84		2ND SUP	THINNING	<20	
				81		2ND SUP	THINNING	<20	
				82		2ND SUP	THINNING	<20	
			37	83		1ST SUP	THINNING	<20	
				84		1ST SUP	THINNING	61	
				81		1ST SUP	THINNING	<20	
				82		1ST SUP	THINNING	<20	
				83		2ND SUP	THINNING	41	
				84		2ND SUP	THINNING	42	
				80		2ND SUP	THINNING	<20	
				81		2ND SUP	THINNING	27	
				82		2ND SUP	THINNING	36	
			38	83		1ST SUP	THINNING	36	
				83		2ND SUP	THINNING	37	
				84		2ND SUP	THINNING	28	
				80		2ND SUP	THINNING	<20	
				81		2ND SUP	THINNING	<20	
				82		2ND SUP	THINNING	34	
			39	83		1ST SUP	THINNING	46	
				80		1ST SUP	THINNING	<20	
				81		1ST SUP	THINNING	23	
				82		1ST SUP	THINNING	39	
			40	83		1ST SUP	THINNING	39	
				84		1ST SUP	THINNING	47	
				81		1ST SUP	THINNING	34	
				82		1ST SUP	THINNING	35	
				83		2ND SUP	THINNING	<20	
				84		2ND SUP	THINNING	<20	
				80		2ND SUP	THINNING	<20	
				81		2ND SUP	THINNING	<20	
				82		2ND SUP	THINNING	<20	
			41	83		1ST SUP	THINNING	26	
				84		1ST SUP	THINNING	<20	

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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
21	OUTLET	45	41	83		2ND SUP	THINNING	<20	
				84		2ND SUP	THINNING	20	
			42	83		2ND SUP	THINNING	44	
				84		2ND SUP	THINNING	41	
				81		2ND SUP	THINNING	<20	
				82		2ND SUP	THINNING	<20	
			44	83		1ST SUP	THINNING	48	
				83		2ND SUP	THINNING	34	
				81		2ND SUP	THINNING	38	
				82		2ND SUP	THINNING	32	
			46	83		1ST SUP	THINNING	42	
				84		1ST SUP	THINNING	50	
				80		1ST SUP	THINNING	<20	
				81		1ST SUP	THINNING	33	
				82		1ST SUP	THINNING	35	
			49	82		1ST SUP	THINNING	66	
			52	80		1ST SUP	THINNING	37	
				81		1ST SUP	THINNING	42	
				82		1ST SUP	THINNING	54	
			54	83		1ST SUP	THINNING	<20	
				84		1ST SUP	THINNING	48	
				82		1ST SUP	THINNING	<20	
			58	84		1ST SUP	THINNING	<20	
			59	84		1ST SUP	THINNING	<20	
		46	46	83		1ST SUP	THINNING	<20	
				84		1ST SUP	THINNING	<20	
			48	84		1ST SUP	THINNING	<20	
			52	80		1ST SUP	THINNING	20	
				81		1ST SUP	THINNING	<20	
			53	80		1ST SUP	THINNING	<20	
				81		1ST SUP	THINNING	40	
				82		1ST SUP	THINNING	<20	
			54	84		1ST SUP	THINNING	<20	
22	INLET	13	23	83	9" BELOW	TUBE SH	THINNING	38	
		15	86	84	44 " ABOVE	4TH SUP	THINNING	<20	
		17	47	77	16" BELOW	TUBE SH	THINNING	86	
		19	31	84		2ND AVB	THINNING	<20	
			34	84		1ST AVB	THINNING	<20	
				84		2ND AVB	THINNING	<20	
				84		3RD AVB	THINNING	<20	
				84		4TH AVB	THINNING	25	
			69	84		2ND SUP	THINNING	<20	
		22	16	84	32 " ABOVE	2ND AVB	THINNING	40	
		32	46	84		2ND AVB	THINNING	<20	
				84		3RD AVB	THINNING	<20	
				84		4TH AVB	THINNING	<20	
			47	84		4TH AVB	THINNING	<20	
			64	84		2ND AVB	THINNING	75	
				84		3RD AVB	THINNING	<20	
			67	83		3RD AVB	THINNING	50	
				84		3RD AVB	THINNING	90	
			68	83		3RD AVB	THINNING	<20	
				84		3RD AVB	THINNING	20	
			69	84		1ST AVB	THINNING	<20	
				84		3RD AVB	THINNING	<20	
				84		4TH AVB	THINNING	<20	
		33	48	84		2ND AVB	THINNING	20	
				84		4TH AVB	THINNING	20	
			50	84		3RD AVB	THINNING	50	
				84		4TH AVB	THINNING	20	
			52	84		1ST AVB	THINNING	<20	
			62	83		3RD AVB	THINNING	50	
				84		3RD AVB	THINNING	20	
		34	40	84		2ND SUP	THINNING	<20	
		35	58	84		1ST AVB	THINNING	20	
		36	23	84	6 " ABOVE	2ND AVB	THINNING	99	
			35	81		1ST AVB	THINNING	99	
				81		2ND AVB	THINNING	99	
				81		3RD AVB	THINNING	99	
				81		4TH AVB	THINNING	80	
			48	84		2ND AVB	THINNING	94	
				84		3RD AVB	THINNING	46	
			50	83		2ND AVB	THINNING	40	
				84		2ND AVB	THINNING	21	
				84		3RD AVB	THINNING	21	
				84		4TH AVB	THINNING	80	
			54	84		4TH AVB	THIN	30	

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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
22	INLET	36	56	84	3RD AVB		THINNING	26	
				84	4TH AVB		THINNING	<20	
			57	84	3RD AVB		THINNING	20	
				84	4TH AVB		THINNING	<20	
			70	83	2ND AVB		THINNING	20	
				84	2ND AVB		THINNING	39	
				83	3RD AVB		THINNING	26	
				84	3RD AVB		THINNING	26	
		37	43	84	3RD AVB		THINNING	26	
				84	4TH AVB		THINNING	34	
			47	83	3RD AVB		THINNING	34	
				84	3RD AVB		THINNING	34	
				83	4TH AVB		THINNING	37	
				84	4TH AVB		THINNING	37	
			51	84	2ND AVB		THINNING	37	
				84	3RD AVB		THINNING	37	
		38	36	84	2ND AVB		THINNING	37	
				84	3RD AVB		THINNING	37	
			43	84	1ST AVB		THINNING	<20	
				84	2ND AVB		THINNING	20	
			47	84	4TH AVB		THINNING	<20	
				84	1ST AVB		THINNING	<20	
				83	2ND AVB		THINNING	20	
				84	2ND AVB		THINNING	16	
				84	3RD AVB		THINNING	21	
				84	4TH AVB		THINNING	21	
			48	83	2ND AVB		THINNING	20	
				84	2ND AVB		THINNING	20	
			50	84	3RD AVB		THINNING	20	
			56	84	2ND AVB		THINNING	20	
				84	3RD AVB		THINNING	20	
			57	84	1ST AVB		THINNING	20	
			60	84	1ST AVB		THINNING	20	
				84	2ND AVB		THINNING	39	
				84	3RD AVB		THINNING	26	
			64	84	2ND AVB		THINNING	<20	
				83	3RD AVB		THINNING	20	
				84	3RD AVB		THINNING	38	
		39	44	84	4TH AVB		THINNING	20	
			52	84	1ST AVB		THINNING	<20	
				84	2ND AVB		THINNING	37	
			54	84	1ST AVB		THINNING	20	
			55	84	1ST AVB		THINNING	39	
				84	2ND AVB		THINNING	51	
		40	47	83	1ST AVB		THINNING	20	
				84	1ST AVB		THINNING	20	
				83	2ND AVB		THINNING	20	
				84	2ND AVB		THINNING	37	
				84	3RD AVB		THINNING	20	
			54	84	1ST AVB		THINNING	39	
				83	2ND AVB		THINNING	<20	
				84	2ND AVB		THINNING	20	
				83	3RD AVB		THINNING	<20	
				84	3RD AVB		THINNING	42	
		44	53	84	4TH AVB		THINNING	20	
		45	49	83	1ST SUP		THINNING	<20	
			57	84	1ST AVB		THINNING	<20	
	OUTLET	1	91	82	1ST SUP		THINNING	40	
			93	80	1ST SUP		THINNING	<20	
				82	1ST SUP		THINNING	20	
		3	91	84	1ST SUP		THINNING	54	
		4	93	83	1ST SUP		THINNING	20	
				81	1ST SUP		THINNING	40	
				82	1ST SUP		THINNING	<20	
		6	92	83	2ND SUP		THINNING	20	
		7	91	83	1ST SUP		THINNING	<20	
				84	1ST SUP		THINNING	<20	
				82	1ST SUP		THINNING	<20	
				81	2ND SUP		THINNING	<20	
			94	84	1ST SUP		THINNING	<20	
		8	70	82	13 " ABOVE	TUBE SH	THINNING	20	
		10	91	83	1ST SUP		THINNING	<20	
		11	91	82	1ST SUP		THINNING	<20	
				83	2ND SUP		THINNING	20	
				84	2ND SUP		THINNING	37	
				81	2ND SUP		THINNING	39	

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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
22	OUTLET	11	91	82		2ND SUP	THINNING	30	
		12	3	83		2ND SUP	THINNING	20	
				80		2ND SUP	THINNING	20	
				81		2ND SUP	THINNING	20	
				82		2ND SUP	THINNING	20	
			91	81		1ST SUP	THINNING	20	
				82		1ST SUP	THINNING	20	
		14	88	83		2ND SUP	THINNING	20	
				84		2ND SUP	THINNING	20	
				81		2ND SUP	THINNING	20	
				82		2ND SUP	THINNING	20	
		15	91	83		1ST SUP	THINNING	20	
				84		1ST SUP	THINNING	20	
		16	4	83		1ST SUP	THINNING	20	
				84		1ST SUP	THINNING	20	
				81		1ST SUP	THINNING	20	
				82		1ST SUP	THINNING	20	
			32	84	6 " ABOVE	1ST SUP	THINNING	20	
			89	83		2ND SUP	THINNING	20	
				84		2ND SUP	THINNING	20	
				81		2ND SUP	THINNING	20	
				82		2ND SUP	THINNING	20	
			90	84		1ST SUP	THINNING	20	
				82		1ST SUP	THINNING	20	
		17	5	83		1ST SUP	THINNING	20	
				84		1ST SUP	THINNING	20	
				81		1ST SUP	THINNING	20	
				82		1ST SUP	THINNING	20	
			89	84		1ST SUP	THINNING	20	
			91	80		1ST SUP	THINNING	20	
				83		2ND SUP	THINNING	20	
				81		2ND SUP	THINNING	20	
				82		2ND SUP	THINNING	20	
		18	90	83		1ST SUP	THINNING	20	
				80		1ST SUP	THINNING	20	
				81		1ST SUP	THINNING	20	
				82		1ST SUP	THINNING	20	
				83		1ST SUP	THINNING	20	
				81		2ND SUP	THINNING	20	
				82		2ND SUP	THINNING	20	
		19	89	83		1ST SUP	THINNING	20	
				84		1ST SUP	THINNING	20	
				82		1ST SUP	THINNING	20	
		20	6	83		1ST SUP	THINNING	20	
				84		1ST SUP	THINNING	20	
			87	84		1ST SUP	THINNING	20	
			89	83		2ND SUP	THINNING	20	
				84		2ND SUP	THINNING	20	
				81		2ND SUP	THINNING	20	
				82		2ND SUP	THINNING	20	
		22	86	83		2ND SUP	THINNING	20	
				84		2ND SUP	THINNING	20	
				80		2ND SUP	THINNING	20	
				81		2ND SUP	THINNING	20	
				82		2ND SUP	THINNING	20	
			87	83		2ND SUP	THINNING	20	
				84		2ND SUP	THINNING	20	
				81		2ND SUP	THINNING	20	
				82		2ND SUP	THINNING	20	
			88	83		2ND SUP	THINNING	20	
				84		2ND SUP	THINNING	20	
				82		2ND SUP	THINNING	20	
		23	85	83		2ND SUP	THINNING	20	
				84		2ND SUP	THINNING	20	
				80		2ND SUP	THINNING	20	
				81		2ND SUP	THINNING	20	
			87	83		1ST SUP	THINNING	20	
				84		1ST SUP	THINNING	20	
				82		1ST SUP	THINNING	20	
		25	9	84		1ST SUP	THINNING	20	
				81		1ST SUP	THINNING	20	
				82		1ST SUP	THINNING	20	
			11	83		1ST SUP	THINNING	41	

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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
22	OUTLET	25	11	84	1ST SUP	THINNING		43	
				80	1ST SUP	THINNING		33	
				81	1ST SUP	THINNING		40	
				82	1ST SUP	THINNING		48	
			85	83	1ST SUP	THINNING		48	
				80	1ST SUP	THINNING		40	
				81	1ST SUP	THINNING		32	
				82	1ST SUP	THINNING		32	
		26	10	83	2ND SUP	THINNING		38	
				82	2ND SUP	THINNING		40	
			11	83	1ST SUP	THINNING		39	
				84	1ST SUP	THINNING		45	
				80	1ST SUP	THINNING		45	
				81	1ST SUP	THINNING		37	
				82	1ST SUP	THINNING		37	
			86	83	2ND SUP	THINNING		50	
				84	2ND SUP	THINNING		45	
				82	2ND SUP	THINNING		45	
		27	11	83	2ND SUP	THINNING		50	
		28	11	83	2ND SUP	THINNING		00	
				84	2ND SUP	THINNING		00	
				82	2ND SUP	THINNING		00	
			12	83	1ST SUP	THINNING		00	
				84	1ST SUP	THINNING		00	
				81	1ST SUP	THINNING		00	
				82	1ST SUP	THINNING		00	
			13	83	1ST SUP	THINNING		20	
				84	1ST SUP	THINNING		00	
				81	1ST SUP	THINNING		00	
				82	1ST SUP	THINNING		00	
			15	83	1ST SUP	THINNING		07	
				84	1ST SUP	THINNING		41	
				80	1ST SUP	THINNING		10	
				81	1ST SUP	THINNING		00	
				82	1ST SUP	THINNING		00	
			85	83	1ST SUP	THINNING		20	
				84	1ST SUP	THINNING		20	
				80	1ST SUP	THINNING		10	
				81	1ST SUP	THINNING		09	
				82	1ST SUP	THINNING		09	
		29	12	83	1ST SUP	THINNING		09	
				84	1ST SUP	THINNING		49	
				81	1ST SUP	THINNING		00	
				82	1ST SUP	THINNING		00	
			13	84	1ST SUP	THINNING		60	
			14	83	1ST SUP	THINNING		00	
				84	1ST SUP	THINNING		00	
				81	1ST SUP	THINNING		10	
				82	1ST SUP	THINNING		05	
			82	83	2ND SUP	THINNING		10	
				84	2ND SUP	THINNING		00	
				80	2ND SUP	THINNING		00	
				81	2ND SUP	THINNING		00	
				82	2ND SUP	THINNING		00	
			83	84	1ST SUP	THINNING		08	
				81	1ST SUP	THINNING		00	
				82	1ST SUP	THINNING		00	
				83	2ND SUP	THINNING		02	
				84	2ND SUP	THINNING		10	
				80	2ND SUP	THINNING		10	
				81	2ND SUP	THINNING		03	
				82	2ND SUP	THINNING		03	
		30	12	83	1ST SUP	THINNING		08	
				84	1ST SUP	THINNING		10	
				80	1ST SUP	THINNING		07	
			13	83	1ST SUP	THINNING		11	
				84	1ST SUP	THINNING		05	
				80	1ST SUP	THINNING		00	
				81	1ST SUP	THINNING		00	
				82	2ND SUP	THINNING		00	
			14	83	2ND SUP	THINNING		05	
				84	1ST SUP	THINNING		06	
				81	1ST SUP	THINNING		00	
				82	1ST SUP	THINNING		00	

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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
22	OUTLET	30	15	83	1ST SUP		THINNING	<20	
				84	1ST SUP		THINNING	<20	
				81	1ST SUP		THINNING	<20	
				82	1ST SUP		THINNING	<20	
			16	83	1ST SUP		THINNING	27	
				84	1ST SUP		THINNING	40	
				80	1ST SUP		THINNING	<20	
				81	1ST SUP		THINNING	51	
				82	1ST SUP		THINNING	28	
			21	83	1ST SUP		THINNING	<20	
				84	1ST SUP		THINNING	<20	
			59	82	2ND AVB		THINNING	<20	
			79	84	1ST SUP		THINNING	<20	
				81	1ST SUP		THINNING	<20	
				82	1ST SUP		THINNING	<20	
				83	2ND SUP		THINNING	42	
				84	2ND SUP		THINNING	38	
				80	2ND SUP		THINNING	<20	
				81	2ND SUP		THINNING	<20	
				82	2ND SUP		THINNING	<20	
			81	83	1ST SUP		THINNING	20	
				84	1ST SUP		THINNING	20	
				80	1ST SUP		THINNING	<20	
				81	1ST SUP		THINNING	<20	
				82	1ST SUP		THINNING	<20	
			82	83	2ND SUP		THINNING	28	
				84	2ND SUP		THINNING	37	
				81	2ND SUP		THINNING	<20	
				82	2ND SUP		THINNING	21	
		31	16	84	1ST SUP		THINNING	47	
				80	1ST SUP		THINNING	<20	
				81	1ST SUP		THINNING	28	
				82	1ST SUP		THINNING	28	
			22	83	1ST SUP		THINNING	<20	
			78	80	1ST SUP		THINNING	36	
				81	1ST SUP		THINNING	49	
			79	83	1ST SUP		THINNING	33	
				81	1ST SUP		THINNING	30	
				82	1ST SUP		THINNING	30	
				83	2ND SUP		THINNING	48	
				80	2ND SUP		THINNING	35	
				81	2ND SUP		THINNING	42	
				82	2ND SUP		THINNING	42	
			80	83	1ST SUP		THINNING	26	
				84	1ST SUP		THINNING	42	
				80	1ST SUP		THINNING	<20	
				81	1ST SUP		THINNING	<20	
				82	1ST SUP		THINNING	<20	
			81	83	1ST SUP		THINNING	39	
				84	1ST SUP		THINNING	40	
				82	1ST SUP		THINNING	46	
			82	83	2ND SUP		THINNING	<20	
				84	1ST SUP		THINNING	46	
				82	1ST SUP		THINNING	<20	
				83	2ND SUP		THINNING	55	
				84	2ND SUP		THINNING	54	
				81	2ND SUP		THINNING	<20	
				82	2ND SUP		THINNING	<20	
		32	17	80	1ST SUP		THINNING	39	
				81	1ST SUP		THINNING	49	
			18	83	1ST SUP		THINNING	<20	
				84	1ST SUP		THINNING	42	
				84	2ND SUP		THINNING	29	
			19	83	1ST SUP		THINNING	49	
				81	1ST SUP		THINNING	28	
				82	1ST SUP		THINNING	40	
			62	81	2ND AVB		THINNING	53	
				81	3RD AVB		THINNING	49	
			63	81	1ST AVB		THINNING	56	
				81	2ND AVB		THINNING	52	
				81	3RD AVB		THINNING	55	
			65	82	1ST AVB		THINNING	45	
				82	2ND AVB		THINNING	36	
				82	4TH AVB		THINNING	25	
			77	83	1ST SUP		THINNING	78	
				81	1ST SUP		THINNING	<20	
				82	1ST SUP		THINNING	33	

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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
22	OUTLET	32	77	83	2ND SUP	THINNING		55	
				81	2ND SUP	THINNING		59	
				82	2ND SUP	THINNING		43	
			79	80	1ST SUP	THINNING		33	
				81	1ST SUP	THINNING		33	
				80	2ND SUP	THINNING		33	
				81	2ND SUP	THINNING		<20	
		33	16	83	1ST SUP	THINNING		44	
				84	1ST SUP	THINNING		44	
				80	1ST SUP	THINNING		43	
				81	1ST SUP	THINNING		50	
				82	1ST SUP	THINNING		<20	
				83	2ND SUP	THINNING		41	
				84	2ND SUP	THINNING		38	
				81	2ND SUP	THINNING		40	
				82	2ND SUP	THINNING		36	
				84	3RD SUP	THINNING		43	
			17	83	1ST SUP	THINNING		25	
				84	1ST SUP	THINNING		28	
				80	1ST SUP	THINNING		34	
				81	1ST SUP	THINNING		<20	
				82	1ST SUP	THINNING		28	
			46	81	2ND AVB	THINNING		48	
			49	81	3RD AVB	THINNING		48	
				81	2ND AVB	THINNING		36	
				81	3RD AVB	THINNING		45	
				81	4TH AVB	THINNING		<20	
			56	81	1ST AVB	THINNING		48	
				81	2ND AVB	THINNING		48	
				81	3RD AVB	THINNING		46	
			57	81	1ST AVB	THINNING		31	
				81	2ND AVB	THINNING		51	
				81	3RD AVB	THINNING		57	
			59	81	2ND AVB	THINNING		57	
			67	81	3RD AVB	THINNING		76	
				81	2ND AVB	THINNING		39	
				81	3RD AVB	THINNING		49	
			75	83	1ST SUP	THINNING		<20	
				84	1ST SUP	THINNING		<20	
				81	1ST SUP	THINNING		<20	
				82	1ST SUP	THINNING		37	
			76	83	1ST SUP	THINNING		<20	
				84	1ST SUP	THINNING		<20	
				81	1ST SUP	THINNING		<20	
				82	1ST SUP	THINNING		<20	
			77	83	1ST SUP	THINNING		<20	
				84	1ST SUP	THINNING		<20	
				81	1ST SUP	THINNING		<20	
				82	1ST SUP	THINNING		<20	
			78	80	1ST SUP	THINNING		<20	
			79	80	2ND SUP	THINNING		37	
		34	18	80	1ST SUP	THINNING		46	
			20	80	1ST SUP	THINNING		48	
				81	1ST SUP	THINNING		<20	
			76	80	1ST SUP	THINNING		45	
			77	80	1ST SUP	THINNING		56	
				81	1ST SUP	THINNING		52	
				82	1ST SUP	THINNING		35	
			78	81	1ST SUP	THINNING		55	
			79	80	2ND SUP	THINNING		<20	
		35	17	84	1ST SUP	THINNING		43	
				82	1ST SUP	THINNING		37	
			18	83	1ST SUP	THINNING		<20	
				84	1ST SUP	THINNING		37	
				80	1ST SUP	THINNING		42	
				81	1ST SUP	THINNING		<20	
				83	1ST SUP	THINNING		37	
				84	2ND SUP	THINNING		47	
				81	2ND SUP	THINNING		47	
				82	2ND SUP	THINNING		39	
			19	80	1ST SUP	THINNING		39	
				81	1ST SUP	THINNING		<20	
				81	2ND SUP	THINNING		<20	
			77	83	2ND SUP	THINNING		49	
				82	1ST SUP	THINNING		49	

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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
22	OUTLET	35	78	80-1	12 " ABOVE	TUBE SH	THINNING	46	
		36	18	80-1		1ST SUP	THINNING	33	
				81		1ST SUP	THINNING	47	
			19	84		1ST SUP	THINNING	28	
			20	83		1ST SUP	THINNING	43	
				84		1ST SUP	THINNING	44	
				80		1ST SUP	THINNING	<20	
				81		1ST SUP	THINNING	33	
				82		1ST SUP	THINNING	39	
			22	83		2ND SUP	THINNING	34	
				84		2ND SUP	THINNING	23	
				81		2ND SUP	THINNING	33	
				82		2ND SUP	THINNING	30	
			23	81		2ND AVB	THINNING	33	
				82		2ND AVB	THINNING	33	
				81		3RD AVB	THINNING	33	
			35	81		1ST AVB	THINNING	38	
				81		2ND AVB	THINNING	80	
				81		2ND SUP	THINNING	84	
				81		3RD AVB	THINNING	73	
				81		4TH AVB	THINNING	<20	
			51	81		1ST AVB	THINNING	49	
				81		2ND AVB	THINNING	51	
				81		3RD AVB	THINNING	56	
				81		4TH AVB	THINNING	55	
			52	81		1ST AVB	THINNING	45	
				81		2ND AVB	THINNING	58	
				81		3RD AVB	THINNING	57	
				81		4TH AVB	THINNING	49	
			53	81		3RD AVB	THINNING	48	
			60	81		2ND AVB	THINNING	53	
			70	82		3RD AVB	THINNING	39	
			73	82		2ND SUP	THINNING	<20	
			75	83		2ND SUP	THINNING	37	
				84		2ND SUP	THINNING	31	
				81		2ND SUP	THINNING	21	
				82		2ND SUP	THINNING	18	
			76	80		1ST SUP	THINNING	<20	
				81		1ST SUP	THINNING	58	
			77	83		1ST SUP	THINNING	41	
				84		1ST SUP	THINNING	43	
				80		1ST SUP	THINNING	<20	
				81		1ST SUP	THINNING	37	
				82		1ST SUP	THINNING	38	
				83		2ND SUP	THINNING	33	
				84		2ND SUP	THINNING	40	
				80		2ND SUP	THINNING	<20	
				81		2ND SUP	THINNING	20	
				82		2ND SUP	THINNING	25	
		37	21	80		2ND SUP	THINNING	41	
				81		2ND SUP	THINNING	49	
			22	84		2ND SUP	THINNING	<20	
			46	81		1ST AVB	THINNING	24	
				81		2ND AVB	THINNING	55	
				81		3RD AVB	THINNING	56	
			47	82		3RD AVB	THINNING	33	
				82		4TH AVB	THINNING	35	
			49	81		1ST AVB	THINNING	39	
				81		2ND AVB	THINNING	30	
				81		3RD AVB	THINNING	55	
			72	83		2ND SUP	THINNING	<20	
				84		2ND SUP	THINNING	<20	
				81		2ND SUP	THINNING	<20	
				82		2ND SUP	THINNING	<20	
			73	84		1ST SUP	THINNING	37	
				82		1ST SUP	THINNING	<20	
				83		2ND SUP	THINNING	36	
				84		2ND SUP	THINNING	30	
				80		2ND SUP	THINNING	<20	
				81		2ND SUP	THINNING	28	
				82		2ND SUP	THINNING	29	
			74	84		1ST SUP	THINNING	<20	
				81		1ST SUP	THINNING	<20	
				82		1ST SUP	THINNING	<20	
				83		2ND SUP	THINNING	<20	
				84		2ND SUP	THINNING	<20	
				80		2ND SUP	THINNING	<20	

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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
22	OUTLET	37	74	81	2ND SUP		THINNING	<20	
				82	2ND SUP		THINNING	<20	
			75	80	1ST SUP		THINNING	27	
				81	1ST SUP		THINNING	47	
				82	1ST SUP		THINNING	<20	
			76	82	1ST SUP		THINNING	<20	
				82	2ND SUP		THINNING	35	
				83	2ND SUP		THINNING	41	
				84	2ND SUP		THINNING	<20	
				80	2ND SUP		THINNING	31	
				81	2ND SUP		THINNING	34	
				82	2ND SUP		THINNING	44	
		38	22	80	2ND SUP		THINNING	47	
				81	2ND SUP		THINNING	43	
				82	2ND SUP		THINNING	47	
			23	83	1ST SUP		THINNING	43	
				84	1ST SUP		THINNING	52	
				81	1ST SUP		THINNING	<20	
				82	1ST SUP		THINNING	20	
			25	84	2ND SUP		THINNING	<20	
				81	2ND SUP		THINNING	<20	
				82	2ND SUP		THINNING	<20	
			47	82	2ND AVB		THINNING	<20	
			53	81	3RD AVB		THINNING	54	
			56	81	2ND AVB		THINNING	56	
			58	81	2ND AVB		THINNING	51	
			71	83	1ST SUP		THINNING	30	
				84	1ST SUP		THINNING	30	
				81	1ST SUP		THINNING	<20	
				82	1ST SUP		THINNING	<20	
			72	83	1ST SUP		THINNING	37	
				84	1ST SUP		THINNING	<20	
				81	1ST SUP		THINNING	35	
				82	1ST SUP		THINNING	35	
				83	2ND SUP		THINNING	35	
				84	2ND SUP		THINNING	31	
				80	2ND SUP		THINNING	27	
				81	2ND SUP		THINNING	25	
			73	83	1ST SUP		THINNING	34	
				84	1ST SUP		THINNING	<20	
				80	1ST SUP		THINNING	30	
				81	1ST SUP		THINNING	34	
				82	1ST SUP		THINNING	30	
			74	80	2ND SUP		THINNING	34	
		39	23	84	1ST SUP		THINNING	<20	
				82	2ND AVB		THINNING	<20	
				83	2ND SUP		THINNING	<20	
				84	2ND SUP		THINNING	<20	
				80	2ND SUP		THINNING	<20	
				81	2ND SUP		THINNING	<20	
			24	84	2ND SUP		THINNING	<20	
				81	2ND SUP		THINNING	<20	
				82	2ND SUP		THINNING	<20	
			25	84	1ST SUP		THINNING	41	
				83	2ND SUP		THINNING	38	
				84	2ND SUP		THINNING	31	
				80	2ND SUP		THINNING	38	
				81	2ND SUP		THINNING	38	
				82	2ND SUP		THINNING	41	
			27	82	2ND SUP		THINNING	49	
			28	84	2ND SUP		THINNING	45	
			35	84	1ST SUP		THINNING	<20	
				82	2ND AVB		THINNING	30	
			64	83	2ND SUP		THINNING	36	
				84	2ND SUP		THINNING	27	
				80	2ND SUP		THINNING	<20	
				81	2ND SUP		THINNING	23	
				82	2ND SUP		THINNING	23	
			66	83	2ND SUP		THINNING	38	
				84	2ND SUP		THINNING	31	
				81	2ND SUP		THINNING	<20	
				82	2ND SUP		THINNING	<20	
			67	81	2ND AVB		THINNING	54	
				81	3RD AVB		THINNING	40	

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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
22	OUTLET	39	68	81	2ND AVB		THINNING	70	
			72	83	2ND SUP		THINNING	35	
				84	2ND SUP		THINNING	37	
				80	2ND SUP		THINNING	<20	
				81	2ND SUP		THINNING	23	
				82	2ND SUP		THINNING	28	
			73	83	2ND SUP		THINNING	44	
				84	2ND SUP		THINNING	43	
				81	2ND SUP		THINNING	41	
				82	2ND SUP		THINNING	28	
		40	24	80	2ND SUP		THINNING	23	
				81	2ND SUP		THINNING	29	
				82	2ND SUP		THINNING	46	
			25	84	1ST SUP		THINNING	<20	
				83	2ND SUP		THINNING	25	
				84	2ND SUP		THINNING	26	
				80	2ND SUP		THINNING	<20	
				81	2ND SUP		THINNING	<20	
				82	2ND SUP		THINNING	27	
			26	81	1ST SUP		THINNING	<20	
				82	1ST SUP		THINNING	<20	
			27	83	1ST SUP		THINNING	42	
				84	1ST SUP		THINNING	43	
				81	1ST SUP		THINNING	33	
				82	1ST SUP		THINNING	33	
			51	81	3RD AVB		THINNING	36	
			53	84	1ST SUP		THINNING	<20	
			54	82	1ST AVB		THINNING	<20	
				82	2ND AVB		THINNING	30	
			56	83	1ST SUP		THINNING	38	
				84	1ST SUP		THINNING	43	
				80	1ST SUP		THINNING	29	
				81	1ST SUP		THINNING	23	
				82	1ST SUP		THINNING	33	
			60	81	2ND AVB		THINNING	70	
				81	3RD AVB		THINNING	60	
			61	81	1ST AVB		THINNING	40	
			66	83	2ND SUP		THINNING	<20	
				84	2ND SUP		THINNING	<20	
				81	2ND SUP		THINNING	<20	
				82	2ND SUP		THINNING	<20	
			69	83	2ND SUP		THINNING	<20	
				84	2ND SUP		THINNING	<20	
				81	2ND SUP		THINNING	<20	
				82	2ND SUP		THINNING	<20	
			71	83	2ND SUP		THINNING	30	
				84	2ND SUP		THINNING	25	
				80	2ND SUP		THINNING	<20	
				81	2ND SUP		THINNING	22	
				82	2ND SUP		THINNING	22	
		41	28	83	1ST SUP		THINNING	24	
				80	1ST SUP		THINNING	38	
				81	1ST SUP		THINNING	34	
				82	1ST SUP		THINNING	43	
			60	83	2ND SUP		THINNING	20	
				84	2ND SUP		THINNING	<20	
				81	2ND SUP		THINNING	<20	
				82	2ND SUP		THINNING	20	
			61	83	2ND SUP		THINNING	36	
				84	2ND SUP		THINNING	26	
				80	2ND SUP		THINNING	<20	
				81	2ND SUP		THINNING	<20	
				82	2ND SUP		THINNING	20	
			62	81	1ST AVB		THINNING	29	
			65	83	1ST SUP		THINNING	28	
				84	1ST SUP		THINNING	25	
				81	1ST SUP		THINNING	29	
				82	1ST SUP		THINNING	29	
			66	83	2ND SUP		THINNING	38	
				84	2ND SUP		THINNING	33	
				80	2ND SUP		THINNING	25	
				81	2ND SUP		THINNING	30	
				82	2ND SUP		THINNING	30	
			67	83	2ND SUP		THINNING	45	
				80	2ND SUP		THINNING	27	
				81	2ND SUP		THINNING	37	
				82	2ND SUP		THINNING	53	

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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
22	OUTLET	41	68	83	2ND SUP		THINNING	39	
				84	2ND SUP		THINNING	30	
				80	2ND SUP		THINNING	<20	
				81	2ND SUP		THINNING	<20	
				82	2ND SUP		THINNING	36	
		42	32	83	2ND SUP		THINNING	35	
				80	2ND SUP		THINNING	<20	
				81	2ND SUP		THINNING	25	
				82	2ND SUP		THINNING	34	
			33	80	2ND SUP		THINNING	28	
				81	2ND SUP		THINNING	24	
			34	80	2ND SUP		THINNING	45	
			55	83	1ST SUP		THINNING	30	
				84	1ST SUP		THINNING	22	
				80	1ST SUP		THINNING	29	
				81	1ST SUP		THINNING	23	
				82	1ST SUP		THINNING	23	
			59	83	2ND SUP		THINNING	34	
				84	2ND SUP		THINNING	22	
				80	2ND SUP		THINNING	29	
				81	2ND SUP		THINNING	<20	
				82	2ND SUP		THINNING	<20	
			60	84	2ND SUP		THINNING	27	
				82	2ND SUP		THINNING	<20	
			61	84	1ST SUP		THINNING	28	
			64	83	2ND SUP		THINNING	30	
				84	2ND SUP		THINNING	<20	
			65	82	1ST SUP		THINNING	<20	
				83	2ND SUP		THINNING	<20	
				84	2ND SUP		THINNING	20	
				80	2ND SUP		THINNING	27	
				81	2ND SUP		THINNING	<20	
		43	34	83	1ST SUP		THINNING	<20	
				84	3RD SUP		THINNING	<20	
			36	83	2ND SUP		THINNING	28	
				84	2ND SUP		THINNING	32	
				80	2ND SUP		THINNING	24	
				81	2ND SUP		THINNING	23	
				82	2ND SUP		THINNING	34	
			37	80	2ND SUP		THINNING	47	
			41	84	2ND SUP		THINNING	<20	
			52	84	1ST SUP		THINNING	46	
			53	80	2ND SUP		THINNING	29	
				81	2ND SUP		THINNING	48	
			55	83	2ND SUP		THINNING	40	
				84	2ND SUP		THINNING	38	
				80	2ND SUP		THINNING	<20	
				81	2ND SUP		THINNING	28	
				82	2ND SUP		THINNING	35	
			58	83	1ST SUP		THINNING	27	
				84	1ST SUP		THINNING	28	
			59	83	2ND SUP		THINNING	25	
				84	2ND SUP		THINNING	26	
				80	2ND SUP		THINNING	26	
				81	2ND SUP		THINNING	<20	
				82	2ND SUP		THINNING	<20	
			60	83	2ND SUP		THINNING	<20	
				84	2ND SUP		THINNING	<20	
				81	2ND SUP		THINNING	<20	
				82	2ND SUP		THINNING	<20	
			62	83	1ST SUP		THINNING	29	
				84	1ST SUP		THINNING	27	
				80	1ST SUP		THINNING	<20	
				81	1ST SUP		THINNING	29	
				82	1ST SUP		THINNING	23	
				83	2ND SUP		THINNING	28	
				84	2ND SUP		THINNING	25	
				80	2ND SUP		THINNING	25	
				81	2ND SUP		THINNING	20	
				82	2ND SUP		THINNING	<20	
			63	83	1ST SUP		THINNING	40	
				84	2ND SUP		THINNING	<20	
				82	2ND SUP		THINNING	<20	
			65	82	1ST SUP		THINNING	<20	
				83	2ND SUP		THINNING	20	
				84	2ND SUP		THINNING	<20	
				80	2ND SUP		THINNING	<20	

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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
22	OUTLET	43	65	81	2ND SUP		THINNING	<20	
		44	33	81	1ST SUP		THINNING	<20	
				82	1ST SUP		THINNING	20	
				81	2ND SUP		THINNING	29	
				82	2ND SUP		THINNING	34	
			35	80	2ND SUP		THINNING	47	
				81	2ND SUP		THINNING	21	
			36	83	2ND SUP		THINNING	25	
				84	2ND SUP		THINNING	20	
				81	2ND SUP		THINNING	<20	
				82	2ND SUP		THINNING	<20	
			37	80	2ND SUP		THINNING	<20	
			38	83	2ND SUP		THINNING	47	
				84	2ND SUP		THINNING	20	
				81	2ND SUP		THINNING	<20	
			40	83	2ND SUP		THINNING	<20	
				84	2ND SUP		THINNING	<20	
				81	2ND SUP		THINNING	<20	
				82	2ND SUP		THINNING	<20	
			41	80	2ND SUP		THINNING	<20	
			42	83	2ND SUP		THINNING	49	
				84	2ND SUP		THINNING	20	
				81	2ND SUP		THINNING	20	
				82	2ND SUP		THINNING	<20	
			47	83	1ST SUP		THINNING	<20	
				84	1ST SUP		THINNING	20	
				81	1ST SUP		THINNING	20	
				82	1ST SUP		THINNING	<20	
			48	83	1ST SUP		THINNING	20	
				84	1ST SUP		THINNING	<20	
				81	1ST SUP		THINNING	<20	
				82	1ST SUP		THINNING	20	
			53	83	1ST SUP		THINNING	20	
				84	1ST SUP		THINNING	<20	
			54	82	1ST SUP		THINNING	25	
				81	2ND SUP		THINNING	25	
				82	2ND SUP		THINNING	41	
			55	84	1ST SUP		THINNING	47	
				83	2ND SUP		THINNING	23	
				84	2ND SUP		THINNING	26	
				81	2ND SUP		THINNING	23	
				82	2ND SUP		THINNING	38	
			56	83	1ST SUP		THINNING	30	
				81	1ST SUP		THINNING	51	
				82	1ST SUP		THINNING	24	
			57	83	1ST SUP		THINNING	23	
				82	1ST SUP		THINNING	23	
				83	2ND SUP		THINNING	<20	
				81	2ND SUP		THINNING	49	
				82	2ND SUP		THINNING	<20	
			58	83	1ST SUP		THINNING	23	
				82	1ST SUP		THINNING	25	
			59	80	2ND SUP		THINNING	43	
				81	2ND SUP		THINNING	36	
				82	2ND SUP		THINNING	44	
			60	83	1ST SUP		THINNING	64	
				84	1ST SUP		THINNING	38	
				80	1ST SUP		THINNING	45	
				81	1ST SUP		THINNING	<20	
				82	1ST SUP		THINNING	<20	
			61	81	1ST SUP		THINNING	40	
		45	36	81	2ND SUP		THINNING	<20	
			37	80	2ND SUP		THINNING	49	
			38	84	2ND SUP		THINNING	51	
			39	83	2ND SUP		THINNING	<20	
				84	2ND SUP		THINNING	<20	
				80	2ND SUP		THINNING	26	
				81	2ND SUP		THINNING	<20	
				82	2ND SUP		THINNING	<20	
			41	83	1ST SUP		THINNING	20	
				84	1ST SUP		THINNING	54	
				81	1ST SUP		THINNING	20	
				82	1ST SUP		THINNING	55	
			42	83	1ST SUP		THINNING	50	
				84	1ST SUP		THINNING	50	
				82	1ST SUP		THINNING	40	
					1ST SUP		THINNING	20	

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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
22	OUTLET	45	44	83-	2ND SUP		THINNING	21	
				84-	2ND SUP		THINNING	25	
				81-	2ND SUP		THINNING	27	
				82-	2ND SUP		THINNING	27	
			48	84-	1ST SUP		THINNING	<20	
				83-	2ND SUP		THINNING	20	
				84-	2ND SUP		THINNING	29	
			49	84-	1ST SUP		THINNING	23	
			51	84-	1ST SUP		THINNING	26	
			53	84-	1ST SUP		THINNING	<20	
			53	84-	1ST SUP		THINNING	28	
			55	84-	1ST SUP		THINNING	29	
				83-	2ND SUP		THINNING	25	
				84-	2ND SUP		THINNING	26	
				81-	2ND SUP		THINNING	23	
				82-	2ND SUP		THINNING	<20	
			57	84-	1ST SUP		THINNING	25	
		46	41	83-	1ST SUP		THINNING	<20	
				84-	1ST SUP		THINNING	28	
				81-	1ST SUP		THINNING	45	
				81-	1ST SUP		THINNING	<20	7TSP CRACKED HL
				82-	1ST SUP		THINNING	<20	
			42	83-	2ND SUP		THINNING	28	
				84-	2ND SUP		THINNING	29	
				80-	2ND SUP		THINNING	28	
				81-	2ND SUP		THINNING	<20	
				82-	2ND SUP		THINNING	24	
			43	80-	1ST SUP		THINNING	<20	
				81-	1ST SUP		THINNING	41	
			45	83-	1ST SUP		THINNING	53	
				84-	1ST SUP		THINNING	38	
				82-	1ST SUP		THINNING	40	
			48	80-	2ND SUP		THINNING	31	
			49	83-	1ST SUP		THINNING	48	
				84-	1ST SUP		THINNING	41	
				80-	1ST SUP		THINNING	42	
				81-	1ST SUP		THINNING	<20	
				82-	1ST SUP		THINNING	23	
			50	83-	1ST SUP		THINNING	35	
				84-	1ST SUP		THINNING	31	
			54	80-	1ST SUP		THINNING	44	
				81-	1ST SUP		THINNING	29	
				82-	1ST SUP		THINNING	40	
								57	

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PRAIRIE ISLAND NUCLEAR GENERATING PLANT
LIST OF PLUGGED STEAM GENERATOR TUBES

GEN NO.	SIDE	ROW	COL	YEAR	REMARKS/COMMENTS
21	INLET	1	1	80	
			94	80	PREVENTIVE (R1/C1)
		9	91	82	S/O
		13	23	82	S/O
		20	87	84	S/O
		23	8	82	S/O
			46	82	S/O
		25	28	82	S/O
			34	84	AVB
			58	82	S/O
		27	69	84	AVB
		28	11	81	S/O
		29	37	84	AVB
			45	82	S/O
			48	82	S/O
		32	79	82	S/O
		35	78	80	S/O
		36	19	83	S/O
			44	84	AVB
		37	76	84	S/O
		39	25	84	S/O
			56	82	S/O
			70	82	S/O
		40	69	84	S/O
		41	28	84	S/O
			67	84	S/O
		42	28	84	S/O
		43	33	81	S/O
			41	84	S/O
			62	84	S/O
			63	83	S/O
		44	52	84	S/O
			54	84	S/O
			57	83	S/O
			59	81	S/O
			60	82	S/O
		45	37	84	S/O
			39	83	S/O
			40	84	S/O
			44	83	S/O
			46	84	S/O
			49	82	S/O
			52	82	S/O
			54	84	S/O
		46	52	81	S/O
			53	82	S/O
	OUTLET	1	1	80	PREVENTITIVE
			94	80	PREVENTIVE
		9	91	82	
		13	23	82	
		20	87	84	
		23	8	82	
			46	82	
		25	28	82	
			34	84	
			58	82	
		27	69	84	
		28	11	81	
		29	37	84	
			45	82	
			48	82	
		32	79	82	
		35	78	80	
		36	19	83	
			44	84	
		37	76	84	
		39	25	84	
			56	82	
			70	82	
		40	69	84	
		41	28	84	
			67	84	
		42	28	84	
		43	33	81	
			41	84	
			62	84	
			63	83	

PRAIRIE ISLAND NUCLEAR GENERATING PLANT
LIST OF PLUGGED STEAM GENERATOR TUBES

GEN NO.	SIDE	ROW	COL	YEAR		REMARKS/COMMENTS
21	OUTLET	44	52	84	-	
			54	84	-	
			55	83	-	
			59	81	-	
			60	82	-	
		45	37	84	-	
			39	83	-	
			40	84	-	
			44	83	-	
			46	84	-	
			49	82	-	
			52	84	-	
		46	55	81	-	
22	INLET	1	1	80	-	PREVENTIVE
			94	80	-	PREVENTIVE
		13	23	83	-	
		17	41	77	-	
			91	83	-	S/O
		18	90	83	-	S/O
			85	83	-	S/O
		25	6	84	-	S/O
			19	82	-	S/O
		30	13	83	-	S/O
		31	16	84	-	S/O
			18	81	-	S/O
			91	83	-	S/O
			81	82	-	S/O
			82	84	-	S/O
		32	17	81	-	S/O
			18	84	-	S/O
			19	83	-	S/O
			63	81	-	S/O
			64	81	-	S/O
			67	85	-	S/O
			77	83	-	S/O
			79	81	-	S/O
		33	16	84	-	S/O
			46	81	-	S/O
			49	81	-	S/O
			56	81	-	S/O
			57	81	-	S/O
			57	81	-	S/O
			78	80	-	S/O
			79	80	-	S/O
		34	18	80	-	S/O
			26	81	-	S/O
			77	82	-	S/O
			79	80	-	S/O
		35	18	84	-	S/O
			19	81	-	S/O
			78	83	-	S/O
			78	80	-	S/O
		36	18	81	-	S/O
			23	84	-	S/O
			50	81	2	1981 WRG LOC 81-1
			55	84	-	AVB
			55	81	-	S/O
			58	81	-	S/O
			60	81	-	S/O
			61	81	-	S/O
		37	23	81	-	S/O
			36	81	-	WRG LOC PLUG
				81	2	1981 WRG LOC 81-1
			46	81	-	S/O
			49	81	-	S/O
			75	82	-	S/O
		38	22	82	-	S/O
			23	84	-	S/O
			53	81	-	S/O
			59	81	-	S/O
			58	81	-	S/O

PRAIRIE ISLAND NUCLEAR GENERATING PLANT
LIST OF PLUGGED STEAM GENERATOR TUBES

GEN NO.	SIDE	ROW	COL	YEAR	REMARKS/COMMENTS
22	INLET	38	74	80	S/O
		39	27	82	S/O
			28	81	S/O
			67	81	S/O
			68	81	S/O
		40	24	82	S/O
			51	81	S/O
			54	84	AVB
			60	81	S/O
			61	81	S/O
		41	26	83	S/O
			67	83	S/O
		42	25	83	S/O
			33	81	S/O
			34	80	S/O
		43	37	80	S/O
			54	84	S/O
			53	81	S/O
			62	84	S/O
		44	33	82	S/O
			35	81	S/O
			37	80	S/O
			41	80	S/O
			54	82	S/O
			56	83	S/O
			57	83	S/O
			58	83	S/O
			59	82	S/O
			60	84	S/O
		45	36	81	S/O
			37	80	S/O
		46	41	84	S/O
			43	81	S/O
			48	80	S/O
			54	82	S/O
	OUTLET	1	1	80	PREVENTIVE
			94	80	PREVENTIVE
		13	23	83	
		17	27	77	S/I
			91	83	
		18	90	83	
		25	85	83	
		26	11	84	
			19	82	
		30	13	83	
		31	16	84	
			18	81	
			79	83	
			81	82	
			82	84	
		32	17	81	
			18	84	
			19	83	
			23	81	AVB
			35	81	AVB
			57	82	AVB
			79	84	
		33	16	84	
			46	81	AVB
			49	81	AVB
			56	81	AVB
			57	81	AVB
			59	81	AVB
			78	81	AVB
			78	80	
			89	80	
		34	18	80	
			06	81	
			06	80	
			07	82	
			79	80	PULLED FOR ANALYSIS
		35	18	84	
			19	81	
			17	83	
			78	80	
		36	18	81	

DEC 18, 1984

PRAIRIE ISLAND NUCLEAR GENERATING PLANT
LIST OF PLUGGED STEAM GENERATOR TUBES

GEN NO.	SIDE	ROW	COL	YEAR		REMARKS/COMMENTS
22	OUTLET	36	20	84	-	
			55	81	-	AVB
			50	84	-	
			51	81	-	AVB
			52	81	-	AVB
			53	81	-	AVB
			60	81	-	AVB
			76	81	-	
		37	21	81	-	
			36	81	- 2	PLUG CORRECTION
			46	81	-	AVB
			49	81	-	AVB
			75	82	-	
		38	26	82	-	
			28	84	-	
			53	81	-	AVB
			55	81	-	AVB
			58	81	-	AVB
			74	80	-	
		39	27	82	-	
			28	81	-	
			67	81	-	AVB
			68	81	-	AVB
		40	24	82	-	
			51	81	-	AVB
			54	84	-	
			60	81	-	AVB
			61	81	-	AVB
		41	28	83	-	
			67	83	-	
		42	23	83	-	
			33	81	-	
			34	80	-	
		43	37	80	-	
			55	84	-	
			56	81	-	
			62	84	-	
		44	33	82	-	
			35	81	-	
			37	80	-	
			41	80	-	
			54	82	-	
			56	83	-	
			57	83	-	
			58	83	-	
			59	82	-	
			60	84	-	
		45	66	81	-	
			67	80	-	
		46	41	84	-	
			43	81	-	
			45	80	-	
			54	82	-	

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: WELCH, MINNESOTA

3.) Plant Unit: II 4.) Owner (Certificate of Authorization): --

5.) Commercial Service Date: 12-21-74 6.) National Board No. for Unit: --

7.) Components Inspected:

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
B1.0 REACTOR VESSEL	CREUSOT-LOIRE	687	MINN 200-51	--
B1.8 CLOSURE STUDS AND NUTS				
NUTS 33 THRU 48	CREUSOT-LOIRE	--	--	--
B1.10 CLOSURE WASHERS				
WASHERS 33 THRU 48	CREUSOT-LOIRE	--	--	--
B1.11 PRESSURE RETAINING BOLTING				
CONOSEAL MARMON CLAMP #34, #35, & #37	CREUSOT-LOIRE	--	--	--
B1.13 CLOSURE HEAD CLADDING				
HEAD CLADDING HCP-5, HCP-6	CREUSOT-LOIRE	--	--	--
B3.10 PRESSURE RETAINING BOLTING				
S/G NO 21 MANWAY BOLTS INLET 1 THRU 16	WESTINGHOUSE	1181	--	68-39
S/G NO 21 OUTLET 1 THRU 16	WESTINGHOUSE	1181	--	68-39

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5.) Commercial Service Date: 12-21-74 6.) National Board No. for Unit: --

7.) Components Inspected:

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
S/G NO 22 MANWAY BOLTS INLET 1 THRU 16	WESTINGHOUSE	1182	--	68-40
S/G NO 22 MANWAY BOLTS OUTLET 1 THRU 16	WESTINGHOUSE	1182	--	68-40
STEAM GENERATOR TUBING				
B4.0 PIPING PRESSURE BOUNDARY				
B4.5 CIRCUMFERENTIAL AND LONGITUDINAL WELDS				
SEAL INJECTION LOOP B W-4	NAVCO	--	--	--
RTD RETURN LOOP A W-3	NAVCO	--	--	--
B4.8 SOCKET WELDS				
RTD COLD LEG LOOP B W-14	NAVCO	--	--	--
B5.0 REACTOR CORE COOLANT PUMPS				

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Address: WELCH, MINNESOTA

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5.) Commercial Service Date: 12-21-74 6.) National Board No. for Unit: --

7.) Components Inspected:

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
B5.2 PRESSURE RETAINING BOLTING, WHEN REMOVED				
PUMP NO 21 SEAL HOUSE BOLTS 1 THRU 12	WESTINGHOUSE	W510	--	--
PUMP NO 22 SEAL HOUSE BOLTS 1 THRU 12	WESTINGHOUSE	W515	--	--
B6.7 VALVE BODIES				
ACCUMULATOR DISCHARGE LOOP A 2-8841A	NAVCO	--	--	--
B6.9 PRESSURE RETAINING BOLTING				
ACCUMULATOR DISCHARGE LOOP B 2-8840B				

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Address: WELCH, MINNESOTA

3.) Plant Unit: 1 4.) Owner (Certificate of Authorization): --

5.) Commercial Service Date: 12-21-74 6.) National Board No. for Unit: --

7.) Components Inspected:

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
ASME CLASS II				
PRESSURE VESSELS - ACCUMULATOR				
C1.1 CIRCUMFERENTIAL BUTT WELDS				
ACCUMULATOR NO 21 W-6	DELTA SOUTHERN	41037-69-1	--	2575
PRESSURE VESSELS - STEAM GENERATORS				
C1.2 NOZZLE TO VESSEL WELD				
STEAM GENERATOR NO 22 N-4	WESTINGHOUSE	1182	--	68-40
C2.0 PIPING				
C2.1 CIRCUMFERENTIAL BUTT WELDS				
FEEDWATER A FW-177	NAVCO	--	--	--
FEEDWATER B FW-133	NAVCO	--	--	--
C2.2 LONGITUDINAL WELDS IN FITTINGS				
RHR PUMP DISCHARGE LOOP B W-139 TO 140 TO 216	NAVCO	--	--	--

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Address: WELCH, MINNESOTA

3.) Plant Unit: II 4.) Owner (Certificate of Authorization): --

5.) Commercial Service Date: 12-21-74 6.) National Board No. for Unit: --

7.) Components Inspected:

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
C2.5 INTEGRALLY WELDED SUPPORTS				
RHR PUMP DISCHARGE B, RHRH-61 M, RHRH-36 H, RHRH-43 J, RHRH-46 J, RHRH-24	NAVCO	--	--	--
BORIC ACID SUPPLY TO SAFETY INJECTION A, SIH-18 D, SIH-3 O, SIH-12	NAVCO	--	--	--
C2.6 SUPPORT COMPONENT				
ACCUMULATOR DISCHARGE LOOP B C, RHRRH-21				

FORM NIS-1 OWNERS' DATA REPORT FOR INSERVICE INSPECTIONS

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Address: WELCH, MINNESOTA

3.) Plant Unit: II 4.) Owner (Certificate of Authorization): --

5.) Commercial Service Date: 12-21-74 6.) National Board No. for Unit: --

7.) Components Inspected:

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
SEISMIC BOLTING				
STEAM GENERATOR NUMBER 21	WESTINGHOUSE	1181	--	68-39
SNUBBER BOLTS BOTTOM ROW 5 BOLTS	--	--	--	--
COLUMN PINS TOP COL 1 BOT COL 3 & 4 3 PINS	--	--	--	--
STEAM GENERATOR NUMBER 22	WESTINGHOUSE	1182	--	68-40
SNUBBER BOLTS BOTTOM ROW 5 BOLTS	--	--	--	--
COLUMN PINS COL 3 & 4 4 PINS	--	--	--	--
REACTOR CORE COOLANT PUMP NUMBER 21	WESTINGHOUSE	W150	--	--
COLUMN PINS COLUMN 3 2 PINS	--	--	--	--

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Address: WELCH, MINNESOTA

3.) Plant Unit: II 4.) Owner (Certificate of Authorization): --

5.) Commercial Service Date: 12-21-74 6.) National Board No. for Unit: --

7.) Components Inspected:

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
RCP #21 CONT'D				
BASE ANCHOR BOLTS COLUMN 3 8 BOLTS	--	--	--	--
COLUMN CONNECTING BOLTS COLUMN 3 4 BOLTS	--	--	--	--
TIE BACK PIN PAD 3 1 PIN	--	--	--	--
REACTOR CORE COOLANT PUMP NUMBER 22	WESTINGHOUSE	W515	--	--
COLUMN PINS COLUMN 3 2 PINS	--	--	--	--
BASE ANCHOR BOLTS COLUMN 3 8 BOLTS	--	--	--	--
TIE BACK PIN PAD 3 1 PIN	--	--	--	--

FORM NIS-1 (back)

8.) Examination Dates 9-5-84 to 10-2-84 9.) Inspection Interval 12-21-74 to 12-21-84

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

This was the second inservice inspection conducted for inspection period three. The examinations completed approximately 80% of the required pressure retaining components and their supports of the reactor coolant and associated auxillary systems classified as ASME Class 1 and Class 2; 100% of the FSAR Augmented examinations of main steam and feedwater systems transversing the Auxillary Building; and 80% of the Seismic Bolting Program. Eddy Current examinations requirements for steam generator tubes were also completed during this outage in accordance with Prairie Island Technical Specification, Section T.S.4.12.

11.) Abstract of Conditions Noted.

Other than steam generator (S.G.) tubes, there were no signs of degradation to systems scheduled for examinations.

The Eddy Current inspection revealed 66 and 21 new tubes for S.G. No. 21 and No. 22, respectively, which exhibited wall thinning. There were a total of five and 15 tubes for S.G. No. 21 and No. 22, respectively, that required corrective action.

The following is a list of all anomalies detected:

System	Item ID	Exam Method	Type and Number of Indications
Feedwater A	FW-177	MT	3 Linears
Feedwater B	FW-133	MT	3 Linears
Reactor Coolant Pump - Seal House Bolts	Bolt 1	MT	3/4" Linear
Reactor Vessel Conoseal Bolts	Marmon Clamp 37	VT	1 Bolt & 2 Nuts Erroded
Residual Heat Removal	Hanger M	PT	Porosity
	Hanger H	VT	Drawing Compliance
	Hanger B	PT	Porosity
	Hanger H	PT	Undercut
	Hanger J	PT	Porosity
Seismic Bolting S/G #21	Snubber Wall Bolt	VT	Washer Not Fully Contacted by Nut

c.) Abstract of Corrective Measures Recommended and Taken.

All degraded S.G. tubes with wall thinning of 45% at the tube support plates and 38% in the tube sheet were mechanically plugged; a total of 5 for S.G. No. 21 and 15 for S.G. No. 22.

All anomalies were corrected. The linear MT indications and PT undercut were removed by light hand blending and blending the surface smooth.

The reactor vessel conoseal bolt and nuts and the reactor coolant pump seal house bolt were replaced with new bolts and nuts.

The snubber wall bolt was corrected by machining the washer to enable full contact between the nut and washer; straightening of the bolt was not performed due to the possibility of bolt deterioration.

The hangers with porosity were either found code acceptable or were analyzed for design load and found acceptable. The drawing compliance was determined, through magnification of the drawing, to be acceptable as noted.

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 1-3 19 85 Signed Northern States Power Company By Jay C Dawson
Owner

Certificate of Authorization No. (if applicable) N/A Expiration Date N/A

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 MINN and employed by HARTFORD STEAM BOILER of HARTFORD CONN have inspected the components described in this Owner's Data Report during the period 9/5/84 to 10/2/84, 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 1/3 19 85

Inspector's Signature

Commissions MN 228 NB 8628
National Board, State, Province & No
