



PRAIRIE ISLAND NUCLEAR GENERATING PLANT

Red Wing, Minnesota

UNITS 1 AND 2



INSERVICE INSPECTION - EXAMINATION SUMMARY
PRAIRIE ISLAND NUCLEAR GENERATING PLANT - UNIT II
JUNE 1 to JULY 9, 1982

Report Date:
Sept. 15, 1982

NORTHERN STATES POWER COMPANY
MINNEAPOLIS, MINNESOTA

Commercial Service
Date: Dec. 21, 1974

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REFUELING OUTAGE NO. 6

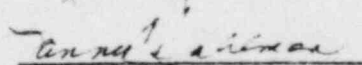
INSPECTION PERIOD 3

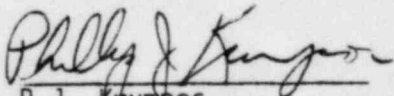
Report Date:
September 15, 1982

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Commercial Service
Date: December 21, 1974

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PRAIRIE ISLAND NUCLEAR GENERATING PLAN - UNIT II
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Eddy Current Results and Tube Sheet Maps

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INSERVICE INSPECTION - EXAMINATION SUMMARY
PRAIRIE ISLAND NUCLEAR GENERATING PLANT - UNIT 2

June 1 to July 9, 1982

1.0 INTRODUCTION

This report is a summary of the examinations performed during the sixth inservice inspection at the Prairie Island Nuclear Generating Plant - Unit 2. This was the first inservice inspection conducted for inspection period three. The examinations were performed during the plant's sixth refueling outage from June 1 to July 9, 1982. Prairie Island - Unit 2 began commercial operation on December 21, 1974.

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 I and ASME Class 2.
 - b) FSAR Augmented Examination of Main Steam and Feedwater Systems.
2. Eddy Current Examination of Steam Generator Tubing.

2.0 INSPECTION SUMMARY

The evaluation of the results from the inservice examinations indicated that the integrity of the systems has been maintained. To assure continued integrity of the steam generators (S.G.), a total of 15 tubes in S.G. 21 and 12 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 of the reactor coolant and associated auxiliary systems classified as ASME Class 1, Class 2, the FSAR Augmented Examination of Main Steam and Feedwater Systems, 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.

3.1 EXAMINATION PLAN con't.

In addition, the examination complied with Prairie Island's Technical Specification, 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 entitled, "ASME Code Section XI Inservice Inspection and Testing Program and Information Required for NCR Review of Requests For Relief From ASME Code Section XI Requirements."

3.2 EXAMINATION METHODS

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

Radiographic examinations were used to further evaluate the ultrasonic examinations as the need arose. The radiographic examinations were performed using a single wall exposure. A Cobalt 60 Source was used in conjunction with Kodak "AA" film.

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 grey card with a 1/32 inch black line.

3.3 EXAMINATION PROCEDURES

The ultrasonic examination procedure for pipe welds complied with the requirements of Appendix III of ASME Section XI that was issued in the Winter 1975 Addenda. The radiographic examination procedure complied with the requirements of ASME Section III, 1977 Edition through and including the Winter 1979 Addenda. All other examination procedures complied with the requirements of the 1974 Edition through and including the Summer 1975 Addenda of ASME Section XI. A listing of the procedures used for the examinations is shown in Table III of Appendix E.

3.4 EQUIPMENT AND MATERIALS

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

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

3.5 PERSONNEL

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

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

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

3.6 EVALUATION

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

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

3.7 EXAMINATION REPORTS AND DOCUMENTATION

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

3.7 EXAMINATION REPORTS AND DOCUMENTATION con't.

Table I of Appendix A, B and D summarizes all the examinations that have been 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 that the inspection was performed. The examination report numbers for this outage are prefixed with "82-".

Table II of Appendix A, B and D compares the baseline examination results with the results obtained during this examination. Table III of Appendix A, B 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 F contains the Form NIS-1, entitled "Owners" Data Report for Inservice Inspections".

3.8 SUMMARY OF RESULTS

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

<u>System</u>	<u>Item ID</u>	<u>Exam Method</u>	<u>Type & Number of Indications</u>
Safety Injection	E, Hanger	VT	loose nut
Boric Acid Tank	A, Support	PT	3 linears
Feedwater A	FW-145	MT	2 linears
Feedwater B	FW-133	MT	2 linears
	FW-137	MT	2 linears
RHR Loop B	I, Hanger	VT	loose nut
Seal Injection	J, Hanger	VT	missing bolt
Steam Generator No. 22	W-A	UT	3 indications

3.8 SUMMARY OF RESULTS con't.

All anomalies, with the exception of the UT indications on Steam Generator No. 22, were corrected. The loose nuts were tightened. The missing bolt on the seal injection Hanger J was re-analyzed and found acceptable; the hanger drawing was submitted to drawing control to indicate "as built" condition. The Linear MT and PT indications were removed by light hand grinding and blending the surface smooth.

The ultrasonic indications on Steam Generator No. 22-W-A were accepted as is, based on radiographs of the suspected areas. Original casting film was retrieved and reviewed for the channel head lip area and base metal. This review entailed the entire circumferential area of the channel head. Radiographs were taken utilizing a Cobalt 60 source and Kodak "AA" film, to encompass the area of UT indications. These revealed no apparent discontinuities. Correlation between the original casting film and the new radiographic film was not achievable since no reference points or discontinuities were located. The original radiographic layout numbers were not discernable on the channel head surface.

Based on the original casting film, the new radiographic film, and UT results from 0° and 45° examinations, the through wall dimensional indications as revealed by ultrasonic examination at 60° cannot be considered relevant and are probably the result of the cast metallurgical structure.

4.0 EXAMINATION OF THE STEAM GENERATOR TUBING

Eddy current examinations of the tubing in steam generator No. 21 and No. 22 were performed during this outage. The program consisted of full length tube inspections from row 7 through the outer peripheral rows and a "best effort" basis from row 1 through 6 with a minimum inspection through the U-bend region. All examinations were conducted from the cold leg side of the generator.

Westinghouse, with technical support from Zetec Corporation, was contracted to perform and evaluate the data from the eddy current examinations. These examinations were performed using Westinghouse's Multi-Frequency eddy current test system. This system provides increased analytical capabilities for determining tube integrity. The frequencies and their modes that were used for each examination were 400KHz, 100KHz and 10KHz in the differential mode, and 100KHz in the absolute mode.

Examinations performed during this outage reflected an average indication growth rate of 1.1% per year and 1.26% per year for steam generators No. 21 and No. 22, respectively. This is a decrease from the growth rates reported in 1981 (S/G. 21-7.56% per year and S/G. 22-9.56% per year).

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 an itemized listing is shown in Appendix F and G for S/G #21 and 22 respectively. Table III is a summary of those tubes which were mechanically plugged this outage and Appendix F and G are tube sheet maps showing the location of all tubes plugged for S/G 21 and 22 respectively.

Extent of Eddy Current Examinations				
Examination Extent	S/G 21		S/G 22	
	Amount	%	Amount	%
Full Length	2537	74.9	2490	73.5
Around U-Bend	825	24.4	826	24.9

TABLE II

Summary of Tubes With Eddy Current Indications		
% of Wall Thinning	S/G 21	S/G 22
< 20	45	68
20-29	20	34
30-39	26	45
40-49	13	6
≥ 50	11	11

TABLE III

Summary of Plugged Tubes				
Steam Generator	Tube		% of Wall	Indication Location
	R	C		
22	34	77	55	#1 TSP-CL
	37	75	47	#1 TSP-CL
	44	59	64	#2 TSP-CL
	46	54	57	#1 TSP-CL
	44	54	47	#2 TSP-CL
	44	33	47	#2 TSP-CL
	39	27	49	#2 TSP-CL
	40	24	46	#2 TSP-CL
	38	22	47	#2 TSP-CL
	32	65	45	#1 AVB
	31	81	46	#1 TSP-CL
	26	19	N/A	Dent - HL
21	23	8	48	#2 TSP - CL
	39	26	47	#1 TSP - CL
	45	49	66	#1 TSP - CL
	45	52	54	#1 TSP - CL
	46	53	54	#1 TSP - CL
	44	60	45	6" Above T.S. - CL
	39	70	46	#1 TSP - CL
	32	79	45	#1 TSP - CL
	9	91	50	#1 TSP - CL
	25	28	42	#2 AVB
	23	46	49	#2 AVB
	29	48	49	#2 AVB
	25	53	43	#2 AVB
	29	45	43	#2 AVB
	13	23	33	10" ABOVE T.E. - HL

APPENDIX A
ASME CLASS 1 - EXAMINATION

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

Table III

PAGE 1 OF 4

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" x 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	1½"	12-2RC-16A 12-2SI-27A	11 11

NORTHERN STATES POWER CO.
PRAIRIE ISLAND UNIT 2
ISOMETRIC SUMMARY

Table III

PAGE 2 OF 4

NSP ISO NUMBER	REVISION	COMPONENT OR SYSTEM	LCOP	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 2-2RC-11B 2-2RC-12	3 3 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 12-2SI-27B	11 11

NORTHERN STATES POWER CO.
PRAIRIE ISLAND UNIT 2
ISOMETRIC SUMMARY

Table III

PAGE 3 OF 4

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 2-2VC-4	3 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 B B	4" 6" 6"	4-2RC-14B 6-2RC-14B 6-2SI-25B	5 6 6
2-ISI-29	0	REACTOR VESSEL SAFETY INJECTION	A A A	4" 6" 6"	4-2RC-14A 6-2RC-14A 6-2SI-25A	5 6 6
2-ISI-30	0	PRESSURIZER SAFETY	A B	6" 6"	6-2RC-20A 6-2RC-20B	6 6
2-ISI-31	0	PRESSURIZER SURGE	B	10"	10-2RC-4	10
2-ISI-32	0	REACTOR COOLANT	A A A	29" 31" 27½"	29-2RC-1A 31-2RC-2A 27½-2RC-3A	15 15 15
2-ISI-33	0	REACTOR COOLANT	B B B	29" 31" 27½"	29-2RC-1B 31-2RC-2B 27½-2RC-3B	15 15 15
2-ISI-34	0	REGENERATIVE HEAT EXCHANGER	-	-	-	6
2-ISI-35	0	PRESSURIZER SAFETY AND RELIEF NOZZLES	-	-	-	-

Table III

PAGE 4 OF 4

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	0	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	-	-	-	-

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 2

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE SL.1PAGE 1 OF 5MAJOR 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	<u>LONGITUDINAL AND CIRCUM- FERENTIAL WELDS IN CORE REGION</u>					
		LONGITUDINAL WELDS	-	-	-	-NONE-	
		CIRCUMFERENTIAL WELDS	THREE	50%	-		
B1.2	B-B	<u>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</u>					
		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	<u>VESSEL TO FLANGE AND HEAD TO FLANGE CIRCUMFERENTIAL WELDS</u>					
		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%	-		

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 2

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S1.1PAGE 2 OF 5

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) HEAD TO FLANGE WELD NO. 6	ONE	33%	33%	STUD HOLE: 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	<u>PRIMARY NOZZLE-TO-VESSEL WELDS AND NOZZLE INSIDE RADIUSED SECTIONS</u> 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	<u>VESSEL PENETRATIONS, INCLUDING CONTROL ROD DRIVE AND INSTRUMENTATION PENETRATIONS</u> CONTROL ROD PENETRATIONS	ONE	3%	*3		*EACH ITEM INSPECTED BY PLANT PERSONNEL DURING EACH REACTOR VESSEL LEAKAGE TEST
			TWO	3%	*3		
			THREE	4%	-		

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT ²

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE Sl.1PAGE 3 OF 5MAJOR 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	<u>NOZZLE TO SAFE END WELDS</u> REACTOR CORE COOLANT NOZZLES					
		OUTLET NOZZLES	ONE	1	1	RCC-A-1 S.E.	77-W RPV REPORT & 77-020,112
			TWO	1	1	RCC-B-1 S.E.	81-W RPV REPORT & 81-21
		INLET NOZZLES	THREE	2	-		
		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	-		
B1.8	B-G-1	<u>CLOSURE STUDS AND NUTS</u>	ONE	16	16	#1 THRU #16	77-W RPV REPORT & 77-106
			TWO	16	16	#1 THRU #16 #17 THRU #32	78-84,99 (MT ONLY) 81-162,163,165,166
			THREE	16	-		

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT ²

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE ^{Sl.1}
PAGE ⁴ OF ⁵
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.
B1.9	B-G-1	<u>LIGAMENTS BETWEEN THREADED STUD HOLES</u>	ONE	16	16	12-22 & 29-35	STUD HOLES: 77-W RPV REPORT
			TWO	14	14	9-11 & 36-46	81-W RPV REPORT
			THREE	18	-		
B1.10	B-G-1	<u>CLOSURE WASHERS AND BUSHINGS</u>					
		WASHERS	ONE	16	16	PAIRS, 1 THRU 16	77-W RPV REPORT
			TWO	16	16	PAIRS, 17 THRU 32	81-164
			THREE	16	-		
		BUSHINGS	-	-	-	-NONE-	
B1.11	B-G-2	<u>PRESSURE RETAINING BOLTING</u>	ONE	3	9	ALL 9 BOLTS	77-W RPV REPORT
			TWO	3	9	ALL 9 BOLTS	81-170
			THREE	3	-		
B1.12	B-H	<u>INTEGRALLY WELDED VESSEL SUPPORTS</u>	THREE	2	-		
B1.13	B-I-1	<u>CLOSURE HEAD CLADDING</u>	ONE	2	2	HCP-1 & HCP-2	77-W RPV REPORT
			TWO	2	3	HCP-1, HCP-3 & HCP-4	81-155
			THREE	2	-		
B1.14	B-I-1	<u>VESSEL CLADDING</u>	ONE	2	2	VCP-1 & VCP-2	76-W INTERNALS RPT
			TWO	2	2	VCP-3 (2 PATCHES)	81-W RPV REPORT
			THREE	2	-		

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 2

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE SI.1PAGE 5 OF 5MAJOR 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	<u>VESSEL INTERIOR</u> 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 COMPON- ENTS DURING NORMAL REFUELING OPERATION
B1.16	B-N-2	<u>INTERIOR ATTACHMENTS AND CORE SUPPORT STRUCTURES</u>	-	-	-	NOT APPLICABLE FOR PWR'S	
B1.17	B-N-3	<u>REMOVABLE CORE SUPPORT STRUCTURES</u>	THREE	*-	-	*100% OF THE VISU- ALLY ACCESSIBLE ATTACHMENT WELDS AND VISUALLY ACCE- SSIBLE SURFACES OF THE CORE SUPPORT STRUCTURE	
B1.18	B-O	<u>CONTROL ROD DRIVE HOUSINGS</u> PERIPHERAL CRD HOUSINGS	THREE	2	-		
B1.19	B-P	<u>EXEMPTED COMPONENTS</u>	-	*-	-	*ALL COMPONENTS EXEMPTED FROM VOLUMETRIC AND SURFACE EXAMINA- TION BY IWB-1200	*PERFORMED BY PLANT PERSONNEL IN ACCORD- ANCE WITH IWA-5000 DURING EACH SYSTEM LEAKAGE TEST AND EACH SYSTEM HYDRO- STATIC TEST REQUIRED BY IWB-5000

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 2

INSERVICE INSPECTION-EXAMINATION SUMMARY

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

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
B2.1	B-B	<u>LONGITUDINAL AND CIRCUMFERENTIAL WELDS</u>					
		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"	78-104,112,118
						(CW)	
		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	<u>NOZZLE TO VESSEL WELDS</u>	-	-	-	-NONE-	
B2.3	B-E	<u>HEATER PENETRATION</u>	*	25/10 YRS	*		*EACH ITEM INSPECTED BY PLANT PERSONNEL
B2.4	B-F	<u>NOZZLE TO SAFE END WELDS</u>	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
			THREE	2	2	W-1A S.E.	82-200,224,226
						W-22A S.E.	82-203,225,227

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 2

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S1.2

PAGE 2 OF 2

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.
B2.5 B2.6 AND B2.7	B-G-1	<u>PRESSURE-RETAINING BOLTS AND STUDS (2 IN. DIA.)</u>	-	-	-	-NONE- (CW) FROM NAMEPLATE:	
B2.8	B-H	<u>INTEGRALLY WELDED VESSEL WELD SKIRT WELD</u>	ONE TWO THREE	0.3% 3.3% 3.4%	3.3% 23% 27%	+8" TO -8" +6' TO +11'9" +10' TO +16' 5"	76-77 78-106,107,117 82-231
B2.9	B-I-2	<u>VESSEL CLADDING</u>	THREE	36 SQ. IN. PATCH	-		
B2.10	B-P	<u>EXEMPTED COMPONENTS</u>					
		INSTRUMENT NOZZLE PENETRATIONS	*	-	-	NO. 5A THRU 5H	*EACH ITEM INSPECTED BY PLANT PERSONNEL
		SAMPLE NOZZLE PENETRATION	*	-	-	NO. 6	*EACH ITEM INSPECTED BY PLANT PERSONNEL
B2.11	B-G-2	<u>PRESSURE RETAINING BOLTING</u>					
		MANWAY BOLTS	ONE TWO THREE	5 5 6	5 5 -	BOLTS 1 THRU 6 BOLTS 6 THRU 13 BOLTS 1 THRU 16 BOLTS 1 THRU 16	76-30 78-82 81-60 82-232

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 2

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE Sl.3.1

PAGE 1 OF 3

MAJOR ITEM: STEAM GENERATORS

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
B3.1	B-B	<u>LONGITUDINAL AND CIRCUMFERENTIAL WELDS ON THE PRIMARY SIDE</u>					
		LONGITUDINAL WELDS	-	-	-	-NONE-	
		CIRCUMFERENTIAL WELDS STEAM GENERATOR NO. 21	ONE	1.9%	37%	(CW) FROM NAMEPLATE: +8" TO +13'8"	76-111,101,118
			TWO	1.9%	8%	+23'8" TO +26'8"	78-108,110,120
			THREE	1.8%	10%	-2'7 TO 4'6"	82-096,261,265
		STEAM GENERATOR NO. 22	ONE	1.9%	31%	+2' TO +13'	76-112,102,119
			TWO	1.9%	17%	+21'10" TO +23'	78-109,111,123
			THREE	1.8%	5%	-13" TO 25"	82-095,256,266,271
B3.2	B-D	<u>NOZZLE TO HEAD WELDS</u>	-	-	-	-NONE-	
B3.3	B-F	<u>NOZZLE TO SAFE END WELDS</u>					
		STEAM GENERATOR NO. 21	TWO	1	1	RCC-A-5 S.E.	81-116,125
			THREE	1			
		STEAM GENERATOR NO. 22	ONE	1	1	RCC-B-5 S.E.	81-116,125
			THREE	1	-		
B3.4 B3.5 AND B3.6	B-G-1	<u>PRESSURE RETAINING BOLTS AND STUDS (2 IN. DIA.)</u>	-	-	-	-NONE-	
B3.7	B-H	<u>INTEGRALLY WELDED VESSEL SUPPORTS</u>	-	-	-	-NONE-	

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
B3.8	B-I-2	<u>VESSEL CLADDING</u> STEAM GENERATOR NO. 21 INLET SIDE OUTLET SIDE STEAM GENERATOR NO. 22 INLET SIDE OUTLET SIDE	ONE ONE ONE ONE	36 SQ. IN. PATCH 36 SQ. IN. PATCH 36 SQ. IN. PATCH 36 SQ. IN. PATCH	36 SQ. IN. 36 SQ. IN. 36 SQ. IN. 36 SQ. IN.	CP-1, BELOW MANWAY CP-2, BELOW MANWAY CP-3, BELOW MANWAY CP-4, BELOW MANWAY	76-124 76-124 76-123 76-123
B3.9	B-P	<u>EXEMPTED COMPONENTS</u>	-	-	-	-NONE-	
B3.10	B-G-2	<u>PRESSURE RETAINING BOLTING (2 IN. DIA.)</u> STEAM GENERATOR NO. 21 MANWAY BOLTING INLET MANWAY	ONE TWO THREE	5 5 6	6 5 16	BOLTS 1 THRU 6 BOLTS 6 THRU 10 BOLTS 1 THRU 16 BOLTS 1 THRU 16	76-99 78-83 81-25, 31, 45 82-213, 215

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 2

TABLE 51.3.1

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INSERVICE INSPECTION-EXAMINATION SUMMARY

MAJOR ITEM: STEAM GENERATORS

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
B3.10	B-G-2	(CONT'D)					
		OUTLET MANWAY	ONE	5	6	BOLTS 1 THRU 6	76-99
			TWO	5	5	BOLTS 6 THRU 10	78-83
			THREE	6	16	BOLTS 1 THRU 15	81-25,31,45
						BOLTS 1 THRU 16	82-213,215
		STEAM GENERATOR NO. 22 MANWAY BOLTING					
		INLET MANWAY	ONE	5	6	BOLTS 1 THRU 6	76-120
			TWO	5	5	BOLTS 6 THRU 10	78-77
			THREE	6	14	BOLTS 1 THRU 16	81-29,44
						BOLTS 1 THRU 14	82-212,215
		OUTLET MANWAY	ONE	5	6	BOLTS 1 THRU 6	76-120
			TWO	5	5	BOLTS 6 THRU 10	78-77
			THREE	6	14	BOLTS 1 THRU 16	81-29,44
						BOLTS 1 THRU 14	82-212,215

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 2

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE SL.3.2

PAGE 1 OF 1MAJOR ITEM: REGENERATIVE HEAT EXCHANGER

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
B3.1	B-B	<u>LONGITUDINAL AND CIRCUMFERENTIAL WELDS ON THE PRIMARY SIDE</u>					
		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	<u>NOZZLE TO HEAD WELD</u>	-	-	-	-NONE-	
B3.4 B3.5 AND B3.6	B-G-1	<u>PRESSURE RETAINING BOLTS AND STUDS (2 IN. DIA.)</u>	-	-	-	-NONE-	
B3.7	B-H	<u>INTEGRALLY WELDED VESSEL SUPPORTS</u>	-	-	-	-NONE-	
B3.8	B-I-2	<u>VESSEL CLADDING</u>	-	-	-	-NONE-	
B3.9	B-P	<u>EXEMPTED COMPONENTS</u>	-	-	-	-NONE-	
B3.10	B-G-2	<u>PRESSURE RETAINING BOLTING (2 IN. DIA.)</u>	-	-	-	-NONE-	

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 2

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE SL.3.3

PAGE 1 OF 1

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	<u>LONGITUDINAL AND CIRCUMFERENTIAL WELDS ON THE PRIMARY SIDE</u>					
		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	<u>NOZZLE TO VESSEL WELDS</u>	-	-	-	-NONE-	
B3.3	B-F	<u>NOZZLE TO SAFE END WELDS</u>	-	-	-	-NONE-	
B3.4	B-G-1	<u>PRESSURE RETAINING BOLTS AND STUDS (2 IN. DIA.)</u>	-	-	-	-NONE-	
B3.5							
AND							
B3.6							
B3.7	B-H	<u>INTEGRALLY WELDED VESSEL SUPPORTS</u>	-	-	-	-NONE-	
B3.8	B-I-1	<u>VESSEL CLADDING</u>	-	-	-	-NONE-	
B3.9	B-P	<u>EXEMPTED COMPONENTS</u>	-	-	-	-NONE-	
B3.10	B-G-2	<u>PRESSURE RETAINING BOLTING (2 IN. DIA.)</u>	ONE	4	-	(NOTE PERIOD TWO)	
			TWO	8	8	BOLTS 1 THRU 8	78-72
			THREE	4	12	BOLTS 1 THRU 12	82-112

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 2

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE SL.4

PAGE 1 OF 19

MAJOR ITEM: PIPING PRESSURE BOUNDARY

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
B4.1	B-F	<u>SAFE END TO PIPING AND</u> <u>SAGE END IN BRANCH</u> <u>PIPING WELDS</u>					
		REACTOR VESSEL					
		REACTOR CORE COOLANT	ONE	1	1	W-1A, 29-2RC-1A	77-W RPV REPORT & 77-022,112
		SYSTEMS	TWO	1	1	RCC-B-1 S.E.	81-W RPV REPORT & 81-21
			THREE	2	-		
		SAFETY INJECTION	ONE	1	1	W-2, 4-2RC-14A	77-W RPV REPORT & 77-024,113
		SYSTEMS	THREE	1	-		
		STEAM GENERATOR NO. 21					
		REACTOR CORE COOLANT	TWO	1	1	RCC-A-5 S.E.	81-116,125
		SYSTEM	THREE	1	-		
		STEAM GENERATOR NO. 22					
		REACTOR CORE COOLANT	ONE	1	1	W-5, 31-2RC-2B	76-136,139
		SYSTEM	THREE	1	-		
		PRESSURIZER					
		SAFETY LINES	ONE	2	2	W-1, (8010A)	76-26,53
						W-1, (8010B)	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)	81-7,72,38,61
						W-1, (8010B)	81-22,22R,40,64
		SURGE LINE	TWO	1	1	W-15 SE, 10-2RC-4	78-31,100

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 2

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S1.4

PAGE 2 OF 19

MAJOR ITEM: PIPING PRESSURE BOUNDARY

SUP 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
			THREE	1	1	W-22B	81-5,5R,24
						W-22	82-202,223
B4.2 B4.3 AND B4.4	B-G-1	<u>PRESSURE REMAINING BOLTS AND STUDS (2 IN. DIA.)</u>	-	-	-	-NONE-	
B4.5	B-J	<u>CIRCUMFERENTIAL AND LONGITUDINAL PIPE WELDS</u>					
		LONGITUDINAL WELDS	-	-	-	-NONE-	
		CIRCUMFERENTIAL WELDS					
		<u>(1.5 IN. NOM.DIA. SYSTEMS)</u>					
		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	-		
		<u>(2.0 IN. NOM. DIA. SYS.)</u>					
		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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INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S1.4PAGE 3 OF 19MAJOR ITEM: PIPING PRESSURE BOUNDARY

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
B4.5	B-J	(CONT'D)					
		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	ONE	6	6	W-81,82A,80,83B,	77-9,8,7,6,5,4
		CVCS				83A,83	
			TWO	6	6	W-32,33,36	78-20,21,22
			THREE	6	-	W-37,38,39	80-96,97,98
		LETDOWN LINE AND	ONE	1	1	W-22	77-27
		DRAIN LINE	TWO	2	2	W-6,7	80-94,95
			THREE	2	2	W-9,13	82-109,110
		AUXILIARY SPRAY	ONE	1	1	W-1	77-28
		TO PRESSURIZER	TWO	1	1	W-11	78-71
			THREE	2	-		
		RESIDUAL TEMPERATURE	ONE	1	1	W-20	77-42
		DETECTOR TAKE OFF-	TWO	1	1	W-6	80-177
		COLD LEG A	THREE	1	-		
		RESIDUAL TEMPERATURE	ONE	1	1	W-18	77-60
		DETECTOR TAKE OFF-	TWO	2	2	W-8,9	80-116,117
		COLD LEG B	THREE	1	-		
		RESIDUAL TEMPERATURE	ONE	1	1	W-24	77-58
		DETECTOR TAKE OFF-	TWO	1	1	W-29	80-178
		HOT LEG A	THREE	2	-		
		RESIDUAL TEMPERATURE	ONE	1	1	W-19	77-59
		DETECTOR TAKE OFF-	TWO	1	1	W-23	80-104
		HOT LEG B	THREE	2	-		

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 2

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE SI.4

PAGE 4 OF 19

MAJOR ITEM: PIPING PRESSURE BOUNDARY

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
B4.5	B-J	(CONT'D)					
		SAFETY INJECTION HIGH HEAD A	ONE TWO THREE	- 1 1	- 1 1	W-2 W-7	78-15 82-108
		SAFETY INJECTION HIGH HEAD B	ONE TWO THREE	1 - 1	1 - 1	W-7 W-2	77-43 82-262
		DRAIN LINE ON CROSSOVER A	ONE TWO THREE	1 1 1	1 1 1	W-14 W-7 W-6	77-26 78-13 82-107
		REACTOR VESSEL SAFETY INJECTION LOW HEAD A	ONE TWO THREE	1 1 1	1 1 1	W-12 W-9 W-2	77-17 78-19 82-092
		REACTOR VESSEL SAFETY INJECTION LOW HEAD B	ONE TWO THREE	- 1 1	- 1 1	W-2 W-1	78-23 82-091
		(3.0 IN. NOM. DIA. SYSTEMS)					
		SPRAY TO PRESSURIZER BRANCH A	ONE TWO THREE	3 3 4	3 3 2	W-5,7,8 W-20,24,25 W-16,17	77-38,40,39 80-121,120,119 82-220,218
		SPRAY TO PRESSURIZER BRANCH B	ONE TWO THREE	2 3 2	2 3 -	W-18,19 W-3,4,5	77-48,46 80-118,122,103
		RESIDUAL TEMPERATURE DETECTOR RETURN A	ONE TWO THREE	1 1 1	1 1 -	W-5 W-2	77-41 78-66

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 2

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE SI.4PAGE 5 OF 19MAJOR ITEM: PIPING PRESSURE BOUNDARY

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
B4.5	B-J	(CONT'D)					
		RESIDUAL TEMPERATURE	ONE	1	1	W-7	77-56
		DETECTOR RETURN B	TWO	1	1	W-6	78-85
			THREE	1	-		
		PRESSURIZER RELIEF	ONE	-	-		
		LINE A	TWO	-	-		
			THREE	1	1	W-5	82-221
		PRESSURIZER RELIEF	ONE	1	1	W-4	77-47
		LINE B	TWO	1	1	W-9	80-99
			THREE	1	-		
		(4.0 IN. NOM. DIA. SYSTEMS)					
		SAFETY INJECTION	ONE	1	-	NONE OF THESE	
		LOW HEAD A	TWO	-	-	WELDS ARE ACCES-	
			THREE	-	-	SIBLE; THEY ARE	
						LOCATED WITHIN THE	
						CONCRETE SHIELD	
						WALL	
		SAFETY INJECTION	ONE	-	-	(SAME AS LOOP A)	
		LOW HEAD B	TWO	-	-		
			THREE	1	-		
		(6.0 IN. NOM. DIA. SYSTEMS)					
		REACTOR VESSEL	ONE	-	-		
		SAFETY INJECTION	TWO	1	1	W-6	80-100
		LOWHEAD A	THREE	1	-		
		REACTOR VESSEL	ONE	1	1	W-9 (+W-8)	76-37 (+76-38)
		SAFETY INJECTION	TWO	-	-		
		LOW HEAD B	THREE	1	-		

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MAJOR ITEM: PIPING PRESSURE BOUNDARY

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
B4.5	B-J	(CONT'D)					
		SAFETY INJECTION HIGH HEAD A	ONE TWO THREE	- - 1	- - -		
		SAFETY INJECTION HIGH HEAD B	ONE TWO THREE	1 - -	1 - -	W-1	76-143
		PRESSURIZER SAFETY LINE A	ONE TWO THREE	- 3 1	- 3 -	W-8/W-3,4	80-102/81-59,58
		PRESSURIZER SAFETY LINE B	ONE TWO THREE	2 2 1	2 2 -	W-1,2 W-6,7	76-54,61 81-57,56
		PLO-CAP A	ONE TWO THREE	- - 1	- - -		
		PLO-CAP B	ONE TWO THREE	- 1 -	- 1 -	W-1	80-101
		(8.0 IN. NOM. DIA. SYSTEMS)					
		RESIDUAL HEAT REMOVAL TAKE OFF A	ONE TWO THREE	2 3 3	2 3 3	W-11,12 W-5,6,8 W-2,3,4	77-33,32 78-90,94,92 82-078,079,082
		RESIDUAL HEAT REMOVAL TAKE OFF B	ONE TWO THREE	3 2 3	8 2 3	W-25,27,28 (+W-8,10,11,12,26) W-12,14 W-5,6,7	76-74,58,56 (+76-70,71,72,73,58) 78-95,91 82-083,084,085

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MAJOR ITEM: PIPING PRESSURE BOUNDARY

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
B4.5	B-J	(CONT'D)					
		(10.0 IN. NOM. DIA. SYSTEMS)					
		RESIDUAL HEAT REMOVAL	ONE	1	2	W-1 (+W-9)	76-9 (+76-7)
		RETURN B	TWO	1	1	W-7	78-102
			THREE	1	-		
		PRESSURIZER SURGE	ONE	1	4	W-12 (+W-11,13,14)	76-81 (+76-78,81,79)
		LINE B	TWO	1	1	W-14	78-101
			THREE	2	-		
		(12.0 IN. NOM. DIA. SYSTEMS)					
		ACCUMULATOR DISCHARGE A	ONE	1	1	W-11	77-35
			TWO	1	1	W-7	80-35,36
			THREE	1	-		
		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	-		
		(27.5 IN. NOM. DIA. SYSTEMS)					
		REACTOR CORE COOLANT	ONE	-	-		
		COLD LEG (INLET) A	TWO	-	-		
			THREE	1	-		
		(29.0 IN. NOM. DIA. SYSTEMS)					
		REACTOR CORE COOLANT	ONE	-	-		
		COLD LEG (INLET) B	TWO	1	1	RCC-B-12	81-87,94
			THREE	-	-		
		REACTOR CORE COOLANT	ONE	1	1	W-3, 29-2RC-1A	77-044
		OT LEG (OUTLET) A	TWO	-	-		
			THREE	-	-		

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TABLE S1.4PAGE 8 OF 19MAJOR ITEM: PIPING PRESSURE BOUNDARY

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
B4.5	B-J	(CONT'D)					
		REACTOR CORE COOLANT	ONE	-	-		
		HOT LEG (OUTLET) B	TWO	-	-		
			THREE	1	-		
		<u>(31.0 IN. NOM. DIA. SYSTEMS)</u>					
		REACTOR CORE COOLANT	ONE	-	-		
		CROSSOVER A	TWO	2	2	RCC-A-7	81-115, 115R, 152
			THREE	-	-	RCC-A-7	81-117, 124
		REACTOR CORE COOLANT	ONE	1	3	W-6 (+W-7, 8)	76-140 (+76-141, 142)
			TWO	-	-		
			THREE	-	-		
B4.6	B-J	<u>BRANCH PIPE CONNECTION</u>					
		<u>WELDS EXCEEDING SIX</u>					
		<u>INCH DIAMETER</u>					
		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	-		

MAJOR ITEM: PIPING PRESSURE BOUNDARY

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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	(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-R	82-144
B4.8	B-I	<u>SOCKET WELDS</u>					
		<u>(2.0 IN. NOM. DIA. SYSTEMS)</u>					
		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

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INSERVICE INSPECTION--EXAMINATION SUMMARY

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MAJOR ITEM: PIPING PRESSURE BOUNDARY

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	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-1 (+SW-24)	76-131 (+76-40)
			TWO	1	1	SW-10	80-158
			THREE	1	-		
		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	-		
		RESIDUAL TEMPERATURE	ONE	1	1	SW-15	77-120
		DETECTOR TAKE OFF	TWO	1	1	SW-4	78-26
		COLD LEG B	THREE	1	-		
		RESIDUAL TEMPERATURE	ONE	-	-		
		DETECTOR TAKE OFF	TWO	1	1	SW-31	80-154
		HOT LEG A	THREE	1	-		
		RESIDUAL TEMPERATURE	ONE	-	-		
		DETECTOR TAKE OFF	TWO	1	1	SW-29	80-157
		HOT LEG B	THREE	1	-		
		SAFETY INJECTION	ONE	-	-		
		HIGH HEAD A	TWO	-	-		
			THREE	1	1	W-8	82-145
		SAFETY INJECTION	ONE	1	1	SW-8	77-110
		HIGH HEAD B	TWO	-	-		
			THREE	-	-		

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TABLE SL.4PAGE 12 OF 19MAJOR ITEM: PIPING PRESSURE BOUNDARY

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
B4.8	B-J	(CONT'D)					
		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	<u>INTEGRALLY WELDED SUPPORTS</u>					
		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
		RESIDUAL HEAT REMOVAL TAKE OFF A	TWO	1	1	U	78-29, 50, 93
		ACCUMULATOR DISCHARGE A	-	-	-		

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MAJOR ITEM: PIPING PRESSURE BOUNDARY

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
B4.9	B-K-1	(CONT'D)					
		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	-		
		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
4.10	B-K-2	<u>SUPPORT COMPONENTS</u>					
		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

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MAJOR ITEM: PIPING PRESSURE BOUNDARY

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
B4.10	B-K-2	(CONT'D)					
		DRAIN LINE ON CROSSOVER A	ONE TWO THREE	- - 1	- - 1	A	82-118
		RESIDUAL TEMPERATURE DETECTOR TAKE OFF COLD LEG A	ONE TWO THREE	1 1 2	1 1 -	A B1 B1	76-97 80-144,144R 81-139,139R
		RESIDUAL TEMPERATURE DETECTOR TAKE OFF HOT LEG A	ONE TWO THREE	2 2 3	2 2 -	C,D G,H	77-144 80-146
		SAFETY INJECTION HIGH HEAD A	ONE TWO THREE	1 1 1	1 1 1	C D A	77-131 80-132 82-257
		RESIDUAL TEMPERATURE DETECTOR RETURN A	ONE TWO THREE	1 1 1	1 1 -	C B	76-98 78-41
		SPRAY TO PRESSURIZER BRANCH A	ONE TWO THREE	4 5 5	4 5 1	J/M,N,O B,C,D,H V P	76-107/77-151 78-42,43,44,45 80-135 82-205
		SPRAY TO PRESSURIZER BRANCH B	ONE TWO THREE	3 3 3	3 3 3	G,H,F D,E,F1 B,C,C1	76-107 80,129,130,131 82-163,162,161
		RESIDUAL HEAT REMOVAL TAKE OFF A	ONE TWO THREE	5 5 6	5 5 6	O,P,Q,S,T B,C,D,H, C,E I,J,L,M, R,V	76-41 78-46,47,48,49 80-54,23 82-247,155,156,157 82-121,154

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MAJOR ITEM: PIPING PRESSURE BOUNDARY

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
B4.10	B-K-2	(CONT'D)					
		ACCUMULATOR DISCHARGE A	ONE	2	2	H, I	76-33
			TWO	3	3	D, E, G	80-25, 50, 51
			THREE	3	-		
		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	4	F, H, I, J	82-122, 158, 119, 120
		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
			THREE	8	-	O, Q, T, V	80-80, 127, 126, 125
		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	-		
		RESIDUAL TEMPERATURE DETECTOR TAKE OFF HOT LEG B	ONE	1	1	A2	77-134
			TWO	2	2	A1, A	80-73, 73R, 72
			THREE	2	-	A1	81-140
		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	-	-		

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MAJOR ITEM: PIPING PRESSURE BOUNDARY

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
B4.10	B-K-2	(CONT'D)					
		RESIDUAL HEAT REMOVAL TAKE OFF B	ONE TWO THREE	5 5 6	5 5 6	H/L,M,N,O A,B,C C,D,K F,G,I,J, P,P _i	76-63/77-145,149 78-57,57,58 80-65,64,133 82-149,150,147,148, 148R 82-137,138
		RESIDUAL HEAT REMOVAL RETURN B	ONE TWO THREE	1 1 1	1 1 -	A B	77-132 78-59
		ACCUMULATOR DISCHARGE B	ONE TWO THREE	3 3 4	3 3 -	E,F,C B,B1/A	77-138 78-60/80-48
		SAFETY INJECTION HIGH HEAD B	ONE TWO THREE	1 - 1	1 - -	C	77-127
		AUXILLIARY SPRAY TO PRESSURIZER	ONE TWO THREE	1 1 2	1 1 -	A B	76-46 78-61
		REACTOR VESSEL SAFETY INJECTION LOW HEAD A	ONE TWO THREE	1 - -	1 - -	A	77-128
		REACTOR VESSEL SAFETY INJECTION LOW HEAD B	ONE TWO THREE	- 1 -	- 1 -	A	
		PRESSURIZER RELIEF LINE B	ONE TWO THREE	- - 1	- - 1	A	82-159

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MAJOR ITEM: PIPING PRESSURE BOUNDARY

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
B4.10	B-K-2	(CONT'D)					
		REACTOR VESSEL	ONE	1	1	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	-		
		PRESSURIZER SAFETY LINES A & B	ONE TWO THREE	1 1 -	1 1 -	A1 A2	77-152 80-128
		PRESSURIZER SURGE B	ONE TWO THREE	3 4 5	3 4 -	K,J,I A,B/C,D	76-48 78-64,63/80-70,71
		REACTOR CORE COOLANT CROSSOVER A	ONE TWO THREE	- 1 1	- 1 -	A1	81-138
		REACTOR CORE COOLANT CROSSOVER B	ONE TWO THREE	1 - 1	1 - -	B1	76-106
		<u>EXEMPT AND NON-EXEMPT COMPONENTS</u>	-	*	-	*ALL COMPONENTS EXAMINED IN ACCORDANCE WITH IWA-5000 AND IWB-5000 DURING SYSTEM LEAKAGE TEST	PERFORMED BY PLANT PERSONNEL
		HYDROSTATICALLY PRESSURE TESTED TO IWA-500) AT END OF TEN YEAR INTERVAL PLUS SYSTEM LEAKAGE EXAM EACH SCHEDULED REFUELING OUTAGE					
B4.11	B-P						

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MAJOR ITEM: PIPING PRESSURE BOUNDARY

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
B4.11	B-P	(CONT'D) 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 REACTOR VESSEL CLOSURE HEAD VENT 1-2RC-36 REACTOR VESSEL CLOSURE HEAD FLANGE 1-2RC-9A 1-2RC-9B					
B4.12	B-G-2	<u>PRESSURE RETAINING BOLTING</u> (ONLY SYSTEMS APPLICABLE TO THIS ITEM ARE LISTED) SEAL INJECTION A RESISTANCE TEMPERATURE DETECTOR RETURN A	ONE TWO THREE	4 4 8	4 4 -	BOLTS 1-4 @ W-2 BOLTS 1-4 @ W-4	76-76 78-81

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MAJOR ITEM: PIPING PRESSURE BOUNDARY

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. VER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
B4.12	B-G-2	(CONT'D)					
		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	<u>PRESSURE RETAINING BOLTS AND STUDS, IN PLACE (2 IN. DIA.)</u>					
		FLANGE BOLTS					
		PUMP A	ONE	8	8	BOLTS 1 THRU 8	76-87
			TWO	8	8	BOLTS 9 THRU 16	78-67
			THREE	8	-		
		PUMP B	ONE	8	8	BOLTS 1 THRU 8	76-86
			TWO	8	8	BOLTS 9 THRU 16	78-68
			THREE	ITEM B5.2	-		
		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	-		
B5.2 AND B5.3	B-G-1	<u>PRESSURE RETAINING BOLTS AND STUDS, WHEN REMOVED (2 IN. DIA.)</u>					
		PUMP A					
		SEAL HOUSE BOLTING	TWO	12	12	BOLT 1 THRU 12	81-46,47/81A-4,7
		FLANGE BOLTING	TWO	24	24	BOLT 1 THRU 24	81A-1,2,3,5,6,6R
		PUMP B					
		FLANGE BOLTING	THREE	24	-		
		SEAL HOUSE BOLTING	THREE	12	-		

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 2

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S1.5

PAGE 2 OF 3

MAJOR ITEM: REACTOR CORE COOLANT PUMPS

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
B5.4	B-K-1	<u>INTEGRALLY WELDED SUPPORTS</u> PUMP A	TWO	3	3	SUPPORT A,B,C	RELIEF NO. 47 81-129,131,130
		PUMP B	TWO THREE	3 3	3 -	SUPPORT A,B,C	81-132,134,137
B5.5	B-K-2	<u>SUPPORT COMPONENTS*</u> PUMP A COLUMN AND LATERAL SUPPORTS	ONE TWO THREE	1 1 1	1 1 -	COLUMN 1 COLUMN 2	*COINCIDENT WITH SEISMIC BOLTING 77-67,163,158 80-181,107,174
		PUMP B COLUMN AND LATERAL SUPPORTS	ONE TWO THREE	1 1 1	1 1 -	COLUMN 1 COLUMN 2	77-64,162,161 80-181,107,108
B5.6	B-L-1	<u>PUMP CASING WELDS</u> PUMP A	-	-	-	-NONE-	
		PUMP B	-	-	-	-NONE-	
B5.7	B-L-2	<u>PUMP CASINGS</u> PUMP A or B PUMP A	THREE TWO	1 1	- 1	PUMP CASING	81A-8
B5.8	B-P	<u>EXEMPTED COMPONENTS</u>	-	-	-	-NONE-	
B5.9	B-G-2	<u>PRESSURE RETAINING BOLTING (2 IN. DIA.)</u>	-	-	-	-NONE-	
-	-*	PUMP FLYWHEELS					

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 2

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE SI.5PAGE 3 OF 3MAJOR 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.
		PUMP A & B	ONE	2	2*	PUMP-21, FLYWHEEL PUMP-22, FLYWHEEL	76-113,117,116 76-93,82,92
			TWO	2	2	PUMP-21, FLYWHEEL	80-141,142,143
			THREE	-	-	PUMP-22, FLYWHEEL	80-124,139,140
							<p>*BOTH FLYWHEELS WERE REMOVED AS A RESULT OF MODIFICA- TION TO THE PUMP LUBRICATION SYSTEM THE BORE AND KEY- WAY'S WERE PT EXAM- INED & THE REMAIN- ING SURFACES WERE MT EXAMINED. U.T. WAS USED TO VOLUME- TRICALLY EXAMINE THE FLYWHEELS (NOTE TECH SPEC 4.2-1)</p>

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 2

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE 1.6PAGE 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	<u>PRESSURE RETAINING BOLTS AND STUDS (2 IN. DIA.)</u>	-	-	-	-NONE-	
B6.4	B-K-1	<u>INTEGRALLY WELDED SUPPORTS</u>	-	-	-	-NONE-	
B6.5	B-K-2	<u>SUPPORT COMPONENTS</u>	-	*	-	*INCLUDE IN TABLE 1.4 UNDER B4.10	
B6.6	B-M-1	<u>VALVE BODY WELDS</u>	-	-	-	-NONE-	
B6.7	B-M-2	<u>VALVE BODIES (4 IN. NOM. PIPE SIZE)</u>					
		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	-		
B6.8	B-P	<u>EXEMPTED COMPONENTS</u>	*	100%	*	ITEMS INSPECTED DURING EACH LEAKAGE TEST	INSPECTED BY PLANT PERSONNEL

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 2

INSERVICE INSPECTION—EXAMINATION SUMMARY

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

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
B6.9	B-G-2	PRESSURE RETAINING BOLTING *					*NOTE SUPPLEMENT B6.9 AT 3.4.3
		ACCUMULATOR DISCHARGE LOOP A - 12"	ONE THREE	16 16	16 -	CHECK, 2-8841A	76-12
		ACCUMULATOR DISCHARGE LOOP B - 12"	TWO THREE	16 16	16 -	CHECK, 2-8841B	80-82
		RESIDUAL HEAT REMOVAL RETURN B-10"	ONE	16	16	M.O. GATE, 2-8703	76-13
		RESIDUAL HEAT REMOVAL TAKE OFF A-8"	TWO THREE	16 16	16 16	M.O. GATE, 2-8701A M.O. GATE, 2-8702A	78-80 82-167
		RESIDUAL HEAT REMOVAL TAKE OFF B-8"	ONE ONE	16 16	16 16	M.O. GATE, 2-8701B M.O. GATE, 2-8702B	76-16 76-16
		SAFETY INJECTION HIGH HEAD A - 6"	TWO	12	12	CHECK, 2-8842A	80-166
		SAFETY INJECTION HIGH HEAD B - 6"	THREE	12	-		
		PRESSURIZER SPRAY LOOP A - 3"	THREE	8	-		
		LOOP B - 3"	ONE THREE	8 8	8 8	GLOBE(2-PCV-431B) GLOBE(2-PVC-431B)	76-28 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

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 2

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE SI.6

PAGE 3 OF 4

MAJOR ITEM: VALVE PRESSURE BOUNDARY

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
B6.9	B-G-2	(CONT'D)					
		RESISTANCE TEMPERATURE	ONE	2	2	2T58, 2RC-1-6	76-95
		DETECTOR TAKE OFF	TWO	2	2	2T58, 2RC-1-7	80-152
		COLD LEG A - 2"	THREE	2	-		
		RESISTANCE TEMPERATURE	TWO	2	2	2T58, 2RC-1-15	80-137
		DETECTOR TAKE OFF	TWO	2	2	2T58, 2RC-1-16	80-165
		COLD LEG B - 2"	THREE	2	-		
		RESISTANCE TEMPERATURE	TWO	2	2	2T58, 2RC-1-12	80-150
		DETECTOR TAKE OFF	TWO	2	2	2T58, 2RC-1-10	80-151
		HOT LEG A - 2"	THREE	2	-		
		RESISTANCE TEMPERATURE	ONE	2	2	2T58, 2RC-1-12	76-103
		DETECTOR TAKE OFF	TWO	2	2	2T58, 2RC-1-13	80-136
		HOT LEG B - 2"	THREE	2	-		
		PRESSURIZER RELIEF	ONE	12	12	M.O. GATE, 2-8000B	76-14
		LINES 3"	ONE	6	6	GLOBE, 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
		LOW HEAD B - 6"	ONE	12	12	CHECK, 2-8843B	76-36
			THREE	12	-		
		AUXILIARY SPRAY	THREE	6	-		
		CVCS - 2"					

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 2

INSERVICE INSPECTION-EXAMINATION SUMMARY

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

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
B6.0	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	76-259, 259R
		DRAIN LINE	ONE	2	2	2T58, 2RC-1-2	76-15
		ON CROSSOVER A - 2"	THREE	2	2	2T58, 2RC-1-1	82-258
		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

NORTHERN STATES POWER COMPANY
PRAIRIE ISLAND UNIT II
BASELINE COMPARISON SUMMARY

CLASS I

TABLE II
PAGE 1 OF 11

COMPONENT/SYSTEM	NSP ISO	NDF METHOD	W BASELINE IDENT.	REPORT NO.	BASELINE INDICATIONS	ISI INDICATIONS	EXAMINATION LIMITATIONS
<u>PRESSURIZER</u>							
B2.1 <u>LONGITUDINAL AND CIRCUMFERENTIAL WELDS</u>							
Longitudinal Welds	36	UT	W-1	82-251	None	None	None
		UT		82-197	None	None	None
		UT		82-217	None	None	None
	36	UT	W-1	82-251	None	None	None
		UT		82-197	None	None	None
		UT		82-217	None	None	None
Circumferential Welds	36	UT	W-3	82-252	None	None	None
		UT		82-198	None	None	S-1 & S-2 Limited at 0 inches - Insulation Lugs
		UT		82-216	None	S-1, Inclusion, 100% S-2, Inclusion, 35%	S-1 & S-2 Limited at 0 inches - Insulation Lugs
	36	UT	W-4	82-253	None	None	None
		UT		82-196	None	None	None
		UT		82-208	None	None	None
		UT	W-5	82-254	None	None	None
		UT		82-195	None	None	S-1 & S-2 Limited at 0 inches - Insulation Lugs
		UT		82-209	None	None	None

NORTHERN STATES POWER COMPANY
 PRAIRIE ISLAND UNIT II
 BASELINE COMPARISON SUMMARY

TABLE II
 PAGE 2 OF 11

COMPONENT/SYSTEM	NSP ISO	NDE METHOD	W BASELINE IDENT.	REPORT NO.	BASELINE INDICATIONS	ISI INDICATIONS	EXAMINATION LIMITATIONS
B2.4 <u>NOZZLE-TO-SAFE END WELDS</u>							
Relief Line	27	UT	W-1A S.E.	82-224	None	S-1, ID GEO., 30% S-2, ID GEO., 20%	Best Effort All Scans-Configuration
		UT		82-226	None	None	B.E. All Scans - Configuration
		PT		82-200	None	None	None
Spray Line	7C	UT	W-22A S.E.	82-225	None	S-1, ID GEO., 40% S-2, ID GEO., 40%	B.E. All Scans - Configuration
		UT		82-227	None	None	B.E. All Scans - Configuration
		PT		32-203	None	None	None
B2.8 <u>INTEGRALLY WELDED VESSEL SUPPORTS</u>							
Support Skirt	36	UT	W-6	82-231	None	None	NO S-1 Configuration
B2.11 <u>PRESSURE-RETAINING BOLTING</u>							
Manway Bolts	35	UT	Bolts 11-16	82-232	None	None	Top Only

NORTHERN STATES POWER COMPANY
PRAIRIE ISLAND UNIT II
BASELINE COMPARISON SUMMARY

TABLE II
PAGE 3 OF 11

COMPONENT/SYSTEM	NSP ISO	NDE METHOD	W BASELINE IDENT.	REPORT NO.	BASELINE INDICATIONS	1978 ISI INDICATIONS	EXAMINATION LIMITATIONS
STEAM GENERATORS B3.1 LONGITUDINAL AND CIRCUMFERENTIAL WELDS ON THE PRIMARY SIDE							
Steam Generator 21 Circumferential Weld	37	UT	W-A	82-265	None	None	Down Stream Scans 8-10" A-Dist. 19-21" CCW, 20-24" CW, 22-24" CW, 44-46" CW. 0-6" CCW @ 0-6 A-Dist Nameplate.
		UT		82-096	None	None	S-1,2,3,4 Limited @ Insulation Lugs & Nameplate Areas.
		UT		82-261	N/A	S-2 Small In- clusion 2" CW From 0°	S-2 Limited @ 8-10" A-Dist. From 19-21" CCW, 22-24" CW 44-46" CW due to in- sulation lugs.
Steam Generator 22 Circumferential Weld	37	UT	W-A	82-266	None	None	Limited 0-6" Due to I.D. Plate, 5-7" due to insulation lugs.
		UT		82-095	None	None	S-1,3,4, Limited @ 5-7", 6-13", 10-13"- insulation lugs.
		UT		82-256	N/A	S-3, Linear, 90% S-4, Linear, 200%	S-1,3,4 Limited @ 5-7", 6-13", 10-13"- insulation lugs.
		RT		82-271	None	None	None

NORTHERN STATES POWER COMPANY
 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
<u>B3.10 PRESSURE RETAINING BOLTING</u>							
Manway Bolts S/G #21	37	UT	Inlet	82-215	None	None	None
		MT	Inlet	82-213	None	None	None
		UT	Outlet	82-215	None	None	None
		MT	Outlet	82-213	None	None	None
Manway Bolts S/G #22	37	UT	Inlet	82-215	None	None	Two bolts holding in Air Movers, not Inspected. Two bolts holding in Air Movers, not inspected.
		MT	Inlet	82-213	None	None	
		UT	Outlet	82-215	None	None	
		MT	Outlet	82-213	None	None	
<u>REGENERATIVE HEAT EXCHANGER</u>							
<u>B3.1 LONGITUDINAL AND CIR- CUMFERENTIAL WELDS ON PRIMARY SIDE</u>							
Circumferential Weld	34	UT	W-3	82-086	None	None	Best Effort S-1, 2 @ 9:00 to 11:00 Branch Connection

NORTHERN STATES POWER COMPANY
 PRAIRIE ISLAND UNIT II
 BASELINE COMPARISON SUMMARY

TABLE II
 PAGE 5 OF 11

COMPONENT/SYSTEM	NSP ISO	NDE METHOD	W BASELINE IDENT.	REPORT NO.	BASELINE INDICATIONS	ISI INDICATIONS	EXAMINATION LIMITATIONS
<u>EXCESS LETDOWN HEAT EXCHANGER</u>							
B3.3 <u>LONGITUDINAL AND CIR- CUMFERENTIAL WELDS ON PRIMARY SIDE</u>							
Circumferential Weld	46	UT	W-1	82-087	N/A	S-3, ID Gouge @ 9:00, 45%	No S-1, 11:00 to 1:00 & 5:00 to 7:00 Branch No S-2 Flange
B3.10 <u>PRESSURE RETAINING BOLTING</u>							
Flange Bolts	46	VT	Flange Bolts	82-112	N/A	None	None
<u>PIPING</u>							
B4.1 <u>SAFE-END TO PIPING AND SAFE-END IN BRANCH PIPING WELDS</u>							
Relief Line	27	UT	W-1	82-222	None	S-2, ID, OD GEO., 20%	None
		PT		82-201	None	None	None
Spray Line	7C	UT	W-22	82-223	None	S-1, S-2, ID GEO., 30%	None
		PT		82-202	None	None	None

NORTHERN STATES POWER COMPANY
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
B4.5 CIRCUMFERENTIAL AND LONGITUDINAL PIPE WELDS							
Seal Injection A	1A	UT	W-3	82-077	None	None	No S-2 Flange
		UT	W-8	82-076	None	None	None
	1C	UT	W-52	82-230	None	S-1,OD GEO.,35%	Best Effort S-2,3,4 Elbow Inner Radius
		UT	W-53	82-229	None	S-1,ID GEO.,40% S-1,OD GEO.,45%	B.E. S-1,3,4 E.I.R
		UT	W-54	82-228	None	S-2,OD GEO.,35%	S-1 Limitation 12:00 & 6:00 Hanger S-2,3,4 B.E. E.I.R.
Seal Injection B	12C	UT	W-11	82-072	None	None	B.E. S-2,3,4, Reducer
		UT	W-16	82-073	None	S-1,ID GEO.360° 40% S-1,OD GEO.360° 40% S-2,OD GEO.360° 20%	B.E. S-1,3,4 3:00 to 9:00 E.I.R.
		UT	W-17	82-074	None	S-1,OD GEO.360°20% S-2,OD GEO.3:00 - 9:00, 20%	B.E. S-2,3,4 9:00 to 3:00 E.I.R
		UT	W-18	82-075	None	None	B.E. S-1,3,4 3:00 to 9:00 E.I.R
		UT	W-9	82-109	None	S-1,OD GEO.3:00, 20%	S-1 Best Effort "T"
Letdown and Drain Line	16	UT	W-13	82-110	None	S-1,OD GEO.3:00 to 6:00, 20%	S-2,3,4 B.E.3:00 to Elbow Inner Radius

NORTHERN STATES POWER COMPANY
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
Safety Injection High Head A	5	UT	W-7	82-108	None	S-2, OD GEO. @8:00, 20%	S-2, 3, 4 9:00 to 3:00 E.I.R.
Safety Injection High Head B	23	UT	W-2	82-262	None	None	Best Effort Scan From 4-8 Elbow Curvature. B.E. Scan 2 Configuration
Drain on Crossover A	2	UT	W-6	82-107	1/8"L @ 3 1/16" 80% 1/16"L @ 4 3/16" 85%	S-1, ID GEO. @2:00 20% S-2, ID GEO. @5:00, 20%	S-2, 3, 4 3:00 - 6 - 9:00 E.I.R.
Reactor Vessel Safety Injection Low Head A	25	UT	W-2	82-092	None	None	No S-2 Due to Reducer
Reactor Vessel Safety Injection Low Head B	26	UT	W-1	82-091	1/4"@ 1/2" 100% + 2dB	S-1, OD GEO. @9:00, 20%	No S-2 Reducer
Spray to Pressurizer Branch A	7C	UT	W-16	82-220	None	S-1, ID GEO., 30% S-1, OD GEO., 30% S-2, OD GEO., 30%	None
		UT	W-17	82-218	None	S-1, ID GEO., 60% S-2, ID GEO., 60%	None
Pressurizer Relief Line A	27	UT	W-5	82-221	None	None	No. S-2 Valve B.E. All Scans Config.
Residual Heat Removal Take Off A	10A	UT	W-2	82-078	None	S-2, OD GEO. 2:00, 50%, ID GEO. 4:00, 50%	None
		UT	W-3	82-079	None	S-1, ID GEO. 10:00 to 12:00, 30% S-2, ID GEO. @6:30, 50% OD GEO. @4:30, 50%	None
		UT	W-4	82-082	None	None	None

NORTHERN STATES POWER COMPANY
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
Residual Heat Removal Take Off B	20A	UT	W-5	82-083	None	None	S-2 Best Effort 10:00 to 2:00 Re- straint
		UT	W-6	82-084	None	S-2,0D GEO. @5:00, 50%	None
		UT	W-7	82-085	None	S-1,0D GEO. @7:00, 70%	S-2 B.E. 8:00 to 10:00 Restraint S-3,4 B.E. 5:00 to 7:00 & 8:00 to 10:00 Restraint
B4.7 BRANCH PIPE CONNECTION WELDS SIX INCH DIAMETER AND SMALLER							
Reactor Vessel Safety Injection Low Head B	26	PT	W-R	82-144	None	None	None
B4.8 SOCKET WELDS							
Seal Injection A	1A	PT	W-10	82-099	None	None	None
Seal Injection B	12C	PT	W-12	82-097	None	None	None
Safety Injection A	5	PT	W-8	82-145	None	None	None
Reactor Vessel Safety Injection Low Head B	26	PT	W-6	82-143	None	None	None
B4.9 INTEGRALLY WELDED SUPPORTS							
Spray to Pressurizer A	7C	UT	I,	82-219	None	S-1,0D GEO., 30%	None
		PT		82-204	None	S-2,0D GEO., 30%	None
		VT		82-206	None	None	None

NORTHERN STATES POWER COMPANY
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	
Residual Heat Removal Return B	21	UT	D,	82-123	None	None	None	
		PT		82-255	None	None	B.E. Undercut	
		VT		82-140	None	None	None	
Reactor Vessel Safety Injection A	29	UT	C,	82-098	None	None	None	
		PT		82-146	None	None	None	
		VT		82-139	None	None	None	
<u>B4.10 SUPPORT COMPONENTS</u>								
Seal Injection A	1B	VT	L	92-114	None	None	None	
		VT	M	82-116	None	None	None	
		VT	N	82-117	None	None	None	
		VT	O	82-113	None	None	None	
		VT	P	82-115	None	None	None	
Drain on Crossover A	2	VT	A	82-118	None	None	None	
		5	VT	A	82-257	None	None	None
			VT	P	82-205	None	None	None
Safety Injection High Head A	7B	VT	B	82-163	None	None	None	
		VT	C	82-162	None	None	None	
		VT	C1	82-161	None	None	None	
Spray to Pressurizer A	7D	VT	I	82-247	None	None	None	
		VT	J	82-155	None	None	None	
		VT	L	82-156	None	None	None	
Spray to Pressurizer B	10B	VT	M	82-157	None	None	None	
		VT	R	82-121	None	None	None	
		VT						
Residual Heat Removal Take Off A		VT						
		VT						
		VT						

NORTHERN STATES POWER COMPANY
PRAIRIE ISLAND UNIT II
BASELINE COMPARISON SUMMARY

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COMPONENT/SYSTEM	NSP ISO	NDE METHOD	W BASELINE IDENT.	REPORT NO.	BASELINE INDICATIONS	ISI INDICATIONS	EXAMINATION LIMITATIONS
Seal Injection B	10C	VT	V	82-154	None	None	None
	12B	VT	F	82-122	None	None	None
		VT	H	82-158	None	None	None
			I	82-119	None	None	None
			J	82-120	None	Missing Bolt - Drawing To Be Revised	None
Drain and Letdown	16	VT	A1	82-244	None	None	None
		VT	A2	82-245	None	None	None
Residual Heat Removal Take Off B	20A	VT	F	82-149	None	None	None
		VT	G	82-150	None	None	None
		VT	I	82-147	None	None	None
		VT	J	82-148	None	Loose Nut	None
		VT		82-148R	None	None - Nut Tightened	None
Pressurizer Relief	20C	VT	P	82-137	None	None	None
			P1	82-138	None	None	None
	27	VT	A	82-159	None	None	None
	28	VT	A	82-249	None	None	None
		VT	C	82-141	None	None	None
B4.12 PRESSURE RETAINING BOLTING							
Seal Injection B	12C	VT	Flange @ W-4	82-100	None	None	None

NORTHERN STATES POWER COMPANY
PRAIRIE ISLAND UNIT II
BASELINE COMPARISON SUMMARY

TABLE II
PAGE 11 OF 11

COMPONENT/SYSTEM	NSP ISO	NDE METHOD	W BASELINE IDENT.	REPORT NO.	BASELINE INDICATIONS	ISI INDICATIONS	EXAMINATION LIMITATIONS
B6.9 <u>PRESSURE RETAINING BOLTING</u>							
Residual Heat Removal Take Off A	10A	VT	2-8702A	82-167	None	None	None
Pressurizer Spray B	7D	VT	2-PCV-431B	82-166	None	None	None
Pressurizer Relief	27	VT	2-8000A	82-165	None	None	None
Drain on Crossover A	2	VT	2-RC-1	82-258	None	None	None
	16	VT	2-RC-4	82-259	None	Boric Acid	None
		VT		82-259R	None	None-Boric Acid Cleaned Off	None
Letdown Line	16	VT	2-LCV-428	82-164	None	None	None

APPENDIX B
ASME CLASS 2 EXAMINATION

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

TABLE III
PAGE 1 OF 3

NSP ISO NUMBER	REVISION	COMPONENT OR SYSTEM	LOOP	LINE SIZE	LINE NUMBER	UT - CAL. STANDARD
2-1SI-37	0	STEAM GENERATORS	A&B	-	-	26
2-1SI-46	0	MAIN STEAM (GENERAL VIEW)	A	-	-	-
2-1SI-46A	0		A	32"	32-2MS-1	NO. _____
2-1SI-46B	0		A	31"	31-2MS-1	24
				30"	30-2MS-1	23
				6"	6-2MS-1	7
2-1SI-47	0	MAIN STEAM (GENERAL VIEW)	B	-	-	-
2-1SI-47A	0		B	32"	32-2MS-2	NO. _____
2-1SI-47B	0		B	31"	31-2MS-2	24
				30"	30-2MS-2	23
				6"	6-2MS-2	7
2-1SI-48	0	FEEDWATER (GENERAL VIEW)	A	-	-	13/36
2-1SI-48A	0		A	16"	16-2FW-13	13
2-1SI-48B	0		A	16"	16-2FW-12	13
				16"	16-2FW-11	13
				8"	3-2AF-11	NO. _____
2-1SI-49	0	FEEDWATER (GENERAL VIEW)	B	-	-	13/36
2-1SI-49A	0		B	16"	16-2FW-16	13
2-1SI-49B	0		B	16"	16-2FW-15	13
				8"	3-2AF-12	NO. _____
2-1SI-50	0	RHR PUMP B SUCTION (WELDS)	B	10"	10-2RH-3	22
2-1SI-51	0	RHR PUMP B SUCTION (HANGERS)	B	8"	8-2RH-4B	29
			B	8"	8-2RH-5B	29
			B	12"	12-2RH-5B	32
			B	10"	10-2SI-9B	22
2-1SI-52	0	RHR PUMP A SUCTION (WELDS)	A	8"	8-2RH-4A	29
2-1SI-53	0	RHR PUMP A SUCTION (HANGERS)	A	8"	8-2RH-5A	29
			A	12"	12-2RH-5A	32
			A	10"	10-2SI-9A	22

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

TABLE III
PAGE 2 OF 3

NSP ISO NUMBER	REVISION	COMPONENT OR SYSTEM	LOOP	LINE SIZE	LINE NUMBER	UT - CAL. STANDARD
2-ISI-54	0	RHR PUMP B DISCHARGE (WELDS)	B	8"	8-2RH-7B	29
2-ISI-55	0	RHR PUMP B DISCHARGE (HANGERS)	B	8"	8-2RH-9B	29
			B	6"	6-2SI-10B	27
2-ISI-56	0	RHR PUMP A DISCHARGE (WELDS)	A	8"	8-2RH-7A	29
2-ISI-57	0	RHR PUMP A DISCHARGE (HANGERS)	A	8"	8-2RH-9A	29
			A	10"	10-2RH-11	22
			A	6"	6-2RH-12	27
2-ISI-58	0	CONTAINMENT SUMP B DISCHARGE (WELDS)	B	12"	12-2RH-6B	32
2-ISI-59	0	CONTAINMENT SUMP B DISCHARGE (HANGERS)	B	14"	14-2SI-33B	NO. _____
			B	12"	12-2SI-34B	NO. _____
2-ISI-60	0	CONTAINMENT SUMP B DISCHARGE (WELDS)	A	12"	12-2RH-6A	32
2-ISI-61	0	CONTAINMENT SUMP B DISCHARGE (HANGERS)	A	14"	14-2SI-33A	NO. _____
			A	12"	12-2SI-34A	NO. _____
2-ISI-62	0	SAFETY INJECTION PUMP 22 SUCTION (WELDS)	B	6"	6-2RH-10B	27
2-ISI-63	0	SAFETY INJECTION PUMP 22 SUCTION (HANGERS)				
2-ISI-64	0	SAFETY INJECTION PUMP 21 SUCTION (WELDS)	A	6"	6-2RH-10A	27
2-ISI-65	0	SAFETY INJECTION PUMP 21 SUCTION (HANGERS)				
2-ISI-66	0	REFUELING WATER STORAGE (WELDS)	-	14"	14-2SI-1	NO. _____
		TANK DISCHARGE		12"	12-2SI-3A	33
2-ISI-67	0	REFUELING WATER STORAGE (HANGERS)		12"	12-2SI-3B	33
		TANK DISCHARGE		12"	12-2SI-4	33
				10"	10-2SI-8	31
				12"	12-2SI-11	33
2-ISI-68	0	BORIC ACID SUPPLY TO (WELDS)	-	6"	6-2SI-13A	28
		SAFETY INJECTION		6"	6-2SI-13B	28
2-ISI-69	0	BORIC ACID SUPPLY TO (HANGERS)		8"	8-2SI-17	30
		SAFETY INJECTION		8"	8-2SI-18	30

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

TABLE III
PAGE 3 OF 3

NSP ISO NUMBER	REVISION	COMPONENT OR SYSTEM	LOOP	LINE SIZE	LINE NUMBER	UT - CAL. STANDARD
2-ISI-70	0	REACTOR VESSEL SAFETY INJECTION (WELDS)	B	6"	6-2SI-25B	6
2-ISI-71	0	REACTOR VESSEL SAFETY INJECTION (HANGERS)				
2-ISI-72	0	REACTOR VESSEL SAFETY INJECTION (WELDS)	A	6"	6-2SI-25A	6
2-ISI-73	0	REACTOR VESSEL SAFETY INJECTION (HANGERS)				
2-ISI-74	0	BORIC ACID SUPPLY (WELDS)	-	8"	8-2SI-18	30
2-ISI-75	0	ACCUMULATOR DISCHARGE (WELDS)	A	12"	12-2SI-28A	11
2-ISI-76	0	ACCUMULATOR DISCHARGE (HANGERS)	B	12"	12-2SI-29A	11
				12"	12-2SI-28B	11
				12"	12-2SI-29B	11

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	<u>CIRCUMFERENTIAL BUTT WELDS *</u>				*(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
		-	-	111"	-		
		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"			
C1.2	C-B	<u>NOZZLE TO VESSEL WELDS</u>					
		STEAM GENERATOR NO. 21					
		MAIN STEAM NOZZLE	-	-	-		
		FEEDWATER NOZZLE	-	-	-		
		STEAM GENERATOR NO. 22					
		MAIN STEAM NOZZLE	THREE	1	-		
C1.3	C-C	<u>INTEGRALLY WELDED SUPPORTS</u>	-	-	-	-NONE-	

NORTHERN STATES POWER CO.

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.
C1.4	C-D	<u>PRESSURE RETAINING BOLTING</u>					
		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.)	

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 2

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S2.1.2

PAGE 1 OF 1

MAJOR ITEM: PRESSURE VESSELS-ACCUMULATORS

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
C1.1	C-A	<u>CIRCUMFERENTIAL BUTT WELDS</u> *				*(3 AREAS, EQUALLY DIVIDED)	
		ACCUMULATOR NO. 21 WELD	THREE	20%	-		
		ACCUMULATOR NO. 22	-	-	-		
C1.2	C-B	<u>NOZZLE TO VESSEL WELDS</u>					
		ACCUMULATOR NO. 21	-	-	-		
		ACCUMULATOR NO. 22	-	-	-		
C1.3	C-C	<u>INTERNALLY-WELDED-SUPPORTS</u>					
		ACCUMULATOR NO. 21	-	-	-		
		ACCUMULATOR NO. 22	-	-	-		
C1.4	C-D	<u>PRESSURE-RETAINING-BOLTING</u>					
		ACCUMULATOR NO. 21	-	-	-		
		ACCUMULATOR NO. 22	THREE	24	-		

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 2

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S2.1.3

PAGE 1 OF 1

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	<u>CIRCUMFERENTIAL BUTT WELDS</u> *				*(3 AREAS EQUALLY DIVIDED)	
		RHR HEAT EXCHANGER NO. 21	-	-	-		
		RHR HEAT EXCHANGER NO. 22	-	-	-		
C1.2	C-B	<u>NOZZLE TO VESSEL WELDS</u>					
		RHR HEAT EXCHANGER NO. 21	-	-	-		
		RHR HEAT EXCHANGER NO. 23	-	-	-		
C1.3	C-C	<u>INTERNALLY WELDED SUPPORTS</u>					
		RHR HEAT EXCHANGER NO. 21	THREE	1	-		
		RHR HEAT EXCHANGER NO. 22	-	-	-		
C1.4	C-D	<u>PRESSURE RETAINING BOLTING</u>					
		RHR HEAT EXCHANGER NO. 21	-	-	-		
		RHR HEAT EXCHANGER NO. 22	THREE	1	1	28 FLANGE BOLTS	82-070

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 2

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S2.1.4

PAGE 1 OF 1

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	<u>CIRCUMFERENTIAL BUTT WELDS</u> *				*(3 AREAS EQUALLY DIVIDED)	
		BORIC ACID TANK NO. 21	-	-	-		
C1.2	C-B	<u>NOZZLE TO VESSEL WELDS</u>					
		BORIC ACID TANK NO. 21	-	-	-		
C1.3	C-C	<u>INTERNALLY WELDED SUPPORTS</u>					
		BORIC ACID TANK NO. 21	THREE	1	1	SUPPORT A	82-042,042R,043
C.14	C-D	<u>PRESSURE RETAINING BOLTS</u>					
		BORIC ACID TANK No. 21	THREE	16	16	BOLTS 1 THRU 16	82-069

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 2

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S2.2.1PAGE 1 OF 5

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

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 2

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S2.2.1

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MAJOR ITEM: PIPING-CIRCUMFERENTIAL BUTT WELDS

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
C2.1	C-G	(CONT'D)					
		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, 32, 35, 41, 41R
						FW-133	82-080, 080R, 088, 088A, 090, 090A
		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
		12-2SI-3B	-	-	-		
		12-2SI-11	THREE	1	1	W-37	82-044, 044A
		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
		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

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S2.2.1

PAGE 3 OF 5

MAJOR ITEM: PIPING-CIRCUMFERENTIAL BUTT WELDS

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
C2.1	C-G	(CONT'D)					
		12-2RH-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
		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	1	W-127	82-041,041A
		6-2SI-13B	TWO	1	1	W-271	79-52

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 2

INSERVICE INSPECTION- EXAMINATION SUMMARY

TABLE S2.2.1

PAGE 4 OF 5

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-17	-	-	-		
		8-2SI-18	THREE	6	5	W-2,26,32,34,40	82-060,060A,061,061A
			TWO	1	1	W-85	051,051A,050,050A,068 79-94
		RESIDUAL HEAT REMOVAL SUCTION					
		10-2SI-9A	TWO	1	1	W-212	79-54
		10-2SI-9B	TWO	1	1	W-143	79-55
		ACCUMULATOR DISCHARGE LINES					
		12-2SI-28A	-	-	-		
		12-2SI-28B	-	-	-		
		12-2SI-29A	-	-	-		
		12-2SI-29E	ONE	1	1	SI-316	77-49
C2.1	C-F	<u>RESIDUAL HEAT REMOVAL DISCHARGE</u>					
		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

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 2

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S2.2.1

PAGE 5 OF 5

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-4A	TWO	1	1	W-100	79-68
		8-2RH-4B	THREE	1	1	W-134	82-039
		1G-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
		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	SI-332	77-52
			TWO	1	1	W-349	81-65
			THREE	1	1	W-349	82-235
		6-2SI-25B	ONE	1	1	SI-26	77-46A

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT ²

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S2.2.2

PAGE 1 OF 1

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	<u>LONGITUDINAL WELD JOINTS IN FITTINGS</u>					
		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	-	-	-		
		SI PUMP SUCTION 12-2RH-6A	THREE	1	1	W-19 TO 20R	82-017
		REFUELING WATER STORAGE TANK DISCHARGE 12-2SI-4	THREE	1	1	W-68W TO 69W	82-004
		RHR PUMP DISCHARGE 10-2RH-11	THREE	2	2	W-176 TO 177 W-1411 TO 291	82-007 82-126

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S2.2.3

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PIPING-

MAJOR ITEM: 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)					

INSERVICE INSPECTION - EXAMINATION SUMMARY

TABLE S2.2.4

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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	<u>PRESSURE RETAINING BOLTING</u>	-	-	-	-NONE-	

NORTHERN STATES POWER CO.

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INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S2.2.6

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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	<u>INTEGRALLY WELDED SUPPORTS</u>					
		MAIN STEAM A	TWO	2	2	F,H,A	81-16,48,48R,14,74, 74R,16
		30-2MS-1	THREE	2	-		
		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	-		
		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

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT ²

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S2.2.6

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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)					
		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
						C	82-106
		REFUELING WATER STORAGE	THREE	1	1		
		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

NORTHERN STATES POWER CO.

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INSERVICE INSPECTION-EXAMINATION SUMMARY

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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	-	-	-		
		RESIDUAL HEAT REMOVAL DISCHARGE PUMP A 10-2RH-11	ONE THREE	1 1	1 -	L	77-115
		RESIDUAL HEAT REMOVAL DISCHARGE PUMP B 6-2S1-10B	-	-	-	-NONE-	
		RESIDUAL HEAT REMOVAL SUCTION PUMP B 10-2RH-3	ONE TWO	1 1	1 1	C E	77-118 79-37,40,40R
		8-2RH-4P	TWO THREE	1 1	1 -	J	79-36,39,39R
		REACTOR VESSEL SAFETY INJECTION A 6-2S1-25A	ONE TWO THREE	1 1 1	1 1 -	A B	77-109 81-27,49,49R
		REACTOR VESSEL SAFETY INJECTION B 6-2S1-25B	ONE	1	1	A	77-108

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 2

INSERVICE INSPECTION-EXAMINATION SUMMARY

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	<u>SUPPORT COMPONENTS</u>					
		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	-		
		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 THREE	2 1	2 -	D, G	80-4, 69
		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-1.	THREE	2	2	H, I	82-048, 047
		10-2SI-8 BRANCH	THREE	1	1	D	82-014
		BRANCH 2	-	-	-		

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 2

INSERVICE INSPECTION-EXAMINATION SUMMARY

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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)					
		SAFETY INJECTION PUMP NO. 21 SUCTION BRANCH 1 6-2RH-10A	-	-	-	-NONE-	
		BRANCH 2 6-2RH-10A	TWO THREE	1 1	1 -	E	79-46
		SAFETY INJECTION PUMP NO. 22 SUCTION BRANCH 1 6-2RH-10B-	-	-	-NONE-		
		BRANCH 2 6-2RH-10B	TWO THREE	1 1	1 -	A	79-33,33R
		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 TWO THREE	2 1 2	2 1 3	A,B F D,G,H	77-155 79-9 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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INSERVICE INSPECTION-EXAMINATION SUMMARY

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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	-	-	-		
		PUMP B					
		8-2RH-9B	THREE	1	1	L	82-257
		ACCUMULATOR DISCHARGE LINES					
		LINE A					
		12-2SI-28A	ONE	1	1	B	77-137
		12-2SI-29A	-	-	-		
		LINE B					
		12-2SI-28B	THREE	1	-		
		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-13E	-	-	-		
		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	

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 2

INSERVICE INSPECTION-EXAMINATION SUMMARY

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	INS'P. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
C2.6	C-E-2	(CONT'D) CONTAINMENT SUMP DISCHARGE LINES LINE A LINE B	THREE THREE	1 1	1 1	D E	82-049 82-054

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT ²

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S2.3

PAGE 1 OF 2

MAJOR ITEM: PUMPS

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
C3.1	C-G	<u>PUMP CASING WELDS</u> SAFETY 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	<u>PRESSURE RETAINING BOLTING</u> RHR PUMPS #21 FLANGE BOLTS #22 FLANGE BOLTS SAFETY INJECTION PUMPS #21 DISCH FLANGE BOLTS #22 DISCH FLANGE BOLTS #21 DRIVE END COVER #22 DRIVE END COVER #21 OUTBOARD COVER #22 OUTBOARD COVER	THREE - THREE - THREE THREE -	24 - 8 - 16 16 -	24 - 8 - 16 16 -	BOLTS, 1 THRU 24 BOLTS, 1 THRU 8 BOLTS, 1 THRU 16 BOLTS, 1 THRU 16	82-053 82-067 82-071 82-066

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	<u>INTEGRALLY WELDED SUPPORTS</u> RHR PUMPS #21 #22 SAFETY INJECTION PUMPS #21 #22	THREE THREE THREE	1 - 3 3	1 - 3 3	Q A, B, E C, D, F	82-008 82-027, 028, 029, 030 82-031, 032, 033, 034
C3.4	C-E-2	<u>SUPPORT COMPONENTS</u> RHR PUMPS #21 #22	THREE THREE	1 1	1 2	P E, F	82-009 82-015, 012
							LCD081982R19

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 2

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S2.4PAGE 1 OF 2

MAJOR ITEM: VALVES

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
C4.1	C-F AND C-G	<u>VALVE BODY WELDS</u>	-	-	-	-NONE-	
C4.2	C-D	<u>PRESSURE RETAINING BOLTING</u>					
		MAIN STEAM A 31-2MS-1	TWO	26 3(MIN)	26 26	(V) (UT)	81-9 81-9
		MAIN STEAM B 31-2MS-2	-	-	-		
		MAIN STEAM A (6") (OFF) RELIEF HDR 30-2MS-1	ONE	12 2(MIN)	12 2	(V) RS-21-11 (UT) RS-2-11	77-54 77-54
			TWO	12 2(MIN)	12 12	(V) RS-21-14 (UT) RS-21-14	81-73 81-73
		MAIN STEAM B (6") (OFF) RELIEF HDR 30-2MS-2	TWO	12 2(MIN)	12 12	(V) RS-21-20 (UT) RS-21-20	81-8 81-8
			THREE	24 4(MIN)	24 42	(V) RS-21-17, RS-21-19 (UT) RS-21-17, RS-21-19	82-211,210 82-211,210
		RESIDUAL HEAT REMOVAL PUMP A 6-2RH-12	-	-	-		
		PUMP B 6-2SI-10B	ONE	12 2(MIN)	12 2	(V) 2-8803B (UT) 2-8803B	77-63 77-63

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S2.4

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

NORTHERN STATES POWER COMPANY
PRAIRIE ISLAND UNIT II
BASELINE COMPARISON SUMMARY

CLASS II

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COMPONENT/SYSTEM	NSP ISO	NDE METHOD	W BASELINE IDENT.	REPORT NO.	BASELINE INDICATIONS	ISI INDICATIONS	EXAMINATION LIMITATIONS
STEAM GENERATOR							
C1.1 CIRCUMFERENTIAL BUTT WELDS							
S/G #21	37	UT	W-F	82-250	N/A	NONE	S-2,3,4 LIMITED @ 5', 17', 21', 28', 33', 40' INSULATION LUGS.
		UT		82-241	N/A	NONE	SAME AS ABOVE
		UT		82-243	N/A	NONE	SAME AS ABOVE
		MT		82-242	N/A	NONE	NONE
S/G #22	37	UT	W-F	82-268	N/A		S-2,3,4 LIMITED @ 6', 17', 29' 40' INSULATION LUGS & 13', 21', 25', VALVES.
		UT		82-267	N/A	SPOT INDICATION S-2 @ 12', 17' 5" & 20' 1"	SAME AS ABOVE
		UT		82-270	N/A	SPOT INDICATION S-1 @ 20' 2", 20' 6", & 22' 2"	SAME AS ABOVE
		MT		82-269	N/A	NONE	NONE
C1.4 PRESSURE RETAINING BOLTING							
SECONDARY MANWAY	37	VT	MANWAY A	82-237	STEAM GOUGES	NONE	NONE
S/G #21			MANWAY B	82-234	NONE	NONE	NONE

NORTHERN STATES POWER COMPANY
PRAIRIE ISLAND UNIT II
BASELINE COMPARISON SUMMARY

CLASS II

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COMPONENT/SYSTEM	NSP ISO	NDE METHOD	W BASELINE IDENT.	REPORT NO.	BASELINE INDICATIONS	ISI INDICATIONS	EXAMINATION LIMITATIONS
C1.4 <u>Cont'd</u>							
SECONDARY MANWAY S/G #22	37	VT	MANWAY A	82-239	STEAM GOUGE	NONE	2 BOLTS HOLDING IN AIR MOVER, NOT EXAMINED
		VT	MANWAY B	82-238	STEAM GOUGE	NONE	2 BOLTS HOLDING IN AIR MOVER, NOT EXAMINED
<u>RESIDUAL HEAT REMOVAL HEAT EXCHANGER</u>							
C1.4 <u>PRESSURE RETAINING BOLTING</u>							
HEAT EXCHANGER No. 22	69	UT	FLANGE BOLTS	82-070	N/A	NONE	NONE
<u>BORIC ACID TANKS</u>							
C1.3 <u>INTEGRALLY WELDED SUPPORTS</u>							
TANK NO. 21	68	PT	SUPPORT A	82-042 82-042R	N/A N/A	1/4" LINEARS (3) NONE-INDICATIONS BUFFED OUT	NONE NONE
		VT		82-043	N/A	NONE	NONE

NORTHERN STATES POWER COMPANY
PRAIRIE ISLAND UNIT II
BASELINE COMPARISON SUMMARY

CLASS II

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COMPONENT/SYSTEM	NSP ISO	NDE METHOD	W BASELINE IDENT.	REPORT NO.	BASELINE INDICATIONS	ISI INDICATIONS	EXAMINATION LIMITATIONS
C1.4 <u>PRESSURE RETAINING BOLTING</u>							
Tank No. 21 Manway Bolts	6B	UT	8 Manway Bolts	82-069	N/A	None	None
<u>PIPING</u>							
C2.1 <u>CIRCUMFERENTIAL BUTT WELDS</u>							
Main Steam A	46A	UT	MS-15	82-124	N/A	S-1, ID GEO., 42%	S-1,2,3,4 Restrict- ed @ 12:00, Restraint
		MT		82-136	N/A	None	None
Feedwater A	48A	UT	FW-177	82-089	S-1 I.D. GEO. 360° 90% S-2 OD GEO. @ 6:00 & 9:00 60%	S-2, ID GEO. 60% S-2, OD GEO. 50% S-3, ID GEO. @ 6:00 20% S-4, ID GEO. @ 6:00 25%	No S-2 Different Calibration S-1 Limited @ 12:00 Gamma Plug
		UT		82-089A	N/A	S-1, ID GEO. 90% S-1, OD GEO. 90% S-2, ID GEO. 75% S-2, OD GEO. 75%	S-1 Limited @ 12:00 Gamma Plug
		UT		82-081	N/A	S-1, ID GEO. 75% S-1, OD GEO. 50%	No. S-2 Different Calibration S-1 Limited @ 12:00 Gamma Plug
		UT		82-081A	N/A	S-1, ID GEO. 70% S-2, ID GEO. 60%	S-1 Limited @ 12:00 Gamma Plug
		MT		82-094	Linears	None	None

NORTHERN STATES POWER COMPANY
PRAIRIE ISLAND UNIT II
BASELINE COMPARISON SUMMARY

CLASS II

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COMPONENT/SYSTEM	NSP ISO	NDE METHOD	W BASELINE IDENT.	REPORT NO.	BASELINE INDICATIONS	ISI INDICATIONS	EXAMINATION LIMITATIONS
C2.1 Cont'd							
Feedwater B	49A	UT	FW-133	82-088	S-1 ID GEO. 360 90% S-2 ID GEO. 360 60%	S-1, ID GEO. 80% S-1, OD GEO. 50%	No S-2 Different Calibration
		UT		82-088A		S-1, ID, OD GEO. 90% S-1, ID GEO. 60% S-2, ID GEO. 80% S-2, OD GEO. 90% S-3, ID GEO. @6:00 30% S-4, ID GEO. @6:00 40%	None
		UT		82-090	N/A	S-1, ID GEO. 85% S-2, OD GEO. 80% 2 Linears None - Indications Buffed Out	No S-1 Different Calibration
		UT		82-090A	N/A		None
		MT		82-080 82-080R	Linears N/A		None None
RESIDUAL HEAT REMOVAL PUMP SUCTION	50	UT	W-123	82-001	N/A	None	None
		UT	W-120	82-002	N/A	None	No S-1, Penetration
		UT	W-153	82-035	N/A	S-1 OD GEO. 45%/50%	No S-2, Pump
		UT	W-153L.S.	82-035A	N/A	S-5 OD GEO. 50% S-6 OD GEO. 50%	
		UT	W-139	82-036	N/A	None-Undercut 1/16" Depth	None
		UT	W-139L.S.	82-036A	N/A	None	C.E. - Reducer

NORTHERN STATES POWER COMPANY
PRAIRIE ISLAND UNIT II
BASELINE COMPARISON SUMMARY

CLASS II

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COMPONENT/SYSTEM	NSP ISO	NDE METHOD	W BASELINE IDENT.	REPORT NO.	BASELINE INDICATIONS	ISI INDICATIONS	EXAMINATION LIMITATIONS
C2.1 (Cont'd)							
Residual Heat Removal Pump Suction	50	UT	W-134	82-039	N/A	None	No S-2, Valve, B.E. S-1 10:00 to 2:00. Elbow Inner Radius
	52	UT	W-119	82-052	N/A	None	No S-2, Pump
		UT	W-119L.S.	82-052A	N/A	S-5 OD GEO. 30% S-6 OD GEO. 30%	None
Residual Heat Removal Pump Discharge	54	UT	W-90	82-026	N/A	None	None
		UT	W-90L.S.	82-026A	N/A	None	None
		UT	W-96	82-025	N/A	None	None
		UT	W-97	82-256	N/A	None	None
	56	UT	W-177	82-006	N/A	None	No S-1 9:00 to 3:00 Restraint
		UT	W-178	82-003	N/A	None	No S-2, Penetration
		UT	W-1411	82-127	N/A	S-1 ID GEO. 20% S-1 OD GEO. 20%	B.E.-Weld 290W
		UT	W-192	82-046	N/A	None	None
	54	UT	W-71	82-024	N/A	None	None
	56	UT	W-154	82-045	N/A	None	None
Safety Injection Pump Suction	59	UT	W-18	82-018	N/A	None	No S-1, Valve
		UT	W-18 L.S.	82-018A		None	None

NORTHERN STATES POWER COMPANY
PRAIRIE ISLAND UNIT II
BASELINE COMPARISON SUMMARY

CLASS II

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COMPONENT/SYSTEM	NSP ISO	NDE METHOD	W BASELINE IDENT.	REPORT NO.	BASELINE INDICATIONS	ISI INDICATIONS	EXAMINATION LIMITATIONS
C2.1 (Cont'd)							
Safety Injection Pump Suction	62	UT	W-148	82-038	N/A	S-1 ID GEO. 9:00 to 12:00 30%	No S-2, Valve
			W-157	82-062	N/A	None- Arc Strikes	None
Boric Acid Supply to Safety Injection	64	UT	W-108	82-037	N/A	S-1 ID GEO. 9:00 to 12:00 30%	No S-2, Valve
	60	UT	W-127	82-041	N/A	None	No S-2, Flange
			W-127L.S.	82-041A	N/A	None	None
	61	UT	W-37	82-044	N/A	None	Heat Trace @ 10:00
			W-37L.S.	82-044A	N/A	None	None
		UT	W-2	82-060	N/A	None	Heat Trace @ 3:00 & 9:00 Restricted
			W-2L.S.	82-060A	N/A	None	All Scans S-5,6,7,8 H.T. @ 3:00 & 9:00
		UT	W-26	82-061	N/A	None	No S-2, Valve, All Scans Restricted, H.T. @ 3:00 & 9:00. Drain @ 6:00
			W-26L.S.	82-061A	N/A	None	9" only, Support
		UT	W-32	82-051	N/A	None	No S-1, Valve. Heat Trace @ 3:00 & 9:00
			W-32L.S.	82-051A	N/A	None	S-1,2,3,4. Drain @ 6:00 None

NORTHERN STATES POWER COMPANY
PRAIRIE ISLAND UNIT II
BASELINE COMPARISON SUMMARY

CLASS II

TABLE II
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COMPONENT/SYSTEM	NSP ISO	NDE METHOD	W BASELINE IDENT.	REPORT NO.	BASELINE INDICATIONS	ISI INDICATIONS	EXAMINATION LIMITATIONS
C2.1 (Cont'd)							
	61	UT	W-34	82-050	N/A	None	No S-1, Valve, H.T. @ 3:00 & 9:00
			W-34L.S.	82-050A	N/A	None	None
	74	UT	W-4G+ L.S.	82-068	N/A	None	No S-1, Valve, H.T. @ 6:00 & 12:00
Refueling Water Storage Tank Discharge	66	UT	W-49	82-040	N/A	S-2 I.D. Geo.- 360° 30%	No S-1, Valve
				82-040A	N/A	None	None
		UT	W-69W	82-005	N/A	Intermittent Geo. 360° 90%, 3.2Div	None
		UT	W-75+ L.S.	82-016	N/A	Gauge - L.S.	No S-2, Valve
Reactor Vessel Safety Injection	72	UT	W-349	82-235	S-1 O.D. Geo. @ 7:00 & 10:00 40%	S-1 OD Geo 40% S-2 ID Geo. @ 6:00 25%	No S-2, Valve
C2.2 LONGITUDINAL WELD JOINTS IN FITTINGS							
Safety Injection Pump Suction		UT	W-19 to 20R	82-017	N/A	None	None
Residual Heat Removal Pump Discharge	56	UT	W-176 to 177	82-007	N/A	None	None
			W-1411 to 291	82-126	N/A	None	None
Refueling Water Storage Tank Discharge	66	UT	W-62W to 69W	82-004	N/A	None	None

NORTHERN STATES POWER COMPANY
PRAIRIE ISLAND UNIT II
BASELINE COMPARISON SUMMARY

CLASS II

TABLE II
PAGE 8 OF 12

COMPONENT/SYSTEM	NSP ISO	NDE METHOD	W BASELINE IDENT.	REPORT NO.	BASELINE INDICATIONS	ISI INDICATIONS	EXAMINATION LIMITATIONS
C2.5 INTEGRALLY WELDED SUPPORTS							
Main Steam B	47A	MT	B	32-214	N/A	None	Middle Web Not Accessible
		VT		82-184	N/A	None	
		VT	G	82-102	N/A	None	Limited Visual- Encapsulation Ring
		MT	J	82-125	N/A	None	None
		VT		82-101	N/A	None	None
	47B	MT	K	82-160	N/A	None	None
		VT		82-199	N/A	None	None
Feedwater A	48A	MT	F	82-135	None	None	None
		VT		32-103	None	None	None
		MT	I	82-134	None	None	None
		VT		82-104	None	None	None
		MT	J	82-133	Base Plate Not Flush	None	None
		VT		82-105	None	None	None
Feedwater B	49A	VT	C	82-106	None	None	Limited Visibility Due to Encapsula- tion
Safety Injection Pump Suction	63	PT	E	82-019	N/A	None	None
		VT		82-021	N/A	Loose Nut	None
				82-021R	N/A	None-Nut Tightened	None

NORTHERN STATES POWER COMPANY
PRAIRIE ISLAND UNIT II
BASELINE COMPARISON SUMMARY

CLASS II

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COMPONENT/SYSTEM	NSP ISO	NDE METHOD	W BASELINE IDENT.	REPORT NO.	BASELINE INDICATIONS	ISI INDICATIONS	EXAMINATION LIMITATIONS
<u>C2.6 SUPPORT COMPONENTS</u>							
Main Steam B	47B	VT	Q	82-207	N/A	None	None
Residual Heat Removal Pump Suction	51	VT	D1	82-020	N/A	None	None
		VT	G	82-022	N/A	None	None
		VT	H	82-023	N/A	None	None
		VT	L	82-013	N/A	None	None
		VT	N	82-010	N/A	None	None
Residual Heat Removal Pump Discharge	53	VT	D	82-011	N/A	None	None
	55	VT	B	82-065	N/A	None	None
	57	VT	A	82-064	N/A	None	None
	55	VT	L	82-257	N/A	None	None
	57	VT	H	82-048	N/A	None	None
	55	VT	I	82-063	N/A	None	None
	57	VT	I	82-047	N/A	None	None

NORTHERN STATES POWER COMPANY
 PRAIRIE ISLAND UNIT II
 BASELINE COMPARISON SUMMARY

CLASS II

TABLE II
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COMPONENT/SYSTEM	NSP ISO	NDE METHOD	<u>W</u> BASELINE IDENT.	REPORT NO.	BASELINE INDICATIONS	ISI INDICATIONS	EXAMINATION LIMITATIONS
C2.6 (Cont'd)							
Containment Sump B Discharge Lines	58	VT	E	82-054	N/A	None	None
	59	VT	D	82-049	N/A	None	None
Boric Acid Supply To Safety Injection	61	VT	C	82-059	N/A	None	None
		VT	E	82-055	N/A	None	None
		VT	F	82-056	N/A	None	None
		VT	I	82-057	N/A	None	None
		VT	N	82-058	N/A	None	None
Refueling Water Storage Tank Discharge	67	VT	D	82-014	N/A	None	None
C3.2 <u>PRESSURE RETAINING BOLTING</u>							
Residual Heat Removal Pumps							
#21 Pump	52	UT	Flange Bolts	82-053	N/A	None	None
Safety Injection Pumps							
#21 Discharge Flange Bolts	60	UT	Bolts	82-067	N/A	None	Bolts 2,3,6,7 S-1
#22 Drive End Cover Bolts	60	UT	Bolts	82-071	N/A	None	None

NORTHERN STATES POWER COMPANY
PRAIRIE ISLAND UNIT II
BASELINE COMPARISON SUMMARY

TABLE II
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CLASS II

COMPONENT/SYSTEM	NSP ISO	NL ? METROD	W BASELINE IDENT.	REPORT NO.	BASELINE INDICATIONS	ISI INDICATIONS	EXAMINATION LIMITATIONS
C3.2 (Cont'd) #21 Outboard End Cover Bolts	60	UT	Bolts	82-066	N/A	None	None
C3.3 INTEGRALLY WELDED SUPPORTS							
Residual Heat Removal Pumps							
#21 Welded Base	53	PT	Q	82-008	N/A	None	None
Safety Injection Pumps							
#21 Supports	60	MT VT	A	82-028 82-027	N/A N/A	None None	None None
		MT VT	B	82-029 82-027	N/A N/A	None None	None None
		MT VT	E	82-030 82-027	N/A N/A	None None	None None
		MT VT	C	82-032 82-031	N/A N/A	None None	None None
		MT VT	D	82-033 82-031	N/A N/A	None None	None None
		MT VT	F	82-034 82-031	N/A N/A	None None	None None
#22 Supports							

NORTHERN STATES POWER COMPANY
PRAIRIE ISLAND UNIT II
BASELINE COMPARISON SUMMARY

CLASS II

TABLE II
PAGE 12 OF 12

COMPONENT/SYSTEM	NSP ISO	NDE METHOD	W BASELINE IDENT.	REPORT NO.	BASELINE INDICATIONS	ISI INDICATIONS	EXAMINATION LIMITATIONS
<u>C3.4 SUPPORT COMPONENTS</u>							
Residual Heat Removal Pumps							
#21 Support	51	VT	P	82-009	N/A	None	None
#22 Support	53	VT	E	82-015	N/A	None	None
		VT	F	82-012	N/A	None	None
<u>C4.2 PRESSURE RETAINING BOLTING</u>							
Main Steam d	47B	UT	RS-21-17	82-211	N/A	None	None
		UT	RS-21-19	82-210	N/A	None	None
Accumulator Discharge	75	UT	2-8800A	82-236	N/A	None	None

APPENDIX C
FSAR AUGMENTED EXAMINATION

NORTHERN STATES POWER CO.
PRAIRIE ISLAND UNIT
ISOMETRIC SUMMARY

TABLE III
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NSP ISO NUMBER	REVISION	COMPONENT OR SYSTEM	LOOP	LINE SIZE	LINE NUMBER	UT - CAL. STANDARD
2-ISI-46	0	MAIN STEAM (GENERAL VIEW)	A	-	-	-
2-ISI-46B	0		A	31"	31-2MS-1	24
2-ISI-46C	0		A	30"	30-2MS-1	23
2-ISI-46D	0		A	30"	30-2MS-3	23
				24"	24-2MS-21	20
				12"	12-2MS-3	NO. _____
				8"	8-2MS-21	9
				6"	6-2MS-1	7
2-ISI-47	0	MAIN STEAM (GENERAL VIEW)	B	-	-	-
2-ISI-47B	0		B	31"	31-2MS-2	24
2-ISI-47C	0		B	30"	30-2MS-2	23
				30"	30-2MS-4	23
				24"	24-2MS-24	20
				12"	12-2MS-4	NO. _____
				6"	6-MS-2	7
2-ISI-48	0	FEEDWATER (GENERAL VIEW)	A	-	-	-
2-ISI-48B	0		A	16"	16-2FW-12	13
2-ISI-48C	0		A	16"	16-2FW-11	13
				16"	16-2FW-9	13
				16"	16-2FW-8	13
2-ISI-49	0	FEEDWATER (GENERAL VIEW)	B	-	-	-
2-ISI-49B	0		B	16"	16-2FW-15	13
2-ISI-49C	0		B	16"	16-2FW-14	13
				16"	16-2FW-10	13
				16"	16-2FW-8	13

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 2

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE FSAR

PAGE 1 OF 3

MAJOR ITEM: PIPING

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
C2.1	C-G	<u>CIRCUMFERENTIAL BUTT WELDS</u>					*INDICATES WELD JOINTS ARE CATE- GORIZED AS ASME CLASS 2
		MAIN STEAM A 31-2MS-1	ONE	1	1	MS-17*	77-101,31
			TWO	1	1	MS-21*	78-11,89
			THREE	2	2	MS-18,174	82-179,191,170,177
		MAIN STEAM B 31-2MS-2	-	-	-		
		MAIN STEAM A RELIEF HDR., 30-2MS-1	ONE	1	1	MS-188*	77-99,15
			TWO	1	1	MS-185*	78-8,36
		MAIN STEAM B RELIEF HDR., 30-2MS-2	THREE	1	1	MS-181	82-176,180
		MAIN STEAM A 30-2MS-1	ONE	1	1	MS-47	77-102,29
		30-2MS-3	TWO	1	1	MS-39*	78-7,88
			THREE	1	1	MS-50	82-153,178
		MAIN STEAM B 30-2MS-2	TWO	1	1	MS-126	78-4,37
		30-2MS-4	THREE	1	1	MS-127	82-132,187
		MAIN STEAM A 24-2MS-21	TWO	1	1	MS-58	78-6,98
		MAIN STEAM B 24-2MS-24	ONE	1	1	MS-133	77-94,36
			THREE	1	1	MS-134	82-174,233
		MAIN STEAM A 8-2MS-21	TWO	1	1	MS-63	78-5,96
		MAIN STEAM B 8-2MS-24	THREE	1	1	MS-138	82-173,183

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 2

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE FSAR

PAGE 2 OF 3MAJOR ITEM: PIPING

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)					
		MAIN STEAM A 6-2MS-1 5-2MS-1	TWO	1	1	MS-36*	78-10,97
		MAIN STEAM B 6-2MS-2 5-2MS-2	ONE THREE	1 1	1 1	MS-113* MS-112	77-96,37 82-172,182
		FEEDWATER A 16-2FW-8	ONE TWO THREE	1 1 3	1 1 3	FW-151 FW-148 FW-137 FW-143,145	77-98,2 78-2,75 82-131,175,175R,246 82-189,142,169,169R, 151
		FEEDWATER B 16-2FW-8	TWO THREE	1 2	1 2	FW-105 FW-110,111	78-1,76 82-130,188,129,190
		FEEDWATER A 16-2FW-9 16-2FW-11 16-2FW-12	ONE THREE	1 1	1 1	FW-152 FW-159	77-98,1 82-168,152
		FEEDWATER A 16-2FW-10 16-2FW-15	ONE THREE	1 1	1 1	FW-116* FW-201	77-97,3 82-128,186
C2.2	C-G	<u>LONGITUDINAL WELD JOINTS IN FITTINGS</u>					
		MAIN STEAM A 31-2MS-1	ONE THREE	1 1	1 1	MS-17 TO MS-18 MS-20 TO MS-21	77-30,93,93R 82-171,192

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 2

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE FSAR

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MAJOR ITEM: PIPING

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	(CONT'D)					
		MAIN STEAM B 31-2MS-2	-	-	-		
		MAIN STEAM A RELIEF HDR., 30-2MS-1	-	-	-		
		MAIN STEAM B RELIEF HDR., 30-2MS-2	TWO	1	1	MS-182 TO MS-183*	78-32,87
		MAIN STEAM A 30-2MS-1	TWO	1	1	MS-46 TO MS-47	78-33,86
		30-2MS-3					
		MAIN STEAM B 30-2MS-2	ONE	1	1	MS-121 TO MS-122	77-95,14
		30-2MS-4					
C2.3	C-G	<u>BRANCH PIPE TO PIPE</u> <u>WELD JOINTS</u>					
		MAIN STEAM A RELIEF HDR., 30-2MS-1	ONE	1	1	MS-186A*	77-100,16
		(AT 12") 30-2MS-1	TWO	1	1	MS-185A*	78-9,35
			THREE	1	-		
		MAIN STEAM B RELIEF HDR., 30-2MS-2	THREE	1	1	MS-101 TO 182 TO 182A	82-181,193,194
		(AT 12") 30-2MS-2	TWO	1	1	MS-120A	78-3,34
		MAIN STEAM A 24-2MS-21	-	-	-		
		MAIN STEAM B 24-2MS-24	THRE	1	1	MS-123 TO MS-126	82-185,240

NORTHERN STATES POWER COMPANY
PRAIRIE ISLAND UNIT II
BASELINE COMPARISON SUMMARY

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TABLE II
PAGE 1 OF 4

COMPONENT./SYSTEM	NSP ISO	NDE METHOD	W BASELINE IDENT.	REPORT NO.	BASELINE INDICATIONS	ISI INDICATIONS	EXAMINATION LIMITATIONS
C2.1 CIRCUMFERENTIAL BUTT WELDS	46B	UT	MS-18 +L.S.	82-179	None	S-1 ID Geo. 20%	S-2 Restricted @ 6:00 Restraint
		MT		82-191	None	None	None
		UT	MS-174+L.S.	82-170	None	S-1 ID Geo. 30% S-2 ID Geo. 20%	None
		MT		82-177	None	None	None
	46C	UT	MS-50	82-153	N/A	S-1 ID Geo. 20%	S-1,2,3,4 Restrict- ed @ 12:00 Gamma Plug
		MT		82-178	N/A	None	None
	47B	UT	MS-181+L.S.	82-180	None	S-2 ID Geo. 9:00 to 12:00 20%	Best Effort S-2 Cap B.E. S-1 12:00 Branch
		MT		82-176	None	None	None
	47C	UT	MS-127+L.S.	82-132	N/A	S-1 ID Geo. 20% S-2 ID Geo. 20%	S-1,2,3,4 Restrict- ed @ 9:00 Gamma Plug
		MT		82-187	N/A	None	None
Main Steam A		UT	MS-134	82-233	None	None	None
Main Steam B							

NORTHERN STATES POWER COMPANY
PRAIRIE ISLAND UNIT II
BASELINE COMPARISON SUMMARY

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TABLE II
PAGE 2 OF 4

COMPONENT/SYSTEM	NSP ISO	NDE METHOD	W BASELINE IDENT.	REPORT NO.	BASELINE INDICATIONS	ISI INDICATIONS	EXAMINATION LIMITATIONS
C2.1 (Cont'd)							
Main Steam B	47C	MT	MS-134	82-174	None	None	None
		UT	MS-138	82-183	None	None	Best Effort All Scans Due To Valve
		MT		82-173	None	VT-Gouge	None
	47B	UT	MS-112	82-182	None	None	None
		MT		82-172	None	None	None
Feedwater A	48C	UT	FW-137	82-131	N/A	S-1 ID Geo. 40% S-2 ID Geo. 30%	S-1 Limited @ 12:00 Gamma Plug
		MT		82-175	N/A	1-Linear	None
		MT		82-175R	N/A	None-Indication Buffed Out	None
		MT	FW-137B.M.	82-246	N/A	None	None-Base Metal
	48C	UT	FW-143	82-142	N/A	None	S-2 Limited to 1 1/2" @ 12:00
		MT		82-189	N/A	None	None
	48C	UT	FW-145	82-151	N/A	S-1 ID Geo. 11:00 To 3:00 25% S-2 ID Geo. 9:00 To 3:00 20%	S-2 Limited @ 12:00 Gamma Plug
		MT		82-169	N/A	2-Linear	None
		MT		82-169R	N/A	None - Indica- tions Buffed Out	None

NORTHERN STATES POWER COMPANY
PRAIRIE ISLAND UNIT II
BASELINE COMPARISON SUMMARY

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TABLE II
PAGE 3 OF 4

COMPONENT/SYSTEM	NSP ISO	NDE METHOD	W BASELINE IDENT.	REPORT NO.	BASELINE INDICATIONS	ISI INDICATIONS	EXAMINATION LIMITATIONS
C2.1 (Cont'd)							
	48B	UT	FW-159	82-152	None	S-1 ID Geo. 25% S-2 OD Geo. 50%	None
		MT		82-168	None	None	None
Feedwater B	49B	UT	FW-110	82-130	None	S-1 ID Geo. 9:00 90% S-2 OD Geo. 50%	None
		MT		82-188	None	None	None
	49B	UT	FW-111	82-129	None	S-1 ID Geo. 75% S-2 ID Geo. 70%	S-1 Limited @ 3:00 Gamma Plug
		MT		82-190	None	None	None
	49B	UT	FW-201	82-128	None	S-1 ID Geo. 40% S-2 OD Geo. 30%	None
		MT		82-186	None		None
C2.2 LONGITUDINAL WELD JOINTS IN FITTINGS							
Main Steam A	46B	UT	MS-20 To MS-21	82-171	N/A	None	No S-1,2,3,4 2" Restriction @ MS-20
		MT		82-192	N/A	Gouge	None
Main Steam B	47B	UT	MS-101 To 182 To 182A	82-181	N/A	None	Best Effort All Scans @ 12:00 Restraint. B.E. "T"
		MT		82-193 82-194	N/A N/A	None None	None None

NORTHERN STATES POWER COMPANY
PRAIRIE ISLAND UNIT II
BASELINE COMPARISON SUMMARY

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TABLE II
PAGE 4 OF 4

COMPONENT/SYSTEM	NSP ISO	NDE METHOD	W BASELINE IDENT.	REPORT NO.	BASELINE INDICATIONS	ISI INDICATIONS	EXAMINATION LIMITATIONS
C2.2 (Cont'd) Main Steam B	47C	UT MT	MS-123 To MS-126	82-240 82-185	N/A N/A	None None	Restricted Approx. 3" - No Scans. None

APPENDIX D
SEISMIC BOLTING EXAMINATION

Table III

PAGE 1 OF 1

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	-
2-ISI-88	0	PRESSURIZER BASE	-	-	-	-
2-ISI-89	0	ACCUMULATOR BASE	A&B	-	-	-

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 2

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE SB

PAGE 1 OF 6

MAJOR ITEM: SEISMIC BOLTING

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
N/A	N/A	<u>STEAM GENERATORS</u>					
		<u>STEAM GENERATOR NO. 21</u>					
		UPPER RING GIRDER (SNUBBER PINS)	ONE	2	2	SNUBBER 1	77-72
			TWO	2	2	SNUBBER 2	80-18C
			THREE	4	-	SNUBBER 1 THRU 4	81-97
		UPPER RING GIRDER (SNUBBER WALL BOLTS)	ONE	5	5	TOP ROW	77-143
			TWO	5	5	CENTER ROW	80-110
			THREE	5	15	ALL BOLTS	81-106
		UPPER RING GIRDER (SNUBBER BOLTS)	ONE	8	8	TOP ROW ON GIRDER	77-143
			TWO	8	8	TOP ROW ON WALL	80-176
			THREE	16	32	ALL BOLTS	81-98
		UPPER RING GIRDER (RING CONNECT BOLTS)	ONE	10	10	RING CON. 2	77-159
			TWO	10	10	RING CON. 1	80-110
			THREE	20	40	PAD 1 THRU 4	81-119, 114, 114R
		UPPER RING GIRDER (RING WALL BOLTS)	ONE	10	10	10 EXAMINED	77-159
			TWO	10	10	10 EXAMINED	80-110
			THREE	10	30	PAD 1 THRU 4	81-107, 108, 109, 110
					-	(REPEAT INSP.)	
		COLUMN PINS	ONE	2	2	BOT COL 1/TOP COL 4	77-69, 70
			TWO	2	2	BOT & TOP COL 2	80-182
			THREE	4	-	COLUMN 1 THRU 4	81-135
						TOP & BOTTOM	

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)					
		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	-		
		TOP COLUMN	ONE	4	4	TOP OF COLUMN 1	77-165
		CONNECTING BOLTS	TWO	4	4	TOP OF COLUMN 2	80-173
					16	TOP OF COLUMN 1 THRU 4	81-136, 149
			THREE	8	-		
		UPPER RING GIRDER (SPRING HANGER)			2	SGH-2, SGH-4	81-111, 112
		SUPPORT PAD	ONE	6	6	COLUMN 1	77-62
		HELI-COIL SCREWS	TWO	6	6	COLUMN 2	80-183
					24	ALL HELICOIL SCREWS	81-122
			THREE	12	24	ALL HELICOIL SCREWS	82-111
		<u>STEAM GENERATOR NO. 22</u>					
		UPPER RING GIRDER	ONE	2	2	SNUBBER 1	77-71
		(SNUBBER PINS)	TWO	2	2	SNUBBER 2	80-180
					8	SNUBBER 1 THRU 4	81-96
			THREE	4	-		
		UPPER RING GIRDER	ONE	5	5	TOP ROW	77-142
		(SNUBBER WALL BOLTS)	TWO	5	5	CENTER ROW	80-111
					15	ALL BOLTS	81-99
			THREE	5	-		

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 2

INSERVICE INSPECTION-EXAMINATION SUMMARY

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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. 22 CONT'D)					
		UPPER RING GIRDER	ONE	8	8	TOP ROW ON GIRDER	77-142
		(SNUBBER BOLTS)	TWO	8	8	TOP ROW ON WALL	80-112
					52	ALL BOLTS	81-95
			THREE	16	-		
		UPPER RING GIRDER	ONE	10	10	RING CON. 4	77-160
		(RING CONNECT BOLTS)	TWO	10	10	RING CON. 1	80-111
					40	PAD 1 THRU 4	81-118, 120
			THREE	20	-		
		UPPER RING GIRDER	ONE	10	10	10 EXAMINED	77-160
		(RING WALL BOLTS)	TWO	10	10	10 EXAMINED	80-111
					30	PAD 1 THRU 4	81-102, 103, 104, 105
			THREE	10	-	(REPEAT INSP.)	
		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	81-79
			THREE	16	-	THRU 4	
		UPPER RING GIRDER			2	SGH-2, SGH-4	81-100, 101
		(SPRING HANGER)					
		TOP COLUMN	ONE	4	4	TOP OF COLUMN 1	77-165
		CONNECTING BOLTS	TWO	4	4	TOP OF COLUMN 2	80-113
					16	TOP OF COLUMN 1	81-137, 148
			THREE	8	-	THRU 4	
		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

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 2

INSERVICE INSPECTION-EXAMINATION SUMMARY

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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. 22 CONT'D)					
		<u>PRESSURIZER</u>					
		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	-		
		<u>ACCUMULATOR A</u>					
		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	-		
		<u>ACCUMULATOR B</u>					
		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	-		
N/A	N/A	<u>REACTOR COOLANT PUMPS</u>					
		<u>PUMP NO. 21</u>					
		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	-		
		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

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	8	-		
		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	-		
		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	-		
		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	-		
		LATERAL SUPPORT AND WALL BOLTS	ONE	4	4	PAD 2	77-158
			TWO	3	3	PAD 3, TOP ROW	80-175
					10	PAS 2 & 3, ALL BOLTS	81-160,161
			THREE	3	-		
		<u>PUMP NO. 22</u>					
		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	-		

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 2

INSERVICE INSPECTION-EXAMINATION SUMMARY

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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. 22 CONT'D)					
		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	-		
		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	-		
		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	-		
		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	-		
		THROUGH 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	-		
		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	-		

NORTHERN STATES POWER COMPANY
PRAIRIE ISLAND UNIT II
BASELINE COMPARISON SUMMARY

SEISMIC BOLTING

TABLE II
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COMPONENT/SYSTEM	NSP ISO	NDE METHOD	W BASELINE IDENT.	REPORT NO.	BASELINE INDICATIONS	ISI INDICATIONS	EXAMINATION LIMITATIONS
<u>SEISMIC BOLTING</u>							
<u>Steam Generators</u>							
<u>Steam Generator #21</u> <u>Heli-Coil Screws</u>	87	UT	Columns 1-4	82-111	None	None	None
<u>Steam Generator #22</u> <u>Heli-Coil Screws</u>	87	UT	Columns 1-4	82-260	None	None	None
<u>REACTOR COOLANT PUMPS</u>							
<u>Pump #21</u>							
<u>Tie Back Bolts</u>	84	UT	Pad 3	82-093	None	None	None

APPENDIX E

TABLE I - PERSONNEL LISTING

TABLE II - ULTRASONIC CALIBRATION BLOCKS

TABLE III - PROCEDURE LISTING

TABLE IV - EQUIPMENT AND MATERIALS

EXAMINER	TITLE	ORGANIZATION	ASNT LEVEL					
			UT	PT	MT	VT	ET	RT
R.M. Cappell	Technician	LMT (2)	I	II	II	I ^(1a,b)	-	-
J. French	Technician	LMT	I	I	-	-	-	-
D.E. Harvey	Technician	LMT	III	III	III	II ^(1b)	-	-
M.L. Morris	Technician	LMT	II	II	II	II ^(1b)	-	-
R.W. Pechacek	Technician	LMT	II	II	II	II ^(1a,b)	-	-
J.E. Story	Technician	LMT	II	-	-	-	-	-
E.L. Thomas	Supervisor	LMT	III	III	III	II ^(1a,b)	-	-
S. Beehner	Technician	W ⁽³⁾	-	-	-	-	I	-
R.D. Bishop	Technician	W	-	-	-	-	I	-
K.D. Gongaware	Technician	W	-	-	-	-	I	-
G.W. Miller	Technician	W	-	-	-	-	I	-
J.S. Misko	Supervisor	W	-	-	-	-	I	-
T.A. Pfarr	Technician	W	-	-	-	-	I	-
R.D. Rehak	Technician	W	-	-	-	-	I	-
K.D. Stewart	Technician	W	-	-	-	-	I	-
G.W. Thomas	Technician	W	-	-	-	-	I	-
R.D. Miranda	Evaluator	Zetec ⁽⁴⁾	-	-	-	-	IIA	-
J.D. Siegel	Evaluator	Zetec	-	-	-	-	IIA	-
R. Roepke	Technician	Conam ⁽⁵⁾	-	-	-	-	II	-
M.T. Anderson	Asst. M&SP Engineer	NSP	-	-	-	-	-	-
R.J. Coleman	Asst. M&SP Engineer	NSP	-	-	-	-	-	-
L.C. Dahlman	M&SP Spclst.	NSP	II	III	III	II ^(1a,b)	-	III
J.D. Schanen	M&SP Spclst.	NSP	-	II	I	-	-	-
C. Lindstrom	ANI	Hartford Steam Boiler Inspection & Insurance Co.						

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.

(2) Organization: Lambert, MacGill, Thomas, Inc. (LMT)
771 Brokaw Road
San Jose, CA 95112

(3) Organization: Westinghouse Electric Corporation (W)
Nuclear Services Division
P.O. Box 2728
Pittsburgh, PA 15230

(con't. next page)

APPENDIX E
TABLE I
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EXAMINER	TITLE	ORGANIZATION	ASNT LEVEL					
			UT	PT	MT	VT	ET	RT
Footnotes con't:								
(4) Organization: Zetec P.O. Box 140 Issaquah, WA 98027								
(5) Organization: Conam Inspection Division 1925 Oakcrest Ave. Suite 11 Roseville, MN 55113								

NORTHERN STATES POWER COMPANY
 Prairie Island Unit II
 ULTRASONIC CALIBRATION BLOCKS

APPENDIX E
 TABLE II
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NSP No.	SIZE & DIA.	PIPE SCHEDULE & THICKNESS	MATERIAL	SERIAL OR HEAT NUMBER	CALIBRATION REPORTS	DATE
1	1 1/2"	Sch.160 .281"	304	2P1668	MLM - 001 RWP - 001	6-11-82 6-14-82
3	2"	Sch.160 .344"	304	2P4659	DEH - 021 JES - 014 JES - 015 RWP - 014	6-24-82 6-14-82 6-16-82 7-1-82
4	3"	Sch.160 .438"	316	M5900	JES - 027 JES - 028	6-23-82 6-24-82
5	6"	Sch.160 .718"	316	M3715	DEH - 022 RWP - 004 JES - 017 JES - 029	6-24-82 6-15-82 6-17-82 6-24-82
7	6"	Sch.80 .432"	A-106 GR.B	82A486	JES - 024	6-22-82
8	8"	Sch.140 .812"	316	J2338	RWP - 002 RWP - 003	6-14-82 6-15-82
9	8"	Sch.120 .719"	A-106 GR.B	83D563	JES - 025	6-22-82
10	10"	Sch.140 1.000"	316	J2009	JES - 019	6-17-82
13	16"	Sch.100 1.031"	A-106 GR.B	69271	DEH - 019 DEH - 020	6-18-82 6-19-82
16	-	PZR SKIRT	SA-299	P1222	RWP - 008	6-24-82
20	24"	Sch.80 1.219"	A-106 GR.B	N14868	JES - 030	6-22-82

NORTHERN STATES POWER COMPANY
 Prairie Island Unit II
 ULTRASONIC CALIBRATION BLOCKS

APPENDIX E
 TABLE II
 PAGE 2 of 3

NSP No.	SIZE & DIA.	PIPE SCHEDULE & THICKNESS	MATERIAL	SERIAL OR HEAT NUMBER	CALIBRATION REPORTS	DATE
22	10"	Sch.40 .365"	304	F60917	DEH - 007 DEH - 009 DEH - 011 JES - 001 JES - 021	6-8-82 6-9-82 6-10-82 6-4-82 6-18-82
23	30"	- 1.045"	A-515 GR.70	88526	JES - 020 JES - 022	6-17-82 6-19-82
24	31"	- 1.534"	A-515 GR.70	79114	JES - 023 JES - 031	6-21-82 6-22-82
25A	T=5 5/16+c	L=17 3/4" W=7 1/16"	SA-533 GRBC1.1	C22201	RWP - 005 RWP - 011 RWP - 013 RWP - 015 ELT - 007	6-23-82 6-22-82 7-1-82 7-1-82 7-1-82
26	3 1/2" (T)x	6"(W)x12"(L)	A-533 GRAC1.2	52391	DEH - 024 RWP - 010 RWP - 016 RWP - 017 JES - 032 ELT - 010	6-25-82 6-24-82 7-2-82 7-3-82 6-25-82 7-2-82
27	6"	Sch.40 .280"	304	215951	RWP - 012 JES - 003 JES - 004 ELT - 001 ELT - 004	6-29-82 6-5-82 6-7-82 6-10-82 6-10-82
28	6"	Sch.10 .133"	304	750262	JES - 006 ELT - 002	6-7-82 6-10-82

NORTHERN STATES POWER COMPANY
 Prairie Island Unit II
 ULTRASONIC CALIBRATION BLOCKS

APPENDIX E
 TABLE II
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NSP No.	SIZE & DIA.	PIPE SCHEDULE & THICKNESS	MATERIAL	SERIAL OR HEAT NUMBER	CALIBRATION REPORTS	DATE
29	8"	Sch.40 .322"	304	2P4086	DEH - 003 DEH - 005 DEH - 006	6-5-82 6-7-82 6-8-82
30	8"	Sch.10 .148"	304	547148	JES - 008 JES - 009 JES - 010 JES - 012	6-8-82 6-9-82 6-10-82 6-11-82
31	10"	Sch.10 .165"	304	2P6405	DEH - 002	6-4-82
32	12"	Sch.40 .375"	304	F41542	DEH - 004 DEH - 010 JES - 002 ELT - 005	6-7-82 6-10-82 6-5-82 6-10-82
33	12"	Sch.10 .180"	304	27030	DEH - 001 JES - 007 JES 011	6-4-82 6-8-82 6-10-82
34	14"	- .250"	304C1.1	7T2600	JES - 005 ELT - 003	6-7-82 6-10-82
36	16"	Sch.100 1.031" & .585"	A-106 .C	45124A	DEH - 015 DEH - 016 DEH - 017 DEH - 018 ELT - 006 ELT - 009	6-16-82 6-16-82 6-17-82 6-17-82 6-15-82 6-15-82

NORTHERN STATES POWER COMPANY
 Prairie Island Unit II
 PROCEDURE LISTING

APPENDIX E
 TABLE III
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PROCEDURE NUMBER AND REVISION	FIELD CHANGE	PROCEDURE TITLE	PLANT APPROVAL DATE	FIELD CHANGE REMARKS	CHANGE DESCRIPTION
NSP-MT-1, Rev. 2	N/A	Magnetic Particle Examination	1-8-81	None	Cover examination volume of S/S piping welds less than .200 inch wall thickness.
NSP-MT-2, Rev. 0	N/A	Wet Magnetic Particle Examination	1-8-81	None	
NSP-PT-1, Rev. 2	N/A	Liquid Penetrant Examination	1-8-81	None	
NSP-PT-2, Rev. 0	N/A	High Temperature Liquid Penetrant Examination	8-29-80	None	
NSP-UT-1, Rev. 1	#1	Ultrasonic Examination of Pipe Welds	6-9-82	None	
NSP-UT-2, Rev. 1	N/A	Automatic Data Recording	1-8-81	None	
NSP-UT-3, Rev. 1	N/A	Ultrasonic Examination of Ferritic Vessels	2-20-81	None	
NSP-UT-4, Rev. 1	N/A	Ultrasonic Examination of Studs, Bolts and Nuts	1-8-81	None	
NSP-UT-4B, Rev. 1	N/A	Axial Ultrasonic Examination of Studs and Bolts	2-20-81	None	
NSP-VT-1, Rev. 2	N/A	Visual Examination	1-8-81	None	
NSP-VT-2, Rev. 2	N/A	Visual Examination of Hanger Assemblies	1-8-81	None	

NORTHERN STATES POWER COMPANY
 Prairie Island Unit II
 PROCEDURE LISTING

APPENDIX E
 TABLE III
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PROCEDURE NUMBER AND REVISION	FIELD CHANGE	PROCEDURE TITLE	PLANT APPROVAL DATE	FIELD CHANGE REMARKS	CHANGE DESCRIPTION
MRS 2.4.2 Gen 23 Rev. 3	#1	Multi-frequency Eddy Current Inspection of Heat Exchanger Tubing - Pre Service and In service	6-11-82	None	Change chart recorder inputs on chart recorder #1 from 1 - vertical to 4 - vertical.
75-RT-010, Rev. 0	N/A	Procedure For Radiographic Examination of Welds	7-7-82	None	

NORTHERN STATES POWER COMPANY
PRAIRIE ISLAND UNIT II
EQUIPMENT AND MATERIALS

APPENDIX E
TABLE IV
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MATERIAL OR EQUIPMENT	TYPE OR SERIAL NUMBER	CALIBRATION DATE OR BATCH NUMBER	REMARKS
<u>ULTRASONIC:</u>			
Nortec 1310	S/N 291	Cal: 5-20-82	
Nortec 1310	S/N 322	Cal: 5-20-82	
Nortec 1310	S/N 287	Cal: 5-19-82	
Nortec 1310	S/N 273	Cal: 5-14-82	
Nortec 1310	S/N 360	Cal: 2-10-82	
<u>RECORDERS:</u>			
Gould 220	S/N 14521	Cal: 5-27-82	Off Site 6-14-82
Gould 222	S/N 01343	Cal: 5-27-82	
Gould 220	S/N 17466	Cal: 5-27-82	
Gould 222	S/N 647	Cal: 5-21-82	
<u>TEMPERATURE GAUGES:</u>			
PTC Surface	S/N 453	Cal: 5-25-82	Certified by Manufacturer
Thermometer	S/N 454	Cal: 5-25-82	
	S/N 455	Cal: 5-25-82	
	S/N 456	Cal: 5-25-82	
	S/N 442	Cal: 12-16-82	
	S/N 443	Cal: 12-16-82	
	S/N 446	Cal: 12-16-82	
<u>MAGNETIC PARTICLE:</u>			
Magnaflux Yoke	S/N LMT - 002	Cal: 6-2-82	On Site Qualification
Magnaflux Yoke	S/N GTL - 003	Cal: 6-18-82	On Site Qualification
Magnaflux Coil	S/N GTL - 2		
Black Ray Meter	S/N 24560	Cal: 3-5-82	
<u>ROMPAS BLOCKS:</u>			
1018 C/S	S/N R-3	Cert 10-10-75	By Applied Test Systems
304 S/S	S/N 021	Cert 1-3-79	By Orla's Machine Shop
4140 C/S	S/N 18	Cert 1-3-79	By Orla's Machine Shop
304 S/S	S/N 1	Cert 8-4-81	By Earl M. Jorgensen
<u>IIW BLOCK</u>			
Low Carbon FGS	S/N 002	Cert 11-21-75	By Nuclear Service Corp.

NORTHERN STATES POWER COMPANY
PRAIRIE ISLAND UNIT II
EQUIPMENT AND MATERIALS

APPENDIX E
TABLE IV
PAGE 2 OF 4

MATERIAL OR EQUIPMENT	TYPE OR SERIAL NUMBER	CALIBRATION DATE OR BATCH NUMBER	REMARKS
<u>MATERIALS:</u>			
Magnaflux Spot check	Penetrant SKL-HF/S	Batch No.80F060	
	Cleaner SKC-NF	Batch No.79M015	
	Cleaner SKC-NF/ZC-7	Batch No.81C041	
	Developer SKD-NF	Batch No.80L072	
Sherwin Williams High Temp Dubl-Check	Penetrant Type K017	Batch No.54A-	
	Remover Type K019	Batch No.56J- ⁵³¹ 602	
	Developer Type D350	Batch No.71H- 412	
Magnaflux Magnaglo	#20A Fluorescent	Batch No.81B017	Prepared Bath Water Mix
Ultrasonic Couplant	LMT GEL	Batch No. 1080	
	GEL - 3000	Batch No. 1378	
<u>ULTRASONIC TRANS- DUCERS :</u>		<u>SIZE</u>	<u>FREQUENCY</u>
Aerotech	F13105	.25"Ø	2.25 MHZ
Aerotech	F15180	.25"Ø	5 MHZ
Aerotech	F15186	.25"Ø	5 MHZ
Aerotech	F15198	.25"Ø	5 MHZ
Aerotech	F18155	.50"Ø	2.25 MHZ
Aerotech	F26119	.50"Ø	2.25 MHZ
Aerotech	F26143	.50"Ø	2.25 MHZ
Aerotech	015623	.25" x .25"	2.25 MHZ
Aerotech	016575	.2.0"Ø	2.25 MHZ
Harisonic	Q 1032	.50" x .50"	1.50 MHZ
Harisonic	Q 412	1.0" x 1.0"	1.0 MHZ
Harisonic	R 169	.375" x .375"	3.5 MHZ
Harisonic	R 30131	.325" x .325"	3.5 MHZ
Harisonic	T 2348	.50" Ø	2.25 MHZ
Harisonic	T 3156	.50" Ø	2.25 MHZ
Harisonic	T 3204	.25" Ø	4.5 MHZ
Harisonic	T 3205	.25" Ø	4.5 MHZ
Harisonic	T 6156	.375" Ø	2.25 MHZ
Nortec	978	.75" x .75"	2.25 MHZ
Nortec	979	.75" x .75"	2.25 MHZ
Aerotech	B 12133	1.0" Dia.	2.25 MHZ
Nortec	6807	.75" Dia.	2.25 MHZ
Harisonic	V 6271	.75" Dia.	2.25 MHZ
Panametrics	10940	.5"	2.25 MHZ
Panametrics	15474	.5"	2.25 MHZ
Harisonic	R 2147	.5" x .5"	2.25 MHZ

NORTHERN STATES POWER COMPANY
PRAIRIE ISLAND UNIT II
EQUIPMENT AND MATERIALS

APPENDIX E
TABLE IV
PAGE 3 OF 4

MATERIAL OR EQUIPMENT	TYPE OR SERIAL NUMBER	CALIBRATION DATE OR BATCH NUMBER	REMARKS
<u>WESTINGHOUSE EQUIPMENT:</u>			
-Data Station #1 -			
Tek 5111	0699	3-21-82	Storage Scope
Brush 220	0702	3-21-82	
Brush 220	0023	3-13-82	
HP 3968 AZ	0999	3-21-82	8 Channel Recorder
HP 3968 AZ	0648	3-21-82	8 Channel Recorder
M1Z 12	0682	3-20-82	Main Frame
M1Z 12	0566	3-20-82	Plug In
M1Z 12	0709	3-15-82	Plug In
M1Z 12	0664	4-7-82	Plug In
M1Z 12	00898	4-7-82	Plug In
M1Z 12	0598	3-23-82	Mixer
M1Z 12	0542	3-20-82	Mixer
M1Z 12	00905	2-5-82	Display
-Data Station #2-			
Tek 5111	0536	3-21-82	Storage Scope
Brush 220	0025	3-13-82	
Brush 220	0156	3-13-82	
HP 3968 AZ	0680	3-21-82	8-Channel Recorder
HP 3968 AZ	0681	3-21-82	8-Channel Recorder
M1Z 12	0577	3-20-82	Main Frame
M1Z 12	0539	3-15-82	Plug In
M1Z 12	00899	4-7-82	Plug In
M1Z 12	0575	4-7-82	Plug In
M1Z 12	0691	3-21-82	Plug In
M1Z 12	00901	4-7-82	Mixer
M1Z 12	0543	3-21-82	Mixer
M1Z 12	0591	3-21-82	Display
-Data Station #3-			
Tek 5111	00908	2-5-82	Storage Scope
Brush 220	0132	6-8-82	
Brush 220	0645	3-20-82	
HP 3968 AZ	0545	3-22-82	8 Channel Recorder
HP 3968 AZ	0991	3-21-82	8 Channel Recorder
M1Z 12	00896	2-5-82	Main Frame
M1Z 12	0638	1-25-82	Plug In
M1Z 12	0565	5-20-82	Plug In
M1Z 12	0574	3-21-82	Plug In
M1Z 12	0577	3-21-82	Plug In
M1Z 12	00894	2-5-82	Mixer
M1Z 12	0674	6-9-82	Mixer
M1Z 12	00909	2-5-82	Display

NORTHERN STATES POWER COMPANY
PRAIRIE ISLAND UNIT (I)
EQUIPMENT AND MATERIALS

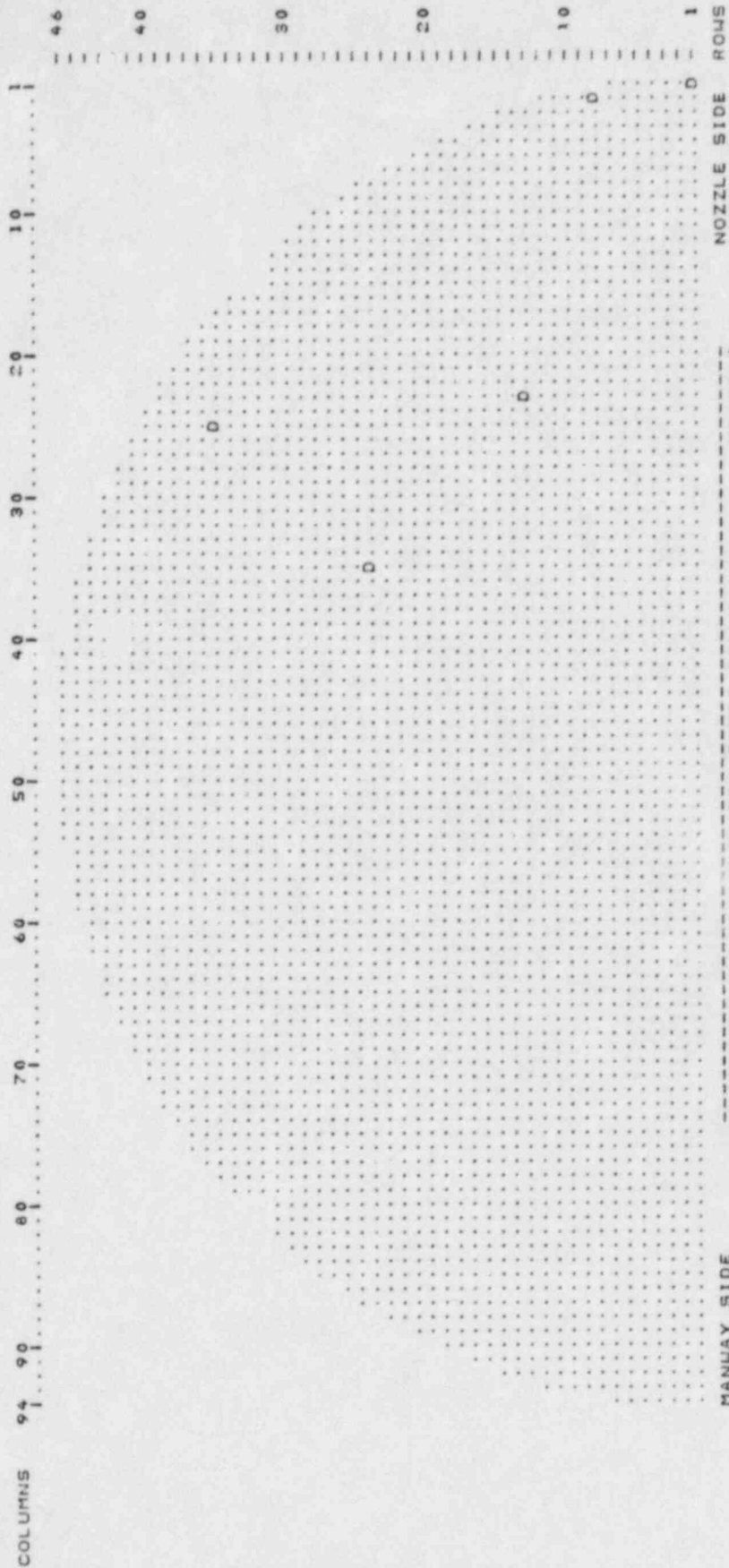
APPENDIX E
TABLE IV
PAGE 4 OF 4

MATERIAL OR EQUIPMENT	TYPE OR SERIAL NUMBER	CALIBRATION DATE OR BATCH NUMBER	REMARKS
WESTINGHOUSE EQUIP.	CONT:		
Eddy Current STD	S/N I-32-W	Inconel 600	
Eddy Current in Line STD	S/N I-30-W	Inconel 600	
Eddy Current Absolute STD	NX-7735	Inconel 600	
Eddy Current Absolute STD	NX-7735	Inconel 600	
Evaluation Room Equipment			
Tek 511	0555	3-13-82	Storage Scope
M1Z 12	B130237	Not Required	Power Supply
M1Z 12	0039	2-5-82	Vector Analyzer
M1Z 12	0250	2-5-82	Mixer
M1Z 12	0256	2-5-82	Mixer
M1Z 12	0122	2-5-82	Display

APPENDIX F

STEAM GENERATOR NO. 21
EDDY CURRENT EXAMINATION
TUBE SHEET MAPS

NORTHERN STATES POWER COMPANY
 POWER PRODUCTION PLANT STEAM AND GENERATOR TUBE R&R SECTION
 PRAIRIE ISLAND NUCLEAR GENERATING PLANT



MANWAY SIDE

DEGRADED TUBES (ALL)

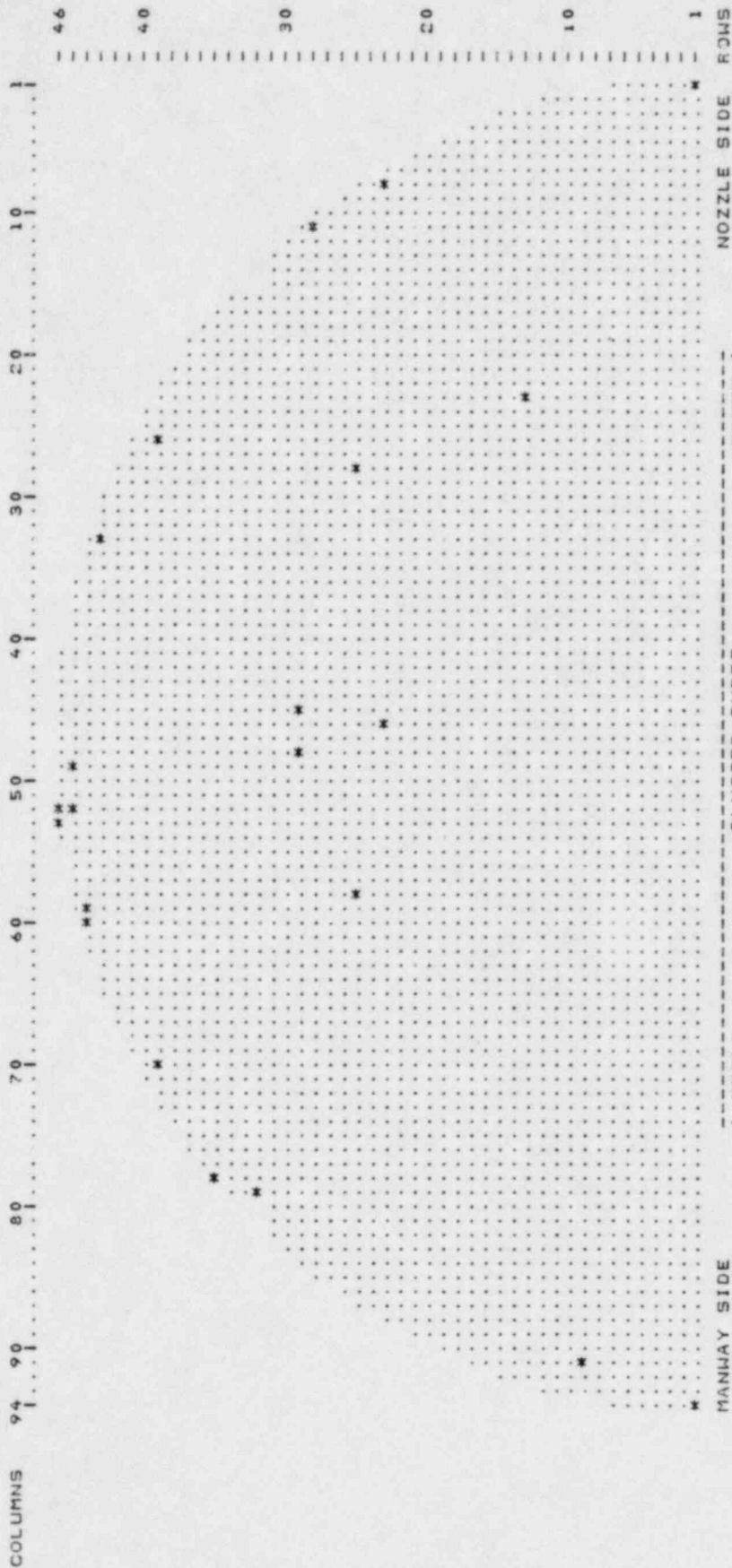
INLET (HOT LEG)

THROUGH 99-9

ROUND

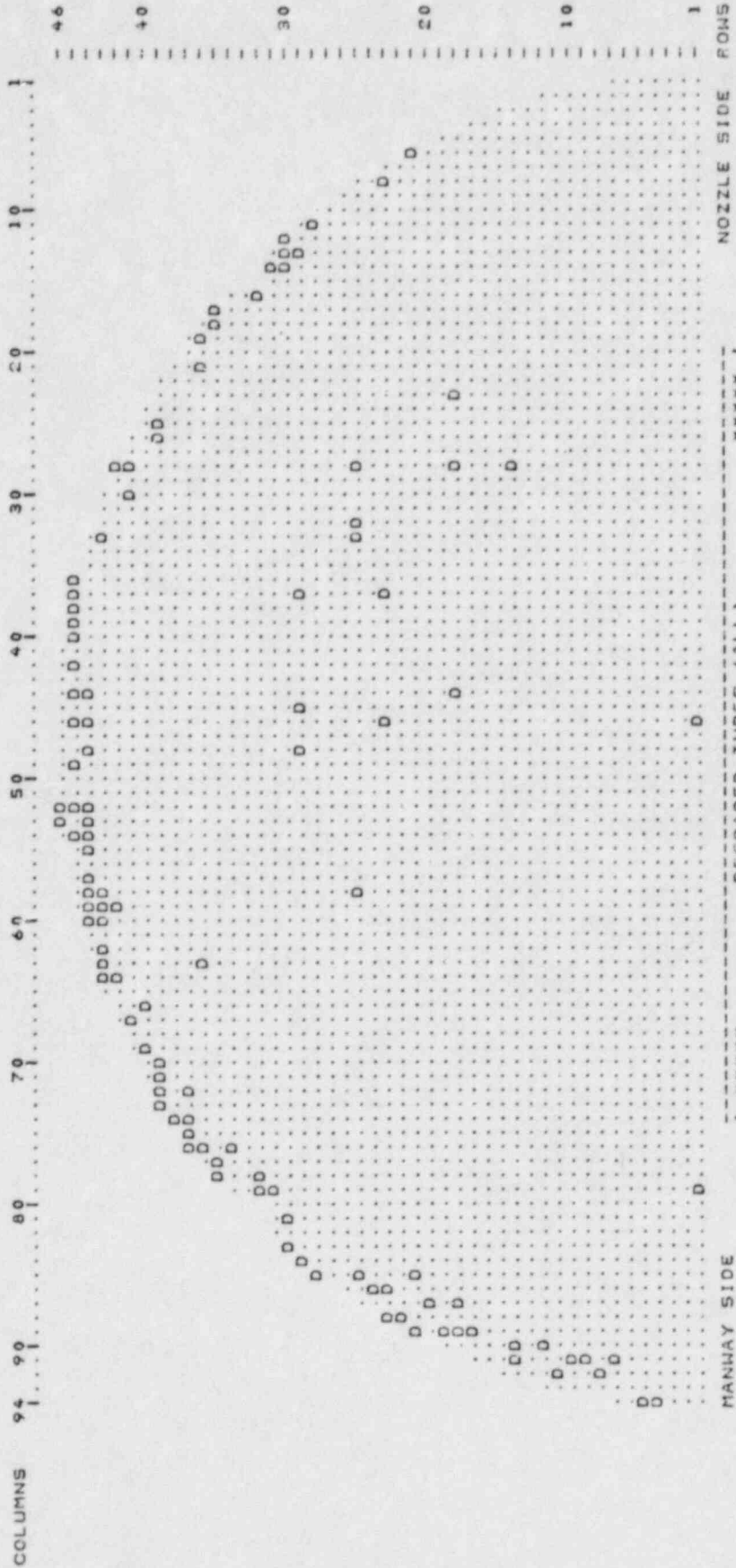
THRU-END

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. 1
 INLET OR OUTLET
 INSPECTION MAPPED
 REGION MAPPED TO
 INLET (HOT LEG)
 60-6 THROUGH 99-9
 TUBE SHEET
 AROUND U-BEND

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



MANWAY SIDE

DEGRADED TUBES (ALL)

GENERATOR NO. 1

OUTLET (COLD LEG)

0-0 THROUGH 99-9

TUBE SHEET

AROUND U-BEND

NOZZLE SIDE

The figure is a 90x90 grid plot. The horizontal axis is labeled 'COLUMNS' and ranges from 1 to 90. The vertical axis is labeled 'ROWS' and ranges from 1 to 90. The plot shows a dense cluster of points in the upper right quadrant, with a few scattered points in the lower left quadrant. The points are represented by small black squares. The distribution is roughly as follows:

- Columns 1-10: Points are mostly in rows 80-90.
- Columns 10-20: Points are mostly in rows 70-90.
- Columns 20-30: Points are mostly in rows 60-90.
- Columns 30-40: Points are mostly in rows 50-90.
- Columns 40-50: Points are mostly in rows 40-90.
- Columns 50-60: Points are mostly in rows 30-90.
- Columns 60-70: Points are mostly in rows 20-90.
- Columns 70-80: Points are mostly in rows 10-90.
- Columns 80-90: Points are mostly in rows 1-90.

AUG 16. 1982

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AUG 16. 1982

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

[illegible]

AUG 16, 1982

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	24	86	81	NO	SUP	THINNING	0	
		25	88	81	NO	SUP	THINNING	0	
			89	81	NO	AVB	THINNING	0	
			90	81	NO	AVB	THINNING	0	
			91	81	NO	AVB	THINNING	0	
		26	33	81	1ST	AVB	THINNING	0	
			34	81	NO	AVB	THINNING	0	
			35	81	NO	AVB	THINNING	0	
			36	81	NO	AVB	THINNING	0	
		27	58	81	1ST	SUP	THINNING	0	
			59	81	1ST	SUP	THINNING	0	
			60	81	NO	SUP	THINNING	0	
			61	81	NO	SUP	THINNING	0	
		28	11	81	1ST	SUP	THINNING	0	
			12	81	NO	SUP	THINNING	0	
			13	81	1ST	SUP	THINNING	0	
			14	81	NO	SUP	THINNING	0	
		29	37	81	1ST	AVB	THINNING	0	
			38	81	1ST	AVB	THINNING	0	
			39	81	1ST	AVB	THINNING	0	
			40	81	NO	AVB	THINNING	0	
		30	84	81	1ST	SUP	THINNING	0	
			85	81	1ST	SUP	THINNING	0	
			86	81	1ST	SUP	THINNING	0	
			87	81	1ST	SUP	THINNING	0	
		31	13	81	1ST	SUP	THINNING	0	
			14	81	1ST	SUP	THINNING	0	
			15	81	1ST	SUP	THINNING	0	
			16	81	1ST	SUP	THINNING	0	
		32	83	81	1ST	SUP	THINNING	0	
			84	81	1ST	SUP	THINNING	0	
			85	81	1ST	SUP	THINNING	0	
			86	81	1ST	SUP	THINNING	0	
		33	14	81	1ST	SUP	THINNING	0	
			15	81	1ST	SUP	THINNING	0	
			16	81	1ST	SUP	THINNING	0	
			17	81	1ST	SUP	THINNING	0	
		34	76	81	1ST	SUP	THINNING	0	
			77	81	1ST	SUP	THINNING	0	
			78	81	1ST	SUP	THINNING	0	
			79	81	1ST	SUP	THINNING	0	
		35	17	81	1ST	SUP	THINNING	0	
			18	81	1ST	SUP	THINNING	0	
			19	81	1ST	SUP	THINNING	0	
			20	81	1ST	SUP	THINNING	0	
		36	21	81	NO	SUP	THINNING	0	
			22	81	NO	SUP	THINNING	0	
			23	81	NO	SUP	THINNING	0	
			24	81	NO	SUP	THINNING	0	

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

Page 8 of 9

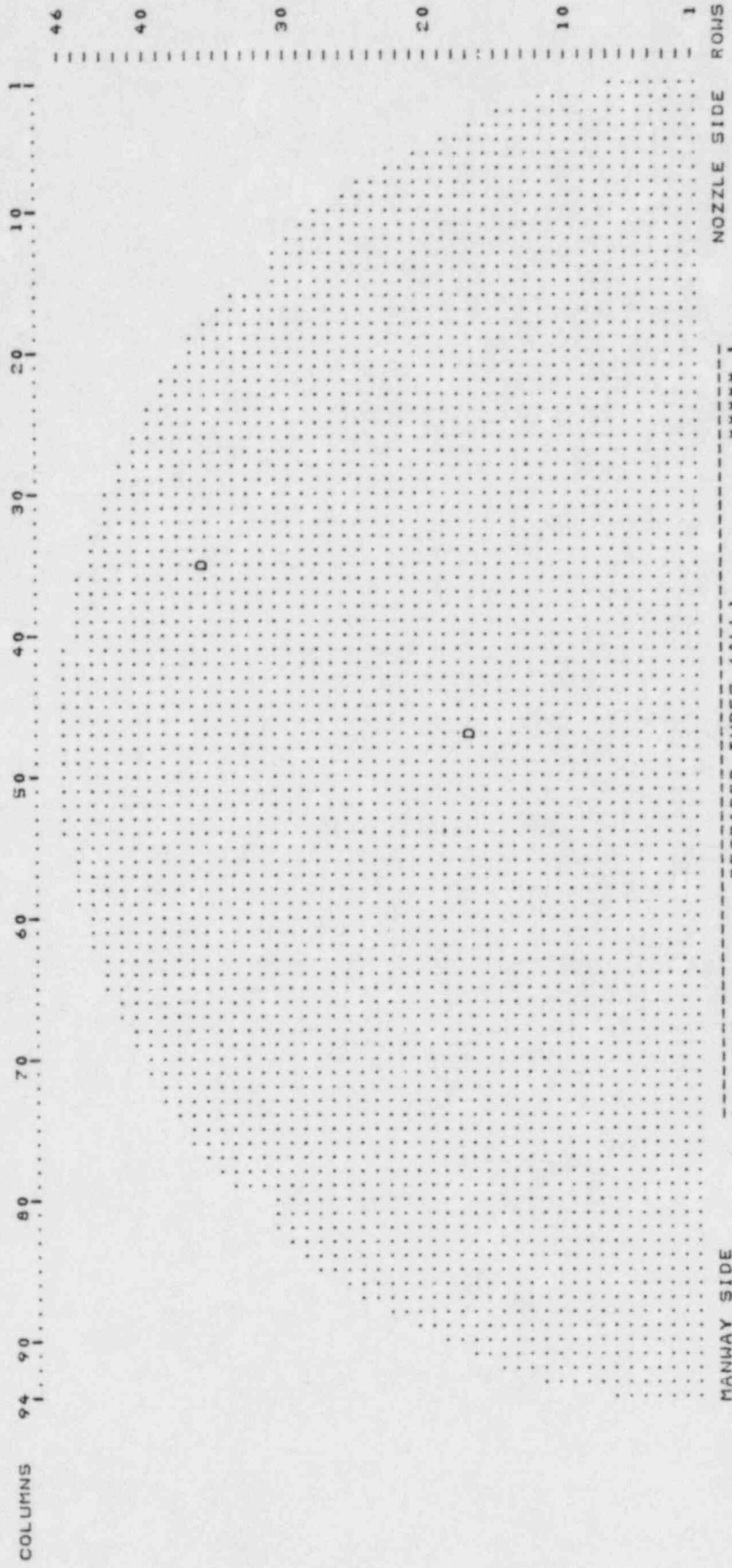
PRAIRIE ISLAND NUCLEAR GENERATING PLANT
LIST OF IMPERFECT, DEGRADED, AND DEFECTIVE TUBES

Page 9 of 9

APPENDIX G

STEAM GENERATOR NO. 22
EDDY CURRENT EXAMINATION
TUBE SHEET MAPS

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



MANWAY SIDE

DEGRADED TUBES (ALL) *****

*** GENERATOR NO. : INLET (HOT LEG) ***
 *** STEAM OR OUTLET : 90-0 THROUGH 99-9 ***
 *** INLET OR OUTLET : TUBE SHEET ***
 *** REGION MAPPED : AROUND U-BEND ***

NOZZLE SIDE

NOZZLE SIDE

COLUMNS

PLUGGED TUBES

* * * * *

PLUGGED TUBES
TWO-FOUR SHEET
THOUGH LEGS - 9
AROUND JEND

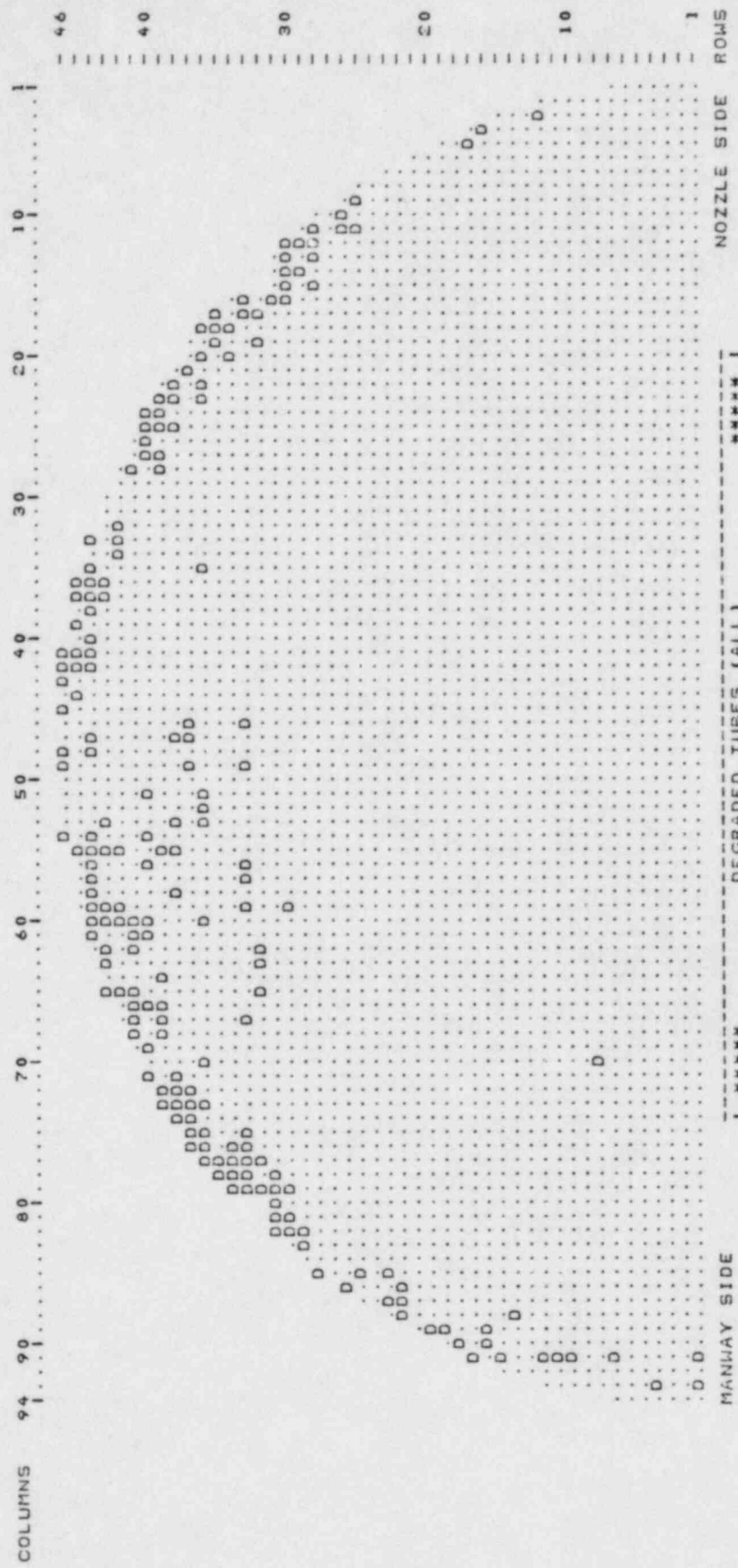
* * * * *

TOR NO.
GENERAL MAP
OF MAPPED
CY MAPPED
STATIONING

* * * * *

NOZZLE SIDE ROWS

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. :
 INLET OR OUTLET :
 INSTRUCTIONS MAPPED :
 REGION MAPPED TO :

 OUTLET (COLD LEG)
 00-0 THROUGH 99-9
 TUBE SHEET
 AROUND U-BEND

A 94x46 grid showing the distribution of 1000 points. The grid is labeled 'COLUMNS' on the left (1-94) and 'ROWS' on the top (1-46). The points are concentrated in a diagonal band from the bottom-left to the top-right, with some scattered points elsewhere. The right edge of the grid is labeled 'NOZZLE SIDE' and the bottom edge is labeled 'MAINJAW SIDE'.

[illegible]

AUG 16, 1962

PRAIRIE ISLAND NUCLEAR GENERATING PLANT
LIST OF PLUGGED STEAM GENERATOR TUBES

GEN NO.	SIDE	ROW	COL	YEAR	REMARKS/COMMENTS
22	INLET	1			VENTIVE PREVENTIVE
17		1			S/O
18		2			S/O
19		3			S/O
20		4			S/O
21		5			S/O
22		6			S/O
23		7			S/O
24		8			S/O
25		9			S/O
26		10			S/O
27		11			S/O
28		12			S/O
29		13			S/O
30		14			S/O
31		15			S/O
32		16			S/O
33		17			S/O
34		18			S/O
35		19			S/O
36		20			S/O
37		21			S/O
38		22			S/O
39		23			S/O
40		24			S/O
41		25			S/O
42		26			S/O
43		27			S/O
44		28			S/O
45		29			S/O
46		30			S/O
47		31			S/O
48		32			S/O
49		33			S/O
50		34			S/O
51		35			S/O
52		36			S/O
53		37			S/O
54		38			S/O
55		39			S/O
56		40			S/O
57		41			S/O
58		42			S/O
59		43			S/O
60		44			S/O
61		45			S/O
62		46			S/O
63		47			S/O
64		48			S/O
65		49			S/O
66		50			S/O
67		51			S/O
68		52			S/O
69		53			S/O
70		54			S/O
71		55			S/O
72		56			S/O
73		57			S/O
74		58			S/O
75		59			S/O
76		60			S/O
77		61			S/O
78		62			S/O
79		63			S/O
80		64			S/O
81		65			S/O
82		66			S/O
83		67			S/O
84		68			S/O
85		69			S/O
86		70			S/O
87		71			S/O
88		72			S/O
89		73			S/O
90		74			S/O
91		75			S/O
92		76			S/O
93		77			S/O
94		78			S/O
95		79			S/O
96		80			S/O
97		81			S/O
98		82			S/O
99		83			S/O
100		84			S/O
101		85			S/O
102		86			S/O
103		87			S/O
104		88			S/O
105		89			S/O
106		90			S/O
107		91			S/O
108		92			S/O
109		93			S/O
110		94			S/O
111		95			S/O
112		96			S/O
113		97			S/O
114		98			S/O
115		99			S/O
116		100			S/O
117		101			S/O
118		102			S/O
119		103			S/O
120		104			S/O
121		105			S/O
122		106			S/O
123		107			S/O
124		108			S/O
125		109			S/O
126		110			S/O
127		111			S/O
128		112			S/O
129		113			S/O
130		114			S/O
131		115			S/O
132		116			S/O
133		117			S/O
134		118			S/O
135		119			S/O
136		120			S/O
137		121			S/O
138		122			S/O
139		123			S/O
140		124			S/O
141		125			S/O
142		126			S/O
143		127			S/O
144		128			S/O
145		129			S/O
146		130			S/O
147		131			S/O
148		132			S/O
149		133			S/O
150		134			S/O
151		135			S/O
152		136			S/O
153		137			S/O
154		138			S/O
155		139			S/O
156		140			S/O
157		141			S/O
158		142			S/O
159		143			S/O
160		144			S/O
161		145			S/O
162		146			S/O
163		147			S/O
164		148			S/O
165		149			S/O
166		150			S/O
167		151			S/O
168		152			S/O
169		153			S/O
170		154			S/O
171		155			S/O
172		156			S/O
173		157			S/O
174		158			S/O
175		159			S/O
176		160			S/O
177		161			S/O
178		162			S/O
179		163			S/O
180		164			S/O
181		165			S/O
182		166			S/O
183		167			S/O
184		168			S/O
185		169			S/O
186		170			S/O
187		171			S/O
188		172			S/O
189		173			S/O
190		174			S/O
191		175			S/O
192		176			S/O
193		177			S/O
194		178			S/O
195		179			S/O
196		180			S/O
197		181			S/O
198		182			S/O
199		183			S/O
200		184			S/O
201		185			S/O
202		186			S/O
203		187			S/O
204		188			S/O
205		189			S/O
206		190			S/O
207		191			S/O
208		192			S/O
209		193			S/O
210		194			S/O
211		195			S/O
212		196			S/O
213		197			S/O
214		198			S/O
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217		201			S/O
218		202			S/O
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220		204			S/O
221		205			S/O
222		206			S/O
223		207			S/O
224		208			S/O
225		209			S/O
226		210			S/O
227		211			S/O
228		212			S/O
229		213			S/O
230		214			S/O
231		215			S/O
232		216			S/O
233		217			S/O
234		218			S/O
235		219			S/O
236		220			S/O
237		221			S/O
238		222			S/O
239		223			S/O
240		224			S/O
241		225			S/O
242		226			S/O
243		227			S/O
244		228			S/O
245		229			S/O
246		230			S/O
247		231			S/O
248		232			S/O
249		233			S/O
250		234			S/O
251		235			S/O
252		236			S/O
253		237			S/O
254		238			S/O
255		239			S/O
256		240			S/O
257		241			S/O
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262		246			S/O
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265		249			S/O
266		250			S/O
267		251			S/O
268		252			S/O
269		253			S/O
270		254			S/O
271		255			S/O
272		256			S/O
273		257			S/O
274		258			S/O
275		259			S/O
276		260			S/O
277		261			S/O
278		262			S/O
279		263			S/O
280		264			S/O
281		265			S/O
282		266			S/O
283		267			S/O
284		268			S/O
285		269			S/O
286		270			S/O
287		271			S/O
288		272			S/O
289		273			S/O
290		274			S/O
291		275			S/O
292		276			S/O
293		277			S/O
294		278			S/O
295		279			S/O
296		280			S/O
297		281			S/O
298		282			S/O
299		283			S/O
300		284			S/O
301		285			S/O
302		286			S/O
303		287			S/O
304		288			S/O
305		289			S/O
306		290			S/O
307		291			S/O
308		292			S/O
309		293			S/O
310		294			S/O
311		295			S/O
312		296			S/O
313		297			S/O
314		298			S/O
315		299			S/O
316		300			S/O
317		301			S/O
318		302			S/O
319		303			S/O
320		304			S/O
321		305			S/O
322		306			S/O
323		307			S/O
324		308			S/O
325		309			

AUG 16. 1982

PRAIRIE ISLAND NUCLEAR GENERATING PLANT
LIST OF PLUGGED STEAM GENERATOR TUBES

GEN NO	SIDE	ROW	COL	YEAR	REMARKS/COMMENTS
22	OUTLET	1			
17	1	1	1	1981	PREVENTIVE
18	1	2	1	1981	1975/Y
19	1	3	1	1981	
20	1	4	1	1981	
21	1	5	1	1981	
22	1	6	1	1981	
23	1	7	1	1981	
24	1	8	1	1981	
25	1	9	1	1981	
26	1	10	1	1981	
27	1	11	1	1981	
28	1	12	1	1981	
29	1	13	1	1981	
30	1	14	1	1981	
31	1	15	1	1981	
32	1	16	1	1981	
33	1	17	1	1981	
34	1	18	1	1981	
35	1	19	1	1981	
36	1	20	1	1981	
37	1	21	1	1981	
38	1	22	1	1981	
39	1	23	1	1981	
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68	1	52	1	1981	
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109	1	93	1	1981	
110	1	94	1	1981	
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160	1	144	1	1981	
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162	1	146	1	1981	
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208	1	192	1	1981	
209	1	193	1	1981	
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226	1	210	1	1981	
227	1	211	1	1981	
228	1	212	1	1981	
229	1	213	1	1981	
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231	1	215	1	1981	
232	1	216	1	1981	
233	1	217	1	1981	
234	1	218	1	1981	
235	1	219	1	1981	
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262	1	246	1	1981	
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264	1	248	1	1981	
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267	1	251	1	1981	
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271	1	255	1	1981	
272	1	256	1	1981	
273	1	257	1	1981	
274	1	258	1	1981	
275	1	259	1	1981	
276	1	260	1	1981	
277	1	261	1	1981	
278	1	262	1	1981	
279	1	263			

AUG 16, 1982

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	17	47	77	16" BELOW	TUBE SH	THINNING	86	
		36	35	81		1ST AVB	THINNING	00	
				81		2ND AVB	THINNING	00	
				81		3RD AVB	THINNING	00	
				81		4TH AVB	THINNING	00	
	OUTLET	1	91	81		1ST SUP	THINNING	00	
			93	80		1ST SUP	THINNING	00	
		4	93	80		1ST SUP	THINNING	00	
		7	91	80		1ST SUP	THINNING	00	
		8	70	80		1ST SUP	THINNING	00	
		10	91	80	13" ABOVE	1ST SUP	THINNING	00	
		11	91	80		1ST SUP	THINNING	00	
		12	3	80		1ST SUP	THINNING	00	
			91	81		1ST SUP	THINNING	00	
				82		1ST SUP	THINNING	00	
		14	88	81		2ND SUP	THINNING	00	
				82		2ND SUP	THINNING	00	

AUG 16, 1982

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	14	81	THINNING	THINNING	THINNING	0	
			15	81	THINNING	THINNING	THINNING	0	
			16	81	THINNING	THINNING	THINNING	0	
			59	81	THINNING	THINNING	THINNING	0	
			79	81	THINNING	THINNING	THINNING	0	
			81	81	THINNING	THINNING	THINNING	0	
			82	81	THINNING	THINNING	THINNING	0	
		31	16	81	THINNING	THINNING	THINNING	0	
			78	81	THINNING	THINNING	THINNING	0	
			79	81	THINNING	THINNING	THINNING	0	
			80	81	THINNING	THINNING	THINNING	0	
			81	81	THINNING	THINNING	THINNING	0	
			82	81	THINNING	THINNING	THINNING	0	
		32	17	81	THINNING	THINNING	THINNING	0	
			19	81	THINNING	THINNING	THINNING	0	
			62	81	THINNING	THINNING	THINNING	0	
			63	81	THINNING	THINNING	THINNING	0	
			65	81	THINNING	THINNING	THINNING	0	
			77	81	THINNING	THINNING	THINNING	0	
			79	81	THINNING	THINNING	THINNING	0	
		33	16	81	THINNING	THINNING	THINNING	0	
			17	81	THINNING	THINNING	THINNING	0	
			46	81	THINNING	THINNING	THINNING	0	
			49	81	THINNING	THINNING	THINNING	0	

AUG 16, 1982

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

GEN NO.	SIDE	ROW	COL	YEAR	FROM	TO	DEFECT OR OBS	%	REMARKS/COMMENTS
22	OUTLET	33	56	88	88	88	88	88	88
			57	88	88	88	88	88	88
			59	88	88	88	88	88	88
			67	88	88	88	88	88	88
			75	88	88	88	88	88	88
			76	88	88	88	88	88	88
			77	88	88	88	88	88	88
			78	88	88	88	88	88	88
			79	88	88	88	88	88	88
			80	88	88	88	88	88	88
			81	88	88	88	88	88	88
			82	88	88	88	88	88	88
			83	88	88	88	88	88	88
			84	88	88	88	88	88	88
			85	88	88	88	88	88	88
			86	88	88	88	88	88	88
			87	88	88	88	88	88	88
			88	88	88	88	88	88	88
			89	88	88	88	88	88	88
			90	88	88	88	88	88	88
			91	88	88	88	88	88	88
			92	88	88	88	88	88	88
			93	88	88	88	88	88	88
			94	88	88	88	88	88	88
			95	88	88	88	88	88	88
			96	88	88	88	88	88	88
			97	88	88	88	88	88	88
			98	88	88	88	88	88	88
			99	88	88	88	88	88	88
			100	88	88	88	88	88	88
			101	88	88	88	88	88	88
			102	88	88	88	88	88	88
			103	88	88	88	88	88	88
			104	88	88	88	88	88	88
			105	88	88	88	88	88	88
			106	88	88	88	88	88	88
			107	88	88	88	88	88	88
			108	88	88	88	88	88	88
			109	88	88	88	88	88	88
			110	88	88	88	88	88	88
			111	88	88	88	88	88	88
			112	88	88	88	88	88	88
			113	88	88	88	88	88	88
			114	88	88	88	88	88	88
			115	88	88	88	88	88	88
			116	88	88	88	88	88	88
			117	88	88	88	88	88	88
			118	88	88	88	88	88	88
			119	88	88	88	88	88	88
			120	88	88	88	88	88	88
			121	88	88	88	88	88	88
			122	88	88	88	88	88	88
			123	88	88	88	88	88	88
			124	88	88	88	88	88	88
			125	88	88	88	88	88	88
			126	88	88	88	88	88	88
			127	88	88	88	88	88	88
			128	88	88	88	88	88	88
			129	88	88	88	88	88	88
			130	88	88	88	88	88	88
			131	88	88	88	88	88	88
			132	88	88	88	88	88	88
			133	88	88	88	88	88	88
			134	88	88	88	88	88	88
			135	88	88	88	88	88	88
			136	88	88	88	88	88	88
			137	88	88	88	88	88	88
			138	88	88	88	88	88	88
			139	88	88	88	88	88	88
			140	88	88	88	88	88	88
			141	88	88	88	88	88	88
			142	88	88	88	88	88	88
			143	88	88	88	88	88	88
			144	88	88	88	88	88	88
			145	88	88	88	88	88	88
			146	88	88	88	88	88	88
			147	88	88	88	88	88	88
			148	88	88	88	88	88	88
			149	88	88	88	88	88	88
			150	88	88	88	88	88	88
			151	88	88	88	88	88	88
			152	88	88	88	88	88	88
			153	88	88	88	88	88	88
			154	88	88	88	88	88	88
			155	88	88	88	88	88	88
			156	88	88	88	88	88	88
			157	88	88	88	88	88	88
			158	88	88	88	88	88	88
			159	88	88	88	88	88	88
			160	88	88	88	88	88	88
			161	88	88	88	88	88	88
			162	88	88	88	88	88	88
			163	88	88	88	88	88	88
			164	88	88	88	88	88	88
			165	88	88	88	88	88	88
			166	88	88	88	88	88	88
			167	88	88	88	88	88	88
			168	88	88	88	88	88	88
			169	88	88	88	88	88	88
			170	88	88	88	88	88	88
			171	88	88	88	88	88	88
			172	88	88	88	88	88	88
			173	88	88	88	88	88	88
			174	88	88	88	88	88	88
			175	88	88	88	88	88	88
			176	88	88	88	88	88	88
			177	88	88	88	88	88	88
			178	88	88	88	88	88	88
			179	88	88	88	88	88	88
			180	88	88	88	88	88	88
			181	88	88	88	88	88	88
			182	88	88	88	88	88	88
			183	88	88	88	88	88	88
			184	88	88	88	88	88	88
			185	88	88	88	88	88	88
			186	88	88	88	88	88	88
			187	88	88	88	88	88	88
			188	88	88	88	88	88	88
			189	88	88	88	88	88	88
			190	88	88	88	88	88	88
			191	88	88	88	88	88	88
			192	88	88	88	88	88	88
			193	88	88	88	88	88	88
			194	88	88	88	88	88	88
			195	88	88	88	88	88	88
			196	88	88	88	88	88	88
			197	88	88	88	88	88	88
			198	88	88	88	88	88	88
			199	88	88	88	88	88	88
			200	88	88	88	88	88	88

AUG 16, 1982

LIST OF IMPERFECT, DEGRADED, AND DEFECTIVE TUBES

REMARKS/COMMENTS

%

DEFECT
OR OBS

TO

FROM

YEAR

COL

ROW

SIDE

GEN
NO.

OUTLET

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AUG 16, 1982

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	59	80	1980	NO	NO	THINNING	00	CRACKED
		60	80	1980	NO	NO	THINNING	00	
		65	80	1980	NO	NO	THINNING	00	
		43	36	1980	NO	NO	THINNING	00	
		37	80	1980	NO	NO	THINNING	00	
		53	80	1980	NO	NO	THINNING	00	
		55	80	1980	NO	NO	THINNING	00	
		59	80	1980	NO	NO	THINNING	00	
		60	80	1980	NO	NO	THINNING	00	
		62	80	1980	NO	NO	THINNING	00	
		63	80	1980	NO	NO	THINNING	00	
		65	80	1980	NO	NO	THINNING	00	
		44	33	1980	NO	NO	THINNING	00	
		35	80	1980	NO	NO	THINNING	00	
		36	80	1980	NO	NO	THINNING	00	
		37	80	1980	NO	NO	THINNING	00	
		38	80	1980	NO	NO	THINNING	00	
		40	80	1980	NO	NO	THINNING	00	
		41	80	1980	NO	NO	THINNING	00	
		42	80	1980	NO	NO	THINNING	00	
		47	80	1980	NO	NO	THINNING	00	
		48	80	1980	NO	NO	THINNING	00	
		54	80	1980	NO	NO	THINNING	00	
		55	80	1980	NO	NO	THINNING	00	
		56	80	1980	NO	NO	THINNING	00	
		57	80	1980	NO	NO	THINNING	00	
		58	80	1980	NO	NO	THINNING	00	
		59	80	1980	NO	NO	THINNING	00	
		60	80	1980	NO	NO	THINNING	00	
		61	80	1980	NO	NO	THINNING	00	

AUG 16, 1982

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

GEN NO.	SIDE	ROW	COL	YEAR	FROM	TO	DEFECT OR	%	REMARKS/COMMENTS
22	OUTLET	45	37	80	DDDDDD	DDDDDD	NNNNNN	91	7TSP CRACKED HL
			39	80	DDDDDD	DDDDDD	NNNNNN	55	
			41	80	DDDDDD	DDDDDD	NNNNNN	55	
			44	80	DDDDDD	DDDDDD	NNNNNN	55	
			55	80	DDDDDD	DDDDDD	NNNNNN	55	
			41	80	DDDDDD	DDDDDD	NNNNNN	55	
			42	80	DDDDDD	DDDDDD	NNNNNN	55	
			43	80	DDDDDD	DDDDDD	NNNNNN	55	
			45	80	DDDDDD	DDDDDD	NNNNNN	55	
			49	80	DDDDDD	DDDDDD	NNNNNN	55	
			54	80	DDDDDD	DDDDDD	NNNNNN	55	

APPENDIX H

FORM NIS-1

Owners' Data Report for Inservice Inspection

FOR: 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
- 2.) Plant Prairie Island Nuclear Generating Plant, Unit II
 Address Welch, Minnesota
- 3.) Plant Unit II 4.) Owner (Certificate of Authorization) -
- 5.) Commercial Service Date 12-21-74 6.) National Board Number for Unit -
- 7.) Components Inspected

<u>Component or Appurtenance</u>	<u>Manufacturer or Installer</u>	<u>Manufacturer or Installer Serial No.</u>	<u>State or Province No.</u>	<u>National Board No.</u>
B2.0 <u>PRESSURIZER</u>	Westinghouse	1191	---	68-57
B2.1 <u>LONGITUDINAL AND CIRCUMFERENTIAL WELDS</u>				
Long. W-1 W-3 UP	Westinghouse	---	---	---
Long. W-1 W-4 Down	Westinghouse	---	---	---
Circ. W-3	Westinghouse	---	---	---
Circ. W-4	Westinghouse	---	---	---
Circ. W-5	Westinghouse	---	---	---
B2.4 <u>NOZZLE TO SAFE END WELDS</u>				
Relief Line W-1A S.E.	Navco	---	---	---
Spray Line W-22A	Navco	---	---	---
B2.8 <u>INTEGRALLY WELDED VESSEL SUPPORTS</u>				
Skirt Weld W-6	Westinghouse	---	---	---
B2.11 <u>PRESSURE RETAINING BOLTING</u>				
Manway Bolts	Westinghouse	---	---	---
B3.0 <u>HEAT EXCHANGERS AND STEAM GENERATORS</u>				
B3.1 <u>LONGITUDINAL AND CIRCUMFERENTIAL WELDS</u>				
S/G No.21 W-A	Westinghouse	1181	---	68-39
S/G No.22 W-A	Westinghouse	1182	---	68-40

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<u>Component or Appurtenance</u>	<u>Manufacturer or Installer</u>	<u>Manufacturer or Installer Serial No.</u>	<u>State or Province No.</u>	<u>National Board No.</u>
Regenerative Heat Exchanger C W-3	Sentry	3996-11A	---	377
Excess Letdown Heat Exchanger W-1	Atlas	1195	---	1024

B3.10 PRESSURE RETAINING BOLTING

S/G No.21 Manway Bolts Inlet 1 thru 16	Westinghouse	1181		68-39
S/G No.21 Manway Bolts Outlet 1 thru 16	Westinghouse	1181	---	68-39
S/G No.22 Manway Bolts Inlet 1 thru 14	Westinghouse	1182	---	68-40
S/G No.22 Manway Bolts Outlet 1 thru 14	Westinghouse	1182	---	68-40
Excess Letdown Heat Exchanger Flange Bolts 1 thru 12	Atlas	1195	---	1024

STEAM GENERATOR TUBING

FORM NIS-1 OWNERS' DATA REPORT FOR INSERVICE INSPECTIONS

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- 7.) Components Inspected

<u>Component or Appurtenance</u>	<u>Manufacturer or Installer</u>	<u>Manufacturer or Installer Serial No.</u>	<u>State or Province No.</u>	<u>National Board No.</u>
<u>B4.0 PIPING PRESSURE BOUNDARY</u>				
<u>B4.1 SAFE END TO PIPING AND SAFE END IN BRANCH PIPING WELDS</u>				
Relief Line W-1	Navco	---	---	---
Spray Line W-22	Navco	---	---	---
<u>B4.5 CIRCUMFERENTIAL AND LONGITUDINAL PIPE WELDS</u>				
Seal Injection A 1.5" W-3	Navco	---	---	---
Seal Injection A 2" W-8,52,53,54	Navco	---	---	---
Seal Injection B 2" W-11,16,17,18	Navco	---	---	---
Letdown and Drain Line 2" W-9,13	Navco	---	---	---
Safety Injection High Head A 2" W-7	Navco	---	---	---
Safety Injection High Head B 2" W-2	Navco	---	---	---
Drain on Cross-over 4 2" W-6	Navco	---	---	---
Reactor Vessel Safety Injection Low Head A 2" W-2	Navco	---	---	---

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 7.) Components Inspected

<u>Component or Appurtenance</u>	<u>Manufacturer or Installer</u>	<u>Manufacturer or Installer Serial No.</u>	<u>State or Province No.</u>	<u>National Board No.</u>
<u>B4.5 CON'T</u>				
Reactor Vessel Safety Injection Low Head B 2" W-1	Navco	---	---	---
Spray to Pressurizer Branch A 3" W-16,17	Navco	---	---	---
Pressurizer Relief A 3" W-5	Navco	---	---	---
Residual Heat Removal Take Off A 8" W-2,3,4	Navco	---	---	---
Residual Heat Removal Take Off B 8" W-5,6,7	Navco	---	---	---
<u>B4.7 BRANCH PIPE CONNECTION WELDS SIX INCH DIAMETER AND SMALLER</u>				
Reactor Vessel Safety Injection Low Head B 2" W-R	Navco	---	---	---

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<u>Component or Appurtenance</u>	<u>Manufacturer or Installer</u>	<u>Manufacturer or Installer Serial No.</u>	<u>State or Province No.</u>	<u>National Board No.</u>
B4.8 SOCKET WELDS				
Seal Injection A 2" W-10	Navco	---	---	---
Seal Injection B 2" W-12	Navco	---	---	---
Safety Injection 2" W-8 A	Navco	---	---	---
Reactor Vessel Safety Injection Low Head B 2" W-6	Navco	---	---	---
B4.9 INTEGRALLY WELDED SUPPORTS				
Spray to Pres- surizer I, RCRH-4	Navco	---	---	---
Residual Heat Removal Return B D, RHRRH-17	Navco	---	---	---
Reactor Vessel Safety Injection A C, 102-2SIS-1A	Navco	---	---	---
B4.10 SUPPORT COMPONENTS				
Seal Injection A L, PRCVCH-1517 M & M1, PRCVCH- 1516 & 1668 O, PRCVCH-1514 P, PRCVCH-1513	Navco	---	---	---

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- 5.) Commercial Service Date 12-21-74 6.) National Board Number for Unit -
- 7.) Components Inspected

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
Drain on Cross-over A A, 106-2CVCS-18	Navco	---	---	---
Safety Injection High Head A A, PRSIH-243	Navco	---	---	---
Spray to Pressurizer A P, RCRH-10	Navco	---	---	---
Spray to Pressurizer B B, 113-2RC-1 C, 113-2RC-2A C1, 111-2RC-4	Navco	---	---	---
Residual Heat Removal Take Off A I, RHRRH-4 J, 9-2RHR-4 L, RHRRH-6 M, 9-2RHR-3B R, RHRRH-9 V, 9-2RHR-2A	Navco	---	---	---
Seal Injection B F, PRCVCH-1380 H, PRCVCH-1379 I, PRCVCH-1378 J, PRCVCH-1377	Navco	---	---	---
Drain Line and Letdown Line A1, RRCH-291 A2, RRCH-290	Navco	---	---	---

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 7.) Components Inspected

<u>Component or Appurtenance</u>	<u>Manufacturer or Installer</u>	<u>Manufacturer or Installer Serial No.</u>	<u>State or Province No.</u>	<u>National Board No.</u>
Residual Heat Removal Take Off B	Navco			
F, 9-2RHR-18		---	---	---
G, 9-2RHR-17		---	---	---
I, 9-2RHR-16		---	---	---
J,		---	---	---
P, 9-2RHR-11		---	---	---
P1, 9-2RHR-10		---	---	---
Pressurizer Relief A, 112-2RC-4	Navco	---	---	---
Reactor Vessel Safety Injection B	Navco			
A, 48-2SIS-1A		---	---	---
C, 48-2SIS-1B		---	---	---
B4.12 <u>PRESSURE RETAINING BOLTING</u>				
Seal Injection B	Navco	---	---	---
Flange Bolts 1 thru 8				
B6.0 <u>VALVE PRESSURE BOUNDARY</u>				
B6.9 <u>PRESSURE RETAINING BOLTING</u>				
Residual Heat Removal Take Off A	Navco	---	---	---
2-8702 A 1 thru 16				

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- 7.) Components Inspected

<u>Component or Appurtenance</u>	<u>Manufacturer or Installer</u>	<u>Manufacturer or Installer Serial No.</u>	<u>State or Province No.</u>	<u>National Board No.</u>
Pressurizer Spray B 2PCV-431B 1 thru 8	Navco	---	---	---
Pressurizer Relief 2-8000 A 1 thru 6	Navco	---	---	---
Drain on Cross- over A 2-RC-1-1 1 thru 2	Navco	---	---	---
Drain on Cross- over B 2-RC-1-4 1 thru 2	Navco	---	---	---
Letdown Line 2-LCV-428 1 thru 8	Navco	---	---	---

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- 7.) Components Inspected

<u>Component or Appurtenance</u>	<u>Manufacturer or Installer</u>	<u>Manufacturer or Installer Serial No.</u>	<u>State or Province No.</u>	<u>National Board No.</u>
ASME CLASS II				
PRESSURE VESSELS - STEAM GENERATORS				
<u>C1.1 CIRCUMFERENTIAL BUTT WELDS</u>				
Steam Generator No. 21 W-F	Westinghouse	1181	---	68-39
Steam Generator No. 22 W-F	Westinghouse	1182		68-40
RHR HEAT EXCHANGERS				
<u>C1.4 PRESSURE RETAINING BOLTING</u>				
RHR Heat Exchanger No. 22 Flange Bolt 1 thru 28	Joseph Oat & Sons, Inc.	1817-10	---	343
BORIC ACID TANKS				
<u>C1.3 INTEGRALLY WELDED SUPPORTS</u>				
Boric Acid Tanks No. 21 Support A		---	---	---
<u>C1.4 PRESSURE RETAINING BOLTING</u>				
Boric Acid Tank No. 22 Manway Bolts 1 thru 16		---	---	---

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- 7.) Components Inspected

<u>Component or Appurtenance</u>	<u>Manufacturer or Installer</u>	<u>Manufacturer or Installer Serial No.</u>	<u>State or Province No.</u>	<u>National Board No.</u>
<u>C2.0 PIPING</u>				
<u>C2.1 CIRCUMFERENTIAL BUTT WELDS</u>				
Main Steam A MS-15	Navco	---	---	---
Feed Water A FW-133	Navco	---	---	---
Feed Water B FW-177	Navco	---	---	---
Containment Sump B Discharge W-18	Navco	---	---	---
Safety Injection Pump Suction W-108,148,157,127	Navco	---	---	---
Refueling Water Storage Tank Discharge W-49, 69W, 75	Navco	---	---	---
Residual Heat Removal Pump Suction W-120,123,134,153 139,119	Navco	---	---	---
Residual Heat Removal Pump Discharge W-177,178,1411,192, 71,154,90,96,97	Navco	---	---	---

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- 7.) Components Inspected

<u>Component or Appurtenance</u>	<u>Manufacturer or Installer</u>	<u>Manufacturer or Installer Serial No.</u>	<u>State or Province No.</u>	<u>National Board No.</u>
Boric Acid Supply W-37,2,26,32,34,40	Navco	---	---	---
Reactor Vessel Safety Injection W-349	Navco	---	---	---

C2.2 LONGITUDINAL WELDED JOINTS IN FITTINGS

Containment Sump B Discharge W-19 to 20R	Navco	---	---	---
Refueling Water Storage Tank Discharge W-68W to 39W	Navco	---	---	---
Residual Heat Removal Pump Discharge W-176 to 177, W-1411 to 291	Navco	---	---	---

C2.5 INTEGRALLY WELDED SUPPORTS

Main Steam B B, MSH - 48	Navco	---	---	---
G, MSH - 44		---	---	---
J, MSH - 35		---	---	---
K, MSH - 25		---	---	---
Feedwater A F, FWH - 70	Navco	---	---	---
I, FWH - 75		---	---	---
J, FWH - 60		---	---	---
Feedwater B C, FWH - 64	Navco	---	---	---

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- 7.) Components Inspected

<u>Component or Appurtenance</u>	<u>Manufacturer or Installer</u>	<u>Manufacturer or Installer Serial No.</u>	<u>State or Province No.</u>	<u>National Board No.</u>
<u>C2.5 CC'T.</u>				
Safety Injection Pump Suction E, CSH-212	Navco	---	---	---
<u>C2.6 Support Components</u>				
Main Steam B Q, MSH-90	Navco	---	---	---
Residual Heat Removal Pump Suction D1, RHRH-65 G, RHRH-18 H, RHRH-19 L, RHRH-13 N, RHRH-22 D, RHRH-12	Navco	---	---	---
Residual Heat Removal Discharge B, RHRH-60 A, RHRH-28 L, RHRH-37 I, RHRH-45 I, RHRH-46 H, RHRH-16 I, RHRH-17	Navco	---	---	---
Containment Sump B, Discharge E, RHRH-4 D, RHRH-1	Navco	---	---	---

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<u>Component or Appurtenance</u>	<u>Manufacturer or Installer</u>	<u>Manufacturer or Installer Serial No.</u>	<u>State or Province No.</u>	<u>National Board No.</u>
Boric Acid Supply To Safety Injection C, SIH-2 E, SIH-53 F, SIH-52 I, SIH-6 N, SIH-11	Navco	---	---	---
Refueling Water Storage Tank Discharge C, SIH-14	Navco	---	---	---

C3.0 PUMPS

C3.2 PRESSURE RETAINING BOLTING

RHR Pump #21 Flange Bolts	Joseph Oats & Sons, Inc.	1817-1C	---	342
SI Pump #21 Discharge Flange Bolts	Bingham	290698	---	---
SI Pump #21 Outboard Bolts	Bingham	290698	---	---
SI Pump #22 Drive End Bolts	Bingham	290699	---	---

C3.3 INTEGRALLY WELDED SUPPORTS

RHR Pump #21 Q, Pump Base	Joseph Oats & Sons, Inc.	1817-1C	---	342
SI Pump #21 Support A Support B Support E	Bingham	290698	---	---

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<u>Component or Appurtenance</u>	<u>Manufacturer or Installer</u>	<u>Manufacturer or Installer Serial No.</u>	<u>State or Province No.</u>	<u>National Board No.</u>
SI Pump #22	Bingham	290699	---	---
Support C				
Support D				
Support F				

C3.4 SUPPORT COMPONENTS

RHR Pump #21	Joseph Oats	1817-1C	---	342
P, RHR-53	& Sons, Inc.			
E, RHRH-54				
F, RHRH-55				

C4.0 VALVES

C4.2 PRESSURE RETAINING BOLTING

Main Steam B	Navco			
RS-21-17		---	---	---
RS-21-19		---	---	---
Accumulator	Navco	---	---	---
Discharge				
2-8000A				

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<u>Component or Appurtenance</u>	<u>Manufacturer or Installer</u>	<u>Manufacturer or Installer Serial No.</u>	<u>State or Province No.</u>	<u>National Board No.</u>
--------------------------------------	--------------------------------------	-----------------------------------------------------	----------------------------------	-------------------------------

FSAR AUGMENTED MAIN STEAM AND FEEDWATER

C2.0 PIPING

C2.1 CIRCUMFERENTIAL BUTT WELDS

Main Steam A MS-18,174,50	Navco	---	---	---
Main Steam B MS-181,127,134, 138,112	Navco	---	---	---
Feedwater A FW-137,143,145,159	Navco	---	---	---
Feedwater B FW-110,111,201	Navco	---	---	---

C2.1 LONGITUDINAL WELD JOINTS IN FITTINGS

Main Steam A MS-20 to 21	Navco	---	---	---
Main Steam B MS-101 to 182 to 182A MS-123 to 126	Navco	---	---	---

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<u>Component or Appurtenance</u>	<u>Manufacturer or Installer</u>	<u>Manufacturer or Installer Serial No.</u>	<u>State or Province No.</u>	<u>National Board No.</u>
<u>SEISMIC BOLTING</u>				
<u>STEAM GENERATOR</u> <u>NUMBER 21</u>	Westinghouse	1181	---	68-39
Helicoil Screws Column 1 thru 4 24 Screws		---	---	---
<u>STEAM GENERATOR</u> <u>NUMBER 22</u>	Westinghouse	1182	---	69-40
Helicoil Screws Column 1 thru 4 24 Screws		---	---	---
<u>REACTOR COOLANT PUMP</u> <u>NUMBER 21</u>	Westinghouse	W510	---	---
Tie Back Bolt Pad 3		---	---	---

FORM NIS-1 (back)

8.) Examination Dates 6-1-82 to 7-9-82 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 first inservice inspection conducted for inspection period three. The examinations completed approximately 30% 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 examination of main steam and feedwater systems transversing the Auxillary Building. Eddy Current examination requirements for steam generator tubes during this outage was also completed in accordance with Prairie Island Technical Specification, Section T.S. 4.12.

11.) Abstract of Conditions Noted.

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

The eddy current inspection revealed tubes which exhibited wall thinning. There were a total of 43 and 47 tubes for S.G. No. 21 and 22, respectively, that were found to exhibit thinning $\geq 20\%$ of the tube wall during this outage. A cumulative total, including previous outage date, shows 115 and 164 tubes for S.G. 21 and 22, respectively, having $\geq 20\%$ degradation of the tube wall.

The following is a list of all anomalies detected:

<u>System</u>	<u>Item ID</u>	<u>Exam Method</u>	<u>Type & Number of Indications</u>
Safety Injection	E, Hanger	VT	loose nut
Boric Acid Tank	A, Support	PT	3 linears
Feedwater A	FW-145	MT	2 linears
Feedwater B	FW-133	MT	2 linears
	FW-137	MT	2 linears
RHR Loop B	I, Hanger	VT	loose nut
Seal Injection	J, Hanger	VT	missing bolt
Steam Generator No. 22	W-A	UT	3 indications

12.) Abstract of Corrective Measures Recommended and Taken.

All degraded S.G. tubes with wall thinning of 45% at tube support plates and 42% at anti-vibration-bars were mechanically plugged; a total of 15 for S.G. No. 21 and 12 for S.G. No. 22.

All anomalies, with the exception of the UT indications on Steam Generator No. 22, were corrected. The loose nuts were tightened. The missing bolt on the seal injection Hanger J was re-analyzed and found acceptable. The hanger drawing was submitted to drawing control to indicate "as built" conditions. The Linear MT and PT indications were removed by light hand grinding and blending the surface smooth. All indications were corrected and re-examined with the same method that located them.

The ultrasonic indications on Steam Generator No. 22 W-A were accepted as is, based on the original casting film, the new radiographic film, as UT results from 0° and 45° examinations, the through wall dimensional indications as revealed by Ultrasonic examination at 61° could not be considered relevant at this time.

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 Sept 15 19 82 Signed NORTHERN STATES POWER Co. By [Signature]

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 MINNESOTA and employed by Hartford Steam Boiler Insp. & Ins. Co. of Hartford Conn. have inspected the components described in this Owner's Data Report during the period 6-1-82 to 7-9-82, 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 connecting with this inspection.

Date Sept. 15 1982

[Signature]

Inspector's Signature

Commissions NB 6932 MN. 200-69

National Board, State, Province & No.