



PRAIRIE ISLAND NUCLEAR GENERATING PLANT

Red Wing, Minnesota

UNITS 1 AND 2



INSERVICE INSPECTION - EXAMINATION SUMMARY

PRAIRIE ISLAND NUCLEAR GENERATING PLANT - UNIT 1

JANUARY 14, 1985 THRU FEBRUARY 22, 1985

REFUELING OUTAGE 9

INSPECTION PERIOD 1

SECOND INTERVAL

NORTHERN STATES POWER COMPANY

MINNEAPOLIS, MINNESOTA

8505290172 850521
PDR ADOCK 05000282
G PDR

REPORT DATE:
MAR 6, 1985

COMMERCIAL SERVICE
DATE: DEC. 16, 1973

NORTHERN STATES POWER COMPANY

PRAIRIE ISLAND NUCLEAR GENERATING PLANT - UNIT 1

INSERVICE INSPECTION - EXAMINATION SUMMARY

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Report Date:
MAY 6, 1985

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Inservice Inspection - Examination Summary
PRAIRIE ISLAND NUCLEAR GENERATING PLANT - UNIT 1

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INSERVICE INSPECTION - EXAMINATION SUMMARY
PRAIRIE ISLAND NUCLEAR GENERATING PLANT - UNIT 1
JANUARY 14, TO FEBRUARY 22, 1985

1.0 INTRODUCTION

This report is a summary of the examinations performed during the ninth inservice inspection at the Prairie Island Nuclear Generating Plant - Unit 1. This was the first inservice inspection to be conducted in inspection period one of the plant's 2nd ten year interval. The examinations were performed during the plant's ninth refueling outage from January 14, 1985 through February 22, 1985. Prairie Island - Unit 1 began commercial operation on December 16, 1973.

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

1. Balance of Plant
 - a) Pressure retaining components and supports of the reactor coolant and associated systems classified as ASME Class 1 and 2.
 - b) FSAR augmented examinations of main steam and feedwater systems.
2. Reactor pressure vessel remote tool examinations.
3. Eddy current examinations of steam generator tubing.
4. Safety injection line replacement

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 7 tubes in S.G. 11 and 9 tubes in S.G. 12 were mechanically plugged.

3.0 BALANCE OF PLANT

3.1 EXAMINATION PLAN

The examination plan focused on the pressure-retaining components and their supports of the reactor coolant and associated auxiliary systems classified as ASME Class 1, Class 2, and FSAR Augmented examination of main steam and feedwater systems.

In addition, the examinations complied with Prairie Island's Technical Specification, Section TS 4.2 and as required by Volume 6, Appendix I of the Prairie Island USAR. The examination is in accordance with the program submitted to the United States Nuclear Regulatory Commission on October 14, 1983 entitled, "ASME Code Section XI Inservice Inspection and Testing Program and Information Required for NRC Review of Request for Relief from ASME Code Section XI Requirements".

3.2 EXAMINATION METHODS

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

Liquid penetrant or magnetic particle examination methods were used to perform the surface examinations. The liquid penetrant examinations were performed using color contrast solvent removable materials. Magnetic particle examinations were performed using either a Y-6 yoke and dry powder or an AC L-10 coil with fluorescent prepared bath.

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

3.3 EXAMINATION PROCEDURES

The ultrasonic examination procedures for piping welds complied with the requirements of Appendix III of ASME Section XI that was issued in the Winter 1981 Addenda. All other examination procedures complied with the requirements of the 1980 Edition through and including the Winter 1981 Addenda of ASME Section XI. A listing of the procedures used for the examinations is shown in Table III of Appendix E.

3.4 EQUIPMENT AND MATERIALS

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

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

3.5 PERSONNEL

Northern States Power Company contracted Lambert, MacGill and Thomas Inc. to perform balance of plant examinations; Westinghouse Electric Corporation for the reactor vessel remote tool examinations and the eddy current examination of the steam generator tubing; and Conam Inspection for 2nd party review of eddy current data. Hartford Steam Boiler Inspection and Insurance Company, representing ANI, provided the Authorized Inspection.

3.6 EVALUATION

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

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

3.7 EXAMINATION REPORTS AND DOCUMENTATION

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

Table I of Appendix A, B, C and D summarizes all the examinations performed to date and identifies the amount that will be examined in the future to complete the ten year examination requirements. For retrieval purposes, the prefix of the inspection report number corresponds with the year the inspection was performed. The examination report numbers for this outage are prefixed with "85".

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

3.8 SUMMARY OF RESULTS

The following is a list 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 & NO. OF INDICATIONS</u>
DRAIN ON	RPCH-151	VT	LOAD SETTINGS
CROSSOVER A	RPCH-17	VT	NO DRAWING
PZR RELIEF	W-14	PT	LINEAR
PZR SURGE	134-RC-5	VT	LOOSE BOLT
ACCUMULATOR	SIRH-21	VT	LOAD SETTINGS
DISCHARGE	RHRRH-41	VT	DRAWING COMPLIANCE

<u>SYSTEM</u>	<u>ITEM ID</u>	<u>EXAM METHOD</u>	<u>TYPE & NO. OF INDICATIONS</u>
R.V.S.I.	W-11	VT	GOUGES
SEAL INJECTION LOOP A	W-44 RCVCH-871	PT VT	LINEAR DRAWING COMPLIANCE
SEAL INJECTION LOOP B	RCVCH-1294	VT	SLAG & UNDERCUT
SPRAY TO PZR	RCRH-13 RCRH-14 RCRH-18	PT VT VT	LINEARS DRAWING COMPLIANCE AND LOOSE ROD DRAWING COMPLIANCE
RTD LOOP A	8001A	VT	BORIC ACID DEPOSIT
CVCS LETDOWN	RPCH-140 RPCH-121	VT VT	DRAWING COMPLIANCE DRAWING COMPLIANCE
CHARGING LINE	RCVCH-910	VT	UNDERSIZE WELD
S/G SUPPORTS	PAD 4 PAD 2 FIXTURE 1 PAD 1 PAD 4 & 5	VT VT VT VT VT	FLAME CUT HOLES FLAME CUT HOLES THREAD ENGAGEMENT BORIC ACID, BENT WASHER BORIC ACID DEPOSIT
RHR SYSTEMS	W-154 RHRH-31 RHRH-40 RHRH-1 RHRH-139	PT VT PT, VT VT VT	LINEAR (9/16") INCOMPLETE FUSSION (1/4") LINEARS, UNDERCUT NO LOAD MARKERS LOAD SETTINGS
MAIN STEAM B	MSDH-24	VT	LOAD SETTINGS

All anomalies were either corrected or an engineering evaluation was performed to accept "as is". The linear PT indications were removed by light hand grinding and blending the area smooth; the slag on hanger RCVCH-1294 was removed and the undercut reevaluated and found acceptable; the hangers with loose rod or bolt were tightened; the hangers with incorrect load settings were accepted and the drawings are to be updated to show actual settings; the missing hanger drawing is to be made and incorporated into the drawing system; the hanger drawing compliances are to be updated to show actual configurations; the remainder of the items that contained flame cut holes, thread engagement, boric acid deposits, undersized welds, bent washers, and no load markers were evaluated and found acceptable through engineering evaluations.

4.0 EXAMINATION OF THE STEAM GENERATOR TUBING

Multi-frequency eddy current examinations of the tubing in steam generators No. 11 and No. 12 were performed during this outage. The program consisted of full length tube examinations including row 4 through the outer peripheral rows on both steam generators. The remainder of the tubes (rows 1-3) in each generator were examined from the point of entry on the hot-leg side completely around the u-bend to the top support of the cold-leg. In addition, a separate hot-leg tubesheet examination (0.740 inch diameter probe) was performed in all accessible tubing in each steam generator. All examinations were conducted from the hot-leg (inlet) side of the generators.

Westinghouse, with technical support from Zetec Corporation, was contracted to perform and evaluate the data from the eddy current examinations. These examinations were performed using Westinghouse's digital multi-frequency (MIZ-18) eddy current test system. This system provides improved analytical capabilities for determining tube integrity. The frequencies utilized for each examination were 400 KHz, 200 KHz, 100 KHz, and 10 KHz in both the absolute and differential modes. In addition, NSP contracted Conam, Inc. to perform second level review of 100% of all data.

The total number of tubes examined this outage is shown in Table I. A summary of the tubes exhibiting eddy current indications is shown in Table II and a cumulative listing is found in Appendices F and G for S.G. No. 11 and No. 12, respectively. Table III is a summary of those tubes which were mechanically plugged this outage. Table IV consists of the total numbers of tubes plugged in S.G. No. 11 and No. 12 to date with the location of these tubes being exhibited in Appendices F and G.

TABLE I

Eddy Current Examination Extent - Accessible Tubes

Examination Extent	<u>S/G 11</u>		<u>S/G 12</u>	
	<u>Amount</u>	<u>%</u>	<u>Amount</u>	<u>%</u>
Full Length	3063	91.6	3095	91.8
Around U-Bend	282	8.4	275	8.2

TABLE II

Summary of Tubes With Eddy Current Indications*

<u>% of Wall Thinning</u>	<u>S/G 11</u>	<u>S/G 12</u>
20	109	62
20-29	59	15
30-39	27	8
40	6	6
Others**	32	36

* Categorized by largest, when multiple indications are present.

** Includes squirrels, undefined and/or distorted signals.

TABLE III

Summary of Plugged Tubes - 1985 Outage

<u>Steam Generator</u>	<u>Tube R</u>	<u>C</u>	<u>% of Wall</u>	<u>Indication Location</u>
11	29	46	42	#2 AVB
	32	53	43	#3 AVB
	46	53	51	#1 TSP - CL
	41	58	41	#2 AVB
	41	59	48	#3 AVB
	36	61	39	#2 AVB
	34	76	53	#1 TSP - CL
12	6	18	80	5.1" from TE - HL
	4	19	57	8.2" from TE - HL
	15	33	31	4.5" from TE - HL
	16	33	N/A	None - Tube Pulled
	20	34	SQR	7.2" from TE - HL
	30	34	SQR	7.6" from TE - HL
	1	39	70	4.2" from TE - HL
	27	85	43	#1 TSP - CL
	25	86	42	#1 TSP - CL

AVB = ANTI-VIBRATION BAR

TE = TUBE END

TSP = TUBE SUPPORT PLATE

CL = COLD LEG

HL = HOT LEG

SQR = UNQUANTIFIABLE TUBE DEGRADATION

TABLE IV

Total Tubes Plugged to Date

<u>S/G 11</u>	
Amount	%
50	1.5

<u>S/G 12</u>	
Amount	%
27	0.8

5.0 REACTOR PRESSURE VESSEL EXAMINATIONS

Westinghouse was contracted to perform the reactor pressure vessel volumetric examinations utilizing their remotely operated ultrasonic inspection tool. Examinations were performed in accordance with Section XI of the ASME code, 1980 Edition, through and including Winter 1981 Addenda; NRC Regulatory Guide 1.150, "Ultrasonic Testing of Reactor Vessel Welds During Preservice and Inservice Examinations," Revision 1, Appendix A, "Alternative Method"; and Prairie Island Technical Specification, Section TS 4.2.

Examination areas included the shell-to-flange weld; flange ligaments; and the vessel-to-nozzle welds, safe-end welds, and inner radius sections for both of the outlet nozzles. The extent of examination in these areas was comprised of the maximum allowable percentages for which credit may be taken (1st Period, 2nd Interval) as described in the referenced ASME Code section. No reportable indications were observed in these examination areas.

Copies of the procedures used, inspection program details, inspection and evaluation data, and personnel certifications are contained under a separate report prepared by Westinghouse. This report is maintained on file by Northern States Power Company.

6.0 SAFETY INJECTION SYSTEM

The Unit 1 boric acid supply line for the safety injection system was replaced during this outage. This replacement was the result of trans-granular stress corrosion cracking initially observed in January 1983. In response to the NRC staff evaluation meeting documented April 18, 1983, ten (10) welds have been ultrasonically examined every six (6) months, since the original leakage, to ensure system integrity.

The design and fabrication of the new line utilizes 8" schedule 40, 304L stainless steel piping to replace the existing 8" schedule 10, stainless steel piping. The fabrication and replacement process has been ongoing throughout 1984 and the majority of the piping installed prior to the start of Unit 1's outage. The prior installation was accomplished by rerouting the line to allow for final tie-in during the outage in a timely manner.

All baseline liquid penetrant examinations were completed, along with radiographic examinations at the time of weld completion. The examination reports are filed with the installation records and maintained on file at the plant. In addition to the ASME Section XI code requirements, ultrasonic examinations were conducted on approximately 66% of the welds. The examination will be used for future reference, if ultrasonic examinations are performed.

The ultrasonic examinations performed on the system utilize a new procedure that follows the guidelines of EPRI's generic procedure for investigation of intergranular stress corrosion cracking. This procedure requires scanning sensitivity to be +14dB above reference. The ultrasonic examination reports are identified, for retrieval, by the year of the examination followed by a sequential number and finally by the letters "BL" to designate baseline examination.

APPENDIX A
ASME CLASS 1 EXAMINATIONS

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE 51.1
PAGE 1 OF 6

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.
B1.10	B-A	<u>PRESSURE RETAINING WELDS</u> <u>IN REACTOR VESSELS</u>	THREE	100%	-	W-3	85-W REPORT
B1.11		CIRCUMFERENTIAL WELDS	-	-	-	-NONE-	
B1.12		LONGITUDINAL WELDS	-	-	-	-NONE-	
B1.20	B-A	<u>HEAD WELDS</u>					
B1.21		CIRCUMFERENTIAL WELDS	THREE	100%	-	W-5	
B1.22		MERIDONAL WELDS	-	-	-	-NONE-	
B1.30	B-A	<u>SHELL-TO-FLANGE WELD</u> <u>VESSEL-TO-FLANGE</u>	ONE THREE	50% 50%	50% -	W-1 W-1	
B1.40	B-A	<u>HEAD-TO-FLANGE WELD</u> <u>HEAD-TO-FLANGE</u>	ONE TWO THREE	33% 34% 33%	- - -	W-6 W-6 W-6	
B1.50	B-A	REPAIR WELDS	-	-	-	-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.
B3.90	B-D	<u>FULL PENETRATION WELDS OF NOZZLE IN VESSEL INSPECTION PROGRAM B</u>					
	B-D	<u>NOZZLE-TO-VESSEL WELD AND NOZZLE INSIDE RADIUS SECTION</u>					
		REACTOR CORE COOLANT NOZZLES OUTLET NOZZLES INLET NOZZLES SAFETY INJECTION NOZZLES	ONE THREE ONE THREE	2 2 1 1	2 - - -	W-7, W-10	85-W REPORT
B4.10	B-E	<u>PRESSURE RETAINING PARTIAL PENETRATION WELDS IN VESSEL</u>					
B4.11	B-E	<u>PARTIAL PENETRATION WELDS VESSEL NOZZLES</u>					
		HEAD VENT	*	1	*	1-RC-36 TO RC-8-5	* EACH ITEM INSPECTED BY PLANT PERSONNEL DURING EACH REACTOR VESSEL LEAKAGE TEST
B4.12	B-E	<u>CONTROL ROD DRIVE NOZZLES</u>					
		CONTROL ROD DRIVE PENETRATIONS	ONE TWO THREE	3 3 4	* * *		

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 1

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S1.1PAGE 3 OF 6MAJOR 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.
B4.13	B-E	<u>INSTRUMENTATION NOZZLES</u>					
		INSTRUMENTATION PENETRATIONS	ONE	3	*		
			TWO	3	*		
			THREE	3	*		
	B-F	<u>PRESSURE RETAINING DISSIMILAR METAL WELDS</u>					
B5.10	B-F	<u>NOMINAL PIPE SIZE 4" AND GREATER, NOZZLE-TO-SAFE END BUTT WELDS</u>					
		OUTLET NOZZLE SAFE END WELDS	ONE	1	2	RCC-A-1 S.E. (JT)	85-W REPORT
			TWO	1		RCC-B-1 S.E. (UT)	85-W REPORT
		INLET NOZZLE SAFE END WELDS	THREE	2			
		REACTOR VESSEL SAFETY INJECTION NOZZLE SAFE END WELDS	ONE	1			
			THREE	1			
B5.20	B-F	<u>NOMINAL PIPE SIZE LESS THAN 4"</u>	-	-	-	-NONE-	
B5.30	B-F	SOCKET WELDS	-	-	-	-NONE-	
	B-G-1	<u>PRESSURE RETAINING BOLTING, GREATER THAN 2" IN DIAMETER</u>					
B6.10	B-G-1	<u>CLOSURE HEAD NUTS</u>	ONE	16	-		
			TWO	16	-		
			THREE	16	-		
B6.20	B-G-1	<u>CLOSURE STUDS, IN PLACE</u>	-	-	-	-NONE-	

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 1

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE Sl.1

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MAJOR ITEM: REACTOR VESSEL

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENT'FICATION	INSPECTION REPORT NO.
B6.30	B-G-1	<u>CLOSURE STUDS, WHEN REMOVED</u>	ONE TWO THREE	16 16 16	- - -		
B6.40	B-G-1	<u>THREADS IN FLANGE</u>	ONE TWO THREE	16 14 18	24 - -	1 THRU 24	85-W REPORT
B6.50	B-G-1	<u>CLOSURE WASHERS, BUSHINGS</u>					
		WASHERS (PAIRS)	ONE TWO THREE	16 16 16	- - -		
		BUSHINGS	-	-	-	-NONE-	
	B-G-2	<u>PRESSURE RETAINING BOLTING, 2" AND LESS IN DIAMETER</u>					
B7.10		<u>BOLTS, STUDS AND NUTS</u>					
		CONOSEAL	ONE TWO THREE	3 3 3	- - -		
		<u>CRD HOUSINGS</u>					
B7.80	B-G-1	<u>BOLTS, STUDS AND NUTS</u>	-	-	-	-NONE-	
	B-H	<u>INTEGRAL ATTACHMENTS FOR VESSELS</u>					
B8.10	B-H	<u>INTEGRALLY WELDED ATTACHMENTS</u>					
		SUPPORT LUG	THREE	2	-		

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 1

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S1.1

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MAJOR ITEM: REACTOR VESSEL

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
B13.10	B-N-1	<u>INTERIOR OF REACTOR VESSEL</u>					
	B-N-1	<u>VESSEL INTERIOR</u> UPPER INTERNALS, LOWER INTERNALS, THERMAL SHIELD, FIXTURES, DRIVE RODS	ONE TWO THREE	* * *	* - -	* REPRESENTATIVE REGIONS OF THOSE INTERIOR SURFACES AND INTERNALS MADE ACCESSIBLE BY THE REMOVAL OF COMPONENTS DURING NORMAL REFUELING OPERATIONS.	
B13.20	B-N-2	<u>INTEGRALLY WELDED CORE SUPPORT STRUCTURES AND INTERIOR ATTACHMENTS TO REACTOR VESSEL</u>					
	B-N-2	<u>INTERIOR ATTACHMENTS AND CORE SUPPORT STRUCTURES</u>	-	-	-	- NOT APPLICABLE FOR PWR VESSELS	
	B-N-3	<u>REMOVABLE CORE SUPPORT STRUCTURES</u>					
B13.30	B-N-3	<u>CORE SUPPORT STRUCTURES</u>	THREE	*	-	* 100% OF THE ACCESSIBLE ATTACHMENT WELDS AND VISUALLY ACCESSIBLE SURFACES OF THE SUPPORT STRUCTURE.	
B14.10	B-0	<u>PRESSURE RETAINING WELDS IN CONTROL ROD HOUSINGS</u>					
	B-0	<u>WELDS IN CRD HOUSINGS</u> PERIPHERAL CRD HOUSINGS	ONE THREE	- 2	3 -	BASELINE H-4698-1 H-6677-1 J-1064	85-12' 85-120 85-145, 146

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 1

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S1.1PAGE 6 OF 6

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.
	B-P	ALL PRESSURE RETAINING COMPONENTS					
B15.10	B-P	PRESSURE RETAINING BOUNDARY	*	-	-		* 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
B15.11	B-P	PRESSURE RETAINING BOUNDARY	*	-	-		

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT I

TABLE S1.2

PAGE 1 OF 3

INSERVICE INSPECTION-EXAMINATION SUMMARY

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.
	B-B	<u>PRESSURE RETAINING WELDS IN OTHER THAN REACTOR VESSELS</u>					
B2.10	B-B	<u>SHELL TO HEAD WELDS</u>					
B2.11	B-B	<u>CIRCUMFERENTIAL WELDS</u>					
		WELD 3	ONE TWO THREE	33% 34% 33%	- - -		
		WELD 5	ONE TWO THREE	33% 34% 33%	- - -		
		WELD 4	ONE TWO THREE	33% 34% 33%	- - -		
B2.12	B-B	<u>LONGITUDINAL WELDS</u>					
		WELD 1	ONE	10%	-		
		WELD 2	TWO	10%	-		
B2.20	B-B	<u>HEAD WELDS</u>	-	-	-	-NONE-	
	B-D	<u>FULL PENETRATION WELDS OF NOZZLE IN VESSELS - INSPEC- TION PROGRAM B</u>					
B3.110	B-D	<u>NOZZLE TO VESSEL WELDS</u>	-	-	-	-NONE-	

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT I

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S1.2PAGE 2 OF 3MAJOR 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.
B3.120	B-D	<u>NOZZLE INSIDE RADIUS SECTION</u>					
		SPRAY NOZZLE	ONE	1	*		* RELIEF NO. 66
		RELIEF NOZZLE	TWO	1	*		
		SAFETY A NOZZLE	TWO	1	*		
		SAFETY B NOZZLE	THREE	1	*		
		SURGE NOZZLE	THREE	1	*		
	B-E	<u>PRESSURE RETAINING PARTIAL PENETRATION WELDS IN VESSELS</u>					
B4.20	B-E	<u>HEATER PENETRATION WELDS</u>	*	21/10 YRS	*		* EACH ITEM INSPECTED BY PLANT PERSONNEL
	B-F	<u>PRESSURE RETAINING DISSIMILAR METAL WELDS</u>					
B5.40	B-F	<u>NOMINAL PIPE SIZE 4" AND GREATER NOZZLE-TO-SAFE END BUTT WELDS</u>					
		SAFETY LINE	ONE	2	1	8010A-1 S.E.	85-042, 053
		SURGE LINE	TWO	1	-		
		RELIEF LINE	THREE	1	-		
		SPRAY LINE	THREE	1	-		
B5.50	B-F	<u>NOMINAL PIPE SIZE LESS THAN 4"</u>	-	-	-	-NONE-	
B5.60	B-F	<u>SOCKET WELDS</u>	-	-	-	-NONE-	

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 1TABLE S1.2PAGE 3 OF 3

INSERVICE INSPECTION-EXAMINATION SUMMARY

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.
B7.20	B-G-1	<u>PRESSURE RETAINING BOLTING, GREATER THAN 2" IN DIAMETER</u>	-	-	-	-NONE-	
	B-G-2	<u>PRESSURE RETAINING BOLTING, 2" AND LESS IN DIAMETER</u>					
	B-G-2	<u>BOLTS, STUDS AND NUTS</u>					
		MANWAY BOLTS	ONE TWO THREE	5 5 6	- - -		
B8.20	B-H	<u>INTEGRAL ATTACHMENTS FOR VESSELS</u>					
	B-H	<u>INTEGRALLY WELDED ATTACHMENTS</u>					
		SUPPORT SKIRT	ONE TWO THREE	33% 33% 34%	- - -		
	B-P	<u>ALL PRESSURE RETAINING COMPONENTS</u>					
B15.20	B-P	<u>PRESSURE RETAINING BOUNDARY</u>	*	-	-		* 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.
B15.21	B-P	<u>PRESSURE RETAINING BOUNDARY</u>	*	-	-		

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 1

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S1.3PAGE 1 OF 3MAJOR 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.
	B-B	<u>PRESSURE RETAINING WELDS IN OTHER THAN REACTOR VESSELS</u>					
B2.30	B-B	<u>HEAD WELDS</u>	-	-	-	-NONE-	
B2.40	B-B	<u>TUBESHEET-TO-HEAD WELDS</u>					
		STEAM GENERATOR NO. 11 W-A.	ONE TWO THREE	33% 34% 33%	- - -		
		STEAM GENERATOR NO. 12 W-A	ONE TWO THREE	33% 34% 33%	- - -		
	B-D	<u>FULL PENETRATION WELDS OF NOZZLE IN VESSELS - INSPECTION PROGRAM B</u>					
B3.130	B-D	<u>NOZZLE TO VESSEL WELDS</u>	-	-	-	-NONE-	
B3.140	B-D	<u>NOZZLE INSIDE RADIUS SECTION</u>					
		STEAM GENERATOR NO. 11 INLET NOZZLE OUTLET NOZZLE	ONE THREE	1 1	*- *-		* RELIEF NO. 66
		STEAM GENERATOR NO. 12 INLET NOZZLE OUTLET NOZZLE	THREE TWO	1 1	*- *-		* RELIEF NO. 66

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT I

TABLE S1.3

PAGE 2 OF 3

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.
B5.70	B-F	<u>PRESSURE RETAINING DISSIMILAR METAL WELDS</u>					
	B-F	<u>NOMINAL PIPE SIZE 4" AND GREATER, NOZZLE-TO-SAFE END BUTT WELDS</u>					
		STEAM GENERATOR NO. 11 INLET OUTLET	ONE THREE	1 1	- -		
		STEAM GENERATOR NO. 12 INLET OUTLET	ONE THREE	1 1	- -		
B5.80	B-F	<u>NOMINAL PIPE SIZE LESS THAN 4"</u>	-	-	-	-NONE-	
B5.90	B-F	<u>SOCKET WELDS</u>	-	-	-	-NONE-	
B6.90	B-G-1	<u>PRESSURE RETAINING BOLTING GREATER THAN 2" IN DIAMETER</u>	-	-	-	-NONE-	
	B-G-2	<u>PRESSURE RETAINING BOLTING, 2" AND LESS IN DIAMETER</u>					
B7.30	B-G-2	<u>BOLTS, STUDS AND NUTS</u>					
		STEAM GENERATOR NO. 11 INLET MANWAY	ONE TWO THREE	5 5 6	16 - -	BOLTS, 1 THRU 16	85-023, 032
		OUTLET MANWAY	ONE TWO THREE	5 5 6	16 - -	BOLTS, 1 THRU 16	85-023, 032

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT I

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S1.3

PAGE 3 OF 3MAJOR 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.
B7.30	B-G-2	STEAM GENERATOR NO. 12 INLET MANWAY	ONE TWO THREE	5 5 6	16 - -	BOLTS, 1 THRU 16	85-022, 023
		OUTLET MANWAY	ONE TWO THREE	5 5 6	16 - -	BOLTS, 1 THRU 16	85-022, 023
B8.30	B-H	<u>INTEGRAL ATTACHMENTS FOR VESSELS</u>	-	-	-	-NONE-	
	B-P	<u>ALL PRESSURE RETAINING COMPONENTS</u>					
B15.30	B-P	<u>PRESSURE RETAINING BOUNDARY</u>	*	-	-		* 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
B15.31	B-P	<u>PRESSURE RETAINING BOUNDARY</u>	*	-	-		

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT I

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S1.4.1

PAGE 1 OF 2

MAJOR ITEM: REGENATIVE 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.
	B-B	<u>PRESSURE RETAINING WELDS IN OTHER THAN REACTOR VESSELS</u>					
B2.60	B-B	<u>TUBESHEET-TO-HEAD WELDS</u>					
		EXCHANGER A	ONE	100%	-		RELIEF NO. 45
		EXCHANGER B	TWO	100%	-		RELIEF NO. 45
		EXCHANGER C	THREE	100%	-		RELIEF NO. 45
	B-D	<u>FULL PENETRATION WELDS OF NOZZLES IN VESSELS - INSPECTION PROGRAM B</u>					
B3.150	B-D	<u>NOZZLE TO VESSEL WELDS</u>	-	-	-	-NONE-	
B3.160	B-D	<u>NOZZLE INSIDE RADUISED SECTION</u>					
		EXCHANGER A	ONE	2	*		* RELIEF NO. 66
		EXCHANGER B	TWO	2	*		
		EXCHANGER C	THREE	2	*		
B6.120	B-G-1	<u>PRESSURE RETAINING BOLTING, GREATER THAN 2" IN DIAMETER</u>	-	-	-	-NONE-	
B7.40	B-G-2	<u>PRESSURE RETAINING BOLTING, 2" AND LESS IN DIAMETER</u>	-	-	-	-NONE-	
B8.40	B-H	<u>INTEGRAL ATTACHMENTS FOR VESSELS</u>	-	-	-	-NONE-	

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 1

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE SI.4.1PAGE 2 OF 2MAJOR ITEM: REGENATIVE 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.
	B-P	<u>ALL PRESSURE RETAINING COMPONENTS</u>					
B15.40	B-P	<u>PRESSURE RETAINING BOUNDARY</u>	*	-	-		* PERFORMED BY PLANT PERSONNEL IN ACCORD- ANCE WITH IWA-5000 DURING EACH SYSTEM LEAKAGE TEST AND EACH SYSTEM HYRO- STATIC TEST REQUIRED BY IWB-5000
B15.41	B-P	<u>PRESSURE RETAINING BOUNDARY</u>	*	-	-		

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT I

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S1.4.2

PAGE 1 OF 2

MAJOR ITEM: EXCESS LETDOWN HEAT EXCHANGER

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
	B-B	<u>PRESSURE RETAINING WELDS IN OTHER THAN REACTOR VESSELS</u>					
B2.50	B-B	<u>HEAD WELDS</u>					RELIEF NO. 45
B2.51	B-B	<u>CIRCUMFERENTIAL</u>	ONE TWO THREE	- 100% -	- - -		
	B-D	<u>FULL PENETRATION WELDS OF NOZZLES IN VESSELS - INSPECTION PROGRAM B</u>					
B3.150	B-D	<u>NOZZLE TO VESSEL WELDS</u>	-	-	-	-NONE-	
B3.160	B-D	<u>NOZZLE INSIDE RADIUS SECTION</u>	-	-	-	-NONE-	
B5.100	B-F	<u>PRESSURE RETAINING DISSIMILAR METAL WELDS</u>	-	-	-	-NONE-	
B6.120	B-G-1	<u>PRESSURE RETAINING BOLTING, GREATER THAN 2" IN DIAMETER</u>	-	-	-	-NONE-	
	B-G-2	<u>PRESSURE RETAINING BOLTING, 2" AND LESS IN DIAMETER</u>					
B7.40	B-G-2	<u>BOLTS, STUDS AND NUTS</u>					
		EXCESS LETDOWN	ONE TWO THREE	4 4 4	- - -		
B8.40	B-H	<u>INTEGRAL ATTACHMENTS FOR VESSELS</u>	-	-	-	-NONE-	

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 1

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S1.4.2

PAGE 2 OF 2MAJOR ITEM: EXCESS LETDOWN HEAT EXCHANGER

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
	B-P	<u>ALL PRESSURE RETAINING COMPONENTS</u>					
B15.40	B-P	<u>PRESSURE RETAINING BOUNDARY</u>	*	-	-		* 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
B15.41	B-P	<u>PRESSURE RETAINING BOUNDARY</u>	*	-	-		

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT I

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S1.5

PAGE 1 OF 15

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.
B5.130	B-F	<u>PRESSURE RETAINING DISSIMILAR METAL WELDS</u>					
	B-F	<u>NOMINAL PIPE SIZE 4" AND GREATER, DISSIMILAR METAL WELDS</u>					
		<u>REACTOR VESSEL</u>					
		REACTOR CORE COOLANT SYSTEM	ONE TWO THREE	1 1 2	2 - -	RCC-A-1 S.E. (UT) RCC-B-1 S.E. (UT)	B5-W REPORT B5-W REPORT
		REACTOR VESSEL SAFETY INJECTION SYSTEMS	ONE THREE	1 1	- -		
		<u>STEAM GENERATORS NO. 11</u>					
		REACTOR CORE COOLANT SYSTEM	ONE THREE	1 1	- -		
		<u>STEAM GENERATORS NO. 12</u>					
		REACTOR CORE COOLANT SYSTEM	TWO THREE	1 1	- -		
		<u>PRESSURIZER</u>					
B5.140	B-F	SAFETY LINES	ONE	2	1	8010A-1 S.E.	85-042, 053
		SURGE LINE	TWO	1	-		
		RELIEF LINE	THREE	1	-		
		SPRAY LINE	THREE	1	-		
B5.150	B-F	<u>NOMINAL PIPE SIZE LESS THAN 4"</u>	-	-	-	-NONE-	
B5.150	B-F	<u>SOCKET WELDS</u>	-	-	-	-NONE-	

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT I

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S1.5PAGE 2 OF 15MAJOR 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.
B6.150	B-G-1	<u>PRESSURE RETAINING BOLTING, GREATER THAN 2" IN DIAMETER</u>	-	-	-	-NONE-	
	B-G-2	<u>PRESSURE RETAINING BOLTING, 2" AND LESS IN DIAMETER</u>					
B7.50	B-G-2	<u>BOLTS, STUDS AND NUTS</u>					
		SEAL INJECTION	ONE TWO	4 4	4 -	ORIFICE BOLTS @ W-9	85-076
			ONE TWO	4 4	- -		
		RESISTANCE TEMPERATURE DETECTOR - RETURN	ONE TWO	8 8	- -		
		PRESSURE SAFETY LINES	ONE THREE	12 12	12 -	FLANGE BOLTS @ 8010A	85-031
	B-J	<u>PRESSURE RETAINING WELDS IN PIPING</u>					
B9.10	B-J	<u>NOMINAL PIPE SIZE 4" AND GREATER</u>					
B9.11 & B9.12	B-J	<u>CIRCUMFERENTIAL AND LONGITUDINAL WELDS</u>					
		<u>LONGITUDINAL WELDS</u>	-	-	-	-NONE-	

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S1.5
 PAGE 3 OF 15
 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.		
B9.11 & B9.12	B-J	<u>CIRCUMFERENTIAL WELDS</u>							
		<u>(4.0 IN. NOM. DIA. SYSTEMS)</u>							
		REACTOR VESSEL SAFETY INJECTION LOW HEAD A	ONE TWO THREE	1 - -	- - -	NONE OF THESE WELDS ARE ACCESSIBLE, THEY ARE LOCATED WITHIN THE CONCRETE SHIELD WALL.	35-035, 052		
		REACTOR VESSEL SAFETY INJECTION LOW HEAD B	ONE TWO THREE	- - 1	- - -				
		<u>(6.0 IN. NOM. DIA. SYSTEMS)</u>							
		REACTOR VESSEL SAFETY INJECTION LOW HEAD A	ONE TWO THREE	2 - -	- - -				
		REACTOR VESSEL SAFETY INJECTION LOW HEAD B	ONE TWO THREE	- 1 -	- - -				
		SAFETY INJECTION HIGH HEAD LOOP A	ONE TWO THREE	- 1 -	- - -				
		SAFETY INJECTION HIGH HEAD LOOP B	ONE TWO THREE	- - 1	- - -				
		PRESSURIZER SAFETY LINE A	ONE TWO THREE	1 - 1	1 - -	W-4			

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 1

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S1.5

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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.
B9.11 & B9.12	B-J	<u>CONT'D</u>					
		PRESSURIZER SAFETY LINE B	ONE TWO THREE	- 1 1	- - -		
		PLO-CAP LOOP A	ONE TWO THREE	- - 1	- - -		
		PLO-CAP LOOP B	ONE TWO THREE	- 1 -	- - -		
		<u>(8.0 IN. NOM. DIA. SYSTEMS)</u>					
		RESIDUAL HEAT REMOVAL TAKE OFF LOOP A	ONE TWO THREE	3 2 2	- - -		
		RESIDUAL HEAT REMOVAL TAKE OFF LOOP B	ONE TWO THREE	2 2 2	1 - -	W-16	85-025, 061, 061A
		<u>(10.0 IN. NOM. DIA. SYSTEMS)</u>					
		RESIDUAL HEAT REMOVAL RETURN LOOP B	ONE TWO THREE	1 1 1	- - -		
		PRESSURIZER SURGE LOOP B	ONE TWO THREE	1 - 1	1 - -	W-4	85-140, 144

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PRAIRIE ISLAND UNIT I

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S1.5PAGE 5 OF 15MAJOR 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.
B9.11 & B9.12	B-J	<u>CONT'D</u> <u>(12.0 IN. NOM. DIA. SYSTEMS)</u> ACCUMULATOR DISCHARGE LOOP A ACCUMULATOR DISCHARGE LOOP B <u>(27.5 IN. NOM. DIA. SYSTEMS)</u> REACTOR CORE COOLANT COLD LEG (INLET) A REACTOR CORE COOLANT COLD LEG (INLET) B <u>(29.0 IN. NOM. DIA. SYSTEMS)</u> REACTOR CORE COOLANT HOT LEG (OUTLET) A REACTOR CORE COOLANT HOT LEG (OUTLET) B	ONE TWO THREE ONE TWO THREE ONE TWO THREE ONE TWO THREE ONE TWO THREE	1 - 1 1 1 2 - - 1 - 1 - - - 1 1 - -	1 - - - - - - - - - - - - - -	W-5	85-078, 083

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT I

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE Sl.5PAGE 6 OF 15MAJOR 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.
B9.11 & B9.12	B-J	<u>CONT'D</u> <u>(31.0 IN. NOM. DIA. SYSTEMS)</u> REACTOR CORE COOLANT CROSSOVER LINE A REACTOR CORE COOLANT CROSSOVER LINE B	ONE TWO THREE	1 - 1	- - -		
B9.20	B-J	<u>NOMINAL PIPE SIZE LESS THAN 4"</u>					
B9.21 & B9.22	B-J B-J	<u>CIRCUMFERENTIAL AND LONGITUDINAL WELDS</u> <u>LONGITUDINAL WELDS</u> <u>CIRCUMFERENTIAL WELDS</u> <u>(1.5 IN. NOM. DIA. SYSTEMS)</u> SEAL INJECTION LOOP A SEAL INJECTION LOOP B	- ONE TWO THREE ONE TWO THREE	- 1 1 1 1 1 1	- - - - 1 - -	-NONE- W-5	 85-057

NORTHERN STATES POWER CO.

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INSERVICE INSPECTION—EXAMINATION SUMMARY

TABLE S1.5

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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.
B9.11 & B9.12	B-J	CONT'D (2.0 IN. NOM. DIA. SYSTEMS)					
		SEAL INJECTION LOOP A	ONE TWO THREE	3 3 3	1 - -	W-44	85-068, 068R
		SEAL INJECTION LOOP B	ONE TWO THREE	2 2 4	- - -		
		CHARGING LINE CVCS LOOP B	ONE TWO THREE	6 6 6	2 - -	W-23, 31A	85-009, 008
		LET-DOWN LINE CVCS LOOP B	ONE TWO THREE	1 1 2	- - -		
		AUXILIARY SPRAY TO PRESSURIZER	ONE TWO THREE	1 2 2	1 - -	W-13	85-027
		RESIDUAL TEMPERATURE DETECTOR TAKE OFF COLD LEG LOOP A	ONE TWO THREE	1 1 1	- - -		
		RESIDUAL TEMPERATURE DETECTOR TAKE OFF COLD LEG LOOP B	ONE TWO THREE	1 1 1	- - -		
		RESIDUAL TEMPERATURE DETECTOR TAKE OFF HOT LEG LOOP A	ONE TWO THREE	1 1 2	1 - -	W-4	85-079

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 1

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S1.5

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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.
B9.11 & B9.12	B-J	<u>CONT'D</u>					
		RESIDUAL TEMPERATURE DETECTOR TAKE OFF HOT LEG LOOP B	ONE TWO THREE	1 1 2	- - -		
		SAFETY INJECTION HIGH HEAD LOOP A	ONE TWO THREE	1 - 1	- - -		
		SAFETY INJECTION HIGH HEAD LOOP B	ONE TWO THREE	1 1 2	1 - -	W-8	85-039
		DRAIN ON CROSSOVER LOOP A	ONE TWO THREE	1 1 1	- - -		
		DRAIN ON CROSSOVER LOOP B	ONE TWO THREE	- 1 1	- - -		
		REACTOR VESSEL SAFETY INJECTION LOW HEAD LOOP A	ONE TWO THREE	- 1 2	- - -		
		REACTOR VESSEL SAFETY INJECTION LOW HEAD LOOP B	ONE TWO THREE	1 1 1	- - -		
		<u>(3.0 IN. NOM. DIA. SYSTEMS)</u>					
		SPRAY TO PRESSURIZER BRANCH A	ONE TWO THREE	3 4 4	1 - -	W-22A	85-141

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INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S1.5

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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.
B9.11 & B9.12	B-J	<u>CONT'D</u> SPRAY TO PRESSURIZER BRANCH B RESIDUAL TEMPERATURE DETECTOR RETURN A RESIDUAL TEMPERATURE DETECTOR RETURN B PRESSURIZER RELIEF LOOP A PRESSURIZER RELIEF LOOP B	ONE TWO THREE ONE TWO THREE ONE TWO THREE ONE TWO THREE	1 1 2 1 1 1 1 1 1 1 - -	- - - 1 - - - - - 1 - -	W-2 W-14	85-080 85-058
B9.30	B-J	<u>BRANCH PIPE CONNECTION WELDS</u>					
B9.31	B-J	<u>NOMINAL PIPE SIZE 4" AND GREATER</u> <u>(12.0 IN. NOM. DIA. SYSTEMS)</u> ACCUMULATOR DISCHARGE LOOP A ACCUMULATOR DISCHARGE LOOP B	THREE ONE	1 1	- -		

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 1

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S1.5

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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.
B9.31	B-J	<u>CONT'D</u> <u>(8.0 IN. NOM. DIA. SYSTEMS)</u> RESIDUAL HEAT REMOVAL TAKE OFF LOOP A RESIDUAL HEAT REMOVAL TAKE OFF LOOP B <u>(10.0 IN. NOM. DIA. SYSTEM)</u> PRESSURIZER SURGE LOOP B <u>(6.0 IN. NOM. DIA. SYSTEM)</u> PLO-CAP LOOP A PLO-CAP LOOP B SAFETY INJECTION HIGH HEAD LOOP A SAFETY INJECTION HIGH HEAD LOOP B	TWO ONE TWO ONE THREE TWO THREE	1 1 1 1 1 1 1	- 1 - - - - -	W-R	85-062, 104, 105
B9.32	B-J	<u>NOMINAL PIPE SIZE LESS THAN 4"</u> <u>(3.0 IN. NOM. DIA. SYSTEMS)</u> SPRAY TO PRESSURIZER LOOP A SPRAY TO PRESSURIZER LOOP B	ONE TWO	1 1	- -		

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S1.5

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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.
B9.32	B-J	CONT'D					
		RESIDUAL TEMPERATURE DETECTOR RETURN A	THREE	1	-		
		RESIDUAL TEMPERATURE DETECTOR RETURN B	THREE	1	-		
		(2.0 IN. NOM. DIA. SYSTEMS)					
		RESIDUAL TEMPERATURE DETECTOR TAKE OFF COLD LEG LOOP A	TWO	1	-		
		RESIDUAL TEMPERATURE DETECTOR TAKE OFF COLD LEG LOOP B	THREE	1	-		
		DRAIN ON CROSSOVER LOOP A	TWO	1	-		
		DRAIN ON CROSSOVER LOOP B	ONE	1	-		
		CHARGING LINE CVCS LOOP B	THREE	1	-		
		REACTOR VESSEL SAFETY INJECTION LOW HEAD A	ONE	1	1	W-1	85-040
		REACTOR VESSEL SAFETY INJECTION LOW HEAD B	THREE	1	-		

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT I

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S1.5

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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.
B9.40	B-J	<u>SOCKET WELDS</u>					
		SEAL INJECTION LOOP A	ONE TWO THREE	- 1 1	- - -		
		SEAL INJECTION LOOP B	ONE TWO THREE	1 - 1	- - -		
		CHARGING LINE CVCS LOOP B	ONE TWO THREE	1 1 1	- - -		
		LETDOWN LINE CVCS LOOP B	ONE TWO THREE	- 1 -	- - -		
		AUXILIARY SPRAY TO PRESSURIZER	ONE TWO THREE	1 - -	1 - -	W-1D + PIPE	85-026
		RESIDUAL TEMPERATURE DETECTOR TAKE OFF COLD LEG LOOP A	ONE TWO THREE	1 1 1	- - -		
		RESIDUAL TEMPERATURE DETECTOR TAKE OFF COLD LEG LOOP B	ONE TWO THREE	1 1 1	- - -		
		RESIDUAL TEMPERATURE DETECTOR TAKE OFF HOT LEG LOOP A	ONE TWO THREE	- 1 1	- - -		

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT I

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.
B9.40	B-J	CONT'D					
		RESIDUAL TEMPERATURE DETECTOR TAKE OFF HOT LEG LOOP B	ONE TWO THREE	- 1 1	- - -		
		SAFETY INJECTION HIGH HEAD LOOP A	ONE TWO THREE	- - 1	- - -		
		SAFETY INJECTION HIGH HEAD LOOP B	ONE TWO THREE	1 - -	1 - -	W-17	85-038
		DRAIN ON CROSSOVER LOOP A	ONE TWO THREE	1 - -	- - -		
		DRAIN ON CROSSOVER LOOP B	ONE TWO THREE	- 1 1	- - -		
		REACTOR VESSEL SAFETY INJECTION LOW HEAD A	ONE TWO THREE	- - 1	1 - -	W-8	85-043
		REACTOR VESSEL SAFETY INJECTION LOW HEAD B	ONE TWO THREE	1 - -	- - -		

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S1.5
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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.
B10.10	B-K-1	<u>INTEGRAL ATTACHMENT FOR PIPING</u>					
	B-K-1	<u>INTEGRALLY WELDED ATTACHMENTS</u>					
		ACCUMULATOR DISCHARGE	THREE	1	-		
		RESIDUAL HEAT REMOVAL TAKE OFF LOOP A	ONE TWO THREE	1 1 2	- - -		
B10.10	B-K-1	SPRAY TO PRESSURIZER BRANCH A	ONE	1	1	K	85-075, 075R, 118
		<u>CONT'D</u>					
		RESIDUAL HEAT REMOVAL RETURN LOOP B	ONE TWO THREE	- 1 1	- - -		
		RESIDUAL HEAT REMOVAL TAKE OFF LOOP B	ONE TWO THREE	1 - 1	1 - -	P	85-054, 055, 059, 054R
		SAFETY INJECTION	TWO	1	-		
		AUXILIARY SPRAY 2" CVCS	ONE	1	-		

NORTHERN STATES POWER CO.

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INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S1.5

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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.
	B-P	<u>ALL PRESSURE RETAINING COMPONENTS</u>					
B15.50	B-P	<u>PRESSURE RETAINING BOUNDARY</u>	*	-	-		* 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
B15.51	B-P	<u>PRESSURE RETAINING BOUNDARY</u>	*	-	-		

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INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S1.6PAGE 1 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.
B6.180	B-G-1	<u>PRESSURE RETAINING BOLTING, GREATER THAN 2" IN DIAMETER</u>					
	B-G-1	<u>BOLTS AND STUDS, IN PLACE</u>					
		<u>REACTOR CORE COOLANT PUMP NO. 11</u>					
		FLANGE BOLTS	ONE TWO THREE	8 8 8	8 - -	BOLTS, 1 THRU 8	85-111
B-6.190		<u>REACTOR CORE COOLANT PUMP NO. 12</u>					
		FLANGE BOLTS	ONE TWO THREE	8 8 8	- - -		
	B-G-1	<u>FLANGE SURFACE, WHEN CONNECTION DISASSEMBLED</u>					
		REACTOR CORE COOLANT PUMP NO. 11 & 12	*	-	-		* IF DISASSEMBLED 100% OF SURFACE
B6.200	B-G-1	<u>NUTS, BUSHINGS AND WASHERS</u>					
		REACTOR CORE COOLANT PUMP NO. 11 & 12	*	-	-		* IF DISASSEMBLED 100% OF ALL ITEMS

NORTHERN STATES POWER CO.

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INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S1.6PAGE 2 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.
B7.60	3-G-2	<u>PRESSURE RETAINING BOLTING, 2" AND LESS IN DIAMETER</u>					
	B-G-2	<u>BOLTS, STUDS AND NUTS</u>					
		<u>SEAL HOUSE BOLTING</u>					
		RCP NO. 11	ONE TWO THREE	4 4 4	12 - -	BOLTS, 1 THRU 12	85-021, 024
B10.		RCP NO. 12	ONE TWO THREE	4 4 4	12 - -	BOLTS, 1 THRU 12	85-098, 100
	B-K-1	<u>INTEGRAL ATTACHMENT FOR PUMPS</u>					
	-K-1	<u>INTEGRALLY WELDED ATTACHMENTS</u>					
		REACTOR CORE COOLANT PUMP NO. 12	ONE TWO THREE	1 1 1	1 - -	SUPPORT A	85-005
B12.10	B-L-1	<u>PRESSURE RETAINING WELDS IN PUMP CASINGS</u>					
	B-L-1	<u>PUMP CASING WELDS</u>					
		REACTOR CORE COOLANT PUMP NO. 12	THREE	1	-		RELEIF NO. 63

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S1.6

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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.
B12.20	B-L-2	<u>PUMP CASINGS</u>					
		REACTOR CORE COOLANT PUMP NO. 12	&	-	-		* RELIEF NO. 63
	B-P	<u>ALL PRESSURE RETAINING COMPONENTS</u>					
B15.60	B-P	<u>PRESSURE RETAINING BOUNDARY</u>	*	-	-		* 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.
B15.61	B-P	<u>PRESSURE RETAINING BOUNDARY</u>	*	-	-		
-	-	<u>PUMP FLYWHEELS</u>					
	*	PUMP NO. 11 & 12	ONE TWO THREE	2 2 2	- - -		* AN INPLACE ULTRA- SONIC EXAMINATION OF THE AREAS OF HIGHER CONCENTRATION AT THE BASE AND KEYWAY SHALL BE PERFORMED. IF REACTOR CORE COOLANT PUMP IS DISMANTLED, THEN A COMPLETE VOLUMETRIC EXAMINA- TION OF ALL EXPOSED SURFACES SHALL BE PERFORMED.

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT I

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S1.7

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MAJOR ITEM: VALVE PRESSURE BOUNDARY

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
B6.210	B-G-1	<u>PRESSURE RETAINING BOLTING, GREATER THAN 2" IN DIAMETER</u>	-	-	-	-NONE-	
	B-G-2	<u>PRESSURE RETAINING BOLTING, 2" AND LESS IN DIAMETER</u>					
B7.70	B-G-2	<u>BOLTS, STUDS AND NUTS</u>					
		ACCUMULATOR DISCHARGE LOOP A	ONE TWO THREE	16 - 16	- - -		
		ACCUMULATOR DISCHARGE LOOP B	ONE TWO THREE	- 16 16	- - -		
		RESIDUAL HEAT REMOVAL RETURN LOOP B	ONE	16	-		
		RESIDUAL HEAT REMOVAL TAKE OFF LOOP A	ONE TWO THREE	16 - 16	16 - -	M.O. GATE 8701A	35-037
		RESIDUAL HEAT REMOVAL TAKE OFF LOOP B	ONE ONE	16 16	16 -	M.O. GATE 8702B	35-036
		SAFETY INJECTION HIGH HEAD LOOP A	TWO	12	-		
		SAFETY INJECTION HIGH HEAD LOOP B	THREE	12	-		
		PRESSURIZER SPRAY LOOP A	THREE	8	-		

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 1

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S1.7

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MAJOR ITEM: VALVE PRESSURE BOUNDARY

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
B7.70	B-G-2	CONT'D					
		PRESSURIZER SPRAY LOOP B	THREE	8	-		
		RESISTANCE TEMPERATURE DETECTOR RETURN LOOP A	ONE	12	12	GATE 8001A	85-086
		RESISTANCE TEMPERATURE DETECTOR RETURN LOOP B	ONE	12	-		
		RESISTANCE TEMPERATURE DETECTOR TAKE OFF LOOP A (COLD LEG)	ONE TWO THREE THREE	- 2 2 2	- - - -		
		RESISTANCE TEMPERATURE DETECTOR TAKE OFF LOOP B (COLD LEG)	ONE TWO THREE THREE	- 2 2 2	- - - -		
		RESISTANCE TEMPERATURE DETECTOR TAKE OFF LOOP A (HOT LEG)	ONE TWO TWO THREE	- 2 2 2	- - - -		
		RESISTANCE TEMPERATURE DETECTOR TAKE OFF LOOP B (HOT LEG)	ONE TWO TWO THREE	- 2 2 2	- - - -		

NORTHERN STATES POWER CO.

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INSERVICE INSPECTION-EXAMINATION SUMMARY

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MAJOR ITEM: VALVE PRESSURE BOUNDARY

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
B7.70	B-G-2	CONT'D					
		PRESSURIZER RELIEF	ONE	-	-		
			TWO	12	-		
			TWO	12	-		
			THREE	6	-		
			THREE	6	-		
		REACTOR VESSEL SAFETY INJECTION LOW HEAD	ONE	12	-		
			TWO	12	-		
			TWO	12	-		
			THREE	12	-		
		AUXILIARY SPRAY CVCS	THREE	16	-		
		DRAIN ON CROSSOVER LOOP A	ONE	-	-		
			TWO	2	-		
			THREE	2	-		
		DRAIN ON CROSSOVER LOOP B	ONE	-	-		
			TWO	2	-		
			THREE	2	-		
		CHARGING LINE LOOP B	TWO	6	-		
		LETDOWN LINE CVCS LOOP B	ONE	-	-		
			TWO	8	-		
			TWO	2	-		
			THREE	8	-		
		SEAL INJECTION LOOP A	ONE	2	2	T-58 VC-7-18	85-106
		SEAL INJECTION LOOP B	ONE	2	-		

NORTHERN STATES POWER CO.

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INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S1.7

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MAJOR ITEM: VALVE PRESSURE BOUNDARY

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
B10.30	B-K-1	<u>INTEGRAL ATTACHMENTS FOR VALVES</u>	-	-	-	-NONE-	
B12.30	B-M-1	<u>PRESSURE RETAINING WELDS IN VALVE BODIES</u>	-	-	-	-NONE-	
	B-M-2	<u>VALVE BODIES</u>					
B12.50	B-M-2	<u>VALVE BODIES, EXCEEDING 4" NOMINAL PIPE SIZE</u>					
		VELAN CHECK VALVES	*	1	-		* SPECIFIC VALVE SUB- JECT TO PLANT MAIN- TENANCE SCHEDULES.
		VELAN M.O. GATE VALVES	*	1	-		
		DARLING M.O. GATE VALVE	*	1	-		
		DARLING CHECK VALVES	*	1	-		
		CROSBY RELIEF VALVES	*	1	-		
	B-P	<u>ALL PRESSURE RETAINING COMPONENTS</u>					
B15.70	B-P	<u>PRESSURE RETAINING BOUNDARY</u>	*	-	-		* 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.
B15.71	B-P	<u>PRESSURE RETAINING BOUNDARY</u>	*	-	-		

CLASS I

COMPONENT/SYSTEM	NSP ISO	NDE METHOD	W BASELINE / IDENT.	REPORT NO.	BASELINE INDICATIONS	ISI INDICATIONS	EXAMINATION LIMITATIONS
-PRESSURIZER-							
B5.40 NOZZLE TO SAFE END BUTT WELDS							
PRESSURIZER SAFETY A	29	UT	1 S.E.	85-053	NONE	NONE	NO S-1 NOZZLE BEST EFFORT (B.E.) S-2 REDUCER
		PT		85-042	NONE	NONE	NONE
B5.130 DISSIMILAR METAL WELDS							
PRESSURIZER SAFETY A	29	UT	1 S.E.	85-053	NONE	NONE	NO S-1 NOZZLE B.E. S-2 REDUCER
		PT		85-042	NONE	NONE	NONE
-STEAM GENERATORS-							
B7.30 BOLTS, STUDS AND NUTS							
S/G #11 PRIMARY MANWAY BOLTS	43	UT MT	INLET MAN- WAY 1-24	85-032 85-023	NONE NONE	NONE NONE	NONE NONE
	43	UT MT	OUTLET MAN- WAY 1-24	85-032 85-023	NONE NONE	NONE NONE	NONE NONE
S/G #12 PRIMARY MANWAY BOLTS	43	UT MT	INLET MAN- WAY 1-24	85-033 85-022	NONE NONE	NONE NONE	NONE NONE
	43	UT MT	OUTLET MAN- WAY 1-24	85-033 85-022	NONE NONE	NONE NONE	NONE NONE

CLASS I

COMPONENT/SYSTEM	NSP ISO	NDE METHOD	W BASELINE IDENT.	REPORT NO.	BASELINE INDICATIONS	ISI INDICATIONS	EXAMINATION LIMITATIONS
-PIPING-							
B7.50 BOLTS, STUDS AND NUTS							
SEAL INJECTION	11	VT	ORIFICE BOLTS	85-076	NONE	NONE	NONE
PRESSURIZER SAFETY A	29	VT	FLANGE BOLTS	85-031	NONE	NONE	NONE
B9.11 CIRCUMFERENTIAL AND & LONGITUDINAL BUTT B9.12 WELDS							
PRESSURIZER SAFETY A	29	UT	W-4	85-052	NONE	S-1 ID GEO 60% OD GEO 25% S-2 ID GEO < 20% OD GEO < 20% S-3 OD GEO 20% S-4 OD GEO 20% 1S OD GEO 5:00 TO 7:00 < 20% 2S OD GEO 9:00 20%	B.E. S-2 2:00 TO 4:00 ELBOW INNER RADII'S (E.I.R.)
		PT		85-035	NONE	NONE	NONE
RHR TAKE OFF B LOOP	19A	UT	W-16	85-061	ID. GEO. 50-100%	S-1 ID GEO 35- 40% OD GEO 50% S-2 ID GEO 20% S-2 OD GEO 20- 40% S-1 ID GEO 35- 40% OD GEO 50%	B.E. S-2 E.I.R.
				85-061A	N/A		S-1 ONLY, ADDITIONAL INFOR- MATION

CLASS I

COMPONENT/SYSTEM	NSP ISO	NDE METHOD	W BASELINE IDENT.	REPORT NO.	BASELINE INDICATIONS	ISI INDICATIONS	EXAMINATION LIMITATIONS
RHR TAKE OFF	19A	PT	W-16	85-025	N/A	NONE	NONE
PRESSURIZER SURGE LOOP B	28	UT	W-4	85-144	ID. GEO. 50-100%	S-2 ID GEO 20% OD GEO 23- 24%	NONE
		PT		85-140	N/A	NONE	NONE
ACCUMULATOR DISCHARGE A	2	UT	W-5	85-083	ID. GEO. 50-100%	S-1 ID GEO 5:00 TO 8:00, 50% OD GEO 5:00 TO 8:00, 50% S-2 ID GEO <20% IS GEO 5:00 TO 8:00 <20% 2S ID GEO 5:00 TO 8:00 <20%	NO S-1, IS, 2S 8:00 TO 5:00 RESTRAINT B.E. S-2 5:00 TO 7:00 E.I.R.
B9.21 CIRCUMFERENTIAL AND & LONGITUDINAL BUTT B9.22 WELDS		PT		85-078	N/A	NONE	NONE
SEAL INJECTION LOOP B	27A	PT	W-5	85-057	NONE	NONE	NONE
SEAL INJECTION LOOP A	11D	PT	W-44	85-068 85-068R	NONE N/A	LINEAR NONE-LINEAR BUFFED OUT	NONE NONE
CHARGING LINE CVCS LOOP B	1B	PT	W-23	85-009	NONE	NONE	NONE
	1C	PT	W-31A	85-008	NONE	NONE	NONE

CLASS I

COMPONENT/SYSTEM	NSP ISO	NDE METHOD	W BASELINE IDENT.	REPORT NO.	BASELINE INDICATIONS	ISI INDICATIONS	EXAMINATION LIMITATIONS
AUXILIARY SPRAY TO PRESSURIZER	32	PT	W-13	85-027	NONE	NONE	NONE
RTD TAKE OFF HOT LEG LOOP A	8	PT	W-4	85-079	NONE	NONE	NONE
SAFETY INJECTION HIGH HEAD LOOP B	24	PT	W-8	85-039	NONE	NONE	NONE
SPRAY TO PRESSURIZER BRANCH A	58	PT	W-22A	85-141	NONE	NONE	NONE
RTD RETURN LOOP A	6	PT	W-2	85-080	NONE	NONE	NONE
PRESSURIZER RELIEF LOOP B	31	PT	W-14	85-058	NONE	3/8" LINEAR IN VALVE BODY ACCEPTABLE - ORIGINAL CASTING DISCONTINUITY	NONE
B9.30 BRANCH WELDS GREATER THAN 4" DIAMETER							
RHR TAKE OFF LOOP B	19B	UT	W-R	85-104	NONE	NONE	NO S-1, 1S, 2S BRANCH
		PT		85-105 85-062	NONE NONE	S-1 ID GEO 20-25% NONE	NO S-2 BRANCH NONE
B9.32 BRANCH WELDS LESS THAN 4" DIAMETER							
REACTOR VESSEL SAFETY INJECTION LOW HEAD "A"	33	PT	W-1	85-040	LINEAR	NONE	NONE

CLASS I

COMPONENT/SYSTEM	NSP ISO	NDE METHOD	W BASELINE IDENT.	REL. NO.	BASELINE INDICATIONS	ISI INDICATIONS	EXAMINATION LIMITATIONS
B9.40 SOCKET WELDS							
AUXILIARY SPRAY TO PRESSURIZER	32	PT	W-1D + PIPE	85-026	NONE	NONE	NONE
SAFETY INJECTION HIGH HEAD B	24	PT	W-17	85-038	NONE	NONE	NONE
R.V.S.I. LOW HEAD LOOP B	33	PT	W-8	85-043	NONE	NONE	NONE
B10.10 INTEGRALLY WELDED ATTACHMENTS							
SPRAY TO PRESSURIZER	5B	UT	K	85-118	NONE	S-2 OD GEO 20% S-3 OD GEO 20% S-4 OD GEO 20% 4S OD GEO <20% LINEARS	NO S-1, 1S, 2S CONFIGURATION
		PT		85-075 85-075R	NONE N/A	NONE - LINEARS BUFFED OUT	NONE NONE
		VT		85-099	NONE	NONE	NONE
RHR TAKE OFF LOOP B	19A	UT	P	85-059	NONE	NONE	NO S-1, 1S, 2S VALVES & RESTRAINT CONFIGURATION
		PT		85-054 85-054R	NONE N/A	1/4" LINEAR NONE - LINEAR BUFFED OUT	NONE NONE
		VT		85-055	NONE	UNDERCUT BUFFED OUT	NONE
		VT		85-063	NONE	UNDER RPT 85-054R NONE	NONE

COMPONENT/SYSTEM	NSP ISO	NDE METHOD	W BASELINE IDENT.	REPORT NO.	BASELINE INDICATIONS	ISI INDICATIONS	EXAMINATION LIMITATIONS
-REACTOR COOLANT PUMPS-							
36.180 BOLTS, STUDS AND NUTS							
RCP #11	34	UT	FLANGE BOLTS 1-8	85-111	NONE	NONE	NONE
87.60 BOLTS, STUDS AND NUTS							
RCP #11	15	UT	SEAL HOUSE BOLTS 1-12	85-024	NONE	NONE	NONE
		MT		85-021	NONE	NONE	NONE
RCP #12	35	UT	SEAL HOUSE BOLTS 1-12	85-100	NONE	NONE	NONE
		MT		85-098	LINEARS	NONE	NONE
		VT		85-021	NONE	NONE	NONE
10.10 INTEGRALLY WELDED ATTACHMENTS							
REACTOR COOLANT PUMP #12	66	PT	SUPPORT "A"	85-005	NONE	NONE	NONE
		VT		85-056	NONE	NONE	NONE
-VALVES-							
87.70 BOLTS, STUDS AND NUTS							
RHR TAKE OFF LOOP A	3C	VT	8701A	85-037	NONE	NONE	NONE
RHR TAKE OFF LOOP B	19	VT	8702B	85-036	NONE	NONE	NONE

CLASS I

COMPONENT/SYSTEM	NSP ISO	NDE METHOD	W BASELINE IDENT.	REPORT NO.	BASELINE INDICATIONS	ISI INDICATIONS	EXAMINATION LIMITATIONS
RTD RETURN LOOP A	6	VT	8001A	85-086	NONE	BORIC ACID DEPOSIT - ACCEPTABLE PER ENG EVAL	NONE
SEAL INJECTION LOOP A	11	VT	T-58 (VC-7-18)	85-106	NONE	NONE	NONE
-REACTOR-							
14.10 PRESSURE RETAINING WELDS IN CONTROL ROD HOUSINGS							
CRD HOUSINGS	-	UT	H6677-1	85-120	NONE	N/A	NONE
		UT	H4698-1	85-121	INCOMPLETE FUSSION- WELD CUT OUT		NONE
	-	UT	J1064-1	85-146	S-1 ID GEO < 20% OD GEO < 20% S-2 OD GEO < 20%	N/A	NONE
		PT		85-145	NONE	N/A	NONE

NORTHERN STATES POWER COMPANY
Prairie Island Unit I
Isometric Summary

CLASS 1

TABLE III
Page 1 of 6

NSP ISO NUMBER	REVISION NUMBER	COMPONENT OR SYSTEM	LOOP DESIG	LINE NUMBER	LINE SIZE	WALL THICK	UT-CAL STD
ISI-1	0	CHARGING LINE (GENERAL VIEW)	-	-	-	-	-
ISI-1A	1		B	2-RC-17	2"	.344"	3
ISI-1B	0		B	2-RC-17	2"	.344"	3
ISI-1C	0		B	2-VC-5	2"	.344"	3
ISI-1D	0		B	2-VC-5	2"	.344"	3
ISI-1E	0		B	2-VC-6	2"	.344"	3
ISI-1F	0		B	2-VC-6	2"	.344"	3
ISI-2	0	ACCUMULATOR DISCHARGE	A	2-RC-16A	12"	1.312"	11
			A	2-SI-27A	12"	1.312"	11
ISI-3	0	RESIDUAL HEAT REMOVAL TAKE OFF (GENERAL VIEW)	-	-	-	-	-
ISI-3A	1		A	8-RC-15A	8"	.812"	8
ISI-3B	0		A	8-RH-1A	8"	.812"	8
ISI-3C	0		A	8-RH-1A	8"	.812"	8
ISI-4	0	SAFETY INJECTION HIGH HEAD	A	6-RC-13B	6"	.719"	6
ISI-5	0	SPRAY TO PRESSURIZER (GENERAL VIEW)	-	-	-	-	-
ISI-5A	2		A	3-RC-5	3"	.438"	4
ISI-5B	1		A	3-RC-5	3"	.438"	4
ISI-5C	0		A	3-RC-5	3"	.438"	4
ISI-5D	1		B	3-RC-5	3"	.438"	4
ISI-6	0	RTD RETURN	A	3-RC-6A	3"	.438"	4
ISI-7	0	RTD TAKE OFF COLD LEG	A	2-RC-8A	2"	.344"	3
ISI-8	0	RTD TAKE OFF HOT LEG	A	2-RC-7A	2"	.344"	3
ISI-9	1	SAFETY INJECTION HIGH HEAD	A	2-SI-35A	2"	.344"	3

NORTHERN STATES POWER COMPANY
Prairie Island Unit I
Isometric Summary

CLASS 1

TABLE III
Page 2 of 6

NSP ISO NUMBER	REVISION NUMBER	COMPONENT OR SYSTEM	LOOP DESIG	LINE NUMBER	LINE SIZE	WALL THICK	UT-CAL STD
ISI-10	1	DRAIN ON CROSSOVER	A	2-RC-10A	2"	.344"	3
			A	2-RC-11A	2"	.344"	3
ISI-11	0	SEAL INJECTION (GENERAL VIEW)	-	-	-	-	-
ISI-11A	1		A	1½-VC-21A	1½"	.281"	1
ISI-11B	0		A	2-VC-21A	2"	.344"	3
ISI-11C	0		A	2-VC-21A	2"	.344"	3
ISI-11D	1		A	2-VC-21A	2"	.344"	3
ISI-12	2	REACTOR CORE COOLANT	A	29-RC-1A	29"	2.335"	14-A
			A	31-RC-2A	31"	2.495"	14-A
			A	27½-RC-3A	27½"	2.215"	14-A
ISI-13	2	REACTOR CORE COOLANT	B	29-RC-1B	29"	2.335"	14-A
			B	31-RC-2B	31"	2.495"	14-A
			B	27½-RC-3B	27½"	2.215"	14-A
ISI-14	0	R C PUMP A FLANGE BOLTING	A	-	-	-	-
ISI-15	0	R C PUMP A SEAL HOUSING BOLTING	A	-	-	-	-
ISI-16	1	R C PUMP A FLYWHEEL	A	-	-	-	-
ISI-17	0	ACCUMULATOR DISCHARGE	B	12-RC-16B	12"	1.312"	11
			B	12-SI-27B	12"	1.312"	11
ISI-18	0	RESIDUAL HEAT REMOVAL RETURN	B	10-SI-26	10"	1.000"	10
ISI-19	0	RESIDUAL HEAT REMOVAL TAKE OFF (GENERAL VIEW)	-	-	-	-	-
ISI-19A	0		B	8-RH-1B	8"	.812"	8"
ISI-19B			B	8-RC-15B	8"	.812"	8"

NORTHERN STATES POWER COMPANY
Prairie Island Unit I
Isometric Summary

CLASS 1

TABLE III
Page 3 of 6

NSP ISO NUMBER	REVISION NUMBER	COMPONENT OR SYSTEM	LOOP DESIG	LINE NUMBER	LINE SIZE	WALL THICK	UT-CAL STD
ISI-20	0	SAFETY INJECTION HIGH HEAD	B	6-RC-13D	6"	.719"	6
ISI-21	0	RTD RETURN	B	3-RC-6B	3"	.438"	4
ISI-22	0	RTD TAKE OFF COLD LEG	B	2-RC-8B	2"	.344"	3
ISI-23	0	RTD TAKE OFF HOT LEG	B	2-RC-7B	2"	.344"	3
ISI-24	0	SAFETY INJECTION HIGH HEAD	B	2-SI-35B	2"	.344"	3
ISI-25	1	DRAIN ON CROSSOVER	B	2-RC-10B	2"	.344"	3
			B	2-RC-11B	2"	.344"	3
ISI-26	0	CVCS LETDOWN	B	2-RC-12	2"	.344"	3
ISI-27	2	SEAL INJECTION (GENERAL VIEW)	B	-	-	-	-
ISI-27A	1		B	1½-VC-21B	1½"	.281"	1
ISI-27B	1		B	2-VC-21B	2"	.344"	3
ISI-27C	1		B	2-VC-21B	2"	.344"	3
ISI-28	1	PRESSURIZER SURGE	B	10-RC-4	10"	1.000"	10
ISI-29	1	PRESSURIZER SAFETY	A	6-RC-20A	6"	.719"	6
			B	6-RC-20B	6"	.719"	6
ISI-30	0	REACTOR VESSEL SPRAY INJECTION	A	4-RC-14A	4"	.438"	5
			A	6-RC-14A	6"	.719"	6
			A	6-SI-25A	6"	.719"	6
			B	4-RC-1B	4"	.438"	5
			B	6-RC-14B	6"	.719"	6
			B	6-SI-25B	6"	.719"	6
ISI-31	0	PRESSURIZER RELIEF	A & B	3-RC-21	3"	.438"	4

NORTHERN STATES POWER COMPANY
 Prairie Island Unit I
 Isometric Summary

CLASS 1

TABLE III
 Page 4 of 6

NSP ISO NUMBER	REVISION NUMBER	COMPONENT OR SYSTEM	LOOP DESIG	LINE NUMBER	LINE SIZE	WALL THICK	UT-CAL STD
ISI-32	0	AUXILLARY SPRAY	-	2-RC-19	2"	.344"	3
			-	2-VC-4	2"	.344"	3
ISI-33	0	REACTOR VESSEL SAFETY INJECTION	A	2-SI-24A	2"	.344"	3
			B	2-SI-24B	2"	.344"	3
ISI-34	0	R C PUMP B FLANGE BOLTING	B	-	-	-	-
ISI-35	0	R C PUMP B SEAL HOUSING BOLTING	B	-	-	-	-
ISI-36	0	R C PUMP B FLYWHEEL	B	-	-	-	-
ISI-37	0	REACTOR VESSEL STUDS, NUTS, & WASHERS	-	-	-	-	STUD Y-50
ISI-38	0	REACTOR VESSEL CONOSEAL BOLTING	-	-	-	-	-
ISI-41	1	PRESSURIZER	-	-	WELDS SKIRT	4.4" 1.5"	25A 16
ISI-42	0	PRESSURIZER SAFETY & RELIEF NOZZLES	-	-	-	-	-
ISI-43	1	STEAM GENERATORS	A & B	-	TS to HD	5.16"	25A
ISI-44	0	REGENATIVE HEAT EXCHANGERS	-	-	TS to HD	.719"	6
ISI-45	0	EXCESS LETDOWN HEAT EXCHANGER	-	-	HD to FLG	.719"	6
ISI-46	0	PLO-CAP	A	6-RC-13A	6"	.719"	6
ISI-47	0	PLO-CAP	B	6-RC-13B	6"	.719"	6
ISI-48	0	REACTOR VESSEL SHELL WELDS	-	-	-	-	-

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Isometric Summary

CLASS 1

TABLE III
Page 5 of 6

NSP ISO NUMBER	REVISION NUMBER	COMPONENT OR SYSTEM	LOOP DESIG	LINE NUMBER	LINE SIZE	WALL THICK	UT-CAL STD
ISI-49	0	REACTOR VESSEL CLOSURE HEAD WELD	-	-	-	5.512" to 6.299"	25A
ISI-50	2	REACTOR VESSEL NOZZLE ORIENTATION	-	-	-	-	-
		<u>SUPPORT COMPONENT PROGRAM</u>					
ISI-59	0	STEAM GENERATORS (GENERAL VIEW)	-	-	-	-	-
ISI-59A	2	STEAM GENERATOR SUPPORT BASE	A & B	4/GENERATOR	-	-	-
ISI-60	2	STEAM GENERATOR TOP SUPPORT	A & B	4/GENERATOR	-	-	-
ISI-60A	0	STEAM GENERATOR COLUMN PINS	A & B	8/GENERATOR	-	-	-
		REACTOR COOLANT PUMP TIE BACK PINS	A & B	3/PUMP	-	-	-
		REACTOR COOLANT PUMP COLUMN PINS	A & B	6/PUMP	-	-	-
ISI-61	0	REACTOR COOLANT PUMPS (GENERAL VIEW)	-	-	-	-	-
ISI-61A	2	REACTOR COOLANT PUMP SUPPORT BASE	A & B	3/PUMP	-	-	-
ISI-62	2	REACTOR COOLANT PUMP SUPPORT TOP	A & B	3/PUMP	-	-	-
ISI-63	0	STEAM GENERATOR LOWER SUPPORT RING	A	-	-	-	-
ISI-64	2	REACTOR COOLANT PUMP LOWER LATERAL SUPPORT	A	-	-	-	-
ISI-65	0	STEAM GENERATOR LOWER LATERAL SUPPORT	B	-	-	-	-
ISI-66	2	REACTOR COOLANT PUMP LOWER LATERAL SUPPORT	B	-	-	-	-
ISI-66A	0	REACTOR COOLANT PUMP TIE BACK BOLTS	A & B	3/PUMP	-	-	-

NORTHERN STATES POWER COMPANY
 Prairie Island Unit I
 Isometric Summary

CLASS 1

TABLE III
 Page 6 of 6

NSP ISO NUMBER	REVISION NUMBER	COMPONENT OR SYSTEM	LOOP DESIG	LINE NUMBER	LINE SIZE	WALL THICK	UT-CAL STD
ISI-67	2	STEAM GENERATOR SUPPORT PAD	A & B	4/GENERATOR	-	-	-
ISI-67A	0	STEAM GENERATOR HELICOIL SCREWS	A & B	24/GENERATOR	-	-	-
ISI-70	1	STEAM GENERATOR UPPER SUPPORT	A & B	-	-	-	-
ISI-72	0	STEAM GENERATOR UPPER SUPPORT SNUBBERS	A & B	4/GENERATOR	-	-	-
ISI-73	0	PRESSURIZER BASE	-	-	-	-	-
ISI-74	0	ACCUMULATOR BASE	A & B	-	-	-	-

APPENDIX B

ASME CLASS 2 EXAMINATIONS

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 1

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S2.1.1PAGE 1 OF 3MAJOR ITEM: PRESSURE VESSELS-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.
C1.10	C-A	<u>PRESSURE RETAINING WELDS IN PRESSURE VESSELS</u>					
	C-A	<u>SHELL CIRCUMFERENTIAL WELDS</u>					
		STEAM GENERATOR NO. 11					
		WELD C	ONE	552"	-		
C1.20		WELD E	TWO	552"	-		
		STEAM GENERATOR NO. 12					
		WELD F	THREE	552"	-		
	C-A	<u>HEAD CIRCUMFERENTIAL WELDS</u>					
C1.30		STEAM GENERATOR NO. 11					
		WELD H	THREE	100%	-		
	C-A	<u>TUBESHEET TO SHELL WELD</u>					
		STEAM GENERATOR NO. 12					
C2.10		WELD B	THREE	100%	-		
	C-B	<u>PRESSURE RETAINING NOZZLE WELDS IN VESSELS</u>					
	C-B	<u>NOZZLE IN VESSELS 1/2" AND LESS NOMINAL THICKNESS</u>	-	-	-	-NONE-	
	C-B	<u>NOZZLE WITHOUT REINFORCING PLATE IN VESSEL GREATER THAN 1/2" NOMINAL THICKNESS</u>					

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT I

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S2.1.1PAGE 2 OF 3

MAJOR ITEM: PRESSURE VESSELS-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.
C2.21	C-B	<u>NOZZLE TO SHELL (OR HEAD) WELDS</u> STEAM GENERATOR NO. 11 MAIN STEAM NOZZLE FEEDWATER NOZZLE STEAM GENERATOR NO. 12 MAIN STEAM NOZZLE FEEDWATER NOZZLE	TWO - - THREE	1 - - 1	- - - -		
C2.22	C-B	<u>NOZZLE INSIDE RADIUS SECTION</u> STEAM GENERATOR NO. 11 MAIN STEAM NOZZLE FEEDWATER NOZZLE STEAM GENERATOR NO. 12 MAIN STEAM NOZZLE FEEDWATER NOZZLE	- ONE - THREE	- *1 - *1	- - - -		* RELIEF NO. 66 * RELIEF NO. 66
C2.30	C-B	<u>NOZZLES WITH REINFORCING PLATE IN VESSELS GREATER THAN 1/2" NOMINAL THICKNESS</u>	-	-	-	-NONE-	
	C-C	<u>INTEGRAL ATTACHMENTS FOR VESSELS</u>					
C3.10	C-C	<u>INTEGRALLY WELDED ATTACHMENTS</u>	-	-	-	-NONE-	

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT I

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S2.1.1

PAGE 3 OF 3

MAJOR ITEM: PRESSURE VESSELS-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.
	C-D	<u>PRESSURE RETAINING BOLTING, GREATER THAN 2" IN DIAMETER</u>					
C4.10	C-D	<u>BOLTS AND STUDS</u>	-	-	-	-NONE-	
	C-H	<u>ALL PRESSURE RETAINING COMPONENTS</u>					
C7.10	C-H	<u>PRESSURE RETAINING BOUNDARY</u>	*	-	-		* PERFORMED BY PLANT PERSONNEL IN ACCORD- ANCE WITH IWA-5000 DURING EACH SYSTEM LEAKAGE TEST AND EACH SYSTEM HYDRO- STATIC TEST REQUIRED.
C7.20	C-H	<u>PRESSURE RETAINING BOUNDARY</u>					

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 1

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S2.1.2

PAGE 1 OF 2

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.
	C-A	<u>PRESSURE RETAINING WELDS IN PRESSURE VESSELS</u>					
C1.10	C-A	<u>SHELL CIRCUMFERENTIAL WELDS</u>	-	-	-	-NONE-	
C1.20	C-A	<u>HEAD CIRCUMFERENTIAL WELDS</u>					
		ACCUMULATOR NO. 11					
		WELD 2	-	-	-		
		WELD 5	TWO	1	-		
		ACCUMULATOR NO. 12					
		WELD 2	THREE	1	-		
		WELD 5	-	-	-		
	C-B	<u>PRESSURE RETAINING NOZZLE WELDS IN VESSELS</u>					
C2.10	C-B	<u>NOZZLE IN VESSELS 1/2" AND LESS NOMINAL THICKNESS</u>	-	-	-	-NONE-	
2.20	C-B	<u>NOZZLE WITHOUT REINFORCING PLATE IN VESSELS GREATER THAN 1/2" NOMINAL THICKNESS</u>					
C2.21	C-B	<u>NOZZLE TO SHELL (OR HEAD) WELDS</u>					
		ACCUMULATOR NO. 11	-	-	-		
		ACCUMULATOR NO. 12	THREE	1	-		

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 1

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S2.1.2

PAGE 2 OF 2

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.
C2.22	C-B	<u>NOZZLE INSIDE RADIUS SECTION</u>					
		ACCUMULATOR NO. 11	*	-	-		* RELIEF NO. 66
		ACCUMULATOR NO. 12	*	-	-		
C2.30	C-B	<u>NOZZLES WITH REINFORCING PLATE IN VESSELS GREATER THAN 1/2" NOMINAL THICKNESS</u>	-	-	-	-NONE-	
	C-C	<u>INTEGRAL ATTACHMENT FOR VESSELS</u>					
C3.10	C-C	<u>INTEGRALLY WELDED ATTACHMENTS</u>	-	-	-	-NONE-	
	C-D	<u>PRESSURE RETAINING BOLTING GREATER THAN 2" IN DIAMETER</u>					
C4.10	C-D	<u>BOLTS AND STUDS</u>	-	-	-	-NONE-	
	C-H	<u>ALL PRESSURE RETAINING COMPONENTS</u>					
C7.10	C-H	<u>PRESSURE RETAINING BOUNDARY</u>	*	-	-		* PERFORMED BY PLANT PERSONNEL IN ACCORD- ANCE WITH IWA-5000 DURING EACH SYSTEM LEAKAGE TEST AND EACH SYSTEM HYDRO- STATIC TEST REQUIRED BY IWC-5000.
C7.20	C-H	<u>PRESSURE RETAINING BOUNDARY</u>	*	-	-		

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT I

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S2.1.3

PAGE 1 OF 2

MAJOR ITEM: PRESSURE VESSELS-RHR HEAT EXCHANGERS

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
C1.10	C-A	<u>PRESSURE RETAINING WELDS IN PRESSURE VESSELS</u>					
	C-A	<u>SHELL CIRCUMFERENTIAL WELDS</u>					
		RHR HEAT EXCHANGER NO. 11	-	-	-		
		RHR HEAT EXCHANGER NO. 12	THREE	1	-		
C1.20	C-A	<u>HEAD CIRCUMFERENTIAL WELDS</u>					
		RHR HEAT EXCHANGER NO. 11	-	-	-		
		RHR HEAT EXCHANGER NO. 12	THREE	-	-		
C2.10	C-B	<u>PRESSURE RETAINING NOZZLE WELDS IN VESSELS</u>					
	C-B	<u>NOZZLE IN VESSELS 1/2" AND LESS NOMINAL THICKNESS</u>					
		RHR HEAT EXCHANGER NO. 11					
		WELD 3	TWO	1	-		
		WELD 4	-	-	-		
		RHR HEAT EXCHANGER NO. 12					
		WELD 3	-	-	-		
		WELD 4	THREE	1	-		
C2.30	C-B	<u>NOZZLES WITH REINFORCING PLATE IN VESSELS GREATER THAN 1/2" NOMINAL THICKNESS</u>	-	-	-	-NONE-	

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 1

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S2.1.3

PAGE 2 OF 2

MAJOR ITEM: PRESSURE VESSELS-RHR HEAT EXCHANGERS

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
C3.10	C-C	<u>INTEGRAL ATTACHMENTS FOR VESSELS</u>					
	C-C	<u>INTEGRALLY WELDED ATTACHMENTS</u>					
		RHR HEAT EXCHANGER NO. 11	TWO	1	-		
		RHR HEAT EXCHANGER NO. 12	THREE	1	-		
C4.10	C-D	<u>PRESSURE RETAINING BOLTING GREATER THAN 2" IN DIAMETER</u>					
	C-D	<u>BOLTS AND STUDS</u>	-	-	-	-NONE-	
	C-H	<u>ALL PRESSURE RETAINING COMPONENTS</u>					
C7.10	C-H	<u>PRESSURE RETAINING BOUNDARY</u>	*	-	-		* PERFORMED BY PLANT PERSONNEL IN ACCORD- ANCE WITH IWA-5000 DURING EACH SYSTEM LEAKAGE TEST AND EACH SYSTEM HYDRO- STATIC TEST REQUIRED BY IWC-5000.
C7.20	C-H	<u>PRESSURE RETAINING BOUNDARY</u>	*	-	-		

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 1

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S2.1.4PAGE 1 OF 1MAJOR 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.
	C-A	<u>PRESSURE RETAINING WELDS IN PRESSURE VESSELS</u>					
C1.10	C-A	<u>SHELL CIRCUMFERENTIAL WELDS</u>	-	-	-	-NONE-	
C1.20	C-A	<u>HEAD CIRCUMFERENTIAL WELDS</u>					
		BORIC ACID TANK NO. 11	TWO	1	-		
		BORIC ACID TANK NO. 121	THREE	1	-		
	C-B	<u>PRESSURE RETAINING NOZZLE WELDS IN VESSELS</u>					
C2.10	C-B	<u>NOZZLE IN VESSELS 1/2" AND LESS NOMINAL THICKNESS</u>					
		BORIC ACID TANK NO. 11	THREE	1	-		
		BORIC ACID TANK NO. 121	-	-	-		
C3.10	C-C	<u>INTEGRALLY WELDED ATTACHMENTS</u>	-	-	-	-NONE-	
	C-H	<u>ALL PRESSURE RETAINING COMPONENTS</u>					
C7.10	C-H	<u>PRESSURE RETAINING BOUNDARY</u>	*	-	-		* PERFORMED BY PLANT PERSONNEL IN ACCORD- ANCE WITH IWA-5000 DURING EACH SYSTEM LEAKAGE TEST AND EACH SYSTEM HYDRO- STATIC TEST REQUIRED BY IWC-5000.
C7.20	C-H	<u>PRESSURE RETAINING BOUNDARY</u>	*	-	-	-	

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 1

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.
	C-A	<u>PRESSURE RETAINING WELDS IN PRESSURE VESSELS</u>					
C1.10	C-A	<u>SHELL CIRCUMFERENTIAL WELDS</u>	-	-	-	-NONE-	
C1.20	C-A	<u>HEAD CIRCUMFERENTIAL WELDS</u>					
		BORIC ACID TANK NO. 11	TWO	1	-		
		BORIC ACID TANK NO. 121	THREE	1	-		
	C-B	<u>PRESSURE RETAINING NOZZLE WELDS IN VESSELS</u>					
C2.10	C-B	<u>NOZZLE IN VESSELS 1/2" AND LESS NOMINAL THICKNESS</u>					
		BORIC ACID TANK NO. 11	THREE	1	-		
		BORIC ACID TANK NO. 121	-	-	-		
C3.10	C-C	<u>INTEGRALLY WELDED ATTACHMENTS</u>	-	-	-	-NONE-	
	C-H	<u>ALL PRESSURE RETAINING COMPONENTS</u>					
C7.10	C-H	<u>PRESSURE RETAINING BOUNDARY</u>	*	-	-		* PERFORMED BY PLANT PERSONNEL IN ACCORD- ANCE WITH IWA-5000 DURING EACH SYSTEM LEAKAGE TEST AND EACH SYSTEM HYDRO- STATIC TEST REQUIRED BY IWC-5000.
C7.20	C-H	<u>PRESSURE RETAINING BOUNDARY</u>	*	-	-	-	

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 1

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S2.2PAGE 1 OF 7MAJOR 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.
C3.20	C-C	<u>INTEGRAL ATTACHMENTS FOR PIPING</u>					
	C-C	<u>INTEGRALLY WELDED ATTACHMENTS</u>					
		MAIN STEAM LOOP A	ONE TWO THREE	3 3 3	1 - -	D	85-147
		MAIN STEAM LOOP B	ONE TWO THREE	3 3 3	1 - -	G	85-050, 085
		MAIN STEAM RELIEF HEADERS A & B	THREE	1	-		
		FEEDWATER LOOP A	ONE TWO THREE	2 2 3	1 - -	R	85-049
		FEEDWATER LOOP B	-	-	-		ALL ENCAPSULATED
		RHR PUMP SUCTION LOOP A	ONE TWO THREE	- 1 1	- - -		
		RHR PUMP DISCHARGE LOOP A	ONE	1	-		
		RHR PUMP DISCHARGE LOOP B	TWO	1	-		
		ACCUMULATOR DISCHARGE	ONE	1	1	C	85-041
		CONTAINMENT SUMP LOOP B DISCHARGE	-	-	-		EMBEDDED

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 1TABLE S2.2PAGE 2 OF 7

INSERVICE INSPECTION-EXAMINATION SUMMARY

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.
	C-D	<u>PRESSURE RETAINING BOLTING GREATER THAN 2" IN DIAMETER</u>					
C4.20	C-D	<u>BOLTS AND STUDS</u>	-	-	-	-NONE-	
	C-F	<u>PRESSURE RETAINING WELDS IN PIPING</u>					
C5.10	C-F	<u>PIPING WELDS 1/2" AND LESS NOMINAL WALL THICKNESS</u>					
C5.11 & C5.12	C-F	<u>CIRCUMFERENTIAL WELDS AND LONGITUDINAL WELDS</u>					
		<u>('75 CATEGORY C-F)</u>					
		RHR PUMP SUCTION	ONE	1	-		
		12-RH-5A	TWO	1	-		
		12-RH-5B	THREE	2	-		
		8-RH-5A	ONE	-	-		
		8-RH-5B	TWO	-	-		
			THREE	1	-		
		8-RH-4A	ONE	-	-		
		8-RH-4B	TWO	1	-		
			THREE	1	-		
		10-RH-3	ONE	2	1	W-26	85-116
			TWO	1	-		
			THREE	2	-		

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NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT I

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S2.2PAGE 5 OF 7MAJOR 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.
C5.21 *	C-F	CIRCUMFERENTIAL WELDS					
&		AND					
C5.22	C-F	LONGITUDINAL WELDS					
		('75 CATEGORY C-F)					
		MAIN STEAM A & B					
		32-MS-1	THREE	1	-		
		32-MS-2					
		30-MS-1	ONE	1	1	MS-4	85-003, 018
		30-MS-2	TWO	1	-		
		31-MS-1	ONE	3	1	MS-109W	
		31-MS-2				(ENCAPSULATED)	
		MAIN STEAM A & B RELIEF HEADER					
		30-MS-1	ONE	-	-		
		30-MS-2	TWO	1	-		
			THREE	1	-		
		FEEDWATER A					
		16-FW-13	ONE	-	1	FW-164	85-002, 006, 019
		16-FW-12	TWO	3	-		
			THREE	1	-		
		FEEDWATER B					
		16-FW-16	ONE	1	1	FW-216	85-001, 004, 021
		16-FW-15	TWO	-	-		
			THREE	1	-		

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 1

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S2.2PAGE 6 OF 7MAJOR 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.
C5.21 & C5.22	C-F	<u>CONT'D</u> REACTOR VESSEL SAFETY INJECTION 6-SI-25A 6-SI-25B <u>('75 CATEGORY C-G)</u> ACCUMULATOR DISCHARGE 12-SI-28A 12-SI-28B 12-SI-29A 12-SI-29B	ONE TWO THREE	2 - 1	1 - -	W-11	85-007, 011, 051
C5.30	C-F	BRANCH PIPE CONNECTIONS GREATER THAN 4" NOMINAL BRANCH PIPE SIZE				W-1319	85-010, 060
C5.31	C-F	<u>CIRCUMFERENTIAL WELD</u> <u>('75 CATEGORY C-G)</u> MAIN STEAM A & B RELIEF HEADER 30-MS-1 30-MS-2	ONE TWO THREE	1 2 2	- - -		

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 1

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S2.2PAGE 7 OF 7MAJOR 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.
C5.31	C-F	<u>CONT'D</u> FEEDWATER A & B AUXILIARY 16-FW-13 16-FW-16	TWO	1	-		
C-5.32	C-F	<u>LONGITUDINAL WELDS</u>	-	-	-	-NONE-	
	C-H	<u>ALL PRESSURE RETAINING COMPONENTS</u>					
C7.30	C-H	<u>PRESSURE RETAINING BOUNDARY</u>	*	-	-		* PERFORMED BY PLANT PERSONNEL IN ACCORD- ANCE WITH IWA-5000 DURING EACH SYSTEM LEAKAGE TEST AND EACH SYSTEM HYDRO- STATIC TEST REQUIRED BY IWC-5000.
C7.40	C-H	<u>PRESSURE RETAINING BOUNDARY</u>	*	-	-	-	

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 1

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S2.3

PAGE 1 OF 2

MAJOR ITEM: PUMPS

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
C3.30	C-C	<u>INTEGRAL ATTACHMENT FOR PUMPS</u>					
	C-C	<u>INTEGRALLY WELDED ATTACHMENTS</u>					
		RESIDUAL HEAT REMOVAL					
		PUMP NO. 11 PUMP NO. 12	ONE TWO THREE	- 1 1	- - -		
C4.30		SAFETY INJECTION					
		PUMP NO. 11 PUMP NO. 12	ONE TWO THREE	4 4 4	1 - -	SUPPORT C	85-102, 103
	C-D	<u>PRESSURE RETAINING BOLTING GREATER THAN 2" IN DIAMETER</u>					
	C-D	<u>BOLTS AND STUDS</u>	-	-	-	-NONE-	
C6.10	C-G	<u>PRESSURE RETAINING WELDS IN PUMPS</u>					
	C-G	<u>PUMP CASING WELDS</u>					
		SAFETY INJECTION PUMPS					
		CASING TO FLANGE WELD ON DISCHARGE					
		PUMP NO. 11 PUMP NO. 12	- THREE	- 1	- -		

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 1

INSERVICE INSPECTION-EXAMINATION SUMMARY

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

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
C6.10	C-G	<u>CONT'D</u> CASING TO FLANGE WELD ON SUCTION PUMP NO. 11 PUMP NO. 12	THREE -	1 -	- -		
	C-H	<u>ALL PRESSURE RETAINING COMPONENTS</u>					
C7.50	C-H	<u>PRESSURE RETAINING BOUNDARY</u>	*	-	-		* PERFORMED BY PLANT PERSONNEL IN ACCORD- ANCE WITH IWA-5000 DURING EACH SYSTEM LEAKAGE TEST AND EACH SYSTEM HYDRO- STATIC TEST REQUIRED BY IWC-5000.
C7.60	C-H	<u>PRESSURE RETAINING BOUNDARY</u>	*	-	-	-	

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT I

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S2.4PAGE 1 OF 1MAJOR 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.
	C-C	<u>INTEGRAL ATTACHMENTS FOR VALVES</u>					
C3.40	C-C	<u>INTEGRALLY WELDED ATTACHMENTS</u>	-	-	-	-NONE-	
	C-D	<u>PRESSURE RETAINING BOLTING GREATER THAN 2" IN DIAMETER</u>					
C4.40	C-D	<u>BOLTS AND STUDS</u>	-	-	-	-NONE-	
	C-G	<u>PRESSURE RETAINING WELDS IN VALVES</u>					
C6.20	C-G	<u>VALVES</u>	-	-	-	-NONE-	
	C-H	<u>ALL PRESSURE RETAINING COMPONENTS</u>					
C7.70	C-H	<u>PRESSURE RETAINING BOUNDARY</u>	*	-	-		* PERFORMED BY PLANT PERSONNEL IN ACCORD- ANCE WITH IWA-5000 DURING EACH SYSTEM LEAKAGE TEST AND EACH SYSTEM HYDRO- STATIC TEST REQUIRED BY IWC-5000.
C7.80	C-H	<u>PRESSURE RETAINING BOUNDARY</u>	*	-	-	-	

CLASS II

COMPONENT/SYSTEM	NSP ISO	NDE METHOD	W BASELINE IDENT.	REPORT NO.	BASELINE INDICATIONS	ISI INDICATIONS	EXAMINATION LIMITATIONS
-PIPING-							
C3.20 INTEGRALLY WELDED ATTACHMENTS							
MAIN STEAM LOOP A	51	MT VT	D	85-147 85-047	N/A N/A	NONE NONE	NONE NONE
MAIN STEAM LOOP B	68A	MT VT	G	85-050 85-085	N/A N/A	N/A N/A	ENCAPSULATED ENCAPSULATED
FEEDWATER LOOP A	52A	MT VT	R	85-049 85-048	N/A N/A	NONE NONE	NONE NONE
ACCUMULATOR DISCHARGE	85	PT VT	C	85-041 85-044	NONE NONE	NONE LOAD SETTINGS WRONG - DRAWING TO BE UPDATED	NONE NONE
C5.11 CIRCUMFERENTIAL AND & LONGITUDINAL WELDS C5.12 LESS THAN 1/2" WALL							
RHR PUMP SUCTION	53	PT	W-26	85-116	N/A	NONE	NONE
RHR DISCHARGE	55	PT	W-95	85-117	N/A	N/A	EMBEDDED IN CONCRETE WALL
	78	PT	W-154	85-109	N/A	GOUGE @ 7:00	NONE
RWST DISCHARGE	80	PT	W-200	86-130	N/A	NONE	NONE

CLASS II

COMPONENT/SYSTEM	NSP ISO	NDE METHOD	W BASELINE IDENT.	REPORT NO.	BASELINE INDICATIONS	ISI INDICATIONS	EXAMINATION LIMITATIONS
C5.21 CIRCUMFERENTIAL AND & LONGITUDINAL WELDS C5.22 GREATER THAN 1/2" WALL							
MAIN STEAM LOOP A	51A	UT	MS-4	85-018	N/A	S-1 ID GEO 45% ID GEO 25% S-2 ID GEO 20% NONE	S-2 LIMITED TO 1.1' SCAN DISTANCE BAND AROUND PIPE NONE
		MT		85-003	N/A		
MAIN STEAM LOOP B	68B	UT	MS-109W	N/A	N/A	N/A	ENCAPSULATED
		MT		N/A	N/A	N/A	ENCAPSULATED
FEEDWATER LOOP A	52A	UT	FW-164	85-019	ID, OD. GEO.	S-2 ID GEO 25- 45% OD GEO 25- 45% S-3 ID GEO < 20- 30% WATER S-4 ID GEO 30% WATER	NO S-1 DIFFERENT CALIBRATION
		UT		85-006	ID, OD. GEO.	S-1 ID GEO 80% OD GEO 30% ID GEO 30% OD GEO 80% OD GEO 95%	NO S-2 DIFFERENT CALIBRATION S-1 LIMITED AT 12:00 VENT LINE
		MT		85-002	LINEARS	REDIRECTED BEAM NONE	NONE

CLASS II

COMPONENT/SYSTEM	NSP ISO	NDE METHOD	W BASELINE IDENT.	REPORT NO.	BASELINE INDICATIONS	ISI INDICATIONS	EXAMINATION LIMITATIONS
FEEDWATER LOOP B	69A	UT	FW-216	85-020	ID, OD. GEO.	S-2 ID GEO 65- 85% ID GEO 45% S-3 ID GEO 35% WATER S-4 ID GEO 25% WATER	NO S-1 DIFFERENT CALIBRATION
		UT		85-004	ID, OD. GEO.	S-1 ID GEO 50% OD GEO 50% ID GEO 55% OD GEO 45% REDIRECTED BEAM	NO S-2 DIFFERENT CALIBRATION S-1 LIMITED AT 12:00 VENT LINE
		MT		85-001	LINEARS	NONE	NONE
REACTOR VESSEL SAFETY INJECTION	89	UT	W-11	85-051	N/A	S-1 ID GEO 50% OD GEO 25% S-2 ID GEO 30% OD GEO 25% 1S ID GEO < 20% OD GEO < 20% 35 ID GEO < 20% OD GEO < 20% GOUGES - ACCEPT- ABLE	S-2 LIMITED 2:00 TO 4:00 ELBOW INNER RADIUS (EIR) S-1, 3, 4 LIMITED TO 3.1" SCAN AREA
		PT		85-007	N/A		NONE
ACCUMULATOR DISCHARGE	85	UT	W-1319	85-060	N/A	S-1 ID GEO 25% OD GEO 45% S-2 ID GEO 22% OD GEO 50%	S-1 LIMITED 11:00 TO 1:00 E.I.R. S-2, 3, 4 LIMITED RESTRAINT
		PT		85-010	N/A	NONE	NONE

CLASS II

COMPONENT/SYSTEM	NSP ISO	NDE METHOD	W BASELINE IDENT.	REPORT NO.	BASELINE INDICATIONS	ISI INDICATIONS	EXAMINATION LIMITATIONS
C3.30 INTEGRALLY WELDED ATTACHMENTS							
SAFETY INJECTION PUMP #12	83	MT VT	SUPPORT C	85-102 85-103	NONE NONE	NONE NONE	BOTTOM WELD INACCESSIBLE NONE

NORTHERN STATES POWER COMPANY
 Prairie Island Unit 1
 Isometric Summary

CLASS 2

TABLE III
 Page 1 of 3

NSP ISO NUMBER	REVISION NUMBER	COMPONENT OR SYSTEM	LOOP DESIG	LINE NUMBER	LINE SIZE	WALL THICK	UT-CAL STD
ISI-43	1	STEAM GENERATORS	A & B	-	-	3.5"	26
ISI-51	0	MAIN STEAM (GENERAL VIEW)	-	-	-	-	-
ISI-51A	0		A	32-MS-1	32"		No _____
ISI-51B	1		A	31-MS-1	31"	1.534"	24
			A	30-MS-1	30"	1.045"	23
			A	6-MS-1	6"	.432"	7
ISI-52	0	FEEDWATER (GENERAL VIEW)	A	-	-	-	-
ISI-52A	1		A	16-FW-13	16"	1.031"	13/36
ISI-52B	0		A	16-FW-8	16"	1.031"	13
			A	3-AF-11	8"	.594"	No _____
ISI-53	2	RHR PUMP A SUCTION (WELDS)	A	10-RH-3	10"	.365"	22
ISI-54	2	RHR PUMP A SUCTION (HANGERS)	A	8-RH-4A	8"	.322"	29
			A	8-RH-5A	8"	.322"	29
			A	12-RH-5A	12"	.375"	32
			A	12-RH-6A	12"	.375"	32
			A	10-SI-9A	10"	.365"	22
ISI-55	2	RHR PUMP A DISCHARGE (WELDS)	A	8-RH-7A	8"	.322"	29
ISI-56	0	RHR PUMP A DISCHARGE (HANGERS)	A	8-RH-9A	8"	.322"	29
			A	6-RH-10A	6"	.280"	27
			A	6-SI-10A	6"	.280"	27
			A	6-SI-10B	6"	.718"	6
ISI-68	0	MAIN STEAM (GENERAL VIEW)	B	-	-	-	-
ISI-68A	0		B	32-MS-2	32"		No _____
ISI-68B	1		B	31-MS-2	31"	1.534"	24
			B	30-MS-2	30"	1.045"	23
			B	6-MS-2	6"	.432	7

NORTHERN STATES POWER COMPANY
 Prairie Island Unit I
 Isometric Summary

CLASS 2

TABLE III
 Page 2 of 3

NSP ISO NUMBER	REVISION NUMBER	COMPONENT OR SYSTEM	LOOP DESIG	LINE NUMBER	LINE SIZE	WALL THICK	UT-CAL STD
ISI-69	0	FEEDWATER (GENERAL VIEW)	B	-	-	-	-
ISI-69A	1		B	16-FW-16	16"	1.031"	13/36
ISI-69B	0		B	16-FW-15	16"	1.031"	13
			B	3-AF-12	8"	.594"	No _____
ISI-76	2	RHR PUMP B SUCTION (WELDS)	B	8-RH-4B	8"	.322"	29
ISI-77	1	RHR PUMP B SUCTION (HANGERS)	B	8-RH-5B	8"	.322"	29
			B	12-RH-5B	12"	.375"	32
			B	12-RH-6B	12"	.375"	32
			B	10-SI-9B	10"	.365"	22
ISI-78	2	RHR PUMP B DISCHARGE (WELDS)	B	8-RH-7B	8"	.322"	29
ISI-79	0	RHR PUMP B DISCHARGE (HANGERS)	B	8-RH-9B	8"	.322"	29
			B	6-RH-10B	6"	.280"	27
			B	10-RH-11	10"	.365"	22
			B	6-RH-12	6"	.280"	27
ISI-80	2	REFUELING WATER STORAGE TANK DISCHARGE (WELDS)	-	14-SI-1	14"	.250"	34
			-	12-SI-3A	12"	.180"	33
ISI-81	0	REFUELING WATER STORAGE TANK DISCHARGE (HANGERS)	-	12-SI-3B	12"	.180"	33
			-	12-SI-4	12"	.180"	33
			-	10-SI-8	10"	.165"	31
			-	12-SI-11	12"	.180"	33
ISI-82	2	SAFETY INJECTION PUMPS' SUCTION	-	12-SI-11	12"	.180"	33
			-	8-SI-17	8"	.148"	30
			-	8-SI-8	8"	.148"	30
ISI-83	1	SAFETY INJECTION PUMPS' SUCTION AND	-	6-SI-13A	6"	.133"	28
		SAFETY INJECTION PUMPS	-	6-SI-13B	6"	.133"	28
			11 & 12	-	-	-	No _____

NORTHERN STATES POWER COMPANY
Prairie Island Unit I
Isometric Summary

CLASS 2

TABLE III
Page 3 of 3

NSP ISO NUMBER	REVISION NUMBER	COMPONENT OR SYSTEM	LOOP DESIG	LINE NUMBER	LINE SIZE	WALL THICK	UT-CAL STD
ISI-84	1	BORIC ACID SUPPLY	-	8-SI-18	8"	.148"	30
ISI-85	1	ACCUMULATOR DISCHARGE	A	12-SI-28A	12"	1.312"	11
			A	12-SI-29A	12"	1.312"	11
			B	12-SI-28B	12"	1.312"	11
			B	12-SI-29B	12"	1.312"	11
ISI-86	1	ACCUMULATOR TANKS	11 & 12	-	SHELL	2.75"	No _____
			11 & 12	-	HEAD	1.39"	No _____
ISI-87	1	CONTAINMENT SUMP B DISCHARGE (WELDS)	A	14-SI-33A	14"	.25"	34
ISI-88	0	CONTAINMENT SUMP B DISCHARGE (HANGERS)	A	12-SI-34A	12"	.375"	32
			B	14-SI-33B	14"	.25"	34
			B	12-SI-34B	12"	.375"	32
ISI-89	1	REACTOR VESSEL SAFETY INJECTION (WELDS)	A	6-SI-25A	6"	.718"	6
ISI-90	0	REACTOR VESSEL SAFETY INJECTION (HANGERS)	B	6-SI-25B	6"	.718"	6
ISI-91	2	ALTERNATE CONTAINMENT SPRAY PUMP SUCTION (WELDS)	A	6-RH-10A	6"	.280"	27
ISI-92	0	ALTERNATE CONTAINMENT SPRAY PUMP SUCTION (HANGERS)	B	6-RH-10B	6"	.280"	27
ISI-93	0	RESIDUAL HEAT EXCHANGERS	11 & 12	-	HEAD	.500"	NO _____
ISI-94	0	BORIC ACID TANKS	11 & 121	-	SHELL BOT HD	.312" .375"	NO _____ NO _____

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 1

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE FSAR

PAGE 1 OF 4

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.
C-F	PRESSURE PIPING	RETAINING WELDS IN					
C5.10	C-F	PIPING WELDS 1/2" AND LESS NOMINAL WALL THICKNESS					
C5.11 & C5.12	C-F	CIRCUMFERENTIAL WELDS AND LONGITUDINAL WELDS					
		MAIN STEAM A & B	ONE	1	-		
		6-MS-1	TWO	-	-		
		5-MS-1	THREE	1	-		
C5.20	C-F	PIPING WELDS GREATER THAN 1/2" NOMINAL THICKNESS					
C5.21 & C5.22	C-F	CIRCUMFERENTIAL WELDS AND LONGITUDINAL WELDS					
		MAIN STEAM A	ONE	1	-		
		31-MS-1	TWO	1	-		
			THREE	2	-		
		MAIN STEAM B	*	-	-		* ENCAPSULATED
		31-MS-2					
		MAIN STEAM A RELIEF HEADER	ONE	-	-		
		30-MS-2	TWO	1	-		
			THREE	1	-		
		MAIN STEAM B RELIEF HEADER	ONE	-	-		
		30-MS-1	TWO	1	-		
			THREE	-	-		

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 1

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE FSAR

PAGE 2 OF 4MAJOR 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.
C5.21 & C5.22	C-F	CONT'D					
		MAIN STEAM A	ONE	1	-		
		30-MS-1	TWO	1	-		
		30-MS-3	THREE	-	-		
		MAIN STEAM B	ONE	-	-		
		30-MS-2	TWO	1	-		
		30-MS-4	THREE	1	-		
		MAIN STEAM A	ONE	-	-		
		24-MS-21	TWO	1	-		
			THREE	1	-		
		MAIN STEAM B	ONE	1	1	MS-128	85-064, 077
		24-MS-24	TWO	-	-		
			THREE	-	-		
		MAIN STEAM A	*	-	-		* ENCAPSULATED
		12-MS-3					
		MAIN STEAM B	ONE	-	-		
		12-MS-4	TWO	-	-		
			THREE	1	-		
		MAIN STEAM A	ONE	1	1	MS-152	85-066, 067
		8-MS-1	TWO	-	-		
			THREE	-	-		
		MAIN STEAM B	ONE	-	-		
		8-MS-24	TWO	-	-		
			THREE	1	-		

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 1

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE FSAR
PAGE 3 OF 4
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.
C5.21 & C5.22	C-F	CONT'D FEEDWATER A 16-FW-8 FEEDWATER B 16-FW-8 FEEDWATER A 16-FW-9 16-FW-11 16-FW-12 FEEDWATER B 16-FW-10 16-FW-14 16-FW-15	ONE TWO THREE ONE TWO THREE ONE TWO THREE ONE TWO THREE	- 1 2 - 1 2 1 1 - 1 - 1	- - - - - - 1 - -	FW-197	85-065, 082
C5.30	C-F	PIPE BRANCH CONNECTIONS GREATER THAN 4" NOMINAL BRANCH PIPE SIZE					
C5.31	C-F	CIRCUMFERENTIAL WELDS MAIN STEAM A RELIEF HEADER (AT 12") 30-MS-1 MAIN STEAM B RELIEF HEADER (AT 12") 30-MS-2 MAIN STEAM A & B 24-MS-21 24-MS-24	ONE TWO THREE ONE TWO THREE ONE TWO THREE	- 1 - 1 - 1 - 1 -	- - - - - - - - -		

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT I

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE FSAR

PAGE 4 OF 4MAJOR 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.
C5.32	C-F	<u>LONGITUDINAL WELDS</u>	-	-	-	-NONE-	

COMPONENT/SYSTEM	NSP ISO	NDE METHOD	W BASELINE IDENT.	REPORT NO.	BASELINE INDICATIONS	ISI INDICATIONS	EXAMINATION LIMITATIONS
-PIPING-							
C5.21 CIRCUMFERENTIAL AND & LONGITUDINAL WELDS C5.22 GREATER THAN 1/2" WALL							
MAIN STEAM LOOP A	51D	UT	MS-152	85-067		NONE	NO S-1 OR 2 VALVE TO REDUCER
		MT		85-066		NONE	NONE
MAIN STEAM LOOP B	68C	UT	MS-128	85-077		S-2 ID GEO 45% OD GEO 20%	NO SCANS 9:00 TO 3:00 RESTRAINT S-2 LIMITED 9:00 TO 3:00 RESTRAINT S-1 LIMITED 5:00 TO 7:00 ELBOW INNER RADIUS LIMITED 9:00 TO 3:00 RESTRAINT
		MT		85-064		NONE	
FEEDWATER LOOP B	69B	UT	FW-197	86-082		S-1 ID GEO 25% OD GEO 20% AT 11:30	NO S-2 VALVE LIMITED AT 3:00 SWEEP-O-LET
		MT		85-065		NONE	NONE

NORTHERN STATES POWER COMPANY
 PRAIRIE ISLAND UNIT 1
 ISOMETRIC SUMMARY

FSAR

TABLE III
 PAGE 1 OF 1

NSP ISO NUMBER	REVISION NUMBER	COMPONENT OR SYSTEM	LOOP DESIG.	LINE NUMBER	LINE SIZE	WALL THICK.	UT-CAL STAND.
ISI-51	0	MAIN STEAM (GENERAL VIEW)	-	-	-	-	-
ISI-51B	0		A	31-MS-1	31"	1.534"	24
ISI-51C	0		A	30-MS-1	30"	1.045"	23
ISI-51D	0		A	30-MS-3	30"	1.045"	23
			A	24-MS-21	24"	1.219"	20
			A	12-MS-2	12"	.688"	NO. <u>7</u>
		A	6-MS-1	6"	.432"		
ISI-52	0	FEEDWATER (GENERAL VIEW)	-	-	-	-	
ISI-52B	0		A	16-FW-12	16"	1.438"	21
ISI-52C	0		A	16-FW-11	16"	1.031"	13
			A	16-FW-9	16"	1.031"	13
		A	16-FW-8	16"	1.031"	13	
ISI-68	0	MAIN STEAM (GENERAL VIEW)	-	-	-	-	-
ISI-68B	1		B	31-MS-2	31"	1.534"	24
ISI-68C	0		B	30-MS-2	30"	1.045"	23
			B	30-MS-4	30"	1.045"	23
			B	24-MS-24	24"	1.219"	20
			B	12-MS-4	12"	.688"	NO. <u>9</u>
			B	8-MS-24	8"	.719"	
			B	6-MS-2	6"	.432"	7
ISI-69	0	FEEDWATER (GENERAL VIEW)	-	-	-	-	
ISI-69B	0		B	16-FW-15	16"	1.438"	21
ISI-69C	0		B	16-FW-14	16"	1.031"	13
			B	16-FW-10	16"	1.031"	13
		B	16-FW-8	16"	1.031"	13	

APPENDIX D
COMPONENT SUPPORTS

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT I

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE SCS1.1

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MAJOR ITEM: COMPONENT 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.
*	F-A	PLATE AND SHELL TYPE SUPPORTS					* ITEM NO.'S F-1, F-2, F-3 AND F-4 FOR EACH CATEGORY EXAMINED AS ONE COMPLETE ASSEMBLY
*	F-B	LINEAR TYPE SUPPORTS					
*	F-C	COMPONENT STANDARD SUPPORTS					
		<u>REACTOR VESSEL</u>					
		LUGS	THREE	2	-		
		<u>PRESSURIZERS</u>					
		SUPPORT SKIRT	ONE TWO THREE	33% 33% 34%	- - -		
		SUPPORT BOLTING	ONE TWO THREE	8 8 8	8 - -	BOLTS 1 THRU 8	85-126
		<u>STEAM GENERATORS</u>					
		S/G NO. 11					
		UPPER RING GIRDER (SNUBBER PINS)	ONE TWO THREE	- - 4	- - -		
		UPPER RING GIRDER (SNUBBER WALL BOLTS)	ONE TWO THREE	15 - -	15 - -	SNUBBER PAD	85-016
		UPPER RING GIRDER (WALL BOLTS)	ONE TWO THREE	30 - -	30 - -	PAD 1, 2, 3, 4	85-012, 013, 014, 015

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT I

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE SCS1.1

PAGE 2 OF 9MAJOR ITEM: COMPONENT 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.
		UPPER RING GIRDER (SNUBBER BOLTS)	ONE TWO THREE	- - 32	- - -		
		UPPER RING GIRDER (CONNECTING BOLTS)	ONE TWO THREE	- 40 -	- - -		
		UPPER RING GIRDER (SPRING HANGERS)	ONE TWO THREE	- - 2	- - -		
		COLUMN PINS	ONE TWO THREE	2 4 2	- - -		
		BASE ANCHOR BOLTS	ONE TWO THREE	16 8 8	8 - -	COL. 2	85-128
		TOP COLUMN CONNECTING BOLTS	ONE TWO THREE	4 8 4	- - -		
		SUPPORT PAD HELICOIL SCREWS	ONE TWO THREE	6 6 12	6 - -	COL. 4	85-142, 143
		LOWER LATERAL SUPPORT ANCHOR WALL BOLTS	ONE TWO THREE	- - 54	- - -		
		LATERAL SUPPORT WALL BOLTS	ONE TWO THREE	- 16 -	- - -		

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT I

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE SCS1.1

PAGE 3 OF 9

MAJOR ITEM: COMPONENT 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.
		S/G NO. 12					
		UPPER RING GIRDER (SNUBBER PINS)	ONE TWO THREE	- - 4	- - -		
		UPPER RING GIRDER (SNUBBER WALL BOLTS)	ONE TWO THREE	15 - -	15 - -	SNUBBER PAD	85-017
		UPPER RING GIRDER (WALL BOLTS)	ONE TWO THREE	30 - -	- - -		
		UPPER RING GIRDER (SNUBBER BOLTS)	ONE TWO THREE	- - 32	- - -		
		UPPER RING GIRDER (CONNECTING BOLTS)	ONE TWO THREE	- 40 -	- - -		
		UPPER RING GIRDER (SPRING HANGERS)	ONE TWO THREE	- - 2	- - -		
		COLUMN PINS	ONE TWO THREE	2 2 4	- - -		
		BASE ANCHOR BOLTS	ONE TWO THREE	16 8 8	- - -		

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE SCS1.1

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MAJOR ITEM: COMPONENT 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.
		TOP COLUMN CONNECTING BOLTS	ONE TWO THREE	4 8 4	4 - -	COL. 1	85-127
		SUPPORT PAD HELICOIL SCREWS	ONE TWO THREE	6 12 6	- - -		
		LOWER LATERAL SUPPORT ANCHOR WALL BOLTS	ONE TWO THREE	- - 54	54 - -	PAD 1, 2, 3, 4 FIXTURE 1, 2, 3	85-131, 132, 133, 134, 135, 136, 137
		LATERAL SUPPORT WALL BOLTS	ONE TWO THREE	12 - -	12 - -	PAD 5	85-137
		CONNECTING BOLTS IN LATERAL BEAM	ONE TWO THREE	- 16 -	16 - -	BEAM PLATE	85-138
		<u>PUMPS</u>					
		REACTOR CORE COOLANT					
		PUMP NO. 11					
		COLUMN PINS	ONE TWO THREE	2 2 2	- - -		
		BASE ANCHOR BOLTS	ONE TWO THREE	8 8 8	- - -		

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT I

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE SCS1.1

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MAJOR ITEM: COMPONENT 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.
		COLUMN CONNECTING BOLTS	ONE TWO THREE	4 4 4	- - -		
		TIE BACK BOLTS	ONE TWO THREE	1 1 1	1 - -	COL. 1	85-087, 047
		TIE BACK PINS	ONE TWO THREE	1 1 1	- - -		
		THROUGH ANCHOR BOLTS	THREE	6	-		
		LATERAL SUPPORT AND WALL BOLTS	ONE TWO THREE	6 4 -	6 - -	COL. 2	85-084
		REACTOR CORE COOLANT PUMP NO. 12					
		COLUMN PINS	ONE TWO THREE	2 2 2	- - -		
		BASE ANCHOR BOLTS	ONE TWO THREE	8 8 8	8 - -	COL. 2	85-129
		COLUMN CONNECTING BOLTS	ONE TWO THREE	4 4 4	- - -		

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT I

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE SCS1.1

PAGE 6 OF 9

MAJOR ITEM: COMPONENT 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.
		TIE BACK BOLTS	ONE TWO THREE	1 1 1	- - -		
		TIE BACK PINS	ONE TWO THREE	1 1 1	- - -		
		THROUGH ANCHOR BOLTS	ONE TWO THREE	- - 6	- - -		
		LATERAL SUPPORT AND WALL BOLTS	ONE TWO THREE	6 4 -	- - -		
		<u>PIPING</u>					
		CHARGING LINE LOOP B	ONE TWO THREE	7 7 7	3 - -	D, G, Q1	85-045, 046, 074
		ACCUMULATOR DISCHARGE	ONE TWO THREE	1 1 1	- - -		
		RESIDUAL HEAT REMOVAL TAKE OFF LOOP A	ONE TWO THREE	8 8 10	3 - -	B, G2, P	85-139, 081, 028
		SPRAY TO PRESSURIZER BRANCH A	ONE TWO THREE	4 4 6	3 - -	G, K1, H	85-093, 095, 099

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE SCS1.1

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MAJOR ITEM: COMPONENT 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.
		SPRAY TO PRESSURIZER BRANCH B	ONE TWO THREE	5 5 6	1 - -	K	85-094, 094R
		RESIDUAL TEMPERATURE DETECTOR RETURN LOOP A	ONE TWO THREE	1 - 1	- - -		
		RESIDUAL TEMPERATURE DETECTOR TAKE OFF COLD LEG LOOP A	ONE TWO THREE	2 2 2	1 - -	B	85-101
		RESIDUAL TEMPERATURE DETECTOR TAKE OFF HOT LEG LOOP A	ONE TWO THREE	1 1 2	- - -		
		SAFETY INJECTION HIGH HEAD LOOP A	ONE TWO THREE	- 1 1	- - -		
		DRAIN ON CROSSOVER LOOP A	ONE TWO THREE	1 1 1	1 - -	B1	85-072
		SEAL INJECTION LOOP A	ONE TWO THREE	7 7 8	2 - -	F, 0	85-069, 070
		REACTOR COOLANT LOOP A	ONE TWO THREE	1 1 2	- - -		
		REACTOR COOLANT LOOP B	ONE TWO THREE	1 1 2	- - -		

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT I

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE SCS1.1

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MAJOR ITEM: COMPONENT 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.
		ACCUMULATOR DISCHARGE LOOP B	ONE TWO THREE	1 1 2	1 - -	B1	85-096
		RESIDUAL HEAT REMOVAL RETURN LOOP B	ONE TWO THREE	2 2 3	- - -		
		RESIDUAL HEAT REMOVAL TAKE OFF LOOP B	ONE TWO THREE	5 5 5	3 - -	E, J, P	85-030, 029, 063
		RESIDUAL TEMPERATURE DETECTOR RETURN LOOP B	ONE TWO THREE	1 1 1	- - -		
		RESIDUAL TEMPERATURE DETECTOR TAKE OFF COLD LEG LOOP B	ONE TWO THREE	1 1 2	- - -		
		RESIDUAL TEMPERATURE DETECTOR TAKE OFF HOT LEG LOOP B	ONE TWO THREE	1 2 2	1 - -	A	85-090
		SAFETY INJECTION	ONE TWO THREE	1 1 1	- - -		
		DRAIN ON CROSSOVER LOOP B	ONE TWO THREE	1 - -	1 - -	A	85-110
		LETDOWN LINE CVCS LOOP B	ONE TWO THREE	3 3 3	2 - -	E, F	85-092, 091

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT I

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE SCS1.1

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MAJOR ITEM: COMPONENT 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.
		SEAL INJECTION LOOP B	ONE TWO THREE	4 4 4	2 - -	A, C1	85-071, 073, 073R
		PRESSURIZER SURGE LOOP B	ONE TWO THREE	3 3 4	1 - -	E	85-088, 088R
		REACTOR VESSEL SAFETY INJECTION LOOP A & B	ONE TWO THREE	1 1 2	1 - -	C1	85-034
		AUXILIARY SPRAY CVCS	ONE TWO THREE	2 3 3	- - -		
		PRESSURIZER RELIEF	ONE TWO THREE	- 1 1	- - -		
		REACTOR VESSEL SAFETY INJECTION LOOP A & B	ONE TWO THREE	1 1 1	- - -		

CLASS I

COMPONENT/SYSTEM	NSP ISO	NDE METHOD	W BASELINE IDENT.	REPORT NO.	BASELINE INDICATIONS	ISI INDICATIONS	EXAMINATION LIMITATIONS
-PRESSURIZER-							
PZR SKIRT	73	VT	BOLTS 1-8	85-126	NONE	NONE	NONE
-STEAM GENERATORS-							
S/G #11							
BASE ANCHOR	59A	VT	BOLTS COL. 2	85-128	NONE	NONE	NONE
HELICOIL SCREWS	67/67A	UT VT	BOLTS COL 4	85-142 85-143	NONE NONE	NONE NONE	IN PLACE NONE
RING WALL BOLTS	70	VT	PAD 1 PAD 2	85-012 85-013	NONE NONE	NONE FLAME CUT HOLES ENGINEER EVALUA- TION ACCEPTABLE	NONE NONE
			PAD 3 PAD 4	85-014 85-015	NONE NONE	NONE FLAME CUT HOLES ENGINEER EVALUA- TION ACCEPTABLE	NONE NONE
			SNUBBER PAD	85-016	NONE	NONE	NONE
S/G #12							
TOP COL CONNECT BOLTS	60/67	VT	COL 1	85-127	LOOSE BOLTS	NONE	NONE
SNUBBER WALL	70	VT	WALL BOLTS	85-017	NONE	NONE	NONE

CLASS I

COMPONENT/SYSTEM	NSP ISO	NDE METHOD	W BASELINE IDENT.	REPORT NO.	BASELINE INDICATIONS	ISI INDICATIONS	EXAMINATION LIMITATIONS
WALL BOLTS LOWER LATERAL	65	VT	PAD 1	85-131	NONE	BORIC ACID DEPOSIT AND THREAD ENGAGE- MENT ENGINEER EVALUATION ACCEPTABLE	NONE
			PAD 2	85-132	NONE	NONE	NONE
			PAD 3	85-136	NONE	NONE	NONE
			PAD 4 & 5	85-137	NONE	BORIC ACID DEPOSIT ENGINEER EVALUATION ACCEPTABLE	NONE
			FIXTURE 1	85-133	NONE	NONE	NONE
			FIXTURE 2	85-134	NONE	THREADED ENGAGE- MENT ENGINEER EVALUATION ACCEPTABLE	NONE
-REACTOR COOLANT PUMPS- RCP #11	64/64A	UT VT	COL 1	85-087	NONE	NONE	IN PLACE
				85-097	LOOSE NUT	NONE	NONE
LAT'L SUPPORT & WALL BOLTS	63	VT	COL 2	85-084	NONE	NONE	NONE

CLASS I

COMPONENT/SYSTEM	NSP ISO	NDE METHOD	W BASELINE IDENT.	REPORT NO.	BASELINE INDICATIONS	ISI INDICATIONS	EXAMINATION LIMITATIONS
RCP #12							
WELDED SUPPORT	62	VT	COL 1	85-056	NONE	LIGHT RUST	NONE
BASE ANCHOR BOLTS	60	VT	COL 2	85-129	NONE	NONE	NONE
-PIPING-							
CHARGING LINE CVCS LOOP B	1B	VT	D	85-045	NONE	NONE	NONE
	1E	VT	Q1	85-074	NONE	INCOMPLETE WELD ENG EVAL - ACCEPT	NONE
	1B	VT	G	85-046	NONE	NONE	NONE
RHR TAKE OFF LOOP A	3A	VT	B	85-139	NONE	NONE	NONE
	3B	VT	G2	85-081	NONE	NONE	NONE
	3C	VT	P	85-028	NONE	NONE	NONE
SPRAY TO PRESSURIZER	5A	VT	G	85-095	NONE	DWG COMPLIANCE DWG TO BE UPDATED	NONE
BRANCH A	5A	VT	H	85-093	NONE	NONE	NONE
	5B	VT	KI	85-099	NONE	NONE	NONE
SPRAY TO PRESSURIZER BRANCH B	5B	VT	K	85-094	INDICATOR MISSING	DWG COMPLIANCE & LOOSE ROD DWG TO BE UPDATED, ROD TIGHTENED	NONE
				85-094R	N/A		NONE

CLASS I

COMPONENT/SYSTEM	NSP ISO	NDE METHOD	W BASELINE IDENT.	REPORT NO.	BASELINE INDICATIONS	ISI INDICATIONS	EXAMINATION LIMITATIONS
RTD TAKE OFF COLD LEG A	7	VT	B	85-101	LOOSE BOLT	NONE	NONE
DRAIN ON CROSSOVER LOOP A	10	VT	B1	85-072	NONE	LOAD SETTING WRONG DWG TO BE UPDATED	NONE
SEAL INJECTION LOOP A	11C	VT	F	85-069	NONE	DWG COMPLIANCE DWG TO BE UPDATED	NONE
	11C	VT	O	85-070	NONE	NONE	NONE
ACCUMULATOR DISCHARGE LOOP B	17	VT	B1	85-096	NONE	DWG COMPLIANCE DWG TO BE UPDATED	NONE
RHR TAKE OFF LOOP B	19B	VT	E	85-030	NONE	NONE	NONE
	19A	VT	J	85-029	NONE	NONE	NONE
	19A	VT	P	85-063	NONE	NONE	NONE
RTD TAKE OFF HOT LEG B	23	VT	A	85-090	NONE	NONE	NONE
DRAIN ON CROSSOVER LOOP B	25	VT	A	85-110	NONE	NO HANGER DWG AVAILABLE DWG TO BE MADE	NONE

CLASS I

TABLE II
 PAGE 5 OF 5
 COMPONENTS SUPPORTS

COMPONENT/SYSTEM	NSP ISO	NDE METHOD	W BASELINE IDENT.	REPORT NO.	BASELINE INDICATIONS	ISI INDICATIONS	EXAMINATION LIMITATIONS
LETDOWN CVCS LOOP B	26	VT	E	85-092	NONE	DWG COMPLIANCE DWG TO BE UPDATED	NONE
	26	VT	F	85-091	NONE	DWG COMPLIANCE DWG TO BE UPDATED	NONE
SEAL INJECTION LOOP B	27A	VT	A	85-071	NONE	NONE	NONE
	27B	VT	C1	85-073 85-073R	UNDERCUT N/A	UNDERCUT, SLAG SLAG REMOVED UNDERCUT - ACCEPTABLE	NONE NONE
PRESSURIZER SURGE LOOP B	28	VT	E	85-088 85-088R	NONE N/A	LOOSE BOLT NONE - BOLT TIGHTENED	NONE NONE
REACTOR VESSEL SAFETY INJECTION LOOP A & B	30	VT	C1	85-034	NONE	NONE	NONE

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT I

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE SCS1.2

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MAJOR ITEM: COMPONENT 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.
*	F-A	PLATE AND SHELL TYPE SUPPORTS					* ITEM NO.'S F-1, F-2, F-3 AND F-4 FOR EACH CATEGORY EXAMINED AS ONE COMPLETE ASSEMBLY
*	F-B	LINEAR TYPE SUPPORTS					
*	F-C	COMPONENT STANDARD SUPPORTS					
		<u>PIPING</u>					
		MAIN STEAM A					
		32-MS-1	ONE	3	1	D	85-047
		30-MS-1	TWO	3	-		
		31-MS-1	THREE	4	-		
		MAIN STEAM A RELIEF HEADER	ONE	-	-		
		6-MS-1	TWO	-	-		
			THREE	1	-		
		FEEDWATER A	ONE	3	2	U, R	85-089, 048
		16-FW-12	TWO	3	-		
		16-FW-13	THREE	4	-		
		RESIDUAL HEAT REMOVAL PUMP SUCTION LOOP A	ONE	8	2	H, T	85-112, 107
		10-RH-3	TWO	10	-		
		8-RH-4A	THREE	9	-		
		12-RH-5A					
		12-RH-6A					
		RESIDUAL HEAT REMOVAL PUMP SUCTION LOOP A	ONE	4	2	C, K	85-148, 124
		8-RH-7A	TWO	5	-		
			THREE	5	-		
		MAIN STEAM B					
		32-MS-2	ONE	4	1	G (ENCAPSULATED)	85-085
		30-MS-2	TWO	4	-		
		31-MS-2	THREE	4	-		

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 1

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE SCS1.2

PAGE 2 OF 4

MAJOR ITEM: COMPONENT 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.
		MAIN STEAM B RELIEF HEADER 31-MS-2 6-MS-2	ONE TWO THREE	1 - 1	1 - -	M	85-119
		FEEDWATER B 16-FW-15 16-FW-16	ONE TWO THREE	3 3 3	1 - -	N	85-125
		RESIDUAL HEAT REMOVAL PUMP SUCTION LOOP B 8-RH-4B 12-RH-5B 12-RH-6B	ONE TWO THREE	3 3 3	2 - -	C, C	85-114, 115
		RESIDUAL HEAT REMOVAL PUMP DISCHARGE LOOP B 6-RH-7B 8-RH-9B 6-RH-10B 10-RH-11	ONE TWO THREE	8 8 8	3 - -	C, E, U	85-113, 108, 122
		REFUELING WATER STORAGE TANK DISCHARGE 14-SI-1 12-SI-4 10-SI-8	ONE TWO THREE	1 2 2	- - -		
		SAFETY INJECTION PUMP SUCTION 8-SI-18 12-SI-11	ONE TWO THREE	6 6 6	- - -		
		SAFETY INJECTION PUMP SUCTION 6-SI-13A 6-SI-13B	ONE TWO THREE	- 1 1	- - -		

INSERVICE INSPECTION-EXAMINATION SUMMARY

MAJOR ITEM: COMPONENT 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.
		ACCUMULATOR DISCHARGE	ONE	1	1	C	85-044
		12-SI-29A	TWO	1	-		
		12-SI-28A	THREE	2	-		
		12-SI-28B					
		CONTAINMENT SUMP B DISCHARGE	ONE	1	-	E	85-123
		14-SI-33A	TWO	-	-		
			THREE	-	-		
		REACTOR VESSEL SAFETY INJECTION	ONE	3	1		
		6-SI-25A	TWO	4	-		
			THREE	4	-		
		ALTERNATE CONTAINMENT SPRAY, PUMP SUCTION	ONE	1	-		
		6-RH-10A	TWO	1	-		
		6-RH-10B	THREE	2	-		
		<u>PUMPS</u>					
		RESIDUAL HEAT REMOVAL	ONE	1	-		
		PUMP NO. 11	TWO	1	-		
		PUMP NO. 12	THREE	2	-		
		SAFETY INJECTION	ONE	4	-		
		PUMP NO. 11	TWO	4	-		
		PUMP NO. 12	THREE	4	-		
		<u>VESSELS</u>					
		BORIC ACID TANKS	ONE	2	-		
		NO. 11	TWO	3	-		
		NO. 121	THREE	3	-		
		ACCUMULATOR	ONE	-	-		
		NO. 11	TWO	1	-		
		NO. 12	THREE	1	-		

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT I

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE SCS1.2PAGE 4 OF 4MAJOR ITEM: COMPONENT 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.
		<u>HEAT EXCHANGERS</u>					
		RHR HEAT EXCHANGER	ONE	1	-		
		NO. 11	TWO	1	-		
		NO. 12	THREE	2	-		

CLASS II

COMPONENT/SYSTEM	NSP ISO	NDE METHOD	W BASELINE IDENT.	REPORT NO.	BASELINE INDICATIONS	ISI INDICATIONS	EXAMINATION LIMITATIONS
-PIPING-							
MAIN STEAM LOOP A	51A	VT	D	85-047	NONE	NONE	NONE
FEEDWATER LOOP A	52A	VT	U	85-089	NONE	NONE	BOTTOM SIDE INACCESSIBLE
	52A	VT	R	85-048	NONE	NONE	NONE
RHR SUCTION LOOP A	54	VT	H	85-112	NONE	NONE	NONE
	54	VT	T	85-107	N/A	NONE	NONE
RHR DISCHARGE PUMP A	56	VT	C	85-148	NONE	LOAD SETTING WRONG DWG TO BE UPDATED	NONE
	56	VT	K	85-124	LOOSE NUT	NONE	NONE
MAIN STEAM LOOP B	68A	VT	G	N/A	N/A	N/A	ENCAPSULATED
MAIN STEAM RELIEF HEADER LOOP B	68B	VT	M	85-119	N/A	LOAD SETTINGS WRONG DWG TO BE UPDATED	NONE
FEEDWATER LOOP B	69A	VT	N	85-125	NONE	NONE	PARTIALLY INACCES- SIBLE DUE TO ENCAP- SULATION
RHR SUCTION LOOP B	77	VT	C C	85-114 85-115	NONE NONE	NONE NO LOAD MARKERS ENGINEER EVALUA- TION ACCEPTABLE	NONE NONE

CLASS II

COMPONENT/SYSTEM	NSP ISO	NDE METHOD	W BASELINE IDENT.	REPORT NO.	BASELINE INDICATIONS	ISI INDICATIONS	EXAMINATION LIMITATIONS
RHR DISCHARGE LOOP B	79	VT	C	85-113	NONE	NONE	NONE
	79	VT	E	85-108	NONE	INCOMPLETE WELD ENGINEER EVALUA- TION ACCEPTABLE	NONE
ACCUMULATOR DISCHARGE	79	VT	U	85-122	NONE	NONE	NONE
	85	VT	C	85-044	NONE	LOAD SETTINGS WRONG DWG TO BE UPDATED	NONE
REACTOR VESSEL SAFETY INJECTION LOOP A	90	VT	E	85-123	NONE	NONE	NONE

APPENDIX E

TABLE I	-	PERSONNEL LISTING
TABLE II	-	ULTRASONIC CALIBRATION BLOCKS
TABLE III	-	PROCEDURE LISTING
TABLE IV	-	EQUIPMENT AND MATERIALS

NORTHERN STATES POWER COMPANY
PRAIRIE ISLAND UNIT I
PERSONNEL LISTING

APPENDIX E
TABLE I
PAGE 1 OF 5

EXAMINER	TITLE	ORGANIZATION	UT	ICSEC QUAL	ASNT LEVELS							
					PT	MT	ET	RT	VT-1	VT-2	VT-3	VT-4
CAPPELL, R M	TECHNICIAN	LMT ⁽¹⁾	I	-	II	II	-	-	-	-	-	-
CARRAHER, T G	TECHNICIAN	LMT	I	-	II	II	-	-	-	-	-	-
HALL, D A	TECHNICIAN	LMT	II	YES	-	-	-	-	II	II	II	II
KELLERHALL, R A	SUPERVISOR	LMT	III	YES	III	III	-	-	III	III	III	III
KIMBALL, T	TECHNICIAN	LMT	II	YES	II	II	-	-	-	II	II	II
MacGILL, D B	DATA MGMT	LMT	III	YES	III	III	II	-	II	II	II	-
MacGILL, N A	DATA MGMT	LMT	-	-	-	-	-	-	-	-	-	-
RAYMER, W R	TECHNICIAN	LMT	-	-	-	-	-	-	II	II	II	-
VOSS, A W	TECHNICIAN	LMT	I	-	-	-	-	-	-	-	-	-
-REACTOR-VESSEL-												
CONRAD, G R	TECHNICIAN	W ⁽²⁾	-	-	-	-	-	-	II	II	II	II
ENFIELD, B A	COORDINATOR	W	III	-	-	-	-	-	-	-	-	-
FARRELL, G	SUPERVISOR	W	-	-	-	-	-	-	-	-	-	-
GRAW, J H	TECHNICIAN	W	II	-	-	-	-	-	-	-	-	-
HAINES, R A	TECHNICIAN	W	III	-	-	-	-	-	-	-	-	-
HUGHES, R W	TECHNICIAN	W	-	-	-	-	-	-	II	II	II	II
KEEFER, F	TECHNICIAN	W	-	-	-	-	-	-	-	-	-	-
KUREK, D	SUPERVISOR	W	III	-	III	III	-	-	II	II	II	II

NORTHERN STATES POWER COMPANY
PRAIRIE ISLAND UNIT I
PERSONNEL LISTING

APPENDIX E
TABLE I
PAGE 2 OF 5

EXAMINER	TITLE	ORGANIZATION	UT	IGSCC QUAL	ASNT LEVELS							
					PT	MT	ET	RT	VT-1	VT-2	VT-3	VT-4
MARKLE, L E	TECHNICIAN	W	II	-	-	-	-	-	-	-	-	-
NATH, D	TECHNICIAN	W	-	-	-	-	-	-	-	-	-	-
PUSHNIK, G	TECHNICIAN	W	II	-	-	-	-	-	-	-	-	-
SALOPEK, D	TECHNICIAN	W	-	-	-	-	-	-	-	-	-	-
SCROEDER, T	SUPERVISOR	W	-	-	-	-	-	-	-	-	-	-
WALSH, T J	TECHNICIAN	W	II	-	-	-	-	-	-	-	-	-
-EDDY CURRENT-												
ABELSON, R H	TECHNICIAN	W	-	-	-	-	TR	-	-	-	-	-
BEHARY, G T	TECHNICIAN	W	-	-	-	-	I	-	-	-	-	-
BRANDER, J	ROSA OPER	W	-	-	-	-	-	-	-	-	-	-
BURGESS, W A	TECHNICIAN	W	-	-	-	-	II	-	-	-	-	-
DAWSON, F D	TECHNICIAN	W	-	-	-	-	II	-	-	-	-	-
DOBRINSKY, E M	DATA MGMT	W	-	-	-	-	I	-	-	-	-	-
GAROFALO, F D	EVALUATOR	W	-	-	-	-	IIA	-	-	-	-	-
GAULT, W H	TECHNICIAN	W	-	-	-	-	TR	-	-	-	-	-
GLENN, W D	TECHNICIAN	W	-	-	-	-	TR	-	-	-	-	-
HUGHES, D E	SUPERVISOR	W	-	-	-	-	I	-	-	-	-	-
IZZ0, J	DATA MGMT	W	-	-	-	-	-	-	-	-	-	-

NORTHERN STATES POWER COMPANY
PRAIRIE ISLAND UNIT I
PERSONNEL LISTING

APPENDIX E
TABLE I
PAGE 3 OF 5

EXAMINER	TITLE	ORGANIZATION	UT	IGSCC QUAL	ASNT LEVELS							
					PT	MT	ET	RT	VT-1	VT-2	VT-3	VT-4
JENKINS, G P	TECHNICIAN	W	-	-	-	-	II	-	-	-	-	-
JOHNSON, M	SUPERVISOR	W	-	-	-	-	-	-	-	-	-	-
OBAZENU, D J	SUPERVISOR	W	-	-	-	-	II	-	-	-	-	-
PONKO, F X	TECHNICIAN	W	-	-	-	-	I	-	-	-	-	-
ROBERTS, J J	TECHNICIAN	W	-	-	-	-	I	-	-	-	-	-
RUSSELL, W	DATA MGMT	W	-	-	-	-	-	-	-	-	-	-
SHAFFER, R	DATA MGMT	W	-	-	-	-	-	-	-	-	-	-
SNEE, J T	COORDINATOR	W	-	-	-	-	-	-	-	-	-	-
VOLLMER, R A	TECHNICIAN	W	-	-	-	-	II	-	-	-	-	-
WAITE, P L	TECHNICIAN	W	-	-	-	-	I	-	-	-	-	-
ZEVCHAK, J M	TECHNICIAN	W	-	-	-	-	II	-	-	-	-	-
ALSPAUGH, K S	EVALUATOR	ZETEC (3)	-	-	-	-	IIA	-	-	-	-	-
GRAY, W A	EVALUATOR	ZETEC	-	-	-	-	IIA	-	-	-	-	-
HOVER, L D	EVALUATOR	ZETEC	-	-	-	-	IIA	-	-	-	-	-
MCKEE, E O	EVALUATOR	ZETEC	-	-	-	-	IIA	-	-	-	-	-
MIRANDA, R D	EVALUATOR	ZETEC	-	-	-	-	III	-	-	-	-	-
NEWELL, K J	EVALUATOR	ZETEC	-	-	-	-	IIA	-	-	-	-	-

NORTHERN STATES POWER COMPANY
PRAIRIE ISLAND UNIT I
PERSONNEL LISTING

APPENDIX E
TABLE I
PAGE 4 OF 5

EXAMINER	TITLE	ORGANIZATION	UT	IGSCC QUAL	ASNT LEVELS							
					PT	MT	ET	RT	VT-1	VT-2	VT-3	VT-4
NISSLEY, R A	EVALUATOR	ZETEC	-	-	-	-	IIA	-	-	-	-	-
WOLLER, T A	EVALUATOR	ZETEC	-	-	-	-	IIA	-	-	-	-	-
BANDY, C L	EVALUATOR	CONAM (4)	-	-	-	-	IIA	-	-	-	-	-
BEIERS, T S	EVALUATOR	CONAM	-	-	-	-	IIA	-	-	-	-	-
CAMBURN, J E	EVALUATOR	CONAM	-	-	-	-	IIA	-	-	-	-	-
CURTIS, G A	DATA MGMT	CONAM	-	-	-	-	I	-	-	-	-	-
DOBSON, M E	EVALUATOR	CONAM	-	-	-	-	IIA	-	-	-	-	-
FUNANICH, J J	EVALUATOR	CONAM	-	-	-	-	III	-	-	-	-	-
GORTEMILLER, H A	EVALUATOR	CONAM	-	-	-	-	IIA	-	-	-	-	-
KELSO, R E	EVALUATOR	CONAM	-	-	-	-	IIA	-	-	-	-	-
MARLOW, K	DATA MGMT	CONAM	-	-	-	-	-	-	-	-	-	-
MATHESON, M	EVALUATOR	CONAM	-	-	-	-	IIA	-	-	-	-	-
ANDERSON, M T	M&SP ENG	NSP	III	YES	III	III	-	III	-	-	-	-
DAHLMAN, L C	M&SP SPEC	NSP	II	YES	III	III	-	III	-	-	-	-

NORTHERN STATES POWER COMPANY
PRAIRIE ISLAND UNIT I
PERSONNEL LISTING

APPENDIX E
TABLE I
PAGE 5 OF 5

EXAMINER	TITLE	ORGANIZATION		IGSCC QUAL	ASNT LEVELS							
			UT		PT	MT	ET	RT	VT-1	VT-2	VT-3	VT-4
BRUSSEAU, F	ANII	HARTFORD STEAM BOILER INSPECTION AND INSURANCE CO										
HUGHES, R	ANII	HARTFORD STEAM BOILER INSPECTION AND INSURANCE CO										

FOOTNOTES:

- (1) ORGANIZATION: (LMT) LAMBERT, MacGILL, THOMAS, INC.
515 ALDO AVENUE
SANTA CLARA, CA 95054
- (2) ORGANIZATION: (W) WESTINGHOUSE ELECTRIC CORPORATION
NUCLEAR SERVICES DIVISION
P. O. BOX 2778
PITTSBURGH, PA 15230
- (3) ORGANIZATION: (ZETEC) ZETEC, INC.
P. O. BOX 140
ISSAQUAH, WA 98027
- (4) ORGANIZATION: (CONAM) CONAM INSPECTION
660 SOUTH 31st STREET
RICHMOND, CA 94804

PRAIRIE ISLAND UNIT 1
ULTRASONIC CALIBRATION BLOCKS

NSP No.	SIZE & DIA.	PIPE SCHEDULE & THICKNESS	MATERIAL	SERIAL OR HEAT NUMBER	CALIBRATION REPORTS	DATE
4	3"	Sch. 160 .438"	A376 TP-316	M5900	DAH-017	1-29-85
6	6"	Sch. 160 .718"	A376 TP-316	M3715	DAH-007 DAH-008	1-21-85 1-22-85
8	8"	Sch. 140 .812"	A376 TP-316	J2338	DAH-009 DAH-016 TK-003 TK-003A	1-23-85 1-28-85 1-22-85 1-23-85
9	8"	Sch. 120 .719"	A106 Gr. B	83D563	DAH-010	1-24-85
10	10"	Sch. 140 1.00"	A376 TP-316	J2009	TH-007	2-07-85
11	12"	Sch. 160 1.312"	A376 TP-316	J2103	DAH-013 TK-002	1-25-85 1-23-85
13	16"	Sch. 100 1.031"	A106 Gr. B	69271	DAH-011	1-25-85
14A	29" ID	- 2.235"	A376 TP-316	D8770	TK-004	1-28-85
20	24"	Sch. 80 1.219"	A106 Gr. B	N14868	DAH-012	1-25-85
23	30"	- 1.045"	A515 Gr. 70	88526	DAH-003	1-17-85
36	16	Sch. 100 1.031" & .585"	A106 Gr. C	45124A	DAH-001 DAH-002 TK-001	1-16-85 1-15-85 1-16-85
39	4"	- .598"	SA 182 F304	M7853	DAH-018 DAH-019 RAK-001	1-30-85 2-10-85 1-19-85

NORTHERN STATES POWER COMPANY
PRAIRIE ISLAND - UNIT I
PROCEDURE LISTING

APPENDIX E
TABLE III
PAGE 1 of 2

PROCEDURE NUMBER AND REVISION	FIELD CHANGE	PROCEDURE TITLE	PLANT APPROVAL DATE	FIELD CHANGE REMARKS	CHANGE DESCRIPTION
NSP-MT-1, Rev. 4	NONE	MAGNETIC PARTICLE EXAMINATION	01-15-85	NONE	
NSP-MT-2, Rev. 2	NONE	WET MAGNETIC PARTICLE EXAMINATION	01-15-85	NONE	
NSP-PT-1, Rev. 4	NONE	LIQUID PENETRANT EXAMINATION	01-15-85	NONE	
NSP-UT-1, Rev. 3	NONE	ULTRASONIC EXAMINATION OF PIPE WELDS	01-15-85	NONE	
NSP-UT-2, Rev. 3	NONE	AUTOMATIC DATA RECORDING	01-15-85	NONE	
NSP-UT-4, Rev. 3	NONE	ULTRASONIC EXAMINATION OF STUDS, BOLTS AND NUTS	01-15-85	NONE	
NSP-UT-16, Rev. 3	NONE	ULTRASONIC EXAMINATION FOR INTERGRANULAR STRESS CORROSION CRACKING	01-15-85	NONE	
NSP-VT-1.0, Rev. 1	NONE	VISUAL EXAMINATION	01-15-85	NONE	
NSP-VT-2.0, Rev. 1	NONE	VISUAL EXAMINATION OF MAGNETIC ASSEMBLIES	01-15-85	NONE	
ISI-154, Rev. 3	NONE	PRESERVICE AND INSERVICE INSPECTION OF REACTOR VESSELS/AMENDMENT 02	01-15-85	NONE	

NORTHERN STATES POWER COMPANY
PRAIRIE ISLAND - UNIT I
PROCEDURE LISTING

APPENDIX E
TABLE III
PAGE 2 of 2

PROCEDURE NUMBER AND REVISION	FIELD CHANGE	PROCEDURE TITLE	PLANT APPROVAL DATE	FIELD CHANGE REMARKS	CHANGE DESCRIPTION
ISI-88, Rev. 3	NONE	REMOTE UNDERWATER VISUAL EXAMINATION OF REACTOR VESSEL UPPER AND LOWER INTERNAL, REACTOR VESSEL, AND REACTOR VESSEL CORE BARREL	01-15-85	NONE	
OPS-NSD-101, Rev. 3	NONE	PRESERVICE AND INSERVICE INSPECTION DOCUMENTATION	01-15-85	NONE	
NSD-ISI-10, Rev. 6	NONE	QUALIFICATION OF ULTRA- SONIC MANUAL EQUIPMENT	01-15-85	NONE	
ISI-55, Rev. 0	NONE	MANUAL ULTRASONIC EXAMINATION OF LIGAMENT AREAS	01-15-85	NONE	
MRS 2.4.2 Gen 28, Rev. 0	NONE	DIGITAL MULTIFREQUENCY EDDY CURRENT INSPECTION OF PRESERVICE HEAT EXCHANGER TUBING	01-15-85	NONE	

NORTHERN STATES POWER COMPANY
 Prairie Island Unit I
 EQUIPMENT AND MATERIALS

APPENDIX E
 TABLE IV
 PAGE 1 OF 4

MATERIAL OR EQUIPMENT	TYPE OR SERIAL NUMBER	CALIBRATION DATE OR BATCH NUMBER	REMARKS
<u>ULTRASONIC:</u>			
NORTEC 131D	s/n 111	cal: 12-11-84	
NORTEC 131D	s/n 126	cal: 12-12-84	
NORTEC 131D	s/n 129	cal: 10-18-84	
NORTEC 131D	s/n 167	cal: 11-27-84	
NORTEC 131D	s/n 273	cal: 12-05-84	
NORTEC 131D	s/n 287	cal: 01-03-85	
NORTEC 131D	s/n 410	cal: 12-04-84	
NORTEC 131D	s/n 417	cal: 12-19-84	
<u>RECORDERS:</u>			
GOULD 220	s/n 18687	cal: 08-07-84	
GOULD 220	s/n 18940	cal: 12-20-84	
GOULD 220	s/n 19016	cal: 08-30-84	
GOULD 220	s/n 19023	cal: 09-06-84	
<u>TEMP. GAUGES:</u>			
PTC SURFACE	s/n 630	cal: 07-19-84	Certified by Manufacturer
THERMOMETERS	s/n 657	cal: 11-26-84	
MODEL 310°F	s/n 660	cal: 11-26-84	
	s/n 661	cal: 11-26-84	
	s/n 664	cal: 11-26-84	
	s/n 668	cal: 11-26-84	
	s/n 669	cal: 11-26-84	
	s/n 673	cal: 11-26-84	
	s/n 676	cal: 11-26-84	
	s/n 679	cal: 11-26-84	
<u>REFERENCE STDS:</u>			
IIW-2	s/n 02	cert: 12-28-79	Orla's Machine Shop Earle M Jorgensen Co Orla's Machine Shop Earle M Jorgensen Co Earle M Jorgensen Co Earle M Jorgensen Co
ROMPAS 4140CS	s/n 3	cert: 08-04-81	
ROMPAS 4140CS	s/n 11	cert: 09-08-77	
ROMPAS 304SS	s/n 042	cert: 10-28-83	
ROMPAS 304SS	s/n 043	cert: 10-28-83	
ROMPAS 304SS	s/n 045	cert: 10-28-83	
<u>MAGNETIC PARTICLE:</u>			
MAGNAFLUX Y-6	s/n GTL-003	cal: 01-14-85	Onsite Qualification
MAGNAFLUX Y-6	s/n LMT-003	cal: 01-24-85	Onsite Qualification
MAGNAFLUX L-10	s/n GTL-002	cal: 01-19-85	Onsite Qualification
BLACK LITE METER	s/n 24779	cal: 01-08-85	Type J221
LCD030985RLA02-LT			

NORTHERN STATES POWER COMPANY

Prairie Island Unit I
EQUIPMENT AND MATERIALS

APPENDIX E
TABLE IV
PAGE 2 OF 4

MATERIAL OR EQUIPMENT	TYPE OR SERIAL NUMBER	CALIBRATION DATE OR BATCH NUMBER	REMARKS
<u>MATERIALS:</u>			
PENETRANT	PENETRANT	batch #83M051	type: SKL-HF/S
SPOTCHECK	REMOVER/CLEANER	batch #82G049	type: SKC-NF/ZC-7B
MAGNAFLUX	DEVELOPER	batch #84C057	type: SKD-NF/ZP-9B
ULTRASONIC COUPLANT	LMT-GEL	batch #61384	
<u>TRANSDUCERS</u>	<u>SIZE</u>	<u>S/N</u>	<u>FREQUENCY</u>
AEROTECH	3/8" dia	15034	1.5 MHZ
AEROTECH	3/8" dia	30122	2.25 MHZ
AEROTECH	3/8" dia	54017	3.5 MHZ
AEROTECH	3/8" dia	54018	3.5 MHZ
AEROTECH	.187" x .187"	A25418	2.25 MHZ
AEROTECH	1/2" dia	A30160	2.25 MHZ
AEROTECH	.187" x .187"	G12405	2.25 MHZ
AEROTECH	1/2" dia	H21033	2.25 MHZ
AUTOMATION	1/2" x 1/2"	C84215	2.25 MHZ
AUTOMATION	1/2" x 1/2"	L84144	2.25 MHZ
HARISONIC	1/4" x 1/4"	8301	2.25 MHZ
HARISONIC	3/8" x 3/8"	8401	5.0 MHZ
HARISONIC	3/8" x 3/8"	8402	5.0 MHZ
HARISONIC	1/4" x 1/4"	8403	5.0 MHZ
HARISONIC	1" x 1/2"	A52	2.25 MHZ
HARISONIC	1/2" x 1/2"	A1301	2.25 MHZ
HARISONIC	1/4" dia	P366	5.0 MHZ
HARISONIC	1/4" x 1/4"	R941	5.0 MHZ
HARISONIC	1" x 1/2"	R3162	2.25 MHZ
HARISONIC	1/2" x 1/2"	R8133	1.0 MHZ
HARISONIC	1/2" x 1/2"	R8134	1.0 MHZ
HARISONIC	1/4" x 1/4"	R12347	5.0 MHZ
HARISONIC	1/4" dia	T3206	5.0 MHZ
HARISONIC	1" x 1/2"	T3252	1.0 MHZ
HARISONIC	1/2" x 1/2"	T9371	1.5 MHZ
HARISONIC	1/2" x 1/2"	T9372	1.5 MHZ
HARISONIC	1/4" x 1/4"	V3380	2.25 MHZ
HARISONIC	1/2" x 1/2"	V11055	2.25 MHZ
HARISONIC	1/4" x 1/4"	V12038	2.25 MHZ
HARISONIC	3/4" dia	V6271	2.25 MHZ
HARISONIC	1/4" x 1/4"	W2124	5.0 MHZ
HARISONIC	3/8" x 3/8"	W8561	2.25 MHZ
HARISONIC	3/8" x 3/8"	W8562	2.25 MHZ
HARISONIC	1/4" x 1/4"	Y2880	2.25 MHZ
HARISONIC	1/4" x 1/4"	Y10148	2.25 MHZ
HARISONIC	1/4" x 1/4"	Y10149	2.25 MHZ
HARISONIC	1/2" x 1/2"	Y10638	2.25 MHZ
NORTEC	3/4" x 3/4"	978	2.25 MHZ
LCD030985RLA02-LT			

NORTHERN STATES POWER COMPANY
 Prairie Island Unit I
 EQUIPMENT AND MATERIALS

APPENDIX E
 TABLE IV
 PAGE 3 OF 4

MATERIAL OR EQUIPMENT	TYPE OR SERIAL NUMBER	CALIBRATION DATE OR BATCH NUMBER	REMARKS
<u>WESTINGHOUSE EDDY CURRENT EQUIPMENT:</u>			
MIZ-18	s/n 010	cal: 12-14-84	Digital Multifrequency
MIZ-18	s/n 013	cal: 12-05-84	Digital Multifrequency
MIZ-18	s/n 024	cal: 01-10-85	Digital Multifrequency
MIZ-18	s/n 025	cal: 01-10-85	Digital Multifrequency
<u>CALIBRATION STDS:</u>			
ABSOLUTE	s/n Z-1395	ht #2721	Inconel 600
ABSOLUTE	s/n 02722	ht #2778	Inconel 600
ASME XI	s/n I-32-W	ht #8791	Inconel 600
ASME XI	s/n Z-1141	ht #1019	Inconel 600
AVB	s/n Z-1749	ht #2675	Inconel 600
AVB	s/n Z-1549	ht #2721	Inconel 600
<u>CONAM EDDY CURRENT EQUIPMENT:</u>			
RECORDER	s/n 2009A01242	cal: 10-03-84	HP-3968AZ
<u>WESTINGHOUSE REACTOR VESSEL EQUIPMENT:</u>			
<u>ULTRASONIC INTERFACE</u>			
MARK VI	s/n 00834	cal: 10-03-84	
RECEIVER	s/n 00835	cal: 12-26-84	
MONITOR GATE	s/n 00849	cal: 11-04-84	
DATA DISPLAY	s/n 0243	cal: 11-03-84	
SERIAL DATA LINK	s/n 02434	cal: 11-06-84	
PULSER/PRE AMP	s/n 00860	cal: 11-05-84	
EBS	s/n 05781E	cal: 11-05-84	
	s/n 00855	cal: 10-03-84	
<u>TRANSDUCERS</u>			
HARISONIC	S/N Y6058	SIZE 1-1/2" dia	FREQUENCY 2.25 MHZ
HARISONIC	Y6063	1-1/2" dia	2.25 MHZ
HARISONIC	Y6059	1-1/2" dia	2.25 MHZ
HARISONIC	Y6050	1-1/2" dia	2.25 MHZ
HARISONIC	Y6057	1-1/2" dia	2.25 MHZ
HARISONIC	Y6054	1-1/2" dia	2.25 MHZ
TECHNISONIC	T2228	1-1/2" dia	2.25 MHZ
HARISONIC	W4273	1-1/2" dia	2.25 MHZ
HARISONIC	Y6060	1-1/2" dia	2.25 MHZ
HARISONIC	Y6061	1-1/2" dia	2.25 MHZ
LCD030985RLA02-LT			

NORTHERN STATES POWER COMPANY

Prairie Island Unit I
EQUIPMENT AND MATERIALS

APPENDIX E
TABLE IV
PAGE 4 OF 4

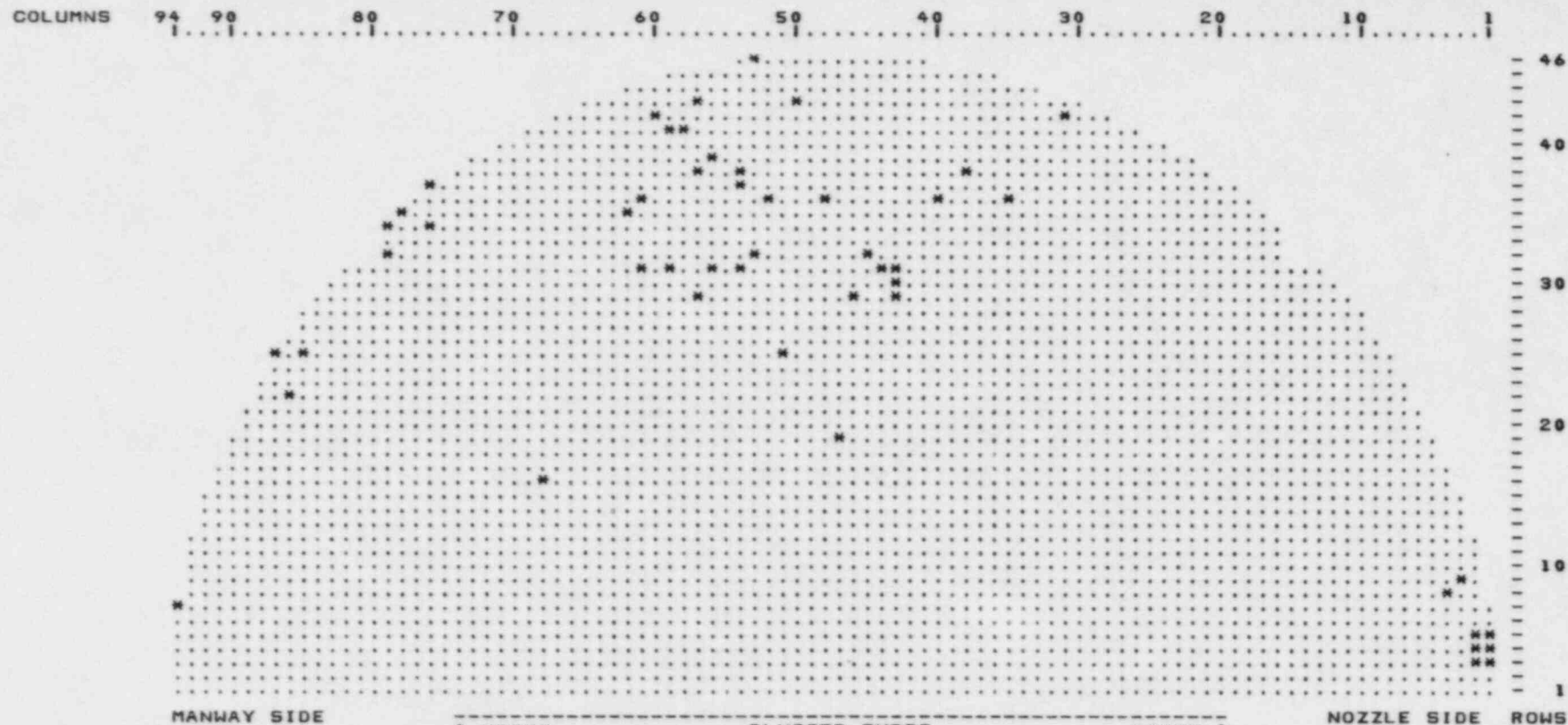
MATERIAL OR EQUIPMENT	TYPE OR SERIAL NUMBER	CALIBRATION DATE OR BATCH NUMBER	REMARKS
TRANSDUCERS (cont'd)	S/N	SIZE	FREQUENCY
HARISONIC	W4271	1-1/2" dia	2.25 MHZ
HARISONIC	Y6064	1-1/2" dia	2.25 MHZ
HARISONIC	Y7424	1-1/2" dia	2.25 MHZ
HARISONIC	W4253	1-1/2" dia	2.25 MHZ
HARISONIC	V6456	1-1/2" dia	2.25 MHZ
HARISONIC	W4378	3/4" dia	1.0 MHZ
TECHNISONIC	T2234	3/4" dia	1.0 MHZ
TECHNISONIC	T2233	3/4" dia	1.0 MHZ
HARISONIC	Y6078	3/4" dia	1.0 MHZ
HARISONIC	Y7425	1-1/2" dia	2.25 MHZ
HARISONIC	Y6066	1-1/2" dia	2.25 MHZ
TECHNISONIC	Y2227	1-1/2" dia	2.25 MHZ
HARISONIC	Y6056	1-1/2" dia	2.25 MHZ
HARISONIC	Y6065	1-1/2" dia	2.25 MHZ
HARISONIC	Y7427	1-1/2" dia	2.25 MHZ
HARISONIC	Y7420	1-1/2" dia	2.25 MHZ
HARISONIC	Y7421	1-1/2" dia	2.25 MHZ
HARISONIC	Y7422	1-1/2" dia	2.25 MHZ
HARISONIC	V6488	3/4" dia	2.25 MHZ
AEROTECH	E21204	1" x .5"	5.0 MHZ
ULTRAN	32704	1" dual	2.25 MHZ
ULTRAN	32701	1" dual	2.25 MHZ
ULTRAN	32702	1" dual	2.25 MHZ
ULTRAN	33101	1" dual	2.25 MHZ
HARISONIC	Y12171	.5" x .5"	2.25 MHZ
HARISONIC	Y12174	.5" x .5"	2.25 MHZ
HARISONIC	Y11564	.5" x .5"	2.25 MHZ
HARISONIC	Y11565	.5" x .5"	2.25 MHZ
<u>WESTINGHOUSE</u> <u>MANUAL EXAMS:</u>			
MARK 1 ULTRASONIC COUPLANT	s/n 00869E Sonatrac 40	cal: 2-2-85 batch #8440	
TRANSDUCERS:			
AEROTECH	D17921	1" dia	2.25 MHZ
AEROTECH	S783924	1/2" dia	5.0 MHZ
LCD030985RLA02-LT			

APPENDIX F

STEAM GENERATOR NUMBER 11

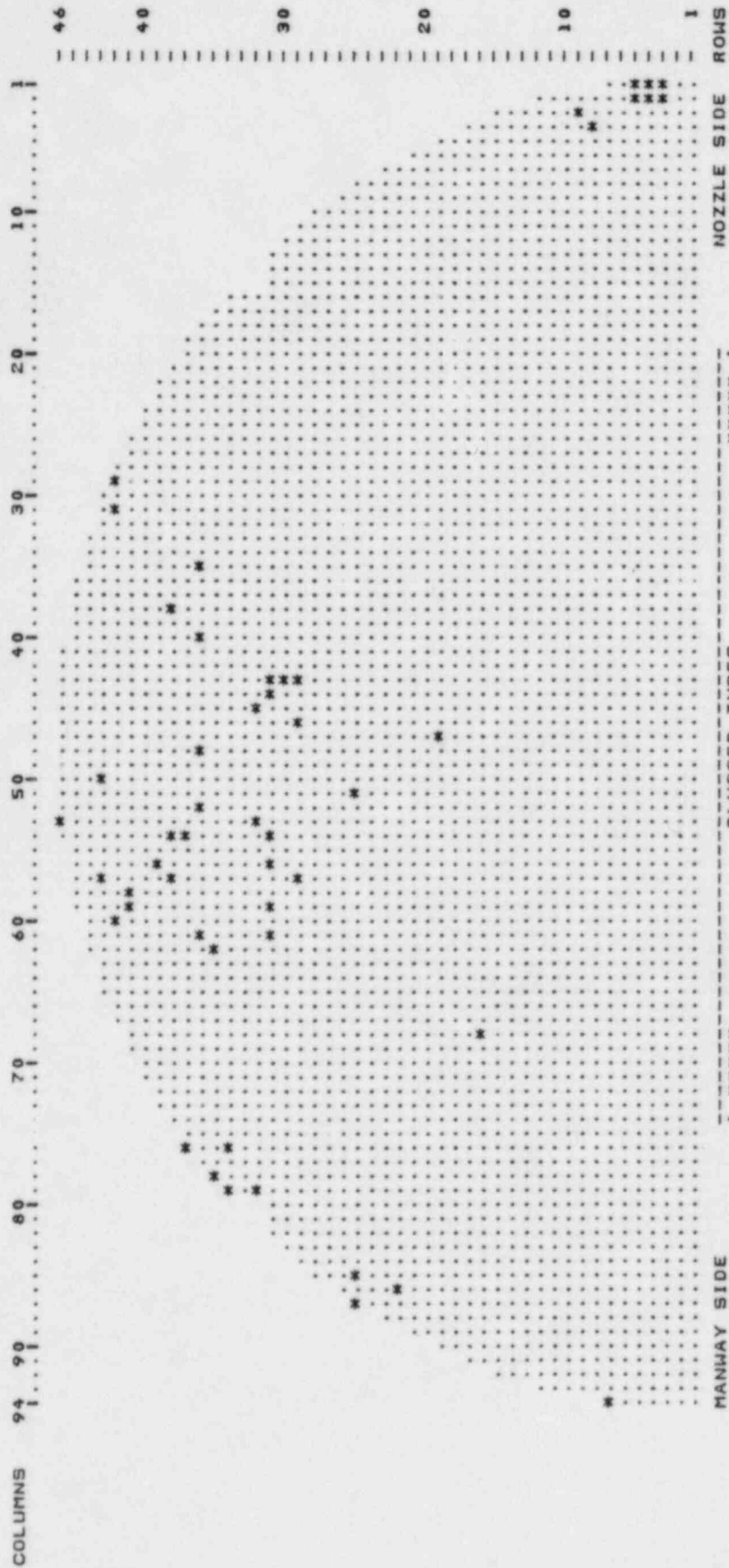
EDDY CURRENT TUBE SHEET MAPS AND RESULTS

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.	11	
INLET OR OUTLET	INLET (HOT LEG)	
INSPECTIONS MAPPED	73 THROUGH 85	
REGION MAPPED	TUBE SHEET	
TO	AROUND U-BEND	

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



 STEAM GENERATOR NO. 1
 OR OUTLET
 INSPECTION HAPPED
 REGION HAPPED
 TO

 PLUGGED TUBES
 1
 OUTLET (COLD LEG)
 73
 THROUGH 85
 TUBE SHEET
 AROUND U-BEND

APR 17, 1985

PRAIRIE ISLAND NUCLEAR GENERATING PLANT
LIST OF PLUGGED STEAM GENERATOR TUBES

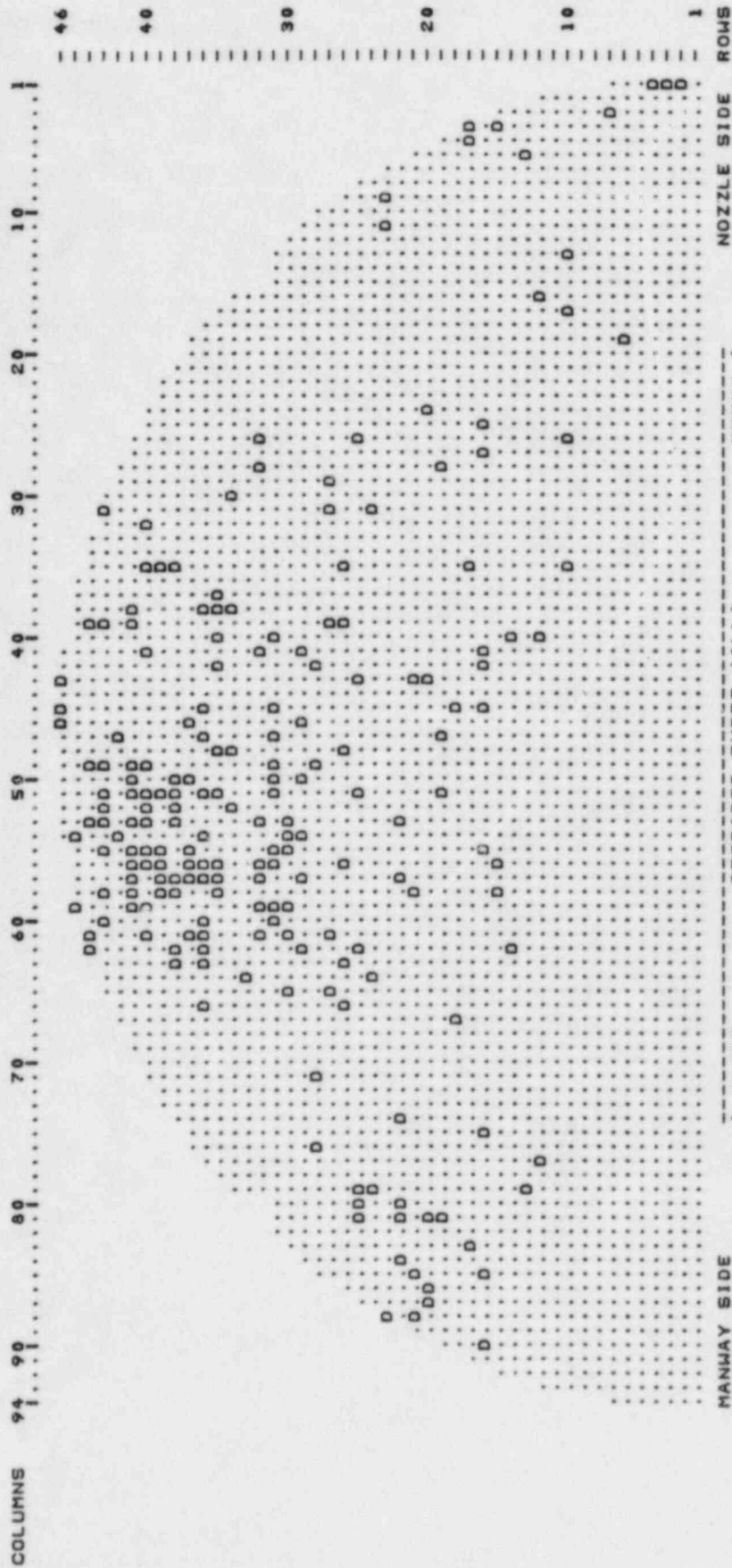
GEN NO.	SIDE	ROW	COL	YEAR	REMARKS/COMMENTS
11	INLET	3	1	79	PREVENTITIVE
		4	1	79	
		5	1	79	
		6	1	79	
		7	2	84	S/O
		8	2	84	S/O
		9	2	84	S/O
		10	2	84	S/O
		11	2	84	S/O
		12	2	84	S/O
		13	2	84	S/O
		14	2	84	S/O
		15	2	84	S/O
		16	2	84	S/O
		17	2	84	S/O
		18	2	84	S/O
		19	2	84	S/O
		20	2	84	S/O
		21	2	84	S/O
		22	2	84	S/O
		23	2	84	S/O
		24	2	84	S/O
		25	2	84	S/O
		26	2	84	S/O
		27	2	84	S/O
		28	2	84	S/O
		29	2	84	S/O
		30	2	84	S/O
		31	2	84	S/O
		32	2	84	S/O
		33	2	84	S/O
		34	2	84	S/O
		35	2	84	S/O
		36	2	84	S/O
		37	2	84	S/O
		38	2	84	S/O
		39	2	84	S/O
		40	2	84	S/O
		41	2	84	S/O
		42	2	84	S/O
	OUTLET	43	3	84	S/O
		44	3	84	S/O
		45	3	84	S/O
		46	3	84	S/O
		47	3	84	S/O
		48	3	84	S/O
		49	3	84	S/O
		50	3	84	S/O
		51	3	84	S/O
		52	3	84	S/O

APR 17. 1985

PRAIRIE ISLAND NUCLEAR GENERATING PLANT
LIST OF PLUGGED STEAM GENERATOR TUBES

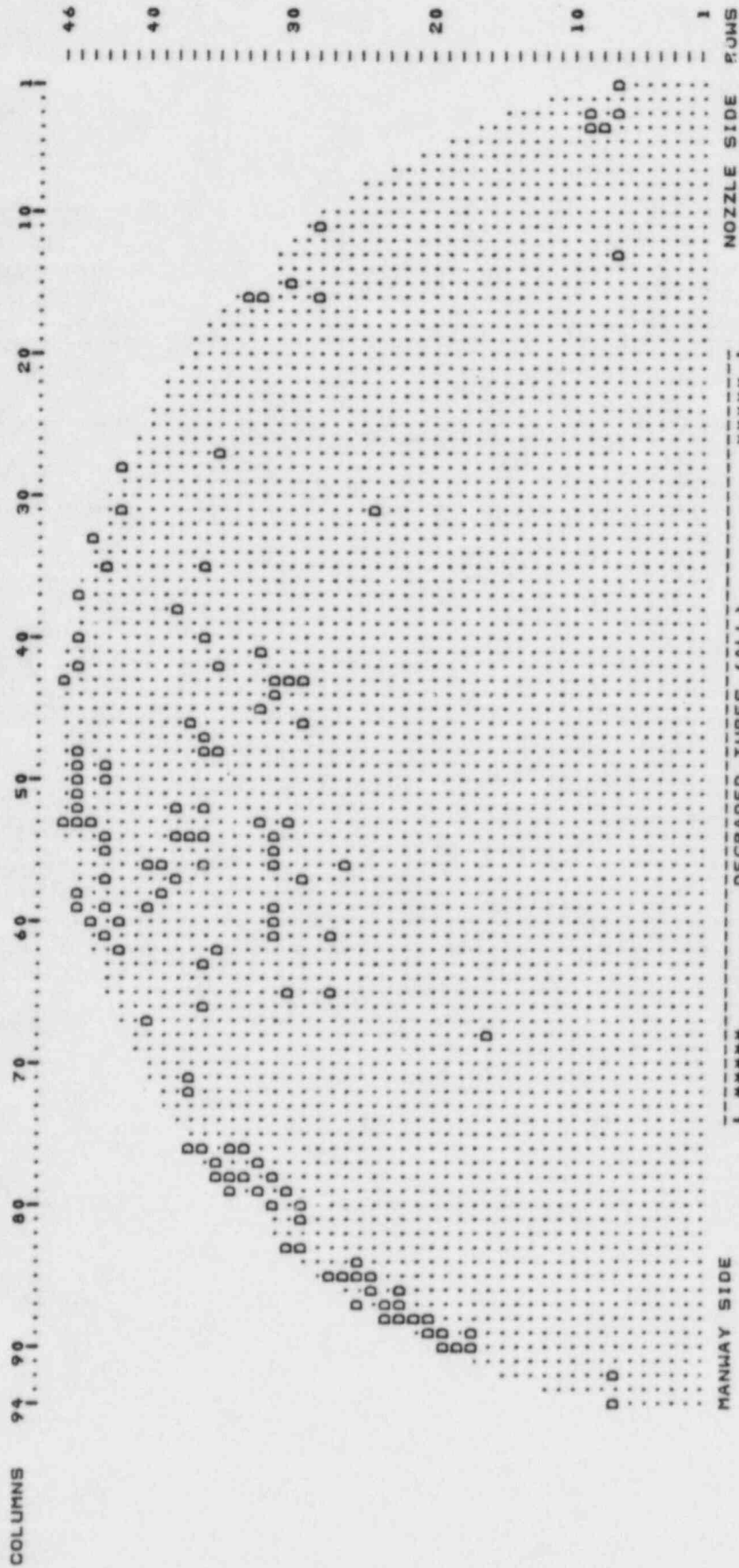
GEN NO.	SIDE	ROW	COL	YEAR	REMARKS/COMMENTS
11	OUTLET	31	61	81	
		32	62	82	AVB
					(S/I)
		34	64	84	S/I
		35	65	85	AVB
		36	66	86	AVB
					AVB
					AVB
					S/I
		37	67	87	AVB
		38	68	88	S/I
					AVB
					AVB
		39	69	89	S/I
		41	71	91	(S/I)
		42	72	92	(S/I)
		43	73	93	S/I
					AVB
		46	76	96	AVB

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) ***** GENERATOR NO. 1 INLET (HOT LEG) TUBE SHEET 85 TUBE SHEET AROUND U-BEND
--

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



APR 17, 1985

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

GEN NO.	SIDE	ROW	COL	YEAR	FROM	TO	DEFECT OR OBS	%	REMARKS/COMMENTS
11	INLET	2	1	7	5 " ABOVE		THI NNNI NG	<220	
		3	1	7	5 " ABOVE		THI NNNI NG	<220	
		4	1	7	5 " ABOVE		THI NNNI NG	<220	
		6	1	7	5 " ABOVE		THI NNNI NG	<220	
		7	1	7	5 " ABOVE		THI NNNI NG	<220	
		10	1	7	5 " ABOVE		THI NNNI NG	<220	
		17	1	7	5 " ABOVE		THI NNNI NG	<220	
		26	1	7	5 " ABOVE		THI NNNI NG	<220	
		35	1	7	5 " ABOVE		THI NNNI NG	<220	
		40	1	7	5 " ABOVE		THI NNNI NG	<220	
		45	1	7	5 " ABOVE		THI NNNI NG	<220	
		49	1	7	5 " ABOVE		THI NNNI NG	<220	
		50	1	7	5 " ABOVE		THI NNNI NG	<220	
		51	1	7	5 " ABOVE		THI NNNI NG	<220	
		52	1	7	5 " ABOVE		THI NNNI NG	<220	
		53	1	7	5 " ABOVE		THI NNNI NG	<220	
		54	1	7	5 " ABOVE		THI NNNI NG	<220	
		55	1	7	5 " ABOVE		THI NNNI NG	<220	
		56	1	7	5 " ABOVE		THI NNNI NG	<220	
		57	1	7	5 " ABOVE		THI NNNI NG	<220	
		58	1	7	5 " ABOVE		THI NNNI NG	<220	
		59	1	7	5 " ABOVE		THI NNNI NG	<220	
		60	1	7	5 " ABOVE		THI NNNI NG	<220	
		61	1	7	5 " ABOVE		THI NNNI NG	<220	
		62	1	7	5 " ABOVE		THI NNNI NG	<220	
		63	1	7	5 " ABOVE		THI NNNI NG	<220	
		64	1	7	5 " ABOVE		THI NNNI NG	<220	
		65	1	7	5 " ABOVE		THI NNNI NG	<220	
		66	1	7	5 " ABOVE		THI NNNI NG	<220	
		67	1	7	5 " ABOVE		THI NNNI NG	<220	
		68	1	7	5 " ABOVE		THI NNNI NG	<220	
		69	1	7	5 " ABOVE		THI NNNI NG	<220	
		70	1	7	5 " ABOVE		THI NNNI NG	<220	
		71	1	7	5 " ABOVE		THI NNNI NG	<220	
		72	1	7	5 " ABOVE		THI NNNI NG	<220	
		73	1	7	5 " ABOVE		THI NNNI NG	<220	
		74	1	7	5 " ABOVE		THI NNNI NG	<220	
		75	1	7	5 " ABOVE		THI NNNI NG	<220	
		76	1	7	5 " ABOVE		THI NNNI NG	<220	
		77	1	7	5 " ABOVE		THI NNNI NG	<220	
		78	1	7	5 " ABOVE		THI NNNI NG	<220	
		79	1	7	5 " ABOVE		THI NNNI NG	<220	
		80	1	7	5 " ABOVE		THI NNNI NG	<220	
		81	1	7	5 " ABOVE		THI NNNI NG	<220	
		82	1	7	5 " ABOVE		THI NNNI NG	<220	
		83	1	7	5 " ABOVE		THI NNNI NG	<220	
		84	1	7	5 " ABOVE		THI NNNI NG	<220	
		85	1	7	5 " ABOVE		THI NNNI NG	<220	
		86	1	7	5 " ABOVE		THI NNNI NG	<220	
		87	1	7	5 " ABOVE		THI NNNI NG	<220	
		88	1	7	5 " ABOVE		THI NNNI NG	<220	
		89	1	7	5 " ABOVE		THI NNNI NG	<220	
		90	1	7	5 " ABOVE		THI NNNI NG	<220	
		91	1	7	5 " ABOVE		THI NNNI NG	<220	
		92	1	7	5 " ABOVE		THI NNNI NG	<220	
		93	1	7	5 " ABOVE		THI NNNI NG	<220	
		94	1	7	5 " ABOVE		THI NNNI NG	<220	
		95	1	7	5 " ABOVE		THI NNNI NG	<220	
		96	1	7	5 " ABOVE		THI NNNI NG	<220	
		97	1	7	5 " ABOVE		THI NNNI NG	<220	
		98	1	7	5 " ABOVE		THI NNNI NG	<220	
		99	1	7	5 " ABOVE		THI NNNI NG	<220	
		100	1	7	5 " ABOVE		THI NNNI NG	<220	

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

GEN NO.	SIDE	ROW	COL	YEAR	FROM	TO	DEFECT OR OBS	%	REMARKS/COMMENTS
11	INLET	23	11		1ST SUP		TH NN NC	^ 20	
		24	11		2ND SUP		TH NN NC	^ 20	
			11		3RD SUP		TH NN NC	^ 20	
			11		4TH SUP		TH NN NC	^ 20	
			11		5TH SUP		TH NN NC	^ 20	
		25	11		1ST SUP		TH NN NC	^ 20	
			11		2ND SUP		TH NN NC	^ 20	
			11		3RD SUP		TH NN NC	^ 20	
			11		4TH SUP		TH NN NC	^ 20	
			11		5TH SUP		TH NN NC	^ 20	
			11		6TH SUP		TH NN NC	^ 20	
			11		7TH SUP		TH NN NC	^ 20	
			11		8TH SUP		TH NN NC	^ 20	
			11		9TH SUP		TH NN NC	^ 20	
			11		10TH SUP		TH NN NC	^ 20	
		26	11		1ST SUP		TH NN NC	^ 20	
			11		2ND SUP		TH NN NC	^ 20	
			11		3RD SUP		TH NN NC	^ 20	
			11		4TH SUP		TH NN NC	^ 20	
			11		5TH SUP		TH NN NC	^ 20	
			11		6TH SUP		TH NN NC	^ 20	
			11		7TH SUP		TH NN NC	^ 20	
			11		8TH SUP		TH NN NC	^ 20	
			11		9TH SUP		TH NN NC	^ 20	
			11		10TH SUP		TH NN NC	^ 20	
			11		11TH SUP		TH NN NC	^ 20	
			11		12TH SUP		TH NN NC	^ 20	
			11		13TH SUP		TH NN NC	^ 20	
			11		14TH SUP		TH NN NC	^ 20	
			11		15TH SUP		TH NN NC	^ 20	
			11		16TH SUP		TH NN NC	^ 20	
			11		17TH SUP		TH NN NC	^ 20	
			11		18TH SUP		TH NN NC	^ 20	
			11		19TH SUP		TH NN NC	^ 20	
			11		20TH SUP		TH NN NC	^ 20	
			11		21TH SUP		TH NN NC	^ 20	
			11		22TH SUP		TH NN NC	^ 20	
			11		23TH SUP		TH NN NC	^ 20	
			11		24TH SUP		TH NN NC	^ 20	
			11		25TH SUP		TH NN NC	^ 20	
			11		26TH SUP		TH NN NC	^ 20	
			11		27TH SUP		TH NN NC	^ 20	
			11		28TH SUP		TH NN NC	^ 20	
			11		29TH SUP		TH NN NC	^ 20	
			11		30TH SUP		TH NN NC	^ 20	
			11		31TH SUP		TH NN NC	^ 20	
			11		32TH SUP		TH NN NC	^ 20	
			11		33TH SUP		TH NN NC	^ 20	
			11		34TH SUP		TH NN NC	^ 20	
			11		35TH SUP		TH NN NC	^ 20	
			11		36TH SUP		TH NN NC	^ 20	
			11		37TH SUP		TH NN NC	^ 20	
			11		38TH SUP		TH NN NC	^ 20	
			11		39TH SUP		TH NN NC	^ 20	
			11		40TH SUP		TH NN NC	^ 20	
			11		41TH SUP		TH NN NC	^ 20	
			11		42TH SUP		TH NN NC	^ 20	
			11		43TH SUP		TH NN NC	^ 20	
			11		44TH SUP		TH NN NC	^ 20	
			11		45TH SUP		TH NN NC	^ 20	
			11		46TH SUP		TH NN NC	^ 20	
			11		47TH SUP		TH NN NC	^ 20	
			11		48TH SUP		TH NN NC	^ 20	
			11		49TH SUP		TH NN NC	^ 20	
			11		50TH SUP		TH NN NC	^ 20	

BELOW

19" BELOW

12 " ABOVE

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

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

GEN NO.	SIDE	ROW	COL	YEAR	FROM	TO	DEFECT OR OBS	%	REMARKS/COMMENTS
11	INLET	32	41		TUBE SH		THINNING	100	
			53		TUBE SH		THINNING	100	
			56		TUBE SH		THINNING	100	
			57		TUBE SH		THINNING	100	
			58		TUBE SH		THINNING	100	
			59		TUBE SH		THINNING	100	
			60		TUBE SH		THINNING	100	
			61		TUBE SH		THINNING	100	
			62		TUBE SH		THINNING	100	
			63		TUBE SH		THINNING	100	
			64		TUBE SH		THINNING	100	
			65		TUBE SH		THINNING	100	
			66		TUBE SH		THINNING	100	
			67		TUBE SH		THINNING	100	
			68		TUBE SH		THINNING	100	
			69		TUBE SH		THINNING	100	
			70		TUBE SH		THINNING	100	
			71		TUBE SH		THINNING	100	
			72		TUBE SH		THINNING	100	
			73		TUBE SH		THINNING	100	
			74		TUBE SH		THINNING	100	
			75		TUBE SH		THINNING	100	
			76		TUBE SH		THINNING	100	
			77		TUBE SH		THINNING	100	
			78		TUBE SH		THINNING	100	
			79		TUBE SH		THINNING	100	
			80		TUBE SH		THINNING	100	
			81		TUBE SH		THINNING	100	
			82		TUBE SH		THINNING	100	
			83		TUBE SH		THINNING	100	
			84		TUBE SH		THINNING	100	
			85		TUBE SH		THINNING	100	
			86		TUBE SH		THINNING	100	
			87		TUBE SH		THINNING	100	
			88		TUBE SH		THINNING	100	
			89		TUBE SH		THINNING	100	
			90		TUBE SH		THINNING	100	
			91		TUBE SH		THINNING	100	
			92		TUBE SH		THINNING	100	
			93		TUBE SH		THINNING	100	
			94		TUBE SH		THINNING	100	
			95		TUBE SH		THINNING	100	
			96		TUBE SH		THINNING	100	
			97		TUBE SH		THINNING	100	
			98		TUBE SH		THINNING	100	
			99		TUBE SH		THINNING	100	
			100		TUBE SH		THINNING	100	

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

GEN NO.	SIDE	ROW	COL	YEAR	FROM	TO	DEFECT OR OBS	%	REMARKS/COMMENTS
11	INLET	36	54	2000	2ND AVB	TH	NN HG	30	
				2000	3RD AVB	TH	NN NG	30	
				2000	3RD AVB	TH	NN NG	30	
				2000	4TH AVB	TH	NN NG	30	
				2000	4TH AVB	TH	NN NG	30	
			56	2000	2ND AVB	TH	NN NG	30	
				2000	2ND AVB	TH	NN NG	30	
				2000	3RD AVB	TH	NN NG	30	
				2000	4TH AVB	TH	NN NG	30	
				2000	4TH AVB	TH	NN NG	30	
			57	2000	3RD AVB	TH	NN NG	30	
				2000	4TH AVB	TH	NN NG	30	
				2000	4TH AVB	TH	NN NG	30	
			60	2000	1ND AVB	TH	NN NG	30	
				2000	3RD AVB	TH	NN NG	30	
			61	2000	1ST AVB	TH	NN NG	30	
				2000	1ND AVB	TH	NN NG	30	
				2000	1ND AVB	TH	NN NG	30	
				2000	3RD AVB	TH	NN NG	30	
				2000	3RD AVB	TH	NN NG	30	
				2000	3RD AVB	TH	NN NG	30	
				2000	4TH AVB	TH	NN NG	30	
			62	2000	3RD AVB	TH	NN NG	30	
			63	2000	3RD AVB	TH	NN NG	30	
				2000	3RD AVB	TH	NN NG	30	
				2000	3RD AVB	TH	NN NG	30	
			66	2000	3RD AVB	TH	NN NG	30	
				2000	3RD AVB	TH	NN NG	30	
				2000	3RD AVB	TH	NN NG	30	
				2000	3RD AVB	TH	NN NG	30	
			46	2000	3RD AVB	TH	NN NG	30	
				2000	3RD AVB	TH	NN NG	30	
				2000	3RD AVB	TH	NN NG	30	
				2000	4TH AVB	TH	NN NG	30	
			56	2000	2ND AVB	TH	NN NG	30	
			56	2000	3RD AVB	TH	NN NG	30	
				2000	2ND AVB	TH	NN NG	30	
				2000	4TH AVB	TH	NN NG	30	
			57	2000	2ND AVB	TH	NN NG	30	
			61	2000	2ND AVB	TH	NN NG	30	
				2000	3RD AVB	TH	NN NG	30	
				2000	3RD AVB	TH	NN NG	30	
				2000	3RD AVB	TH	NN NG	30	
			38	2000	3RD AVB	TH	NN NG	30	
			35	2000	1ST AVB	TH	NN NG	30	
			50	2000	1ST AVB	TH	NN NG	30	
				2000	2ND AVB	TH	NN NG	30	
				2000	3RD AVB	TH	NN NG	30	
				2000	3RD AVB	TH	NN NG	30	
				2000	3RD AVB	TH	NN NG	30	
			51	2000	4TH AVB	TH	NN NG	30	
				2000	1ST AVB	TH	NN NG	30	
				2000	2ND AVB	TH	NN NG	30	
				2000	3RD AVB	TH	NN NG	30	
				2000	3RD AVB	TH	NN NG	30	
				2000	3RD AVB	TH	NN NG	30	
			52	2000	4TH AVB	TH	NN NG	30	
				2000	3RD AVB	TH	NN NG	30	
				2000	3RD AVB	TH	NN NG	30	
				2000	3RD AVB	TH	NN NG	30	
			53	2000	4TH AVB	TH	NN NG	30	
				2000	2ND AVB	TH	NN NG	30	
				2000	3RD AVB	TH	NN NG	30	
				2000	3RD AVB	TH	NN NG	30	
				2000	3RD AVB	TH	NN NG	30	
				2000	4TH AVB	TH	NN NG	30	
			57	2000	1ST AVB	TH	NN NG	30	
				2000	1ST AVB	TH	NN NG	30	
				2000	1ND AVB	TH	NN NG	30	
				2000	1ND AVB	TH	NN NG	30	
				2000	3RD AVB	TH	NN NG	30	
				2000	3RD AVB	TH	NN NG	30	

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

GEN NO.	SIDE	ROW	COL	YEAR	FROM	TO	DEFECT OR OBS	%	REMARKS/COMMENTS
11	INLET	38	58		1ST AVB		THINNING		
					1ST AVB		THINNING		
					2ND AVB		THINNING		
					2ND AVB		THINNING		
					3RD AVB		THINNING		
					3RD AVB		THINNING		
					3RD AVB		THINNING		
					4TH AVB		THINNING		
					3RD AVB		THINNING		
					4TH AVB		THINNING		
					4TH AVB		THINNING		
					1ST AVB		THINNING		
					1ST AVB		THINNING		
					2ND AVB		THINNING		
					2ND AVB		THINNING		
					4TH AVB		THINNING		
					4TH AVB		THINNING		
					2ND AVB		THINNING		
					3RD AVB		THINNING		
					4TH AVB		THINNING		
					4TH AVB		THINNING		
					2ND AVB		THINNING		
					2ND AVB		THINNING		
					3RD AVB		THINNING		
					3RD AVB		THINNING		
					3RD AVB		THINNING		
					4TH AVB		THINNING		
					4TH AVB		THINNING		
					3RD SUP		THINNING		
					1ST AVB		THINNING		
					2ND AVB		THINNING		
					1ST AVB		THINNING		
					1ST AVB		THINNING		
					2ND AVB		THINNING		
					3RD AVB		THINNING		
					4TH AVB		THINNING		
					1ST AVB		THINNING		
					2ND AVB		THINNING		
					3RD AVB		THINNING		
					4TH AVB		THINNING		
					2ND AVB		THINNING		
					2ND AVB		THINNING		
					3RD AVB		THINNING		
					3RD AVB		THINNING		
					4TH AVB		THINNING		
					4TH AVB		THINNING		
					3RD AVB		THINNING		
					1ST AVB		THINNING		
					4TH AVB		THINNING		
					4TH AVB		THINNING		
					2ND AVB		THINNING		
					2ND AVB		THINNING		
					3RD AVB		THINNING		
					3RD AVB		THINNING		
					4TH AVB		THINNING		
					4TH AVB		THINNING		
					2ND AVB		THINNING		
					2ND AVB		THINNING		
					3RD AVB		THINNING		
					3RD AVB		THINNING		
					4TH AVB		THINNING		
					4TH AVB		THINNING		
					2ND AVB		THINNING		
					2ND AVB		THINNING		
					3RD AVB		THINNING		
					3RD AVB		THINNING		

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

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LIST OF IMPERFECT, DEGRADED, AND DEFECTIVE TUBES

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

GEN NO.	SIDE	ROW	COL	YEAR	FROM	TO	DEFECT OR OUS	%	REMARKS/COMMENTS
11	OUTLET	29	46				TH NN NG	<	
			47				TH NN NG	<	
			80				TH NN NG	<	
			81				TH NN NG	<	
			83				TH NN NG	<	
		30	45				TH NN NG	<	
			46				TH NN NG	<	
			47				TH NN NG	<	
			48				TH NN NG	<	
			49				TH NN NG	<	
			50				TH NN NG	<	
			51				TH NN NG	<	
			52				TH NN NG	<	
			53				TH NN NG	<	
			54				TH NN NG	<	
			55				TH NN NG	<	
			56				TH NN NG	<	
			57				TH NN NG	<	
			58				TH NN NG	<	
			59				TH NN NG	<	
			60				TH NN NG	<	
			61				TH NN NG	<	
			62				TH NN NG	<	
			63				TH NN NG	<	
			64				TH NN NG	<	
			65				TH NN NG	<	
			66				TH NN NG	<	
			67				TH NN NG	<	
			68				TH NN NG	<	
			69				TH NN NG	<	
			70				TH NN NG	<	
			71				TH NN NG	<	
			72				TH NN NG	<	
			73				TH NN NG	<	
			74				TH NN NG	<	
			75				TH NN NG	<	
			76				TH NN NG	<	
			77				TH NN NG	<	
			78				TH NN NG	<	
			79				TH NN NG	<	
			80				TH NN NG	<	
			81				TH NN NG	<	
			82				TH NN NG	<	
			83				TH NN NG	<	
			84				TH NN NG	<	
			85				TH NN NG	<	
			86				TH NN NG	<	
			87				TH NN NG	<	
			88				TH NN NG	<	
			89				TH NN NG	<	
			90				TH NN NG	<	
			91				TH NN NG	<	
			92				TH NN NG	<	
			93				TH NN NG	<	
			94				TH NN NG	<	
			95				TH NN NG	<	
			96				TH NN NG	<	
			97				TH NN NG	<	
			98				TH NN NG	<	
			99				TH NN NG	<	
			100				TH NN NG	<	

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

GEN NO.	SIDE	ROW	COL	YEAR	FROM	TO	DEFECT OR OBS	%	REMARKS/COMMENTS
11	OUTLET	36	40	1985	AVB	TH	NNI	IG	6.7
			47	1985	AVB	TH	NNI	NN	4.4
			48	1985	AVB	TH	NNI	NN	4.4
			49	1985	AVB	TH	NNI	NN	4.4
			50	1985	AVB	TH	NNI	NN	4.4
			51	1985	AVB	TH	NNI	NN	4.4
			52	1985	AVB	TH	NNI	NN	4.4
			53	1985	AVB	TH	NNI	NN	4.4
			54	1985	AVB	TH	NNI	NN	4.4
			55	1985	AVB	TH	NNI	NN	4.4
			56	1985	AVB	TH	NNI	NN	4.4
			57	1985	AVB	TH	NNI	NN	4.4
			58	1985	AVB	TH	NNI	NN	4.4
			59	1985	AVB	TH	NNI	NN	4.4
			60	1985	AVB	TH	NNI	NN	4.4
			61	1985	AVB	TH	NNI	NN	4.4
			62	1985	AVB	TH	NNI	NN	4.4
			63	1985	AVB	TH	NNI	NN	4.4
			64	1985	AVB	TH	NNI	NN	4.4
			65	1985	AVB	TH	NNI	NN	4.4
			66	1985	AVB	TH	NNI	NN	4.4
			67	1985	AVB	TH	NNI	NN	4.4
			68	1985	AVB	TH	NNI	NN	4.4
			69	1985	AVB	TH	NNI	NN	4.4
			70	1985	AVB	TH	NNI	NN	4.4
			71	1985	AVB	TH	NNI	NN	4.4
			72	1985	AVB	TH	NNI	NN	4.4
			73	1985	AVB	TH	NNI	NN	4.4
			74	1985	AVB	TH	NNI	NN	4.4
			75	1985	AVB	TH	NNI	NN	4.4
			76	1985	AVB	TH	NNI	NN	4.4
			77	1985	AVB	TH	NNI	NN	4.4
			78	1985	AVB	TH	NNI	NN	4.4
			79	1985	AVB	TH	NNI	NN	4.4
			80	1985	AVB	TH	NNI	NN	4.4
			81	1985	AVB	TH	NNI	NN	4.4
			82	1985	AVB	TH	NNI	NN	4.4
			83	1985	AVB	TH	NNI	NN	4.4
			84	1985	AVB	TH	NNI	NN	4.4
			85	1985	AVB	TH	NNI	NN	4.4
			86	1985	AVB	TH	NNI	NN	4.4
			87	1985	AVB	TH	NNI	NN	4.4
			88	1985	AVB	TH	NNI	NN	4.4
			89	1985	AVB	TH	NNI	NN	4.4
			90	1985	AVB	TH	NNI	NN	4.4
			91	1985	AVB	TH	NNI	NN	4.4
			92	1985	AVB	TH	NNI	NN	4.4
			93	1985	AVB	TH	NNI	NN	4.4
			94	1985	AVB	TH	NNI	NN	4.4
			95	1985	AVB	TH	NNI	NN	4.4
			96	1985	AVB	TH	NNI	NN	4.4
			97	1985	AVB	TH	NNI	NN	4.4
			98	1985	AVB	TH	NNI	NN	4.4
			99	1985	AVB	TH	NNI	NN	4.4
			100	1985	AVB	TH	NNI	NN	4.4

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

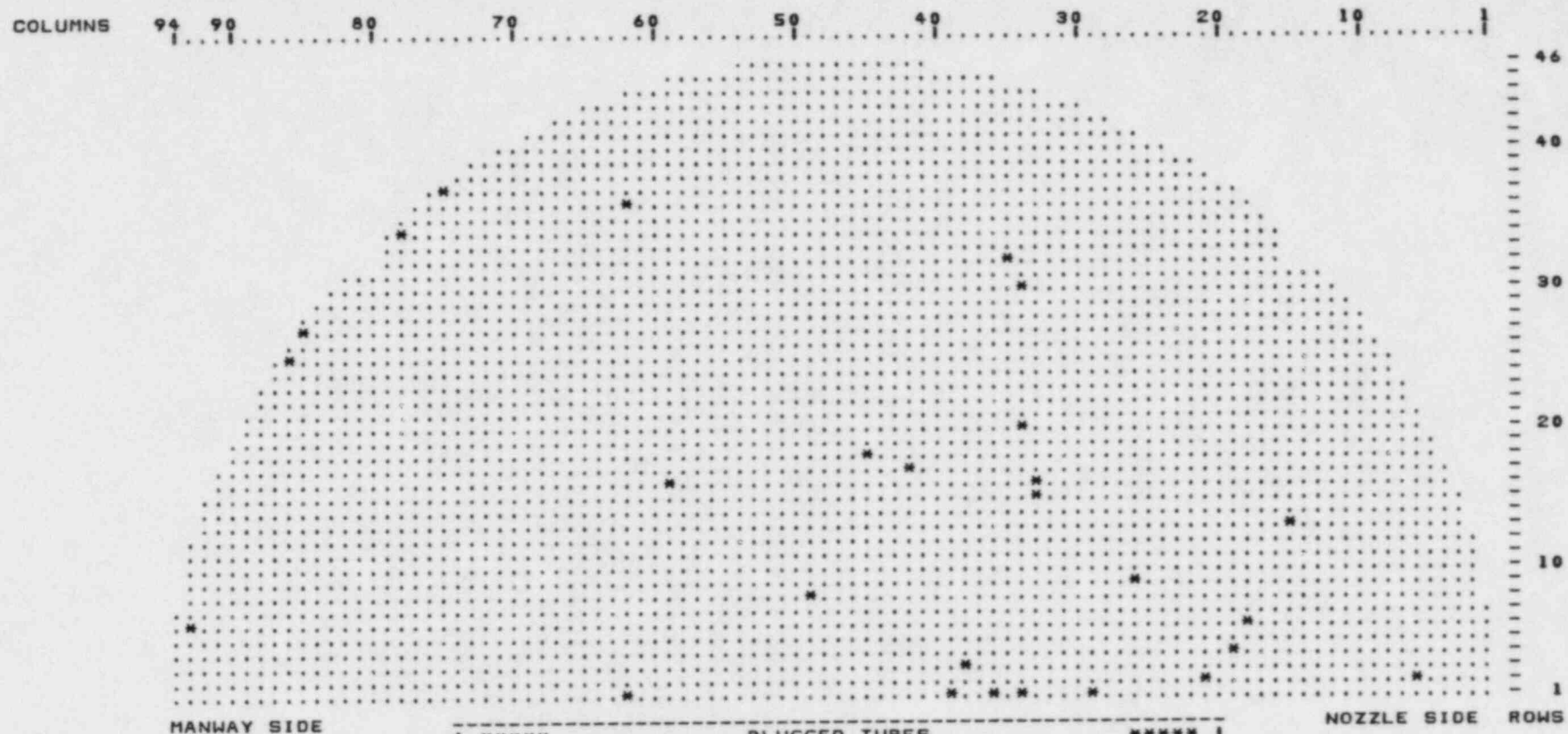
GEN NO.	SIDE	ROW	COL	YEAR	FROM	TO	DEFECT OR OBS	%	REMARKS/COMMENTS
11	OUTLET	45	58	000000	1ST SUP		THINNING	33	
			59	000000	2ND SUP		THINNING	44	
		46	43	000000	1ST SUP		THINNING	50	
			53	000000	2ND SUP		THINNING	51	

APPENDIX G

STEAM GENERATOR NUMBER 12

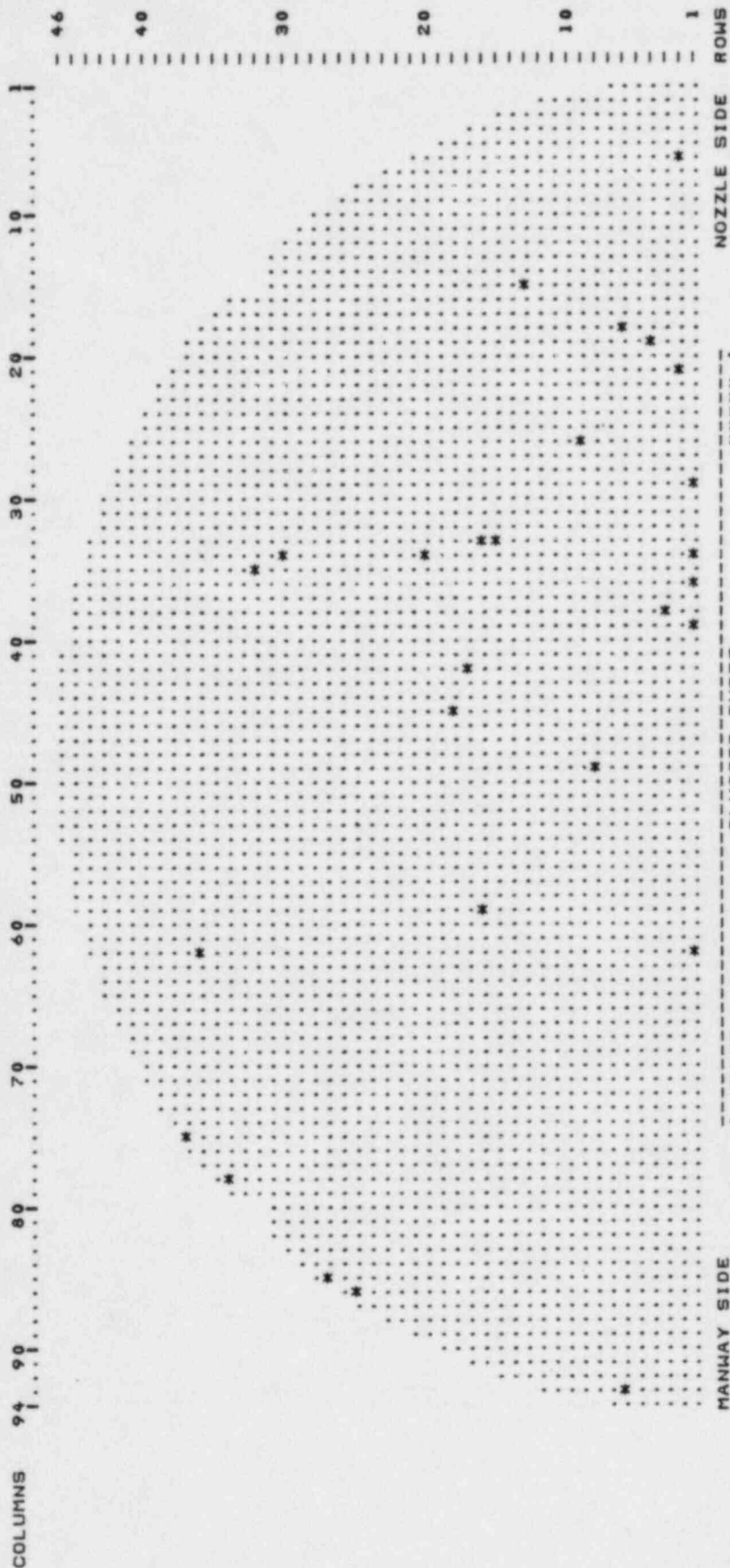
EDDY CURRENT TUBE SHEET MAPS AND RESULTS

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. 12	INLET (HOT LEG)	
INLET OR OUTLET	73 THROUGH 85	
INSPECTIONS MAPPED	TUBE SHEET	
REGION MAPPED TO	AROUND U-BEND	

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



MANWAY SIDE

PLUGGED TUBES

GENERATOR NO. 12

OUTLET (COLD LEG)

TUBE SHEET THROUGH 85

AROUND U-BEND

STEAM GENERATOR NO. 12

INLET OR OUTLET

INSPECTIONS MAPPED

REGION MAPPED TO

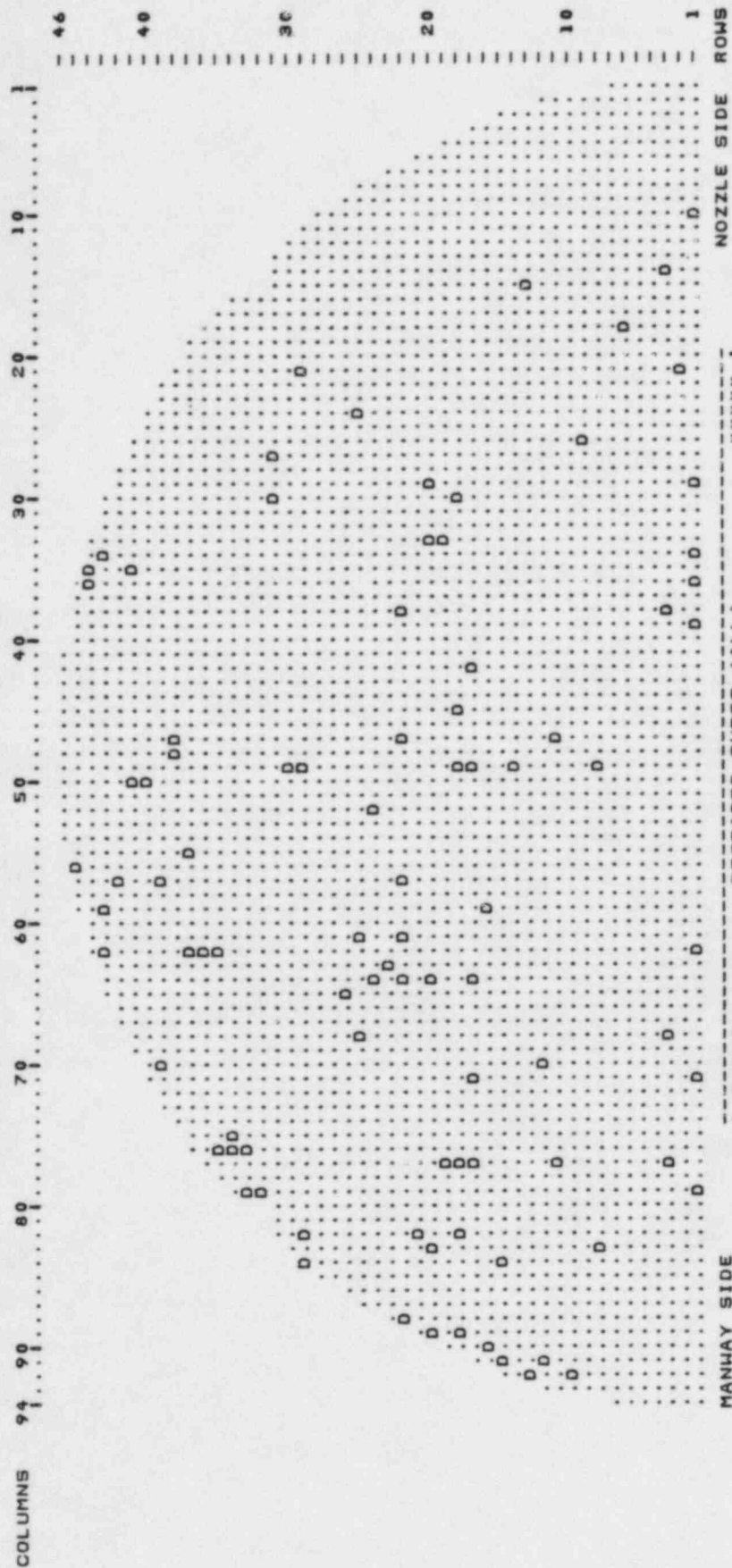
NOZZLE SIDE

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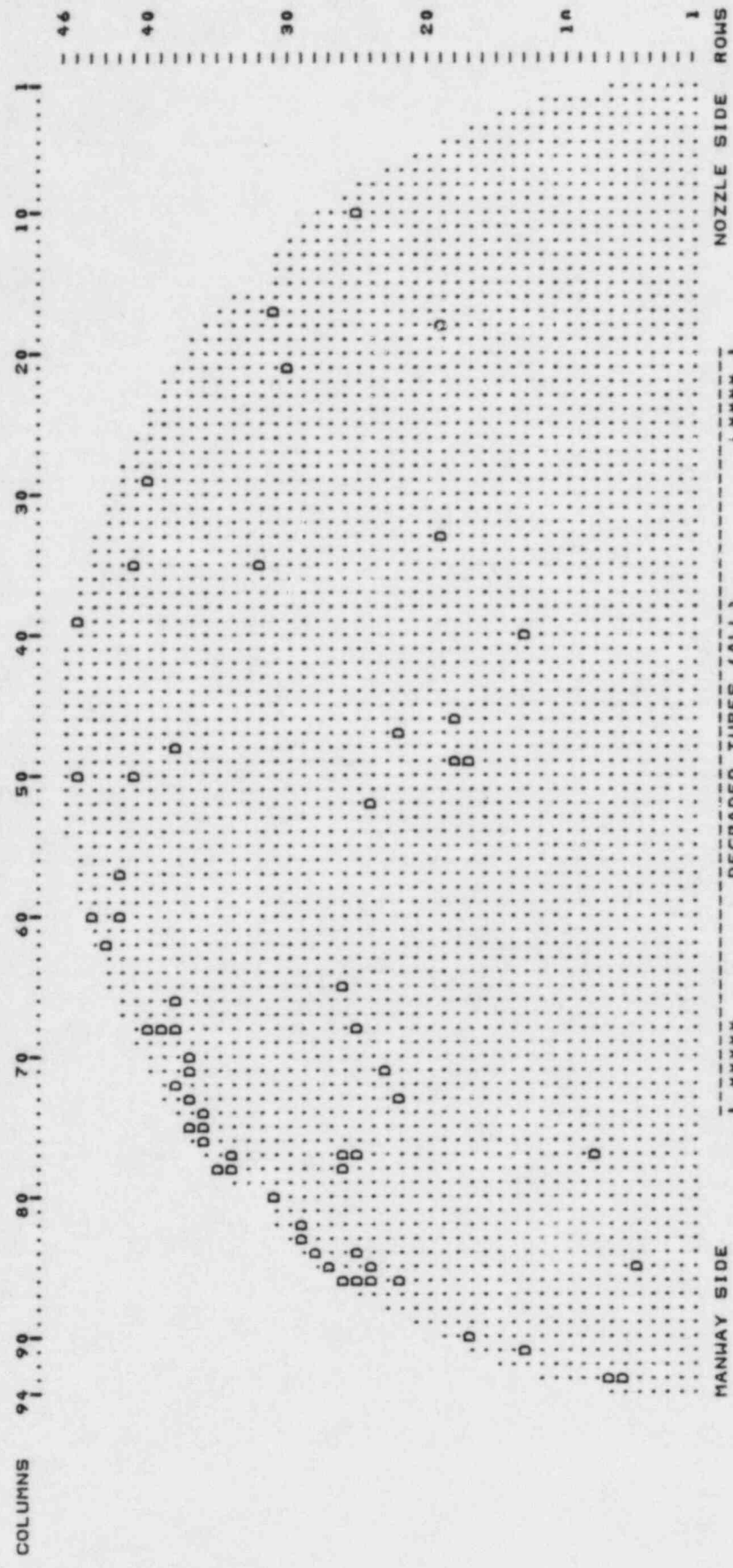
PRAIRIE ISLAND NUCLEAR GENERATING PLANT
LIST OF PLUGGED STEAM GENERATOR TUBES

GEN NO.	SIDE	ROW	COL	YEAR	REMARKS/COMMENTS
12	INLET	1	1	1	
		2	1	1	S/O
		3	1	1	
		4	1	1	PULLED FOR ANALYSIS
		5	1	1	PULLED FOR ANALYSIS
		6	1	1	S/O
		7	1	1	
		8	1	1	PULLED FOR ANALYSIS
		9	1	1	
		10	1	1	
		11	1	1	
		12	1	1	
		13	1	1	
		14	1	1	
		15	1	1	
		16	1	1	
		17	1	1	
		18	1	1	
		19	1	1	
		20	1	1	
		21	1	1	
		22	1	1	
		23	1	1	
		24	1	1	
		25	1	1	
		26	1	1	
		27	1	1	
		28	1	1	
		29	1	1	
		30	1	1	
		31	1	1	
		32	1	1	
		33	1	1	
		34	1	1	
		35	1	1	
		36	1	1	
		37	1	1	
		38	1	1	
		39	1	1	
		40	1	1	
		41	1	1	
		42	1	1	
		43	1	1	
		44	1	1	
		45	1	1	
		46	1	1	
		47	1	1	
		48	1	1	
		49	1	1	
		50	1	1	
		51	1	1	
		52	1	1	
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		54	1	1	
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		56	1	1	
		57	1	1	
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		59	1	1	
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		114	1	1	
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		298	1	1	
		299	1	1	
		300	1	1	
		301	1	1	
		302	1	1	
		303	1	1	
		304	1	1	
		305	1	1	
		306	1	1	
		307	1	1	
		308	1	1	
		309	1	1	
		310	1	1	
		311	1	1	
		312	1	1	
		313	1	1	
		314	1	1	
		315	1	1	
		316	1	1	
		317	1	1	
		318	1	1	
		319	1	1	
		320	1	1	
		321	1	1	
		322	1	1	
		323	1	1	

NORTHERN STATES POWER COMPANY
 POWER PRODUCTION MATERIALS AND SPECIAL PROCESSES SECTION
 PRAIRIE ISLAND NUCLEAR GENERATING PLANT STEAM GENERATOR TUBE MAP - WESTINGHOUSE SERIES S1



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



MANWAY SIDE

DEGRADED TUBES (ALL)

STEAM GENERATOR NO. 12
 INLET OR OUTLET NO. 1
 INSPECTIONS MAPPED TO OUTLET (COLD LEG)
 REGION MAPPED TO TUBE SHEET 73 THROUGH 85
 AROUND U-BEND

NOZZLE SIDE

APR 17, 1985

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

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

APR 17. 1985

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

GEN NO.	SIDE	ROW	COL	YEAR	FROM	TO	DEFECT OR ORS	%	REMARKS/COMMENTS
12	INLET	20	83	8		2ND SUP	THNNNG	^	0
		21	82	8		1ST SUP	THNNNG	^	0
		22	38	8		1ST SUP	THNNNG	^	0
						1ST AVB	THNNNG	^	0
						2ND AVB	THNNNG	^	0
						3RD AVB	THNNNG	^	0
			47	8		2ND AVB	THNNNG	^	0
						2ND AVB	THNNNG	^	0
						2ND AVB	THNNNG	^	0
						3RD AVB	THNNNG	^	0
					1" BELOW	3RD AVB	THNNNG	^	0
						3RD AVB	THNNNG	^	0
			57	8		2ND AVB	THNNNG	^	0
			61	8		3RD AVB	THNNNG	^	0
						2ND AVB	THNNNG	^	0
			64	8		3RD AVB	THNNNG	^	0
						1ST SUP	THNNNG	^	0
						2ND SUP	THNNNG	^	0
						3RD SUP	THNNNG	^	0
						2ND SUP	THNNNG	^	0
						3RD SUP	THNNNG	^	0
			88	8		2ND SUP	THNNNG	^	0
		23	44	8		TUBE SH	THNNNG	^	0
		24	44	8		2ND AVB	THNNNG	^	0
						1ST SUP	THNNNG	^	0
		25	44	8		3RD SUP	THNNNG	^	0
			61	8		1ST SUP	THNNNG	^	0
			68	8		1ST AVB	THNNNG	^	0
						1ST AVB	THNNNG	^	0
						1ST SUP	THNNNG	^	0
		26	65	8		TUBE SH	THNNNG	^	0
		29	61	8		TUBE SH	THNNNG	^	0
					" ABOVE	TUBE SH	THNNNG	^	0
					" ABOVE	TUBE SH	THNNNG	^	0
					" ABOVE	TUBE SH	THNNNG	^	0
					" ABOVE	1ST SUP	THNNNG	^	0
			49	8		3RD AVB	THNNNG	^	0
			82	8		1ST SUP	THNNNG	^	0
						1ST SUP	THNNNG	^	0
						2ND AVB	THNNNG	^	0
			84	8		1ST AVB	THNNNG	^	0
		30	49	8		4TH AVB	THNNNG	^	0
		31	49	8		TUBE SH	THNNNG	^	0
					2" BELOW	2ND SUP	THNNNG	^	0
						3RD SUP	THNNNG	^	0
					2" ABOVE	3RD SUP	THNNNG	^	0
						3RD SUP	THNNNG	^	0
						3RD SUP	THNNNG	^	0
						3RD SUP	THNNNG	^	0
		34	75	8		TUBE SH	THNNNG	^	0
			76	8		2ND SUP	THNNNG	^	0
		35	76	8		2ND SUP	THNNNG	^	0
			76	8		2ND SUP	THNNNG	^	0
						2ND SUP	THNNNG	^	0
						2ND SUP	THNNNG	^	0
		36	63	8		TUBE SH	THNNNG	^	0
		37	63	8		TUBE SH	THNNNG	^	0
					38" ABOVE	TUBE SH	THNNNG	^	0
						TUBE SH	THNNNG	^	0
		38	47	8		2ND AVB	THNNNG	^	0
			48	8		3RD AVB	THNNNG	^	0
						4TH AVB	THNNNG	^	0
						4TH AVB	THNNNG	^	0
		39	57	8		1ST SUP	THNNNG	^	0
			70	8		1ST SUP	THNNNG	^	0

APR 17, 1985

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

GEN NO.	SIDE	ROW	COL	YEAR	FROM	TO	DEFECT OR OBS	%	REMARKS/COMMENTS
12	OUTLET	7	93	85	14 " ABOVE	3RD SUP	THINNING	0	
		8	77	85		1ST SUP	THINNING	0	
		13	40	85	3 " ABOVE	2ND SUP	THINNING	0	
				85	38 " ABOVE	2ND SUP	THINNING	0	
			91	85		1ST SUP	THINNING	0	
				85		1ST SUP	THINNING	0	
				85		1ST SUP	THINNING	0	
		17	49	85		2ND AVB	THINNING	0	
			90	85		3RD AVB	THINNING	0	
				85		1ST SUP	THINNING	0	
				85		1ST SUP	THINNING	0	
		18	46	85		TUBE SH	THINNING	0	
			49	85		1ST AVB	THINNING	0	
				85		2ND AVB	THINNING	0	
		19	18	85		TUBE SH	THINNING	0	
			33	85		1ST AVB	THINNING	0	
				85		2ND AVB	THINNING	0	
				85		3RD AVB	THINNING	0	
		22	47	85		4TH AVB	THINNING	0	
			73	85	32 " ABOVE	3RD AVB	THINNING	0	
			66	85		TUBE SH	THINNING	0	
			71	85		1ST SUP	THINNING	0	
			72	85		3RD SUP	THINNING	0	
			73	85		2ND AVB	THINNING	0	
			74	85		1ST SUP	THINNING	0	
				85		1ST SUP	THINNING	0	
				85		1ST SUP	THINNING	0	
			86	85		1ST SUP	THINNING	0	
				85		1ST SUP	THINNING	0	
		25	10	85	5 " ABOVE	2ND SUP	THINNING	0	
			68	85		1ST SUP	THINNING	0	
			77	85		1ST SUP	THINNING	0	
				85		1ST SUP	THINNING	0	
			84	85		1ST SUP	THINNING	0	
			86	85		1ST SUP	THINNING	0	
				85		1ST SUP	THINNING	0	
		26	65	85	46 " ABOVE	1ST SUP	THINNING	0	
			77	85		1ST SUP	THINNING	0	
				85		1ST SUP	THINNING	0	
			78	85		1ST SUP	THINNING	0	
			86	85		1ST SUP	THINNING	0	
				85		1ST SUP	THINNING	0	
		27	85	85		1ST SUP	THINNING	0	
				85		1ST SUP	THINNING	0	
				85		1ST SUP	THINNING	0	
		28	84	85		1ST SUP	THINNING	0	
				85		1ST SUP	THINNING	0	
				85		1ST SUP	THINNING	0	
				85		1ST SUP	THINNING	0	
				85		1ST SUP	THINNING	0	
		29	82	85		1ST SUP	THINNING	0	
			83	85		1ST SUP	THINNING	0	
				85		1ST SUP	THINNING	0	
				85		1ST SUP	THINNING	0	
		30	21	85	20 " ABOVE	1ST SUP	THINNING	0	
			17	85		1ST SUP	THINNING	0	
			80	85		1ST SUP	THINNING	0	
				85		1ST SUP	THINNING	0	
				85		1ST SUP	THINNING	0	
				85		1ST SUP	THINNING	0	
				85		1ST SUP	THINNING	0	
				85		1ST SUP	THINNING	0	
		32	35	85		2ND AVB	THINNING	0	
				85		2ND AVB	THINNING	0	
		34	77	85		1ST SUP	THINNING	0	
				85		1ST SUP	THINNING	0	
				85		1ST SUP	THINNING	0	
			78	85		1ST SUP	THINNING	0	

APR 17, 1985

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

GEN NO.	SIDE	ROW	COL	YEAR	FROM	TO	DEFECT OR OBS	%	REMARKS/COMMENTS
12	OUTLET	34	78	83			TH NN NG		
		35	78	84			TH NN NG		
		36	74	84			TH NN NG		
			75	84			TH NN NG		
			76	84			TH NN NG		
		37	70	84			TH NN NG		
			71	84			TH NN NG		
			73	84			TH NN NG		
			75	84			TH NN NG		
		38	48	84			TH NN NG		
			64	84			TH NN NG		
			68	84			TH NN NG		
			72	84			TH NN NG		
		39	68	84			TH NN NG		
				84			TH NN NG		
		40	29	84	32 " ABOVE	7TH SUP	TH NN NG		
				84	37 " ABOVE		TH NN NG		
				84	37 " ABOVE		TH NN NG		
				84	39 " ABOVE		TH NN NG		
			68	84			TH NN NG		
		41	35	84			TH NN NG		
		42	57	84	34 " ABOVE		TH NN NG		
			60	84	18" BELOW		TH NN NG		
		43	62	84			TH NN NG		
		44	60	84			TH NN NG		
		45	39	84	1 " ABOVE		TH NN NG		
		50		84			TH NN NG		

APPENDIX H

FORM NIS - 1

OWNERS' DATA REPORT FOR INSERVICE INSPECTION

FORM NIS-1 OWNERS' DATA REPORT FOR INSERVICE INSPECTIONS

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

- 1.) Owner Northern States Power Company
 Address 414 Nicollet Mall, Minneapolis, Minnesota 55401
- 2.) Plant PRAIRIE ISLAND NUCLEAR GENERATING PLANT
 Address WELCH, MINNESOTA
- 3.) Plant Unit I 4.) Owner (Certificate of Authorization) --
- 5.) Commercial Service Date 12-16-73 6.) National Board Number for Unit --
- 7.) Components Inspected

<u>Component or Appurtenance</u>	<u>Manufacturer or Installer</u>	<u>Manufacturer or Installer Serial No.</u>	<u>State or Province No.</u>	<u>National Board No.</u>
B1.0 REACTOR VESSEL	CREUSOT-LOIRE	686	MINN 200-51	---
B1.30 SHELL-TO-FLANGE WELD WELD NO.1				
B3.90 NOZZLE-TO-VESSEL WELD & NOZZLE INSIDE RADIUS SECTION				
REACTOR CORE	CREUSOT-LOIRE	---	----	---
COOLANT OUT-LET NOZZLES WELDS, 7,10				
B 5.10 NOMINAL PIPE SIZE 4 INCH AND GREATER, NOZZLE-TO-SAFE END BUTT				
REACTOR CORE	CREUSOT-LOIRE	---	----	---
COOLANT OUT-LET NOZZLES RCC-A-1S.E. RCC-B-1S.E.				
B5.130 NOMINAL PIPE SIZE 4 INCH AND GREATER, DISSIMILAR METAL WELDS				
REACTOR CORE	CREUSOT-LOIRE	---	----	---
COOLANT OUT-LET NOZZLES RCC-A-1S.E. RCC-B-1S.E.				
B6.40 THREADS IN FLANGE				
STUD HOLES	CREUSOT-LOIRE	---	----	---
4-14, 16-17, 23-29, 37-43				

FORM NIS-1 OWNERS' DATA REPORT FOR INSERVICE INSPECTIONS

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

- 1.) Owner: Northern States Power Company
 Address: 414 Nicollet Mall, Minneapolis, Minnesota 55401
- 2.) Plant: PRAIRIE ISLAND NUCLEAR GENERATING PLANT
 Address: WELCH, MINNESOTA
- 3.) Plant Unit: I 4.) Owner (Certificate of Authorization): --
- 5.) Commercial Service Date: 12-16-73 6.) National Board No. for Unit: --
- 7.) Components Inspected:

<u>Component or Appurtenance</u>	<u>Manufacturer or Installer</u>	<u>Manufacturer or Installer Serial No.</u>	<u>State or Province No.</u>	<u>National Board No.</u>
<u>PRESSURIZER</u>	WESTINGHOUSE	1111	----	68-20

B5.40 NOMINAL PIPE SIZE 4" AND GREATER NOZZLE TO SAFE END BUTT WELDS

SAFETY LINE A W-1 S.E.	---	---	---	---
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B5.130 NOMINAL PIPE SIZE 4" AND GREATER DISSIMILAR METAL WELDS

SAFETY LINE A W-1 S.E.	NAVCO	---	---	---
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<u>STEAM GENERATORS</u>	WESTINGHOUSE	1101	---	68-24
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B7.30 BOLTS, STUDS AND NUTS

S/G #11 PRIMARY MANWAY BOLTS, INLET BOLTS 1-24 OUTLET BOLTS 1-24	WESTINGHOUSE	1101	---	68-24
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S/G #12 PRIMARY MANWAY BOLTS, INLET BOLTS 1-24 OUTLET BOLTS 1-24	WESTINGHOUSE	1102	---	68-25
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FORM NIS-1 OWNERS' DATA REPORT FOR INSERVICE INSPECTIONS

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

- 1.) Owner: Northern States Power Company
 Address: 414 Nicollet Mall, Minneapolis, Minnesota 55401
- 2.) Plant: PRAIRIE ISLAND NUCLEAR GENERATING PLANT
 Address: WELCH, MINNESOTA
- 3.) Plant Unit: I 4.) Owner (Certificate of Authorization): --
- 5.) Commercial Service Date: 12-16-73 6.) National Board No. 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>
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PIPING

B7.50 BOLTS, STUDS AND NUTS

SEAL INJECTION ORIFICE BOLTS	NAVCO	---	---	---
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PZR SAFETY A FLANGE BOLTS	NAVCO	---	---	---
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B9.11 & 9.12 CIRCUMFERENTIAL & LONGITUDINAL WELDS 4" AND GREATER

PZR SAFETY A W-4	NAVCO	---	---	---
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RHR TAKE OFF B W-16	NAVCO	---	---	---
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PZR SURGE B W-4	NAVCO	---	---	---
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ACCUMULATOR DISCHARGE A W-5	NAVCO	---	---	---
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B9.21 & 9.22 CIRCUMFERENTIAL & LONGITUDINAL WELD LESS THAN 4"

SEAL INJECTION B W-5	NAVCO	---	---	---
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SEAL INJECTION A W-44	NAVCO	---	---	---
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FORM NIS-1 OWNERS' DATA REPORT FOR INSERVICE INSPECTIONS

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

- 1.) Owner: Northern States Power Company
 Address: 414 Nicollet Mall, Minneapolis, Minnesota 55401
- 2.) Plant: PRAIRIE ISLAND NUCLEAR GENERATING PLANT
 Address: WELCH, MINNESOTA
- 3.) Plant Unit: I 4.) Owner (Certificate of Authorization): --
- 5.) Commercial Service Date: 12-16-73 6.) National Board No. 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>
B9.21 & B9.22 CONT'D				
CHARGING LINE B W-23, 31A	NAVCO	---	---	---
AUXILIARY SPRAY TO PZR W-13	NAVCO	---	---	---
RTD TAKE OFF HOT LEG A W-4	NAVCO	---	---	---
SAFETY INJECTION HIGH HEAD B W-8	NAVCO	---	---	---
SPRAY TO PZR A W-22A	NAVCO	---	---	---
RTD RETURN A W-2	NAVCO	---	---	---
PZR RELIEF B W-14	NAVCO	---	---	---
B9.30 BRANCH WELDS GREATER THAN 4" DIAMETER				
RHR TAKE OFF B W-R	NAVCO	---	---	---
B9.32 BRANCH WELDS LESS THAN 4" DIAMETER				
R.V.S.I. LOW HEAD A W-1	NAVCO	---	---	---

FORM NIS-1 OWNERS' DATA REPORT FOR INSERVICE INSPECTIONS

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

- 1.) Owner: Northern States Power Company
 Address: 414 Nicollet Mall, Minneapolis, Minnesota 55401
- 2.) Plant: PRAIRIE ISLAND NUCLEAR GENERATING PLANT
 Address: WELCH, MINNESOTA
- 3.) Plant Unit: I 4.) Owner (Certificate of Authorization): --
- 5.) Commercial Service Date: 12-16-73 6.) National Board No. 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>
B9.40 SOCKET WELDS AUXILIARY SPRAY TO PZR W-1D + PIPE	NAVCO	---	---	---
SAFETY INJECTION HIGH HEAD B W-17	NAVCO	---	---	---
R.V.S.I. LOW HEAD B W-8	NAVCO	---	---	---
B10.10 INTEGRALLY WELDED ATTACHMENTS SPRAY TO PZR K,	NAVCO	---	---	---
RHR TAKE OFF B P,	NAVCO	---	---	---
<u>REACTOR COOLANT PUMPS</u>				
B6.18C BOLTS, STUDS AND NUTS REACTOR COOLANT PUMP #11 FLANGE BOLTS 1-8	WESTINGHOUSE	W-561	---	---
B7.60 BOLTS, STUDS AND NUTS REACTOR COOLANT PUMP #11 SEAL HOUSE BOLTS 1-12	WESTINGHOUSE	W-561	---	---

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<u>B7.60 (CONT'D)</u>				
REACTOR COOLANT PUMP #12	WESTINGHOUSE	W-562	---	---
SEAL HOUSE				
BOLTS 1-12				
<u>B10.10 INTEGRALLY WELDED SUPPORTS</u>				
REACTOR COOLANT PUMP #12	WESTINGHOUSE	W-562	---	---
SUPPORT A				
- VALVES -				
<u>B7.70 BOLTS, STUDS AND NUTS</u>				
RHR TAKE OFF LOOP A	NAVCO	---	---	---
8701A				
RHR TAKE OFF LOOP B	NAVCO	---	---	---
8702A				
RTD RETURN LOOP A	NAVCO	---	---	---
8001A				
SEAL INJECTION LOOP A	NAVCO	---	---	---
T-58				
REACTOR				

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B14.10 PRESSURE RETAINING WELDS IN CONTROL ROD HOUSINGS				
CRD HOUSINGS	NSP	---	---	---
H6677-1,				
H4698-1,				
J1064-1				

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ASME CLASS II

PIPING

C3.20 INTEGRALLY WELDED ATTACHMENTS

MAIN STEAM LOOP A D,	NAVCO	---	---	---
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MAIN STEAM LOOP B G,	NAVCO	---	---	---
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FEEDWATER LOOP A R,	NAVCO	---	---	---
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ACCUMULATOR DISCHARGE C,	NAVCO	---	---	---
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C5.11 & C5.12 CIRCUMFERENTIAL & LONGITUDINAL WELDS LESS THAN 1/2" WALL

RHR PUMP SUCTION W-26	NAVCO	---	---	---
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RHR DISCHARGE W-95, W-154	NAVCO	---	---	---
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RWST DISCHARGE W-200	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>C5.21 & 5.22 CIRCUMFERENTIAL & LONGITUDINAL WELDS GREATER THAN 1/2" WALL</u>				
MAIN STEAM LOOP A MS-4	NAVCO	---	---	---
MAIN STEAM LOOP B MS-109W	NAVCO	---	---	---
FEEDWATER LOOP A FW-164	NAVCO	---	---	---
FEEDWATER LOOP B FW-216	NAVCO	---	---	---
R.V.S.I. W-11	NAVCO	---	---	---
ACCUMULATOR DISCHARGE W-1319	NAVCO	---	---	---
<u>C3.30 INTEGRALLY WELDED ATTACHMENTS</u>				
SAFETY INJECTION PUMP #12 SUPPORT C	NAVCO	---	---	---

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-FSAR-				
C5.21 & 5.22 CIRCUMFERENTIAL & LONGITUDINAL WELDS GREATER THAN 1/2" WALL				
MAIN STEAM LOOP A MS-152	NAVCO	---	---	---
MAIN STEAM LOOP B MS-128	NAVCO	---	---	---
FEEDWATER LOOP B FW-197	NAVCO	---	---	---

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COMPONENT SUPPORTS

ASME CLASS I

<u>PRESSURIZER</u>	WESTINGHOUSE	1111	---	68-20
PZR SKIRT BOLTS 1-8				

STEAM GENERATORS

S/G #11 BASE ANCHOR BOLTS COL. 2	WESTINGHOUSE	1101	---	68-24
HELICOIL SCREWS COL. 2	WESTINGHOUSE	1101	---	68-24
RING WALL BOLTS PAD 1, PAD 2, PAD 3, PAD 4, SNUBBER PAD	WESTINGHOUSE	1101	---	68-24
S/G #12 TOP COLUMN CONNECTING BOLTS COL. 1	WESTINGHOUSE	1102	---	68-25
SNUBBER WALL BOLTS 1-15	WESTINGHOUSE	1102	---	68-25

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WALL BOLTS & LOWER LATERAL PAD 1, PAD 2, PAD 3, PAD 4, PAD 5, FIXTURE 1, FIXTURE 2, FIXTURE 3, LATERAL BEAM	WESTINGHOUSE	1102	---	68-25
<u>REACTOR COOLANT PUMPS</u>				
REACTOR COOLANT PUMP #11	WESTINGHOUSE	W-561	---	---
TIE BACK BOLT COL. 1	WESTINGHOUSE	W-561	---	---
LATERAL SUPPORT & WALL BOLTS COL. 2	WESTINGHOUSE	W-561	---	---
REACTOR COOLANT PUMP #12	WESTINGHOUSE	W-562	---	---
WELDED SUPPORT COL. 1	WESTINGHOUSE	W-562	---	---
BASE ANCHOR BOLTS COL. 2	WESTINGHOUSE	W-562	---	---

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<u>PIPING</u>				
CHARGING LINE CVCS LOOP B D, RPCH-144 Q1, RCVCH-910 G, RPCH-36	NAVCO	---	---	---
RHR TAKE OFF LOOP A B, RHRRH-23 G2, 9-RHR-3B P, RHRRH-14	NAVCO	---	---	---
SPRAY TO PZR BRANCH A G, RCRH-18 H, RCRH-19 K, RCRH-13	NAVCO	---	---	---
SPRAY TO PZR BRANCH B K, RCRH-14	NAVCO	---	---	---
RTD TAKE OFF COLD LEG A B, 138-RTD-2	NAVCO	---	---	---
DRAIN ON A CROSSOVER B1, RHCH-151	NAVCO	---	---	---

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SEAL INJECTION LOOP A F, RCVCH-871 O, RCVCH-897	NAVCO	---	---	---
ACCUMULATOR DISCHARGE B B1, RHRRH-41	NAVCO	---	---	---
RHR TAKE OFF LOOP B E, RHRRH-24 J, RHRRH-29 P, RHRRH-40	NAVCO	---	---	---
RTD TAKE OFF HOT LEG B A, RPCH-169	NAVCO	---	---	---
DRAIN ON B CROSSOVER A, RPCH-17	NAVCO	---	---	---
LETDOWN CVCS LOOP B E, RPCH-121 F, RPCH-140	NAVCO	---	---	---
SEAL INJECTION LOOP B A, RCVCH-929 C1, RCVCH-1294	NAVCO	---	---	---

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PZR SURGE LOOP B E, 134-RC-5	NAVCO	---	---	---
R.V.S.I. LOOP A C1, SIRH-11	NAVCO	---	---	---
<u>ASME CLASS II</u>				
MAIN STEAM LOOP A D, MSH-34	NAVCO	---	---	---
FEEDWATER LOOP A U, FWH-53 E, FWH-47	NAVCO	---	---	---
RHR SUCTION LOOP A H, RHRH-69 T, RHRH-61	NAVCO	---	---	---
RHR DISCHARGE PUMP A C, RHRH-39 K, RHRH-47	NAVCO	---	---	---
MAIN STEAM LOOP B G, MSH-42	NAVCO	---	---	---

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MAIN STEAM RELIEF HEADER LOOP B M, MSDH-24	NAVCO	---	---	---
FEEDWATER LOOP B N, FWH-51	NAVCO	---	---	---
RHR SUCTION LOOP B C, RHRH-1 C, RHRH-2	NAVCO	---	---	---
RHR DISCHARGE LOOP B C, RHRH-64 E, RHRH-31 U, 102-SIS-1	NAVCO	---	---	---
ACCUMULATOR DISCHARGES C, SIRH-21	NAVCO	---	---	---
R.V.S.I. LOOP A E, SIRH-10	NAVCO	---	---	---

FORM NIS-1 (back)

8.) Examination Dates 1-14-85 to 2-22-85 9.) Inspection Interval
12-16-83 to 12-16-93

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 one of the second interval. The examinations completed approximately 30% of the required pressure retaining components and their supports of the reactor coolant and associated auxiliary systems classified as ASME Class 1 and Class 2; 30% of the FSAR Augmented examinations of main steam and feedwater systems transversing the Auxiliary Building; and 90% of the required Reactor Vessel examinations. Eddy Current examination requirements for steam generator tubes were also completed during this outage in accordance with Prairie Island Technical Specification, Section T.S.4.12.

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

The Eddy Current inspection revealed 108 and 57 new tubes for S.G. No. 11 and No. 12, respectively, which exhibited wall thinning. There were a total of 9 and 7 tubes for S.G. No. 11 and No. 12, respectively, that required corrective action.

The following is a list of all anomalies detected:

<u>SYSTEM</u>	<u>ITEM ID</u>	<u>EXAM METHOD</u>	<u>TYPE & NO. OF INDICATIONS</u>
DRAIN ON	RPCH-151	VT	LOAD SETTINGS
CROSSOVER A	RPCH-17	VT	NO DRAWING
PZR RELIEF	W-14	PT	LINEAR
PZR SURGE	134-RC-5	VT	LOOSE BOLT
ACCUMULATOR	SIRH-21	VT	LOAD SETTINGS
DISCHARGE	RHRRH-41	VT	DRAWING COMPLIANCE
R.V.S.I.	W-11	VT	GOUGES
SEAL INJECTION	W-44	PT	LINEAR
LOOP A	RCVCH-871	VT	DRAWING COMPLIANCE
SEAL INJECTION	RCVCH-1294	VT	SLAG & UNDERCUT
LOOP B			

<u>SYSTEM</u>	<u>ITEM ID</u>	<u>EXAM METHOD</u>	<u>TYPE & NO. OF INDICATIONS</u>
SPRAY TO PZR	RCRH-13	PT	LINEARS
	RCRH-14	VT	DRAWING COMPLIANCE AND LOOSE ROD
	RCRH-18	VT	DRAWING COMPLIANCE
RTD LOOP A	8001A	VT	BORIC ACID DEPOSIT
CVCS LETDOWN	RPCH-140	VT	DRAWING COMPLIANCE
	RPCH-121	VT	DRAWING COMPLIANCE
CHARGING LINE	RCVCH-910	VT	UNDERSIZE WELD
S/G SUPPORTS	PAD 4	VT	FLAME CUT HOLES
	PAD 2	VT	FLAME CUT HOLES
	FIXTURE 1	VT	THREAD ENGAGEMENT
	PAD 1	VT	BORIC ACID, BENT WASHER
	PAD 4 & 5	VT	BORIC ACID DEPOSIT
RHR SYSTEMS	W-154	PT	LINEAR (9/16")
	RHRH-31	VT	INCOMPLETE FUSSION (1/4")
	RHRRH-40	PT, VT	LINEARS, UNDERCUT
	RHRH-1	VT	NO LOAD MARKERS
	RHRH-139	VT	LOAD SETTINGS
MAIN STEAM B	MSDH-24	VT	LOAD SETTINGS

12.) Abstract of Corrective Measures Recommended and Taken.

All degraded S.G. tubes with all thinning of 42% at the tube support plates, 31% in the tube sheet, and 39% for Anti-vibration bars were mechanically plugged, a total of 9 tubes for S.G. No. 11 and 7 tubes for S.G. No. 12.

All anomalies were either corrected or an engineering evaluation was performed to accept "as is". The linear PT indications were removed by light hand grinding and blending the area smooth; the slag on hanger RCVCH-1294 was removed and the undercut reevaluated and found acceptable; the hangers with loose rod or bolt were tightened; the hangers with incorrect load settings were accepted and the drawings are to be updated to show actual settings; the missing hanger drawing is to be made and incorporated into the drawing system; the hanger drawing compliances are to be updated to show actual configurations; the remainder of the items that contained flame cut holes, thread engagement, boric acid deposits, undersized welds, bent washers, and no load markers were evaluated and found acceptable through engineering evaluations.

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 May 6 19 85 Signed Nathaniel State Power Co. By Long Chien
Owner

Certificate of Authorization No. (if applicable) NA Expiration Date 1/8

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of MINN. and employed by HARTFORD STEAM BOILER of HARTFORD, CT have inspected the components described in this Owner's Data Report during the period 1-14-85 to 2-22-85, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owners' Data Report in accordance with the requirements of the ASME Code, Section XI.

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

Date MAY 6 19 85

R. A. Hughes
Inspector's Signature

Commissions NA 9504 MINN 85-34
National Board, State, Province & No