



# PRAIRIE ISLAND NUCLEAR GENERATING PLANT

Red Wing, Minnesota

UNITS 1 AND 2



INSERVICE INSPECTION - EXAMINATION SUMMARY

SEPTEMBER 9, 1985 TO OCTOBER 21, 1985

REFUELING OUTAGE 9

INSPECTION PERIOD 1

SECOND INTERVAL

8602050319 860123  
PDR ADDCK 050000332  
G PDR

**NORTHERN STATES POWER COMPANY**  
MINNEAPOLIS, MINNESOTA

Report Date:  
January 14, 1986

Commercial Service Date:  
December 20, 1974

NORTHERN STATES POWER COMPANY

PRAIRIE ISLAND NUCLEAR GENERATING PLANT - UNIT II

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Report Date:  
January 14, 1986

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Commercial Service Date:  
December 20, 1974



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

INDEX

- 1.0 INTRODUCTION
- 2.0 SUMMARY
- 3.0 ASME CLASS 1 AND 2 COMPONENTS
  - 3.1 Examination Plan
  - 3.2 Examination Methods
  - 3.3 Examination Procedures
  - 3.4 Equipment and Materials
  - 3.5 Personnel
  - 3.6 Evaluation
  - 3.7 Examination Reports and Documentation
  - 3.8 Summary of Results
- 4.0 EXAMINATION OF THE STEAM GENERATOR TUBING
- 5.0 REACTOR PRESSURE VESSEL EXAMINATIONS
- 6.0 SAFETY INJECTION SYSTEM

APPENDIX A - ASME Class 1 Examinations

Inservice Inspection	- Examination Summary Tables:
Table S1.1	- Reactor Vessels
Table S1.2	- Pressurizer
Table S1.3	- Steam Generators
Table S1.4.1	- Regenerative Heat Exchangers
Table S1.4.2	- Excess Letdown Heat Exchanger
Table S1.5	- Piping Pressure Boundary
Table S1.6	- Reactor Core Coolant Pumps
Table S1.7	- Valve Pressure Boundary
Table S-II	- Examination Comparison Summary
Table III	- Isometric Summary

APPENDIX B - ASME Class 2 Examinations

Inservice Inspection	- Examination Summary Tables:
Table S2.1.1	- Pressure Vessels - Steam Generators
Table S2.1.2	- Pressure Vessels - Accumulators
Table S2.1.3	- Pressure Vessels - RHR Heat Exchangers
Table S2.1.4	- Pressure Vessels - Boric Acid Tank
Table S2.2	- Piping pressure Boundary
Table S2.3	- Pumps
Table S2.4	- Valves
Table S-II	- Examination Comparison Summary
Table III	- Isometric Summary

#### APPENDIX C - FSAR Augmented Examinations

Inservice Inspection	- Examination Summary Tables:
Table FSAR	- Piping Pressure Boundary
Table S-II	- Examination Comparison Summary
Table III	- Isometric Summary

#### APPENDIX D - Component Supports

Inservice Inspection	- Examination Summary Tables:
Table SCS1.1	- ASME Class I Component Supports
Table S-II	- Examination Comparison Summary
Table SCS1.2	- ASME Class II Component Supports
Table S-II	- Examination Comparison Summary

#### APPENDIX E-

Table I	- Personnel Listing
Table II	- Ultrasonic Calibration Blocks
Table III	- Procedure Listing
Table IV	- Equipment and Materials

#### APPENDIX F - Steam Generator No. 21

Eddy Current Tube Sheet Maps and Plugging List

#### APPENDIX G - Steam Generator No. 22

Eddy Current Tube Sheet Maps and Plugging List

#### APPENDIX H - NIS-1 Form

Form NIS-1, Owners' Data Report for Inservice Inspections

INSERVICE INSPECTION - EXAMINATION SUMMARY  
PRAIRIE ISLAND NUCLEAR GENERATING PLANT - UNIT 2  
September 9 to October 21, 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 2. This was the first inspection conducted for inspection period one of the plant's 2nd ten year interval. The examinations were performed during the plant's ninth refueling outage from September 9 to October 21, 1985. Prairie Island - Unit 2 began commercial operation on December 20, 1974.

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

1. Pressure retaining components and supports of the reactor coolant and associated systems classified as ASME Class 1 and ASME Class 2.
2. Reactor pressure vessel remote tool examinations.
3. Eddy current examination of Steam Generator tubing
4. Safety Injection line replacement.

2.0 SUMMARY OF RESULTS

The evaluation of all the results from the inservice examinations indicated that the integrity of these systems has been maintained. To assure continued integrity of the steam generators (S.G.), a total of 7 tubes in S.G. 21 and 12 tubes in S.G. 22 were mechanically plugged.

3.0 ASME CLASS 1 AND 2 COMPONENTS

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 and ASME Class 2.

### 3.1 (cont'd)

The examination plan was based on the examination requirements of the ASME Boiler and Pressure Vessel Code Section XI, 1980 Edition through and including the Winter 1981 Addenda, and complied with Prairie Island's Technical Specification, Section TS 4.2. The examination is in accordance with the program submitted to the United States Nuclear Regulatory Commission on October 14, 1983 titled, "ASME Code Section XI Inservice Inspection and Testing Program and Information Required for NRC Review of Requests for Relief From ASME Code Section XI Requirements".

### 3.2 EXAMINATION METHODS

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

Liquid penetrant or magnetic particle examination methods were used to perform the surface examinations. The liquid penetrant examinations were performed using color contrast-solvent removable materials. Magnetic particle examinations were performed using either a yoke with dry powder or an 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 with a 1/32 inch black line.

### 3.3 EXAMINATION PROCEDURES

All examination procedures complied with the requirements of Appendix III of ASME Section XI that was issued in the Winter 1981 Addenda. All other 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.

### 3.4 (cont'd)

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

### 3.5 PERSONNEL

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

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

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

### 3.6 EVALUATION

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

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

### 3.7 EXAMINATION REPORTS AND DOCUMENTATION

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



### 3.7 (cont'd)

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 or previous 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

<u>SYSTEM</u>	<u>ITEM ID</u>	<u>EXAM METHOD</u>	TYPE AND NUMBER OF <u>INDICATIONS</u>
Feedwater A	FW-177	MT	1 linear
	2-FW-1A/A	VT	drawing compliance
Feedwater B	FW-133	MT	3 linear & 5 rounded
Main Steam A	MS-56	VT	gouges
	MS-52	UT	1 linear
Main Steam B	MS-181B	MT	1 linear
	MSH-45/D	VT	drawing compliance
RCP Pump 21	Seal Bolt	UT	loss of back wall
RCP Pump 22	Seal Bolt	UT	loss of back wall
RHR Take Off A	RHRH-8/Q	VT	drawing compliance
RHR Pump Disch.	W-171	PT	1 linear
Charging Line	PRCVCH-1400/G	VT	drawing compliance
	PRCVCH-1387/W	VT	drawing compliance
	PRCVCH-1384/Z	VT	bottomed out
Drain & Letdown	105-2CVCS-2/C	VT	missing weld
PZR Surge	RCRH-51/I	VT	drawing compliance
	RCRH-50/F	VT	& load setting loose bolt
RTD to Cold Leg B	PRRCH-283/A1	VT	loose bolt
Spray to PZR Branch B	RCRH-3/G	VT	cracks in cement
Spray to PZR Branch A	RCRH-16/J	VT	inadequate thread engagement
SI High Head Loop A	PRSIH-241/C	VT	arc strike & drawing compliance
Seal Injection	PRCVCH-1512/P1	VT	missing piece
	PRCVCH-1371/P	VT	loose nut, load setting drawing compliance

### 3.8 (cont'd)

All anomalies were either corrected or an engineering evaluation was performed to accept "as is" conditions. The linear MT and PT indications were removed by light hand grinding and blending the area smooth; the linear UT indication and VT gouges were accepted based on fracture analysis; the UT indications on the seal house bolting were replaced with new bolts; the hangers with loose nuts or bolts were tightened; the hangers with drawing compliances were submitted to drawing control to reflect the "as found" conditions; the hangers which were either bottomed out or incorrect load settings were eradjusted to the correct settings; The hangers with missing piece, missing weld, inadequate thread engagemnet or cracks in the concrete were analysed for adequacy and found acceptable.

### 4.0 EXAMINATION OF THE STEAM GENERATOR TUBING

Multi-frequency eddy current examinations of the tubing in steam generators No. 21 and No. 22 were performed during this outage. The program consisted of the following:

1. Examination from the Cold Leg thru the 7th support using a .740 magbias probe, 100% of all accessible tubing.
2. Examination form the Hot Leg thru the 7th support using a .740 magbias probe, 100% of all accessible tubing.
3. Examination from the Hot Leg, U-Bend region (07C) to (07H) using .720 magbias probe, row 4 thru periphery.
4. Examination form the Hot Leg , U-Bend region (07C) to (07H) using .650/.700 magbias probe, as applicable, rows 1 thru 3.
5. Full length examination of the periphery tubes upon completion of AVB replacement.

Westinghouse, with technical support form Zetec Corpora-tion, was contracted to perform and evaluate the data form 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, 200KHz, 100 KHz, and 10KHz 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 examines this outage is shown in Table I. A summary of the tubes exhibiting eddy current indications is shown in Table II and a cumulative listing is found in Appendices F and G for S.G. No. 21 and No. 22 respectively. Table III is a summary of those tubes which were mechanically plugged this outage. Table IV consists of the total numbers of tubes plugged in S.G. No. 21 and No. 22 to date with the location of these tubes being exhibited in Appendices F and G.

TABLE I

Eddy Current Examination Extent - Accessible Tubes

Examination Extent	<u>S/G 21</u>		<u>S/G 22</u>	
	<u>Amount</u>	<u>%</u>	<u>Amount</u>	<u>%</u>
*U-Bend hot	2101	63	2071	64
*U-bend	970	29	971	29.5
*Full Length	237	07	222	6.7
*7th Support hot	3342	100	3293	100
*7th Support cold	3342	100	3293	100

TABLE II

Summary of Tubes With Eddy Current Indications\*

<u>% of Wall Thinning</u>	<u>S/G 21</u>	<u>S/G 22</u>
<20	108	96
20 - 29	68	54
30 - 39	35	38
>40	9	22
OTHERS	36	6

\* Categorized by largest, when multiple indications are present.

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

TABLE III

## Summary of Plugged Tubes - 1985 Outage

Steam Generator Number	Tube row	column	% of wall	Indication Location
21	44	43	51	#1 tsp - cold
	40	26	33	6.9" above ts - cold
	42	29	38	7.1" above ts - cold
	41	30	45	#1 tsp - cold
	21	85	45	#1 tsp - cold
	18	89	48	#1 tsp - cold
	1	79	42	1.2" above ts - cold
22	46	50	44	#1 tsp - cold
	40	27	42	#1 tsp - cold
	38	60	51	#7 tsp - hot
	36	77	45	#2 tsp - cold
	36	48	47	AVB
	33	62	49	AVB
	33	48	47	AVB
	31	80	59	#1 tsp - cold
	30	12	60	#1 tsp - cold
	28	15	57	#1 tsp - cold
	25	11	47	#1 tsp - cold
	22	86	50	#2 tsp - cold

AVB = Anti-Vibration Bar

TE = Tube End

TSP = Tube Support Plate

CAL. = Cold Leg

HL = Hot Leg

SQR = Unquantifiable Tube Degradation

TABLE IV

## Total Tubes Plugged To Date

S/G 21		S/G 22	
Amount	%	Amount	%
53	1.56	107	3.16



## 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 Perservice 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 compromised to 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 certification 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 II 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 Unit I.

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 1985 and the majority of the piping installed prior to the start of Unit II'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 25% of the welds. The examinations will be used for future reference, if ultrasonic examinations are preformed.

#### 6.0 (cont'd)

The ultrasonic examinations performed on the system utilized a 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 included within the 1985 outage report.

APPENDIX A  
ASME CLASS I EXAMINATIONS

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT <sup>2</sup>

## INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S1.1

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 IN REACTOR VESSELS</u>					
B1.11		CIRCUMFERENTIAL WELDS	THREE	100%	-	W-3	
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>					
		VESSEL-TO-FLANGE	ONE THREE	50% 50%	50% -	W-1 W-1	85 - <u>W</u> REPORT
B1.40	B-A	<u>HEAD-TO-FLANGE WELD</u>					
		HEAD-TO-FLANGE	ONE TWO THREE	33% 33% 34%	- - -	W-6 W-6 W-6	
B1.50	B-A	REPAIR WELDS	-	-	-	-NONE-	

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 2

## INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S1.1PAGE 2 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.
B3.90	B-D	<u>FULL PENETRATION WELDS OF NOZZLE IN VESSEL</u> <u>INSPECTION PROGRAM B</u>					
	B-D	<u>NOZZLE-TO-VESSEL WELD AND NOZZLE INSIDE RADIUS SECTION</u>					
		REACTOR CORE COOLANT NOZZLES OUTLET NOZZLES	ONE	2	2	W-7, W-10	85 - <u>W</u> REPORT
		INLET NOZZLES	THREE	2	-		
		SAFETY INJECTION NOZZLES	ONE THREE	1 1	- -		
	B-E	<u>PRESSURE RETAINING PARTIAL PENETRATION WELDS IN VESSEL</u>					
B4.10	B-E	<u>PARTIAL PENETRATION WELDS</u>					
B4.11	B-E	<u>VESSEL NOZZLES</u>					
		HEAD VENT	*	1	*	1-2RC-36 TO 2RC-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	* * *		* PLANT OPERATIONS



NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 2

## INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S1.1

PAGE 3 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.
B4.13	B-E	<u>INSTRUMENTATION NOZZLES</u>					
		INSTRUMENTATION PENETRATIONS	ONE TWO THREE	3 3 3	* * *		* PLANT OPERATIONS
	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	2	2	RCC-A-1 S.E. RCC-B-1 S.E.	85 - W REPORT 85 - W REPORT (UT ONLY)
		INLET NOZZLE SAFE END WELDS	THREE	2	-		
		REACTOR VESSEL SAFETY INJECTION NOZZLE SAFE END WELDS	ONE THREE	1 1	- -		
B5.20	B-F	<u>NOMINAL PIPE SIZE LESS THAN 4"</u>	-	-	-	-NONE-	
B5.30	B-F	<u>SOCKET WELDS</u>	-	-	-	-NONE-	
B5.130	B-F	<u>NOMINAL PIPE SIZE 4" AND GREATER, DISSIMILAR METAL WELDS</u>					IN CONJUNCTION WITH B5.10
		REACTOR CORE COOLANT	ONE TWO THREE	1 1 2	1 - -	RCC-A-1 S.E.	85 - W REPORT (UT ONLY)

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 2

## INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S1.1

PAGE 4 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.
B5.130	B-F	REACTOR VESSEL SAFETY INJECTION SYSTEMS	ONE TWO THREE	1 - 1	- - -		
	B-G-1	<u>PRESSURE RETAINING BOLTING, GREATER THAN 2" IN DIAMETER</u>					
B6.10	B-G-1	<u>CLOSURE HEAD NUTS</u>	ONE TWO THREE	16 16 16	- - -		
B6.20	B-G-1	<u>CLOSURE STUDS, IN PLACE</u>	-	-	-	-NONE-	SEE B6.30
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	24  - 24	24  - -	9 THRU 22, 29 THRU 37, 43 THRU 46	85 - W REPORT
B6.50	B-G-1	<u>CLOSURE WASHERS, BUSHINGS</u>					
		WASHERS (PAIRS)	ONE TWO THREE	16 16 16	- - -		
		BUSHINGS	-	-	-	-NONE-	

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 2

## INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S1.1

PAGE 5 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.
B7.10	B-G-2	<u>PRESSURE RETAINING BOLTING, 2" AND LESS IN DIAMETER</u>  <u>BOLTS, STUDS AND NUTS</u>  CONOSEAL	ONE TWO THREE	3 3 3	- - -		
B7.80	B-G-1	<u>CRD HOUSINGS</u>  <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	-		
	B-N-1	<u>INTERIOR OF REACTOR VESSEL</u>					
B13.10	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.							

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 2

## INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S1.1

PAGE 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-N-2	<u>INTEGRALLY WELDED CORE SUPPORT STRUCTURES AND INTERIOR ATTACHMENTS TO REACTOR VESSEL</u>					
B13.20	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.	
	B-0	<u>PRESSURE RETAINING WELDS IN CONTROL ROD HOUSINGS</u>					
B14.10	B-0	<u>WELDS IN CRD HOUSINGS</u>			-		
		PERIPHERAL CRD HOUSINGS	ONE THREE	- 2	- -		
	B-P	<u>ALL PRESSURE RETAINING COMPONENTS</u>					
B15.10	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
B15.11	B-P	<u>PRESSURE RETAINING BOUNDARY</u>	*	-	-		

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 2

## INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE SL.2  
PAGE 1 OF 3

MAJOR ITEM: PRESSURIZER

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
B2.10	B-B	PRESSURE RETAINING WELDS IN OTHER THAN REACTOR VESSELS					
	B-B	SHELL TO HEAD WELDS					
B2.11	B-B	CIRCUMFERENTIAL WELDS					
		WELD 3	ONE TWO THREE	33% 34% 33%	- - -		
		WELD 5	ONE TWO THREE	33% 34% 33%	- - -		
B2.12	B-B	LONGITUDINAL WELDS					
		WELD 1	ONE	10%	-		
		WELD 2	TWO	10%	-		
B2.20	B-B	HEAD WELDS	-	-	-	-NONE-	
	B-D	FULL PENETRATION WELDS OF NOZZLE IN VESSELS - INSPEC- TION PROGRAM B					
B3.110	B-D	NOZZLE TO VESSEL WELDS	-	-	-	-NONE-	



NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 2

## INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE 51.2

PAGE 2 OF 3

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.
B3.120	B-D	<u>NOZZLE INSIDE RADIUS SECTION</u>  SPRAY NOZZLE RELIEF NOZZLE SAFETY A NOZZLE SAFETY B NOZZLE SURGE NOZZLE	ONE TWO TWO THREE THREE	1 1 1 1 1	*- *- *- *- *-		* RELIEF NO. 65
	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 SURGE LINE RELIEF LINE SPRAY LINE	ONE TWO THREE THREE	2 1 1 1	- - - -		* RELIEF NO. 56
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 2

## INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE 51.2

PAGE 3 OF 3

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-	85-138
	B-G-2	<u>PRESSURE RETAINING BOLTING, 2" AND LESS IN DIAMETER</u>					
	B-G-2	<u>BOLTS, STUDS AND NUTS</u>					
B8.20		MANWAY BOLTS	ONE	5	5		
			TWO	5	-		
			THREE	6	-		
B8.20	B-H	<u>INTEGRAL ATTACHMENTS FOR VESSELS</u>					
	B-H	<u>INTEGRALLY WELDED ATTACHMENTS</u>					
		SUPPORT SKIRT	ONE	33%	-		
B15.20 B15.21			TWO	33%	-		
			THREE	34%	-		
	B-P	<u>ALL PRESSURE RETAINING COMPONENTS</u>					
B15.20 B15.21	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.
	B-P	<u>PRESSURE RETAINING BOUNDARY</u>	*	-	-		

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 2

## INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S1.3

PAGE 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. 21 W-A	ONE TWO THREE	33% 34% 33%	- - -		
		STEAM GENERATOR NO. 22 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. 21 INLET NOZZLE OUTLET NOZZLE	ONE THREE	1 1	*- *-		* RELIEF NO. 66
		STEAM GENERATOR NO. 22 INLET NOZZLE OUTLET NOZZLE	THREE TWO	1 1	*- *-		* RELIEF NO. 66

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 2

## INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S1.3

PAGE 2 OF 3

MAJOR ITEM: STEAM GENERATORS

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
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. 21 INLET OUTLET	ONE THREE	1 1	- -		
		STEAM GENERATOR NO. 22 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-	
	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. 21 INLET MANWAY	ONE TWO THREE	5 5 6	16 - -	INLET MANWAY 1-16	85-027,030,105
		OUTLET MANWAY	ONE TWO THREE	5 5 6	16 - -	OUTLET MANWAY 1-16	85-028,030

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 2

## INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S1.3

PAGE 3 OF 3

MAJOR ITEM: STEAM GENERATORS

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
B7.30	B-G-2	STEAM GENERATOR NO. 22 INLET MANWAY	ONE TWO THREE	5 5 6	16 - -	INLET MANWAY 1-16	85-026,031
		OUTLET MANWAY	ONE TWO THREE	5 5 6	15 - -	OUTLET MANWAY 1-15	85-025,031
	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 2

## INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S1.4.1

PAGE 1 OF 2

MAJOR ITEM: REGENERATIVE 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.
B2.60	B-B	<u>PRESSURE RETAINING WELDS IN OTHER THAN REACTOR VESSELS</u>					
	B-B	<u>TUBESHEET-TO-HEAD WELDS</u>					
		EXCHANGER A EXCHANGER B EXCHANGER C	ONE TWO THREE	100% 100% 100%	- - -		RELIEF NO. 45 RELIEF NO. 45 RELIEF NO. 45
B3.150	B-D	<u>FULL PENETRATION WELDS OF NOZZLES IN VESSELS - INSPECTION PROGRAM B</u>					
	B-D	<u>NOZZLE TO VESSEL WELDS</u>	-	-	-	-NONE-	
	B-D	<u>NOZZLE INSIDE RADUISED SECTION</u>					
B3.160		EXCHANGER A EXCHANGER B EXCHANGER C	ONE TWO THREE	2 2 2	*- *- *-		* RELIEF NO. 66
	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>	-	-	-	-NONE-	
	B-H	<u>INTEGRAL ATTACHMENTS FOR VESSELS</u>	-	-	-	-NONE-	

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 2

## INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S1.4.1

PAGE 1 OF 2

MAJOR ITEM: REGENERATIVE 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 2

## 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	- 1 -	- - -		
	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-	RELIEF NO. 67
B3.160	B-D	<u>NOZZLE INSIDE RADIUS SECTION</u>	-	-	-	-NONE-	RELIEF NO. 66
	B-F	<u>PRESSURE RETAINING DISSIMILAR METAL WELDS</u>	-	-	-	-NONE-	
	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	- - -		
	B-H	<u>INTEGRAL ATTACHMENTS FOR VESSELS</u>	-	-	-	-NONE-	

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 2

## 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 2

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S1.5

PAGE 1 OF 14

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)	85-W REPORT 85-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>					
		SAFETY LINES	ONE	2	-		
		SURGE LINE	TWO	1	-		
		RELIEF LINE	THREE	1	-		
		SPRAY LINE	THREE	1	-		
B5.140	B-F	<u>NOMINAL PIPE SIZE LESS THAN 4"</u>	-	-	-	-NONE-	

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 2

## INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S1.5

PAGE 2 OF 14

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.
B5.150	B-F	<u>SOCKET WELDS</u>	-	-	-	-NONE-	
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	- -		
			TWO THREE	4 4	- -		
		RESISTANCE TEMPERATURE DETECTOR - RETURN	THREE THREE	8 8	- -		
		PRESSURE SAFETY LINES	ONE TWO	12 12	- -		
	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-	

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 2

## INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S1.5

PAGE 3 OF 14

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 - -	1 - -	W-2	85-086, 073
		REACTOR VESSEL SAFETY INJECTION LOW HEAD B	ONE TWO THREE	- - 1	- - -	SOME OF THESE WELDS ARE ACCESSIBLE; OTHERS ARE LOCATED WITHIN THE CONCRETE SHIELD WALL.	
		<u>(6.0 IN. NOM. DIA. SYSTEMS)</u>					
		REACTOR VESSEL SAFETY INJECTION LOW HEAD A	ONE TWO THREE	- 1 1	- - -		
		REACTOR VESSEL SAFETY INJECTION LOW HEAD 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-2	85-066, 075
		PRESSURIZER SAFETY LINE A	ONE TWO THREE	1 3 1	- - -		

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 2

## INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S1.5

PAGE 4 OF 14

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	2 1 1	- - -		
		PLO-CAP LOOP A	ONE TWO THREE	- - 1	1 - -	W-1	85-103
		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	2 3 3	2 - -	W-17, 24	85-017,018,048,049
		RESIDUAL HEAT REMOVAL TAKE OFF LOOP B	ONE TWO THREE	3 2 3	- - -		
		<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 2	- - -		

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 2

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S1.5

PAGE 5 OF 14

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> <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  2 1 2  - - 1  - 1 -  1 - -  - - 1	- - -  1 - -  - - -  - - -	W-6	85-016,047



NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 2

## INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S1.5

PAGE 6 OF 14

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> <u>(31.0 IN. NOM. DIA. SYSTEMS)</u>  REACTOR CORE COOLANT CROSSOVER LINE A  REACTOR CORE COOLANT CROSSOVER LINE B	ONE TWO THREE	- 2 -	- - -		
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	-       - - -  - - -	-NONE-	

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 2

## INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE 51.5

PAGE 7 OF 14

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.
B9.21 & B9.22	B-J	CONT'D					
		(2.0 IN. NOM. DIA. SYSTEMS)					
		SEAL INJECTION LOOP A	ONE TWO THREE	3 3 4	1 - -	W-28	85-074
		SEAL INJECTION LOOP B	ONE TWO THREE	4 4 4	2 - -	W-27, 53	85-063, 145
		CHARGING LINE CVCS LOOP B	ONE TWO THREE	6 6 6	2 - -	W-42, 68	85-123, 071
		LETDOWN LINE CVCS LOOP B	ONE TWO THREE	1 2 2	- - -		
		AUXILIARY SPRAY TO PRESSURIZER	ONE TWO THREE	1 1 2	- - -		
		RESIDUAL TEMPERATURE DETECTOR TAKE OFF COLD LEG LOOP A	ONE TWO THREE	1 1 1	1 - -	W-16	85-108
		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	- - -		

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 2

## INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S1.5

PAGE 8 OF 14

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.
B9.21 & B9.22	B-J	<u>CONT'D</u>					
		RESIDUAL TEMPERATURE	ONE	1	-		
		DETECTOR TAKE OFF	TWO	1	-		
		HOT LEG LOOP B	THREE	2	-		
		SAFETY INJECTION	ONE	-	-		
		HIGH HEAD LOOP A	TWO	1	-		
			THREE	1	-		
		SAFETY INJECTION	ONE	1	1	W-4	85-078
		HIGH HEAD LOOP B	TWO	-	-		
			THREE	1	-		
		DRAIN ON CROSSOVER	ONE	1	-		
		LOOP A	TWO	1	-		
			THREE	1	-		
		REACTOR VESSEL SAFETY	ONE	1	-		
		INJECTION LOW HEAD	TWO	1	-		
		LOOP A	THREE	1	-		
		REACTOR VESSEL SAFETY	ONE	-	-		
		INJECTION LOW HEAD	TWO	1	-		
		LOOP B	THREE	1	-		
		<u>(3.0 IN. NOM. DIA. SYSTEMS)</u>					
		SPRAY TO PRESSURIZER	ONE	3	1	W-22	85-077
		BRANCH A	TWO	3	-		
			THREE	4	-		

MAJOR ITEM: PIPING PRESSURE BOUNDARY

FORM 17-2476 6/78

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 2

## INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S1.5

PAGE 10 OF 14

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	ONE   THREE   ONE   ONE  TWO  TWO  THREE	1   1   1   1  1  1  1	-   -   -   -  -  -  -	W-R	85-100,102
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	THREE   TWO	1   1	-   -		

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 2

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S1.5

PAGE 11 OF 14

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	ONE	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	ONE	1	1	W-R	85-109
		DRAIN ON CROSSOVER LOOP B	THREE	1	-		
		CHARGING LINE CVCS LOOP B	ONE	1	-		
		REACTOR VESSEL SAFETY INJECTION LOW HEAD A	TWO	1			
		REACTOR VESSEL SAFETY INJECTION LOW HEAD B	THREE	1	-		

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 2

## INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S1.5

PAGE 12 OF 14

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 2	- - -		
		DRAIN LINE AND LETDOWN LINE CVCS	ONE TWO THREE	1 1 1	1 - -	W-25	85-064
		AUXILIARY SPRAY TO PRESSURIZER	ONE TWO THREE	1 - -	- - -		
		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 2

## INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S1.5

PAGE 13 OF 14

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 - -	- - -		
		DRAIN ON CROSSOVER LOOP A	ONE TWO THREE	1 - -	- - -		
		REACTOR VESSEL SAFETY INJECTION LOW HEAD A	ONE TWO THREE	1 - -	1 - -	W-13	85-072
		REACTOR VESSEL SAFETY INJECTION LOW HEAD B	ONE TWO THREE	- - 1	- - -		

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 2

## INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S1.5

PAGE 14 OF 14

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 LOOP A & B	ONE TWO THREE	1 1 1	- - -		
		RESIDUAL HEAT REMOVAL TAKE OFF LOOP A	ONE TWO THREE	- - 1	- - -		
		RESIDUAL TEMPERATURE DETECTOR RETURN LOOP B	THREE	1	-		
	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>	*	-	-		

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 2

## INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S1.6

PAGE 1 OF 3  
REACTOR CORE COOLANT PUMPS

MAJOR ITEM:

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
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. 21</u>					
		FLANGE BOLTS	ONE TWO THREE	8 8 8	- - -		
B-6.190		<u>REACTOR CORE COOLANT PUMP NO. 22</u>					
		FLANGE BOLTS	ONE TWO THREE	8 8 8	8 - -	BOLTS 1-8	85-076
	B-G-1	<u>FLANGE SURFACE, WHEN CONNECTION DISASSEMBLED</u>					
		REACTOR CORE COOLANT PUMP NO. 21 & 22	*	-	-		IF DISASSEMBLED 100% OF SURFACE
B6.200	B-G-1	<u>NUTS, BUSHINGS AND WASHERS</u>					
		REACTOR CORE COOLANT PUMP NO. 21 & 22	*	-	-		* IF DISASSEMBLED 100% OF ALL ITEMS
	B-G-2	<u>PRESSURE RETAINING BOLTING, 2" AND LESS IN DIAMETER</u>					

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 2

## INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S1.6

PAGE 2 OF 3

MAJOR ITEM: REACTOR CORE COOLANT PUMPS

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
B7.60	B-G-2	<u>BOLTS, STUDS AND NUTS</u>  <u>SEAL HOUSE BOLTING</u>  RCP NO. 21	ONE TWO THREE	4 4 4	24 - -	12 UPPER AND 12 LOWER	85-098,099,104,106
		RCP NO. 22	ONE TWO THREE	4 4 4	20 - -	8 UPPER AND 12 LOWER	85-021,022,023,024
	B-K-1	<u>INTEGRAL ATTACHMENT FOR PUMPS</u>					
B10.20	B-K-1	<u>INTEGRALLY WELDED ATTACHMENTS</u>  REACTOR CORE COOLANT PUMP NO. 21	ONE TWO THREE	1 1 1	- - -		
		REACTOR CORE COOLANT PUMP NO. 22	ONE TWO THREE	1 1 1	- - -		
	B-L-1	<u>PRESSURE RETAINING WELDS IN PUMP CASINGS</u>					
B12.10	B-L-1	<u>PUMP CASING WELDS</u>  REACTOR CORE COOLANT PUMP NO. 21	*	-	-		*RELIEF NO. 63
		REACTOR CORE COOLANT PUMP NO. 22	*	-	-		*RELIEF NO. 63

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 2

## INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S1.6

PAGE 3 OF 3

MAJOR ITEM:

REACTOR CORE COOLANT PUMPS

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
B12.20	B-L-2	<u>PUMP CASINGS</u>					
		REACTOR CORE COOLANT PUMP NO. 21	*	-	-		* RELIEF NO. 63
		REACTOR CORE COOLANT PUMP NO. 22	*	-	-		* 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-
B15.61	B-P	<u>PRESSURE RETAINING BOUNDARY</u>	*	-	-		ANCE WITH IWA-5000 DURING EACH SYSTEM LEAKAGE TEST AND EACH SYSTEM HYDRO- STATIC TEST REQUIRED BY IWB-5000.
-	-	<u>PUMP FLYWHEELS</u>					
	*	PUMP NO. 21 & 22	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 2

## INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE 151.7 OF 4  
PAGE 1

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-1	PRESSURE RETAINING BOLTING, GREATER THAN 2" IN DIAMETER	-	-	-	-NONE-	85-130
	B-G-2	PRESSURE RETAINING BOLTING, 2" AND LESS IN DIAMETER					
	B-G-2	BOLTS, STUDS AND NUTS					
		ACCUMULATOR DISCHARGE LOOP A	ONE TWO THREE	16 - 16	16 - -	2-8841A	
		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	- - -		
		RESIDUAL HEAT REMOVAL TAKE OFF LOOP B	ONE ONE	16 16	- -		
		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 2

## INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE  
PAGE 251.7 OF 4

MAJOR ITEM: VALVE PRESSURE BOUNDARY

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



NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 2

## INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE  
PAGE 3<sup>51.7</sup> OF 4MAJOR ITEM: VALVE PRESSURE BOUNDARY

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
B7.70	B-G-2	<u>CONT'D</u>					
		PRESSURIZER RELIEF	ONE	12	12	2-8000B	85-139
			ONE	6	-		
			TWO	6	-		
			THREE	12	-		
		REACTOR VESSEL SAFETY	ONE	12	-		
		INJECTION LOW HEAD A	TWO	12	-		
		REACTOR VESSEL SAFETY	ONE	12	-		
		INJECTION LOW HEAD B	THREE	12	-		
		AUXILIARY SPRAY CVCS	THREE	6	-		
		DRAIN ON CROSSOVER	ONE	2	2	2-RC-1-2(T-58)	85-129
		LOOP A	TWO	-	-		
			THREE	2	-		
		DRAIN ON CROSSOVER	ONE	2	-		
		LOOP B	TWO	-	-		
			THREE	2	-		
		CHARGING LINE LOOP B	TWO	6	-		
			THREE	2	-		
		LETDOWN LINE CVCS	ONE	8	-		
		LOOP B	TWO	2	-		
			THREE	8	-		
		SEAL INJECTION	ONE	2	-		
		LOOP A					
		SEAL INJECTION	ONE	2	2	2-VC-7-19(T-58)	85-140
		LOOP B					

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 2

## INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE  
PAGE 451.7 OF 4

MAJOR ITEM: VALVE PRESSURE BOUNDARY

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

**NORTHERN STATES POWER COMPANY**  
**Prairie Island Unit II**

**TABLE S-II**

**Examination Comparison Summary**

SUB-ITEM	SYSTEM	CLASS	ISO	METH	ITEM	REPORT	PREVIOUS RESULTS	CURRENT RESULTS	LIMITATIONS
86.180	RC PUMP FLANGE BOLTS	I	2-ISI- 44	UTO	BOLTS 1-8	85-076	Results:NONE	Results:NONE	NONE
87.20	PZR	I	2-ISI- 35	VT1	MANWAY BOLT 1-5	85-138	Results:NONE	Results:NONE	NONE
87.30	STEAM GENERATORS	I	2-ISI- 37	UTO	BOLTS	85-105	Results:NONE	Results:NONE	NONE
87.30	STEAM GENERATORS	I	2-ISI- 37	MT	BOLTS 1-15	85-025	Results:NONE	Results:NONE	NONE
87.30	STEAM GENERATORS	I	2-ISI- 37	MT	BOLTS 1-16	85-026	Results:NONE	Results:NONE	NONE
87.30	STEAM GENERATORS	I	2-ISI- 37	MT	BOLTS 1-16	85-027	Results:NONE	Results:NONE	NONE
87.30	STEAM GENERATORS	I	2-ISI- 37	MT	BOLTS 1-16	85-028	Results:NONE	Results:NONE	NONE
87.30	STEAM GENERATORS	I	2-ISI- 37	UTO	BOLTS 1-31	85-031	Results:NONE	Results:NONE	NONE
87.30	STEAM GENERATORS	I	2-ISI- 37	UTO	BOLTS 1-32	85-030	Results:NONE	Results:NONE	NONE
87.60	RC PUMP SEAL HOUSE	I	2-ISI- 43	MT	12 BOLTS LOWER	85-098	Results:NONE	Results:NONE	NONE
87.60	RC PUMP SEAL HOUSE	I	2-ISI- 43	UTO	12 BOLTS LOWER	85-104	Results:NONE	Results:IND Scan: 11-12 Type: Amplitude: 80 Ax Loc: Circ Loc: Length:	NO SCAN SOCKET END
87.60	RC PUMP SEAL HOUSE	I	2-ISI- 43	MT	12 BOLTS UPPER	85-099	Results:NONE	Results:NONE	NONE
87.60	RC PUMP SEAL HOUSE	I	2-ISI- 43	UTO	12 BOLTS UPPER	85-106	Results:NONE	Results:NONE	NO SCAN SOCKET END
87.60	RC PUMP SEAL HOUSE	I	2-ISI- 43	MT	LOWER BOLTS	85-023	Results:NONE	Results:NONE	NONE
87.60	RC PUMP SEAL HOUSE	I	2-ISI- 43	UTO	LOWER BOLTS	85-022	Results:NONE	Results:IND Scan: 12 Type: Amplitude: Ax Loc: Circ Loc: Length:	NO SCAN SOCKET END
87.60	RC PUMP SEAL HOUSE	I	2-ISI- 43	MT	UPPER BOLTS	85-024	Results:NONE	Results:NONE	NONE
87.60	RC PUMP SEAL HOUSE	I	2-ISI- 43	UTO	UPPER BOLTS	85-021	Results:NONE	Results:IND Scan: 12 Type: Amplitude: 80 Ax Loc: Circ Loc: Length:	NO SCAN SOCKET END

**NORTHERN STATES POWER COMPANY**  
**Prairie Island Unit II**

**TABLE S-II**

**Examination Comparison Summary**

SUB-ITEM	SYSTEM	CLASS	ISO	METH	ITEM	REPORT	PREVIOUS RESULTS	CURRENT RESULTS	LIMITATIONS
B7.70	ACCUM DISCH A	I	2-1S1- 11	VT1	2-8841A	85-130	Results:NONE	Results:NONE	NONE
B7.70	CROSSOVER DRAIN A	I	2-1S1- 2	VT1	2-RC-1-2	85-129	Results:NONE	Results:NONE	NONE
B7.70	PZR RELIEF	I	2-1S1- 27	VT1	2-8000B	85-139	Results:NONE	Results:IND	NONE
								Type:	
								Ax Loc:	
								Circ Loc:	
								Length:	
B7.70	SEAL INJECTION B	I	2-1S1- 12	VT1	2-VC-7-19	85-140	Results:NONE	Results:NONE	NONE
B9.11	ACCUM DISCH B	I	2-1S1- 22	PT	W-6	85-016	Results:NONE	Results:NONE	NONE
B9.11	ACCUM DISCH B	I	2-1S1- 22	UT4	W-6	85-047	Results:NONE	Results:GEO	NONE
								Scan: 1	
								Type:GEOMETRY	
								Amplitude:<20	
								Ax Loc:	
								Circ Loc:360 INT.	
								Length:INTERMITT	
B9.11	ACCUM DISCH B	I	2-1S1- 22	UT4	W-6	85-047	Results:NONE	Results:GEO	NONE
								Scan: 2	
								Type:GEOMETRY	
								Amplitude:<20	
								Ax Loc:	
								Circ Loc:360 INT.	
								Length:INTERMITT.	
B9.11	CRD	I	2-1S1- 41A	UT4	H-5708-RV-Q	85-005	Results:N/A	Results:GEO	S-2 FLANGE
								Scan: 1	
								Type:GEOMETRY	
								Amplitude: 15	
								Ax Loc:	
								Circ Loc:360 INT.	
								Length:INTERMITT.	
B9.11	CRD	I	2-1S1- 41A	UT4	H-5708-RV-Q	85-005	Results:N/A	Results:GEO	S-2 FLANGE
								Scan: 1	
								Type:GEOMETRY	
								Amplitude: 8	
								Ax Loc:	
								Circ Loc:360 INT.	
								Length:INTERMITT.	

**NORTHERN STATES POWER COMPANY  
Prairie Island Unit II**

**TABLE S-II**

**Examination Comparison Summary**

SUB-ITEM	SYSTEM	CLASS	ISO	METH	ITEM	REPORT	PREVIOUS RESULTS	CURRENT RESULTS	LIMITATIONS
B9.11	CRD	I	2-ISI- 41A	UT4	H-5708-RV-Q	85-005	Results:N/A	Results:GEO Scan: 1 Type:GEOMETRY Amplitude: 18 Ax Loc: Circ Loc:360, INT. Length:INTERMITT.	S-2 FLANGE
B9.11	CRD	I	2-ISI- 41A	UT4	H-5708-RV-Q	85-005	Results:N/A	Results:GEO Scan: 2 Type:GEOMETRY Amplitude:<20 Ax Loc: Circ Loc:360 INT. Length:INTERMITT.	S-2 FLANGE
B9.11	CRD	I	2-ISI- 41A	UT4	H-5708-RV-Q	85-005	Results:N/A	Results:GEO Scan: 2 Type:GEOMETRY Amplitude:<20 Ax Loc: Circ Loc:360 INT. Length:INTERMITT.	S-2 FLANGE
B9.11	CRD	I	2-ISI- 41A	UT4	I-1743-RV-Q1	85-006	Results:N/A	Results:GEO Scan: 1 Type:GEOMETRY Amplitude:<20 Ax Loc: Circ Loc:360 INT. Length:INTERMITT.	S-2 FLANGE
B9.11	CRD	I	2-ISI- 41A	UT4	I-1743-RV-Q1	85-006	Results:N/A	Results:GEO Scan: 2 Type:GEOMETRY Amplitude: 18 Ax Loc: Circ Loc:360 INT Length:INTERMITT.	S-2 FLANGE

NORTHERN STATES POWER COMPANY  
Prairie Island Unit II

TABLE S-II

Examination Comparison Summary

SUB-ITEM	SYSTEM	CLASS	ISO	METH	ITEM	REPORT	PREVIOUS RESULTS	CURRENT RESULTS	LIMITATIONS
B9.11	CRD	I	2-ISI- 41A	UT4	W-2	85-097	Results:N/A	Results:GEO Scan: 2 Type:GEOMETRY Amplitude:<20 Ax Loc: Circ Loc: Length:360 INTER	NONE
B9.11	CRD	I	2-ISI- 41A	UT4	W-5	85-118	Results:N/A	Results:GEC Scan: 1 Type:GEOMETRY Amplitude:<20 Ax Loc: Circ Loc: Length:360 INTER	S-2 FLANGE
B9.11	CRD	I	2-ISI- 41A	UT4	W-5	85-118	Results:N/A	Results:GEO Scan: 1 Type:GEOMETRY Amplitude:<20 Ax Loc: Circ Loc: Length:360 INTER	S-2 FLANGE
B9.11	PLD CAP LOOP A	I	2-ISI- 9	UT4	W-1	85-103	Results:NONE	Results:GEO Scan: 2 Type:GEOMETRY Amplitude:<20 Ax Loc: Circ Loc: Length:360 INTER	NO S-1,1S,2S REDUCER
B9.11	RHR TAKE OFF A	I	2-ISI- 10B	PT	W-17	85-017	Results:NONE	Results:NONE	NONE
B9.11	RHR TAKE OFF A	I	2-ISI- 10B	UT4	W-17	85-049	Results:NONE	Results:GEO Scan: 1 Type:GEOMETRY Amplitude: 50 Ax Loc: Circ Loc:360 INT. Length:INTERMITT.	NONE

**NORTHERN STATES POWER COMPANY  
Prairie Island Unit II**

**TABLE S-II**

**Examination Comparison Summary**

SUB-ITEM	SYSTEM	CLASS	ISO	METH	ITEM	REPORT	PREVIOUS RESULTS	CURRENT RESULTS	LIMITATIONS
B9.11	RHR TAKE OFF A	I	2-1SI- 10B	UT4	W-17	85-049	Results:NONE	Results:GEO Scan: 2 Type:GEOMETRY Amplitude: 50 Ax Loc: Circ Loc:360 INT. Length:INTERMITT.	NONE
B9.11	RHR TAKE OFF A	I	2-1SI- 10C	PT	W-24	85-018	Results:NONE	Results:NONE	NONE
B9.11	RHR TAKE OFF A	I	2-1SI- 10C	UT4	W-24	85-048	Results:NONE	Results:GEO Scan: 1 Type:GEOMETRY Amplitude: 18 Ax Loc: Circ Loc:360 INT. Length:INTERMITT.	NONE
B9.11	RHR TAKE OFF A	I	2-1SI- 10C	UT4	W-24	85-048	Results:NONE	Results:GEO Scan: 2 Type:GEOMETRY Amplitude: 15 Ax Loc: Circ Loc:360 INT. Length:INTERMITT.	NONE
B9.11	RVSI LOW HEAD A	I	2-1SI- 29	PT	W-2	85-073	Results:NONE	Results:NONE	NONE
B9.11	RVSI LOW HEAD A	I	2-1SI- 29	UT4	W-2	85-086	Results:NONE	Results:GEO Scan: 1 Type:GEOMETRY Amplitude:<20 Ax Loc: Circ Loc: Length:INTERMITT.	NO S-2,3,4 4:00-8:00 BRK'T
B9.11	SEAL INJECTION A	I	2-1SI- 18	PT	W-28	85-074	Results:NONE	Results:NONE	NONE
B9.11	SIS HIGH HEAD B	I	2-1SI- 18	PT	W-2	85-066	Results:NONE	Results:NONE	NONE
B9.11	SIS HIGH HEAD B	I	2-1SI- 18	UT4	W-2	85-075	Results:NONE	Results:NONE	NO S-1,1S,2S VALVE
B9.21	CHARGING LINE (CVCS)	I	2-1SI- 13B	PT	W-42	85-123	Results:NONE	Results:NONE	NONE
B9.21	CHARGING LINE (CVCS)	I	2-1SI- 13C	PT	W-68	85-071	Results:NONE	Results:NONE	NONE



**NORTHERN STATES POWER COMPANY  
Prairie Island Unit II**

**TABLE S-II**

**Examination Comparison Summary**

SUB-ITEM	SYSTEM	CLASS	ISO	METH	ITEM	REPORT	PREVIOUS RESULTS	CURRENT RESULTS	LIMITATIONS
B9.21	PZR RELIEF B	I	2-ISI- 27	PT	W-12A	85-067	Results:NONE	Results:NONE	NONE
B9.21	RTD TAKE OFF A COLD	I	2-ISI- 3	PT	W-16	85-108	Results:NONE	Results:NONE	NONE
B9.21	SEAL INJECTION B	I	2-ISI- 12A	PT	W-53	85-145	Results:NONE	Results:NONE	NONE
B9.21	SEAL INJECTION B	I	2-ISI- 12B	PT	W-27	85-063	Results:NONE	Results:NONE	NONE
B9.21	SI HIGH HEAD B	I	2-ISI- 23	PT	W-4	85-078	Results:NONE	Results:NONE	NONE
B9.21	SPRAY/PZR BRANCH A	I	2-ISI- 7B	PT	W-22	85-077	Results:NONE	Results:NONE	NONE
B9.21	SPRAY/PZR BRANCH A	I	2-ISI- 7D	PT	W-13	85-065	Results:NONE	Results:NONE	NONE
B9.31	PLO CAP LOOP A	I	2-ISI- 9	PT	W-R	85-100	Results:NONE	Results:IND	NONE
								Type:LINEAR	
								Ax Loc:3/4" WCU	
								Circ Loc:21" CW 1200	
								Length:1/8" LENGTH	
B9.31	PLO CAP LOOP A	I	2-ISI- 9	UT4	W-R	85-102	Results:NONE	Results:NONE	NO S-1,1S,2S BRANCH S-3,4 LTD
B9.40	RVS1 LOW HEAD A	I	2-ISI- 25	PT	W-13	85-072	Results:NONE	Results:NONE	NONE
B9.40	XOVER DRAIN&LETDOWN	I	2-ISI- 16	PT	W-25	85-064	Results:NONE	Results:NONE	NONE
IWF	ACCUM DISCH A	I	2-ISI- 11	VT3	PRCVCH-1515 M	85-084	Results:NONE	Results:NONE	NONE

NORTHERN STATES POWER COMPANY  
Prairie Island Unit II  
Isometric Summary

CLASS 1

TABLE III  
Page 1 of 5

NSP ISO NUMBER	REVISION NUMBER	COMPONENT OR SYSTEM	LOOP DESIG	LINE NUMBER	LINE SIZE	WALL THICK	UT-CAL SID
2-ISI-1	0	SEAL INJECTION (GENERAL VIEW)	A	-	-	-	-
2-ISI-1A	0		A	1 1/2-2VC-21A	1 1/2"	.281"	1
2-ISI-1B	0		A	2-2VC-21A	2"	.344"	3
2-ISI-1C	0		A	2-2VC-21A	2"	.344"	3
2-ISI-2	0	CROSSOVER DRAIN	A	2-2RC-10A	2"	.344"	3
			A	2-2RC-11A	2"	.344"	3
2-ISI-3	0	RTD TAKEOFF COLD LEG	A	2-2RC-8A	2"	.344"	3
2-ISI-4	0	RTD TAKEOFF HOT LEG	A	2-2RC-7A	2"	.344"	3
2-ISI-5	1	SAFETY INJECTION HIGH HEAD	A	2-2SI-35A	2"	.344"	3
2-ISI-6	0	RTD RETURN	A	3-2RC-6A	3"	.438"	4
2-ISI-7	0	SPRAY TO PRESSURIZER (GENERAL VIEW)	A&B	-	-	-	-
2-ISI-7A	0		A	3-2RC-5	3"	.438"	4
2-ISI-7B	0		A	3-2RC-5	3"	.438"	4
2-ISI-7C	1		A	3-2RC-5	3"	.438"	4
2-ISI-7D	1		B	3-2RC-5	3"	.438"	4
2-ISI-8	1	SAFETY INJECTION HIGH HEAD	A	6-2RC-13B	6"	.719"	6
2-ISI-9	0	PLO-CAP	A	6-2RC-13A	6"	.719"	6
2-ISI-10	1	RHR TAKE OFF (GENERAL VIEW)	-	-	-	-	-
2-ISI-10A	1		A	8-2RC-15A	8"	.812"	8
2-ISI-10B	0		A	8-2RH-1A	8"	.812"	8
2-ISI-10C	1		A	8-2RH-1A	8"	.812"	8

NORTHERN STATES POWER COMPANY  
Prairie Island Unit II  
Isometric Summary

CLASS 1

TABLE III  
Page 2 of 5

NSP ISO NUMBER	REVISION NUMBER	COMPONENT OR SYSTEM	LOOP DESIGN	LINE NUMBER	LINE SIZE	WALL THICK	UT-CAL STD
2-ISI-11	1	ACCUMULATOR DISCHARGE	A	12-2RC-16A	12"	1.312"	11
			A	12-2SI-27A	12"	1.312"	11
2-ISI-12	0	SEAL INJECTION (GENERAL VIEW)	B	-	-	-	-
2-ISI-12A	0		B	2-2VC-21B	2"	.344"	3
2-ISI-12B	0		B	2-2VC-21B	2"	.344"	3
2-ISI-12C	0		B	1 1/2-2VC-21B	1 1/2"	.281"	1
2-ISI-13	1	CHARGING LINE (GENERAL VIEW)	B	-	-	-	-
2-ISI-13A	0		B	2-2RC-17	2"	.344"	3
2-ISI-13B	1		B	2-2VC-5	2"	.344"	3
2-ISI-13C	0		B	2-2VC-6	2"	.344"	3
2-ISI-13D	0		B	2-2VC-6	2"	.344"	3
2-ISI-14	0	RTD TAKE OFF COLD LEG	B	2-2RC-8B	2"	.344"	3
2-ISI-15	0	RTD TAKE OFF HOT LEG	B	2-2RC-7B	2"	.344"	3
2-ISI-16	0	CROSSOVER DRAIN AND LETDOWN	B	2-2RC-10B	2"	.344"	3
				2-2RC-11B	2"	.344"	3
				2-2RC-12	2"	.344"	3
2-ISI-17	0	RTD RETURN	B	3-2RC-6B	3"	.438"	4
2-ISI-18	1	SAFETY INJECTION HIGH HEAD	B	6-2RC-13D	6"	.719"	6
2-ISI-19	0	PLO-CAP	B	6-2RC-13C	6"	.719"	6
2-ISI-20	1	RHR TAKE OFF (GENERAL VIEW)	B	-	-	-	-
2-ISI-20A	1		B	8-2RC-15B	8"	.812"	8
2-ISI-20B	0		B	8-2RH-1B	8"	.812"	8
2-ISI-20C	1		B	8-2RH-1B	8"	.812"	8

NORTHERN STATES POWER COMPANY  
 Prairie Island Unit II  
 Isometric Summary

CLASS 1

TABLE III  
 Page 3 of 5

NSP ISO NUMBER	REVISION NUMBER	COMPONENT OR SYSTEM	LOOP DESIG	LINE NUMBER	LINE SIZE	WALL THICK	UT-CAL STD
2-ISI-21	1	RHR RETURN	B	10-2SI-26	10"	1.000"	10
2-ISI-22	1	ACCUMULATOR DISCHARGE	B	12-2RC-16B	12"	1.312"	11
			B	12-2SI-27B	12"	1.312"	11
2-ISI-23	0	SAFETY INJECTION HIGH HEAD	B	2-2SI-35B	2"	.344"	3
2-ISI-24	0	AUXILIARY SPRAY	-	2-2RC-19	2"	.344"	3
				2-2RC-4	2"	.344"	3
2-ISI-25	0	REACTOR VESSEL SAFETY INJECTION	A	2-2SI-24A	2"	.344"	3
2-ISI-26	1	REACTOR VESSEL SAFETY INJECTION	B	2-2SI-24B	2"	.344"	3
2-ISI-27	0	PRESSURIZER RELIEF	A&B	3-2RC-21	3"	.438"	4
2-ISI-28	1	REACTOR VESSEL SAFETY INJECTION	B	4-2RC-14B	4"	.531"	5
			B	6-2RC-14B	6"	.719"	6
			B	6-2SI-25B	6"	.719"	6
2-ISI-29	1	REACTOR VESSEL SAFETY INJECTION	A	4-2RC-14A	4"	.531"	5
			A	6-2RC-14A	6"	.719"	6
			A	6-2SI-25A	6"	.719"	6
2-ISI-30	1	PRESSURIZER SAFETY	A	6-2RC-20A	6"	.719"	6
			B	6-2RC-20B	6"	.719"	6
2-ISI-31	0	PRESSURIZER SURGE	B	10-2RC-4	10"	1.000"	10
2-ISI-32	1	REACTOR COOLANT	A	29-2RC-1A	29"	2.71"	15
			A	31-2RC-2A	31"	2.89"	15
			A	27 1/2-2RC-3A	27 1/2"	2.57"	15

NORTHERN STATES POWER COMPANY  
 Prairie Island Unit II  
 Isometric Summary

CLASS 1

TABLE III  
 Page 4 of 5

NSP ISO NUMBER	REVISION NUMBER	COMPONENT OR SYSTEM	LOOP DESIG	LINE NUMBER	LINE SIZE	WALL THICK	UT-CAL STD
2-ISI-33	1	REACTOR COOLANT	B	29-2RC-1B	29"	2.71"	15
			B	31-2RC-28	31"	2.89"	15
			B	27 $\frac{1}{2}$ -2RC-3B	27 $\frac{1}{2}$ "	2.57"	15
2-ISI-34	0	REGENATIVE HEAT EXCHANGER	-	-	TS to HD	.719"	6
2-ISI-35	0	PRESSURIZER SAFETY & RELIEF NOZZLES	-	-	-	-	-
2-ISI-36	0	PRESSURIZER	-		WELDS	4.4"	25A
					SKIRT	1.5"	16
2-ISI-37	1	STEAM GENERATORS	A&B		TS to HD	5.16"	25A
2-ISI-38	1	REACTOR VESSEL CONOSEAL BOLTING	-	-	-	-	-
2-ISI-39	0	REACTOR VESSEL STUDS, NUTS & WASHERS	-	-	-	-	Y-50
2-ISI-40	1	REACTOR VESSEL NOZZLES	-	-	-	-	-
2-ISI-41	1	REACTOR VESSEL HEAD WELD	-	-	-	5.512" to 6.299"	25A
2-ISI-42	0	REACTOR VESSEL SHELL WELDS	-	-	-	-	-
2-ISI-43	0	RC PUMP SEAL HOUSE BOLTING	A&B	-	-	-	-
2-ISI-44	0	RC PUMP FLANGE BOLTING	A&B	-	-	-	-
2-ISI-45	0	RC PUMP FLYWHEEL	A&B	-	-	-	-
2-ISI-46 CLASS I	0	EXCESS LETDOWN HEAT EXCHANGER	-	-	HD to FLG	.718"	6

NORTHERN STATES POWER COMPANY  
 Prairie Island Unit II  
 Isometric Summary

CLASS 1

TABLE III  
 Page 5 of 5

NSP ISO NUMBER	REVISION NUMBER	COMPONENT OR SYSTEM	LOOP DESIG	LINE NUMBER	LINE SIZE	WALL THICK	UT-CAL STD
		<u>SUPPORT COMPONENT PROGRAM</u>					
2-ISI-77A	0	STEAM GENERATORS (GENERAL VIEW)	-	-	-	-	-
2-ISI-77	0	STEAM GENERATOR SUPPORT BASE	A&B	-	-	-	-
2-ISI-78	0	STEAM GENERATOR SUPPORT TOP	A&B	-	-	-	-
2-ISI--79A	0	REACTOR COOLANT PUMPS (GENERAL VIEW)	A&B	-	-	-	-
2-ISI-79	0	REACTOR COOLANT PUMP SUPPORT BASE	A&B	-	-	-	-
2-ISI-80	0	REACTOR COOLANT PUMP SUPPORT TOP	A&B	-	-	-	-
2-ISI-81	0	RCP #22 LOWER LATERAL SUPPORT	B	-	-	-	-
2-ISI-84	0	RCP #21 LOWER LATERAL SUPPORT	A	-	-	-	-
2-ISI-85	1	STEAM GENERATOR UPPER SUPPORT	A&B	-	-	-	-
2-ISI-86	0	S/G UPPER SUPPORT SNUBBERS	A&B	-	-	-	-
2-ISI-86	0	S/G SUPPORT PAD TOP	A&B	-	-	-	-
2-ISI-88	0	PRESSURIZER BASE	-	-	-	-	-
2-ISI-89	0	ACCUMULATOR BASE	A&B	-	-	-	-

**APPENDIX B**

**ASME CLASS II EXAMINATIONS**



NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 2

## INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S2.1.1

PAGE 1 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.
C1.10	C-A	<u>PRESSURE RETAINING WELDS IN PRESSURE VESSELS</u>					
	C-A	<u>SHELL CIRCUMFERENTIAL WELDS</u>  STEAM GENERATOR NO. 21					
		WELD C	ONE	552"	-		
C1.20		WELD E	TWO	552"	-		
		STEAM GENERATOR NO. 22					
		WELD F	THREE	552"	-		
C1.20	C-A	<u>HEAD CIRCUMFERENTIAL WELDS</u>  STEAM GENERATOR NO. 22					
		WELD H	THREE	100%	-		
		STEAM GENERATOR NO. 22					
C1.30	C-A	<u>TUBESHEET TO SHELL WELD</u>  STEAM GENERATOR NO. 22					
		WELD B	THREE	100%	-		
		STEAM GENERATOR NO. 22					
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>	-	-	-	-NONE-	
	C-B	<u>NOZZLE WITHOUT REINFORCING PLATE IN VESSEL GREATER THAN 1/2" NOMINAL THICKNESS</u>					

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 2

## INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S2.1.1

PAGE 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. 21  MAIN STEAM NOZZLE FEEDWATER NOZZLE  STEAM GENERATOR NO. 22  MAIN STEAM NOZZLE FEEDWATER NOZZLE	TWO -  - THREE	1 -  - 1	- -  - -		
C2.22	C-B	<u>NOZZLE INSIDE RADIUS SECTION</u>  STEAM GENERATOR NO. 22  MAIN STEAM NOZZLE FEEDWATER NOZZLE  STEAM GENERATOR NO. 21  MAIN STEAM NOZZLE FEEDWATER NOZZLE	TWO   - 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 2

## 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 2

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S2.1.2PAGE 1 OF 2MAJOR 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. 21					
		WELD 2	TWO	1	-		
		WELD 5	-	-	-		
		ACCUMULATOR NO. 22					
		WELD 2	-	-	-		
		WELD 5	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>	-	-	-	-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. 21	-	-	-		
		ACCUMULATOR NO. 22	THREE	1	-		

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT

INSERVICE INSPECTION EXAMINATION SUMMARY

TABLE 52.1.2

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. 21	*	-	-		* RELIEF NO. 66
		ACCUMULATOR NO. 22	THREE	*1	-		
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 2

## INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S2.1.3  
PAGE 1 OF 2MAJOR 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. 21	THREE	*1	-		* RELIEF NO. 45
C1.20		RHR HEAT EXCHANGER NO. 22	-	-	-		
	C-A	<u>HEAD CIRCUMFERENTIAL WELDS</u>					
		RHR HEAT EXCHANGER NO. 21	-	-	-		
C2.10		RHR HEAT EXCHANGER NO. 22	THREE	*1	-		* RELIEF NO. 45
	C-B	<u>PRESSURE RETAINING NOZZLE WELDS IN VESSELS</u>					
	C-B	<u>NOZZLE IN VESSELS 1/2" AND LESS NOMINAL THICKNESS</u>					
C2.30		RHR HEAT EXCHANGER NO. 21					
		WELD 3	TWO	1	-		
		RHR HEAT EXCHANGER NO. 22					
C2.30		WELD 4	THREE	1	-		
	C-B	<u>NOZZLES WITH REINFORCING PLATE IN VESSELS GREATER THAN 1/2" NOMINAL THICKNESS</u>	-	-	-	-NONE-	

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT

INSERVICE INSPECTION-<sup>2</sup>EXAMINATION SUMMARY

TABLE 52.1.3

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. 21	TWO	1	-		
		RHR HEAT EXCHANGER NO. 22	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 2

## INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S2.1.4

PAGE 1 OF 1

MAJOR ITEM: PRESSURE VESSELS-BORIC ACID

SUB ITEM	EXAM 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. 21	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. 21	THREE	1	-		
	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 2

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S2.2

PAGE 1 OF 8

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.
C3.20	C-C	<u>INTEGRAL ATTACHMENTS FOR PIPING</u>					
	C-C	<u>INTEGRALLY WELDED ATTACHMENTS</u>					
		MAIN STEAM LOOP A	ONE TWO THREE	4 5 5	1 - -	I	85-036
		MAIN STEAM LOOP B	ONE TWO THREE	4 5 5	1 - -	D	85-037
		MAIN STEAM RELIEF HEADERS A & B	TWO THREE	1 1	- -		
		FEEDWATER LOOP A	ONE TWO THREE	3 3 3	1 - -	A	85-116,117
		FEEDWATER LOOP B	-	-	-		ALL ENCAPSULATED
		RHR PUMP SUCTION	ONE TWO THREE	- 1 1	- - -		
		RHR PUMP DISCHARGE	ONE	1	-		
		CONTAINMENT SUMP LOOP B DISCHARGE	-	-	-		EMBEDDED
		REACTOR VESSEL SAFETY INJECTION	ONE	1	-		

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 2

## INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S2.2

PAGE 2 OF 8

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	PRESSURE RETAINING BOLTING GREATER THAN 2" IN DIAMETER					
C4.20	C-D	BOLTS AND STUDS	-	-	-	-NONE-	
	C-F	PRESSURE RETAINING WELDS IN PIPING					
C5.10	C-F	PIPING WELDS 1/2" AND LESS NOMINAL WALL THICKNESS					
C5.11 & C5.12	C-F	CIRCUMFERENTIAL WELDS AND LONGITUDINAL WELDS					
		( '75 CATEGORY C-F)					
		RHR PUMP SUCTION	ONE	2	-		
		12-2RH-5A	TWO	-	-		
		12-2RH-5B	THREE	2	-		
		8-2RH-5A	ONE	-	-		
		8-2RH-5B	TWO	1	-		
			THREE	-	-		
		8-2RH-4A	ONE	1	-		
		8-2RH-4B	TWO	1	-		
		10-2RH-3	ONE	2	1	208	85-051
			THREE	4	-		

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NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 2

## INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S2.2PAGE 4 OF 8

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.
C5.11 & C5.12	C-F	CONT'D					
		( '75 CATEGORY C-F)					
		BORIC ACID SUPPLY TO SAFETY INJECTION 12-2SI-11	ONE TWO THREE	1 1 1	- - -		
		8-2SI-17*	ONE	3	-		*SAME LINE
		8-2SI-18*	TWO THREE	4 6	- -		*SAME LINE
		SAFETY INJECTION PUMP SUCTION					
		6-2RH-10B	ONE	3	1	W-155	85-128
		6-2RH-10A	TWO THREE	3 2	- -		
		BORIC ACID SUPPLY					
		8-2SI-18*	ONE	-	-		*SAME LINE
		8-VC-71C*	TWO THREE	3 1	- -		*SAME LINE
		MAIN STEAM A & B					
		6-2MS-1	ONE	1	-		
		6-2MS-2	TWO THREE	- 1	- -		

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 2

## INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S2.2PAGE 5 OF 8MAJOR 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.
C5.11 & C5.12	C-F	CONT'D					
		REFUELING WATER STORAGE TANK DISCHARGE					
		14-2SI-1	ONE	1	-		
			TWO	1	-		
			THREE	1	-		
		12-2SI-3A	TWO	1	-		
		12-2SI-3B					
		12-2SI-11	ONE	1	-		
			TWO	-	-		
			THREE	-	-		
		12-2SI-4	ONE	1	-		
			TWO	-	-		
			THREE	1	-		
		10-2SI-8	ONE	1	1	W-73	85-131
			TWO	1	-		
			THREE	1	-		

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 2

## INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S2.2

PAGE 6 OF 8

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.
C5.20	C-F	PIPING WELDS GREATER THAN <u>1/2" NOMINAL WALL THICKNESS</u>					
C5.21 & C5.22	C-F  C-F	<u>CIRCUMFERENTIAL WELDS</u> <u>AND</u> <u>LONGITUDINAL WELDS</u>  <u>('75 CATEGORY C-F)</u>  MAIN STEAM A & B					
		32-2MS-1	THREE	1	-		
		32-2MS-2					
		30-2MS-1	ONE	1	-		
		30-2MS-2	TWO	1	-		
			THREE	1	-		
		31-2MS-1	ONE	1	-		
		31-2MS-2	TWO	1	-		
			THREE	1	-		
		MAIN STEAM A & B RELIEF HEADER					
		30-2MS-1	ONE	-	-		
		30-2MS-2	TWO	1	-		
			THREE	1	-		



NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 2

## INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S2.2

PAGE 7 OF 8

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.
		FEEDWATER A & B					
		16-2FW-13*	ONE	2	2	FW-133,177	85-001,001R,002, 002R,007,008,009,010
		16-2FW-12*	TWO	1	-		*SAME LINE
		16-2FW-11*	THREE	2	-		*SAME LINE
		16-2FW-16**					**SAME LINE
		16-2FW-15**					**SAME LINE
		REACTOR VESSEL SAFETY INJECTION					
		6-2SI-25A	ONE	1	1	W-30	85-011,015
		6-SI-25B	TWO	2	-		
			THREE	-	-		
		ACCUMULATOR DISCHARGE					
		12-2SI-28A	ONE	1	1	W-6	85-038,050
		12-2SI-28B					
		12-2SI-29A	ONE	-	-		
		12-2SI-29B	TWO	-	-		
			THREE	1	-		

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 2

## INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S2,2

PAGE 8 OF 8

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.
C5.30	C-F	BRANCH PIPE CONNECTIONS GREATER THAN 4" NOMINAL BRANCH PIPE SIZE					
C5.31	C-F	CIRCUMFERENTIAL WELD  ( '75 CATEGORY C-G)  MAIN STEAM A & B RELIEF HEADER  30-2MS-1 30-2MS-2  FEEDWATER A & B  16-2FW-13 16-2FW-16	ONE TWO THREE	2 2 3	1 - -	MS-181B	85-012,019
C-5.32	C-F	LONGITUDINAL WELDS	-	-	-	-NONE-	
	C-H	ALL PRESSURE RETAINING COMPONENTS					
C7.30	C-H	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 IWC-5000.
C7.40	C-H	PRESSURE RETAINING BOUNDARY	*	-	-	-	

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 2

## INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S2.3

PAGE 1 OF 2

MAJOR ITEM: PUMPS

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
C3.30	C-C	<u>INTEGRAL ATTACHMENT FOR PUMPS</u>					
	C-C	<u>INTEGRALLY WELDED ATTACHMENTS</u>					
		RESIDUAL HEAT REMOVAL					
		PUMP NO. 21 PUMP NO. 22	ONE TWO THREE	- 1 1	- - -		
C4.30		SAFETY INJECTION					
		PUMP NO. 21 PUMP NO. 22	ONE TWO THREE	4 4 4	- - -		
	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. 21 & 22	THREE	1	-		

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 2

## INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S2.3PAGE 2 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.
C6.10	C-G	<u>CONT'D</u>  CASING TO FLANGE WELD ON SUCTION  PUMP NO. 21 & 22	TWO	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 2

## INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S2.4

PAGE 1 OF 1

MAJOR ITEM: VALVES

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
	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>	*	-	-	-	

NORTHERN STATES POWER COMPANY  
Prairie Island Unit II

TABLE S-II

Examination Comparison Summary

SUB-ITEM	SYSTEM	CLASS	ISO	METH	ITEM	REPORT	PREVIOUS RESULTS	CURRENT RESULTS	LIMITATIONS
C3.20	FEEDWATER A	II	2-ISI-48A	VT3	2-FW-1A A	85-117	Results:NONE	Results:IND Type: Ax Loc: Circ Loc: Length:	NONE
C3.20	FEEDWATER A	II	2-ISI-48A	VT3	FWH-66 A	85-116	Results:NONE	Results:NONE	UNINSULATED AREA ONLY
C3.20	MAIN STEAM A	II	2-ISI-46A	MT	MSH-38	85-141	Results:NONE	Results:NONE	NONE
C3.20	MAIN STEAM A	II	2-ISI-46A	VT3	MSH-38 I	85-036	Results:NONE	Results:NONE	UNINSULATED AREA ONLY
C3.20	MAIN STEAM B	II	2-ISI-47A	VT3	MSH-45 D	85-037	Results:N/A	Results:IND Type: Ax Loc: Circ Loc: Length:	ENDS ONLY, GUARD PIPE
C5.11	BORIC ACID TO SI	II	2-ISI-61	UT4	W-46F	85-132	Results:NONE	Results:GEO Scan: 1 Type:GEOMETRY Amplitude:<20 Ax Loc: Circ Loc: Length:360 INTER	HT 3:, 6:, 9: & 12:00
C5.11	BORIC ACID TO SI	II	2-ISI-61	UT4	W-47	85-133	Results:NONE	Results:GEO Scan: 1 Type:GEOMETRY Amplitude:<20 Ax Loc: Circ Loc: Length:360 INTER	HT 3:, 6:, 9: & 12:00
C5.11	BORIC ACID TO SI	II	2-ISI-61	UT4	W-47	85-133	Results:NONE	Results:GEO Scan: 2 Type:GEOMETRY Amplitude:<20 Ax Loc: Circ Loc: Length:360 INTER	HT 3:, 6:, 9: & 12:00
C5.11	BORIC ACID TO SI	II	2-ISI-61	UT4	W-48	85-134	Results:NONE	Results:GEO Scan: 1 Type:GEOMETRY Amplitude:<20 Ax Loc: Circ Loc: Length:360 INTER	HT 3:, 5:, 7: & 9:00

NORTHERN STATES POWER COMPANY  
Prairie Island Unit II

TABLE S-II

Examination Comparison Summary

SUB-ITEM	SYSTEM	CLASS	ISO	METH	ITEM	REPORT	PREVIOUS RESULTS	CURRENT RESULTS	LIMITATIONS
C5.11	BORIC ACID TO SI	II	2-ISI- 61	UT4	W-48	85-134	Results:NONE	Results:GEO Scan: 2 Type:GEOMETRY Amplitude:<20 Ax Loc: Circ Loc: Length:360 INTER	HT 3:, 5:, 7: & 9:00
C5.11	BORIC ACID TO SI	II	2-ISI- 61	UT4	W-52	85-135	Results:NONE	Results:GEO Scan: 1 Type:GEOMETRY Amplitude:<20 Ax Loc: Circ Loc: Length:360 INTER	HT 3:, 6:, 9: & 12:00
C5.11	BORIC ACID TO SI	II	2-ISI- 61	UT4	W-52	85-135	Results:NONE	Results:GEO Scan: 2 Type:GEOMETRY Amplitude:<20 Ax Loc: Circ Loc: Length:360 INTER	HT 3:, 6:, 9: & 12:00
C5.11	BORIC ACID TO SI	II	2-ISI- 61	UT4	W-55 F	85-137	Results:NONE	Results:GEO Scan: 1 Type:GEOMETRY Amplitude:<20 Ax Loc: Circ Loc: Length:360 INTER	S-1 8:-10:"T"IR HT 3:,4:,7:,9:
C5.11	BORIC ACID TO SI	II	2-ISI- 61	UT4	W-55 F	85-137	Results:NONE	Results:GEO Scan: 2 Type:GEOMETRY Amplitude:<20 Ax Loc: Circ Loc: Length:360 INTER	S-1 8:-10:"T"IR HT 3:,4:,7:,9:

NORTHERN STATES POWER COMPANY  
Prairie Island Unit II

TABLE S-II

Examination Comparison Summary

SUB-ITEM	SYSTEM	CLASS	ISO	METH	ITEM	REPORT	PREVIOUS RESULTS	CURRENT RESULTS	LIMITATIONS
CS.11	BORIC ACID TO SI	II	2-ISI- 61	UT4	W-62	85-136	Results:NONE	Results:GEO Scan: 1 Type:GEOMETRY Amplitude:<20 Ax Loc: Circ Loc: Length:360 INTER	HT 3:, 6:, 8: & 9:00
CS.11	BORIC ACID TO SI	II	2-ISI- 61	UT4	W-62	85-136	Results:NONE	Results:GEO Scan: 2 Type:GEOMETRY Amplitude:<20 Ax Loc: Circ Loc: Length:360 INTER	HT 3:, 6:, 8: & 9:00
CS.11	RHR PUMP B SUCTION	II	2-ISI-56	PT	W-171	85-126R	Results:NCNE	Results:NONE	NONE
CS.11	SAFETY INJECTION	II	2-ISI- 74	UT4	W-10	85-144	Results:N/A	Results:GEO Scan: 1 Type:GEOMETRY Amplitude:<20 Ax Loc: Circ Loc: Length:360 INTER	NO S2 2-4 & 8-10"HT HT 3,4,8,9
CS.11	SAFETY INJECTION	II	2-ISI- 74	UT4	W-10	85-144	Results:N/A	Results:GEO Scan: 2 Type:GEOMETRY Amplitude:<20 Ax Loc: Circ Loc: Length:360 INTER	NO S2 2-4 & 8-10"HT HT 3,4,8,9
CS.11	SAFETY INJECTION	II	2-ISI- 74	UT4	W-19F	85-143	Results:N/A	Results:GEO Scan: 1 Type:GEOMETRY Amplitude:<20 Ax Loc: Circ Loc: X Length:360 INTER	HT 3:, 4:, 6: & 9:00



NORTHERN STATES POWER COMPANY  
Prairie Island Unit II

TABLE S-II

Examination Comparison Summary

SUB-ITEM	SYSTEM	CLASS	ISO	METH	ITEM	REPORT	PREVIOUS RESULTS	CURRENT RESULTS	LIMITATIONS
CS.11	SAFETY INJECTION	II	2-ISI-74	UT4	W-19F	85-143	Results:N/A	Results:GEO Scan: 2 Type:GEOMETRY Amplitude:<20 Ax Loc: Circ Loc: X Length:360 INTER	HT 3:, 4:, 6: & 9:00
CS.11	SAFETY INJECTION	II	2-ISI-74	UT4	W-20	85-052	Results:N/A	Results:GEO Scan: 1 Type:GEOMETRY Amplitude: 50 Ax Loc: Circ Loc:360 INT. Length:INTERMITT.	NONE
CS.11	SAFETY INJECTION	II	2-ISI-74	UT4	W-20	85-052	Results:N/A	Results:GEO Scan: 1 Type:GEOMETRY Amplitude: 30 Ax Loc: Circ Loc:360 INT Length:INTERMITT.	NONE
CS.11	SAFETY INJECTION	II	2-ISI-74	UT4	W-20	85-052	Results:N/A	Results:GEO Scan: 2 Type:GEOMETRY Amplitude:<20 Ax Loc: Circ Loc:360 INT Length:INTERMITT	NONE
CS.11	SAFETY INJECTION	II	2-ISI-74	UT4	W-21 F	85-059	Results:N/A	Results:GEO Scan: 1 Type:GEOMETRY Amplitude:<20 Ax Loc: Circ Loc:360 INT. Length:INTERMITT	NONE

NORTHERN STATES POWER COMPANY  
Prairie Island Unit II

TABLE S-II

Examination Comparison Summary

SUB-ITEM	SYSTEM	CLASS	ISO	METH	ITEM	REPORT	PREVIOUS RESULTS	CURRENT RESULTS	LIMITATIONS
CS.11	SAFETY INJECTION	II	2-ISI- 74	UT4	W-21 F	85-059	Results:N/A	Results:GEO Scan: 1 Type:GEOMETRY Amplitude:<20 Ax Loc: Circ Loc:360 INT. Length:INTERMITT.	NONE
CS.11	SAFETY INJECTION	II	2-ISI- 74	UT4	W-21 F	85-059	Results:N/A	Results:GEO Scan: 2 Type:GEOMETRY Amplitude:<20 Ax Loc: Circ Loc:360 INT. Length:INTERMITT.	NONE
CS.11	SAFETY INJECTION	II	2-ISI- 74	UT4	W-21 F	85-059	Results:N/A	Results:GEO Scan: 2 Type:GEOMETRY Amplitude:<20 Ax Loc: Circ Loc:360 INT. Length:INTERMITT.	NONE
CS.11	SAFETY INJECTION	II	2-ISI- 74	UT4	W-23	85-060	Results:N/A	Results:GEO Scan: 1 Type:GEOMETRY Amplitude:<20 Ax Loc: Circ Loc:360 INT. Length:INTERMITT.	NONE
CS.11	SAFETY INJECTION	II	2-ISI- 74	UT4	W-23	85-060	Results:N/A	Results:GEO Scan: 2 Type:GEOMETRY Amplitude: 40 Ax Loc: Circ Loc:360 INT. Length:INTERMITT.	NONE

**NORTHERN STATES POWER COMPANY  
Prairie Island Unit II**

**TABLE S-II**

**Examination Comparison Summary**

SUB-ITEM	SYSTEM	CLASS	ISO	METH	ITEM	REPORT	PREVIOUS RESULTS	CURRENT RESULTS	LIMITATIONS
CS.11	SAFETY INJECTION	II	2-ISI-74	UT4	W-24	85-061	Results:N/A	Results:GEO Scan: 1 Type:GEOMETRY Amplitude:<20 Ax Loc: Circ Loc:360 INT. Length:INTERMITT	NONE
CS.11	SAFETY INJECTION	II	2-ISI-74	UT4	W-24	85-061	Results:N/A	Results:GEO Scan: 2 Type:GEOMETRY Amplitude:<20 Ax Loc: Circ Loc:360 INT. Length:INTERMITT	NONE
CS.11	SAFETY INJECTION	II	2-ISI-74	UT4	W-25 F	85-062	Results:N/A	Results:GEO Scan: 1 Type:GEOMETRY Amplitude: 30 Ax Loc: Circ Loc:360 INT. Length:INTERMITT	NONE
CS.11	SAFETY INJECTION	II	2-ISI-74	UT4	W-25 F	85-062	Results:N/A	Results:GEO Scan: 2 Type:GEOMETRY Amplitude: 15 Ax Loc: Circ Loc:360 INT. Length:INTERMITT	NONE
CS.11	SAFETY INJECTION	II	2-ISI-74	UT4	W-26	85-119	Results:N/A	Results:GEO Scan: 1 Type:GEOMETRY Amplitude:<20 Ax Loc: Circ Loc: Length:360 INTER	HEAT TRACE 3:, 4:, 7: & 9:00

NORTHERN STATES POWER COMPANY  
Prairie Island Unit II

TABLE S-II

Examination Comparison Summary

SUB-ITEM	SYSTEM	CLASS	ISO	METH	ITEM	REPORT	PREVIOUS RESULTS	CURRENT RESULTS	LIMITATIONS
C5.11	SAFETY INJECTION	II	2-1S1- 74	UT4	W-26	85-119	Results:N/A	Results:GEO Scan: 2 Type:GEOMETRY Amplitude:<20 Ax Loc: Circ Loc: Length:360 INTER	HEAT TRACE 3:, 4:, 7: & 9:00
C5.11	SAFETY INJECTION	II	2-1S1- 74	UT4	W-27	85-120	Results:N/A	Results:GEO Scan: 1 Type:GEOMETRY Amplitude:<20 Ax Loc: Circ Loc: Length:360 INTER	HEAT TRACE 3:, 4:, 7: & 9:00
C5.11	SAFETY INJECTION	II	2-1S1- 74	UT4	W-27	85-120	Results:N/A	Results:GEO Scan: 2 Type:GEOMETRY Amplitude:<20 Ax Loc: Circ Loc: Length:360 INTER	HEAT TRACE 3:, 4:, 7: & 9:00
C5.11	SAFETY INJECTION	II	2-1S1- 74	UT4	W-28	85-122	Results:N/A	Results:GEO Scan: 1 Type:GEOMETRY Amplitude:<20 Ax Loc: Circ Loc: Length:360 INTER	HEAT TRACE 3:, 4:, 7: & 9:00
C5.11	SAFETY INJECTION	II	2-1S1- 74	UT4	W-28	85-122	Results:N/A	Results:GEO Scan: 2 Type:GEOMETRY Amplitude:<20 Ax Loc: Circ Loc: Length:360 INTER	HEAT TRACE 3:, 4:, 7: & 9:00

NORTHERN STATES POWER COMPANY  
Prairie Island Unit II

TABLE S-II

Examination Comparison Summary

SUB-ITEM	SYSTEM	CLASS	ISO	METH	ITEM	REPORT	PREVIOUS RESULTS	CURRENT RESULTS	LIMITATIONS
C5.11	SAFETY INJECTION	II	2-1S1- 74	UT4	W-29	85-121	Results:N/A	Results:GEO Scan: 1 Type:GEOMETRY Amplitude:<20 Ax Loc: Circ Loc: Length:360 INTER	HEAT TRACE 3:, 4:, 7: & 9:00
C5.11	SAFETY INJECTION	II	2-1S1- 74	UT4	W-29	85-121	Results:N/A	Results:GEO Scan: 2 Type:GEOMETRY Amplitude:<20 Ax Loc: Circ Loc: Length:360 INTER	HEAT TRACE 3:, 4:, 7: & 9:00
C5.11	SAFETY INJECTION	II	2-1S1- 74	UT4	W-34	85-125	Results:N/A	Results:GEO Scan: 1 Type:GEOMETRY Amplitude:<20 Ax Loc: Circ Loc: Length:360 INTER	HT 3:, 4:, 6:, 8: EIR 4:-8:00
C5.11	SAFETY INJECTION	II	2-1S1- 74	UT4	W-34	85-125	Results:N/A	Results:GEO Scan: 2 Type:GEOMETRY Amplitude:<20 Ax Loc: Circ Loc: Length:360 INTER	HT 3:, 4:, 6:, 8: EIR 4:-8:00
C5.11	SAFETY INJECTION	II	2-1S1- 74	UT4	W-45	85-124	Results:N/A	Results:GEO Scan: 1 Type:GEOMETRY Amplitude:<20 Ax Loc: Circ Loc: Length:360 INTER	HT 3:, 4:, 7:, 9: EIR 4:-8:00

**NORTHERN STATES POWER COMPANY  
Prairie Island Unit II**

**TABLE S-II**

**Examination Comparison Summary**

SUB-ITEM	SYSTEM	CLASS	ISO	METH	ITEM	REPORT	PREVIOUS RESULTS	CURRENT RESULTS	LIMITATIONS
C5.11	SAFETY INJECTION	II	2-ISI- 74	UT4	W-45	85-124	Results:N/A	Results:GEO Scan: 2 Type:GEOMETRY Amplitude:<20 Ax Loc: Circ Loc: Length:360 INTER	HT 3:, 4:, 7:, 9: EIR 4:-8:00
C5.21	ACCUM DISCH	II	2-ISI- 75	UT4	W-6	85-050	Results:N/A	Results:GEO Scan: 1 Type:GEOMETRY Amplitude: 15 Ax Loc: Circ Loc:360 INT. Length:INTERMITT	NO S-2 VALVE
C5.21	FEEDWATER A	II	2-ISI- 48A	MT	FW-177	85-002R	Results:NONE	Results:NONE	NONE
C5.21	FEEDWATER A	II	2-ISI- 48A	UT4	FW-177	85-007	Results:GEO Scan:1 Type:GEOMETRY Amplitude: 45 Ax Loc: Circ Loc:360 INTER. Length:	Results:GEO Scan: 1 Type:GEOMETRY Amplitude: 45 Ax Loc: Circ Loc:360 INT Length:INTERMITT	S-2 DIFF. CAL
C5.21	FEEDWATER A	II	2-ISI- 48A	UT4	FW-177	85-010	Results:GEO Scan: 2 Type:GEOMETRY Amplitude: 20 Ax Loc: Circ Loc:360 INT Length:INTERMITT	Results:GEO Scan: 2 Type:GEOMETRY Amplitude: 25 Ax Loc: Circ Loc:360 INT. Length:INTERMITT	NO S-1 NOZZLE
C5.21	FEEDWATER B	II	2-ISI- 49A	MT	FW-133	85-001R	Results:NONE	Results:NONE	NONE
C5.21	FEEDWATER B	II	2-ISI- 49A	UT4	FW-133	85-008	Results:GEO Scan:1 Type:GEOMETRY Amplitude: 50 Ax Loc: Circ Loc:360 INTER. Length:	Results:GEO Scan: 1 Type:GEOMETRY Amplitude: 50 Ax Loc: Circ Loc:360 INT Length:INTERMITT	S-2 DIFF. CAL

NORTHERN STATES POWER COMPANY  
Prairie Island Unit II

TABLE S-II

Examination Comparison Summary

SUB-ITEM	SYSTEM	CLASS	ISO	METH	ITEM	REPORT	PREVIOUS RESULTS	CURRENT RESULTS	LIMITATIONS
C5.21	FEEDWATER B	II	2-ISI- 49A	UT4	FW-133	85-009	Results:GEO Scan: 2 Type:GEOMETRY Amplitude: 25 Ax Loc: Circ Loc:360 INTER. Length:	Results:GEO Scan: 2 Type:GEOMETRY Amplitude: 25 Ax Loc: Circ Loc:360 INT. Length:INTERMITT.	NO S-1 NOZZLE
C5.21	RVS1	II	2-ISI- 70	PT	W-30	85-015	Results:N/A	Results:IND Type:LINEAR Ax Loc:CL - 0.5" Circ Loc:11" CW Length:0.25"	NONE
C5.21	RVS1	II	2-ISI- 70	UT4	W-30	85-011	Results:N/A	Results:GEO Scan: 1 Type:GEOMETRY Amplitude: 12 Ax Loc: Circ Loc:360 INT. Length:INTERMITT.	S-1 4:00 TO 8:00 EIR
C5.21	RVS1	II	2-ISI- 70	UT4	W-30	85-011	Results:N/A	Results:GEO Scan: 2 Type:GEOMETRY Amplitude: 25 Ax Loc: Circ Loc:360 INT Length:INTERMITT	S-1 4:00 TO 8:00 EIR
C5.21	RVS1	II	2-ISI- 70	UT4	W-30	85-011	Results:N/A	Results:GEO Scan: 3S Type:GEOMETRY Amplitude: 10 Ax Loc: Circ Loc:360 CONT. Length:CONTINUOUS	S-1 4:00 TO 8:00 EIR
C5.21	RVS1	II	2-ISI- 70	UT4	W-30	85-011	Results:N/A	Results:GEO Scan: 2 Type:GEOMETRY Amplitude: 5 Ax Loc: Circ Loc:360 INT Length:INTERMITT.	S-1 4:00 TO 8:00 EIR

**NORTHERN STATES POWER COMPANY  
Prairie Island Unit II**

**TABLE S-II**

**Examination Comparison Summary**

SUG-ITEM	SYSTEM	CLASS	ISO	METH	ITEM	REPORT	PREVIOUS RESULTS	CURRENT RESULTS	LIMITATIONS
C5.21	RVSI	II	2-ISI- 70	UT4	W-30	85-011	Results:N/A	Results:GEO Scan: 4S Type:GEOMETRY Amplitude: 10 Ax Loc: Circ Loc:360 CONT. Length:CONTINUOUS	S-1 4:00 TO 8:00 EIR
C5.31	MAIN STEAM B	II	2-ISI- 47B	MT	MS-181B	85-012	Results:NONE	Results:IND Type:LINEAR Ax Loc:CL + 1" Circ Loc:6:00 + 1" Length:0.5"	NONE
C5.31	MAIN STEAM B	II	2-ISI- 47B	UT4	MS-181B	85-019	Results:NONE	Results:NONE	NO SCAN 10:-2: BRKT NO S-2 FLG



NORTHERN STATES POWER COMPANY  
Prairie Island Unit II  
Isometric Summary

CLASS II

TABLE III  
Page 1 of 4

NSP ISO NUMBER	REVISION NUMBER	COMPONENT OR SYSTEM	LOOP DESIG	LINE NUMBER	LINE SIZE	WALL THICK	UT-CAL STD
2-ISI-37	0	STEAM GENERATOR	A&B	-	SHELL - SHL to TRANS TRANS to SHL SHL to HD TS to SHL MS NO Z	2.82" 2.82" to 3.68" 3.68" to 3.62" 3.62" 3.25" 3.62"	26 26 26 26 26 26 26
2-ISI-46	0	MAIN STEAM (GENERAL VIEW)	-	-	-	-	-
2-ISI-46A	0		A	32-2MS-1	32"	-	No. _____
2-ISI-46B	0		A	31-2MS-1	31"	1.534"	24
			A	30-2MS-1	30"	1.045"	23
			A	6-2MS-1	6"	.432"	7
2-ISI-47	0	MAIN STEAM (GENERAL VIEW)	-	-	-	-	-
2-ISI-47A	0		B	32-2MS-2	32"	-	No. _____
2-ISI-47B	0		B	31-2MS-2	31"	1.534"	24
			B	30-2MS-2	30"	1.045"	23
			B	6-2MS-2	6"	.432"	7
2-ISI-48	0	FEEDWATER (GENERAL VIEW)	-	-	-	-	-
2-ISI-48A	0		A	16-2FW-13	16"	1.031"	13/36
2-ISI-48B	0		A	16-2FW-12	16"	1.438"	21
			A	16-2FW-11	16"	1.031"	13
			A	3-2AF-11	8"	.594"	NO. _____
2-ISI-49	0	FEEDWATER (GENERAL VIEW)	-	-	-	-	-
2-ISI-49A	0		B	16-2FW-16	16"	1.031"	13/36
2-ISI-49B	0		B	16-2FW-15	16"	1.438"	21
			B	3-2AF-12	8"	.594"	NO. _____

NORTHERN STATES POWER COMPANY  
 Prairie Island Unit II  
 Isometric Summary

CLASS II

TABLE III  
 Page 2 of 4

NSP ISO NUMBER	REVISION NUMBER	COMPONENT OR SYSTEM	LOOP DESIG	LINE NUMBER	LINE SIZE	WALL THICK	UT-CAL STD
2-ISI-50	2	RHR PUMP B SUCTION (WELDS)	B	10-2RH-3	10"	.365"	22
2-ISI-51	2	RHR PUMP B SUCTION (HANGERS)	B	8-2RH-4B	8"	.322"	29
			B	8-2RH-5B	8"	.322"	29
			B	12-2RH-5B	12"	.375"	32
			B	10-2SI-9B	10"	.365"	22
2-ISI-52	2	RHR PUMP A SUCTION (WELDS)	A	8-2RH-4A	8"	.322"	29
2-ISI-53	2	RHR PUMP A SUCTION (HANGERS)	A	8-2RH-5A	8"	.322"	29
			A	12-2RH-5A	12"	.375"	32
			A	10-2SI-9A	10"	.365"	22
2-ISI-54	2	RHR PUMP B DISCHARGE (WELDS)	B	8-2RH-7B	8"	.322"	29
2-ISI-55	1	RHR PUMP B DISCHARGE (HANGERS)	B	8-2RH-9B	8"	.322"	29
			B	6-2SI-10B	6"	.280"	27
2-ISI-56	2	RHR PUMP A DISCHARGE (WELDS)	A	8-2RH-7A	8"	.322"	29
2-ISI-57	1	RHR PUMP A DISCHARGE (HANGERS)	A	8-2RH-9A	8"	.322"	29
			A	6-2SI-11	10"	.365"	22
2-ISI-58	1	CONTAINMENT SUMP B DISCHARGE	B	12-2RH-6B	12"	.375"	32
			B	14-2SI-33B	14"	.250"	34
			B	12-2SI-34B	12"	.375"	32
2-ISI-59	2	CONTAINMENT SUMP B DISCHARGE	A	12-2RH-6A	12"	.375"	32
			A	14-2SI-33A	14"	.250"	34
			A	12-2SI-34A	12"	.375"	32
2-ISI-60	2	SAFETY INJECTION PUMPS SUCTION	A&B	6-2SI-13A	6"	.134"	28
				6-2SI-13B	6"	.134"	28

NORTHERN STATES POWER COMPANY  
 Prairie Island Unit. II  
 Isometric Summary

CLASS II

TABLE III  
 Page 3 of 4

NSP ISO NUMBER	REVISION NUMBER	COMPONENT OR SYSTEM	LOOP DESIG	LINE NUMBER	LINE SIZE	WALL THICK	UT-CAL STD
2-ISI-61	2	BORIC ACID SUPPLY TO SAFETY INJECTION	-	12-2SI-11 8-2SI-17 8-2SI-18	12" 8" 8"	.180" .148" .148"	33 30 30
2-ISI-62	1	SAFETY INJECTION PUMP 22 SUCTION (WELDS)	B	6-2RH-10B	6"	.280"	27
2-ISI-63	1	SAFETY INJECTION PUMP 22 SUCTION (HANGERS)					
2-ISI-64	1	SAFETY INJECTION PUMP 21 SUCTION (WELDS)	A	6-2RH-10A	6"	.280"	27
2-ISI-65	1	SAFETY INJECTION PUMP 21 SUCTION (HANGERS)					
2-ISI-66	1	REFUELING WATER STORAGE TANK DISCHARGE (WELDS)	-	14-2SI-1 12-2SI-3A	14" 12"	.250" .180"	33
2-ISI-67	1	REFUELING WATER STORAGE TANK DISCHARGE (HANGERS)	-	14-2SI-3B 12-2SI-4 10-2SI-8 12-2SI-11	12" 12" 10" 12"	.180" .180" .165" .180"	33 33 31 33
2-ISI-68	1	BORIC ACID TANK 21	21	-	SHELL	.312"	No. _____
2-ISI-69	1	RESIDUAL HEAT EXCHANGERS	21 22	- -	BOT HD HEAD HEAD	.375" .500" .500"	No. _____ No. _____ No. _____
2-ISI-70	1	REACTOR VESSEL SAFETY INJECTION (WELDS)	B	6-2SI-25B	6"	.719"	6
2-ISI-71	1	REACTOR VESSEL SAFETY INJECTION (HANGERS)					

NORTHERN STATES POWER COMPANY  
 Prairie Island Unit II  
 Isometric Summary

CLASS II

TABLE III  
 Page 4 of 4

NSP ISO NUMBER	REVISION NUMBER	COMPONENT OR SYSTEM	LOOP DESIG	LINE NUMBER	LINE SIZE	WALL THICK	UT-CAL STD
2-ISI-72	1	REACTOR VESSEL SAFETY INJECTION (WELDS)	A	6-2SI-25A	6"	.719"	6
2-ISI-73	1	REACTOR VESSEL SAFETY INJECTION (HANGERS)	-	8-2SI-18	8"	.148"	30
2-ISI-74	1	BORIC ACID SUPPLY (WELDS)	-	12-2SI-28A	12"	1.312"	11
2-ISI-75	2	ACCUMULATOR DISCHARGE	A	12-2SI-29A	12"	1.312"	11
			B	12-2SI-28B	12"	1.312"	11
			B	12-2SI-29B	12"	1.312"	11
2-ISI-76	1	ACCUMULATOR TANKS	21&22 21&22	- -	SHELL HEAD	2.75" 1.39"	No. — No. —

APPENDIX C

FSAR AUGMENTED EXAMINATIONS

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 2

## 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		<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>					
		MAIN STEAM A & B	ONE	1	1	MS-35	85-142
		6-2MS-1	TWO	-	-		
		5-2MS-1	THREE	1	-		
C5.20	C-F	<u>PIPING WELDS GREATER THAN 1/2" NOMINAL THICKNESS</u>					
C5.21 & C5.22	C-F	<u>CIRCUMFERENTIAL WELDS AND LONGITUDINAL WELDS</u>					
		MAIN STEAM A	ONE	1	-		
		31-2MS-1	TWO	1	-		
			THREE	2	-		
		MAIN STEAM B	*	-	-		* ENCAPSULATED
		31-2MS-2					
		MAIN STEAM A	ONE	1	-		
		RELIEF HEADER	TWO	-	-		
		30-2MS-1	THREE	-	-		
		MAIN STEAM B	ONE	-	-		
		RELIEF HEADER	TWO	1	-		
		30-2MS-2	THREE	1	-		

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 2

## INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE FSAR

PAGE 2 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	<u>CONT'D</u>					
		MAIN STEAM A	ONE	1	1	MS-52	85-013,029
		30-2MS-1	TWO	1	-		
		30-2MS-3	THREE	1	-		
		MAIN STEAM B	ONE	-	-		
		30-2MS-2	TWO	1	-		
		30-2MS-4	THREE	1	-		
		MAIN STEAM A	ONE	1	1	MS-56	85-014,020
		24-2MS-21	TWO	1	-		
			THREE	-	-		
		MAIN STEAM B	ONE	-	-		
		24-MS-24	TWO	-	-		
			THREE	1	-		
		MAIN STEAM A	ONE	-	-		
		8-2MS-1	TWO	1	-		
			THREE	-	-		
		MAIN STEAM B	ONE	-	-		
		8-2MS-24	TWO	-	-		
			THREE	1	-		

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 2

## 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	ONE	1	-		
		16-2FW-8	TWO	1	-		
			THREE	3	-		
		FEEDWATER B	ONE	-	-		
		16-2FW-8	TWO	1	-		
			THREE	2	-		
		FEEDWATER A	ONE	1	-		
		16-2FW-9	TWO	-	-		
		16-2FW-11	THREE	1	-		
		16-2FW-12					
		FEEDWATER B	ONE	1	-		
		16-2FW-10	TWO	-	-		
		16-2FW-10	THREE	1	-		
		16-2FW-15					
C5.30	C-F	PIPE BRANCH CONNECTIONS GREATER THAN 4" NOMINAL BRANCH PIPE SIZE					
C5.31	C-F	CIRCUMFERENTIAL WELDS					
		MAIN STEAM A	ONE	1	-		
		RELIEF HEADER	TWO	1	-		
		(AT 12") 30-2MS-1	THREE	1	-		
		MAIN STEAM B	ONE	-	-		
		RELIEF HEADER	TWO	1	-		
		(AT 12") 30-2MS-2	THREE	1	-		
		MAIN STEAM A & B	ONE	-	-		
		24-2MS-21	TWO	-	-		
		24-2MS-24	THREE	1	-		



NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 2

## 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>	-	-		Included with C5.31	

**NORTHERN STATES POWER COMPANY  
Prairie Island Unit II**

**TABLE S-II**

**Examination Comparison Summary**

SUB-ITEM	SYSTEM	CLASS	ISO	METH	ITEM	REPORT	PREVIOUS RESULTS	CURRENT RESULTS	LIMITATIONS
C5.11	MAIN STEAM A	FSAR	2-1S1- 46B	MT	MS-35	85-142	Results:NONE	Results:NONE	NONE
C5.21	MAIN STEAM A	FSAR	2-1S1- 46C	MT	MS-52	85-013	Results:NONE	Results:NONE	NONE
C5.21	MAIN STEAM A	FSAR	2-1S1- 46C	UT4	MS-52	85-029	Results:NONE	Results:GEO Scan: 1 Type:GEOMETRY Amplitude:<50 Ax Loc: Circ Loc:360 INT. Length:INTERMITT.	NONE
C5.21	MAIN STEAM A	FSAR	2-1S1- 46C	UT4	MS-52	85-029	Results:NONE	Results:GEO Scan: 1 Type:GEOMETRY Amplitude:<50 Ax Loc: Circ Loc:360 INT. Length:INTERMITT.	NONE
C5.21	MAIN STEAM A	FSAR	2-1S1- 46C	UT4	MS-52	85-029	Results:NONE	Results:GEO Scan: 1 Type:GEOMETRY Amplitude:<50 Ax Loc: Circ Loc:360 INT. Length:INTERMITT.	NONE
C5.21	MAIN STEAM A	FSAR	2-1S1- 46C	UT4	MS-52	85-029	Results:NONE	Results:GEO Scan: 2 Type:GEOMETRY Amplitude:<50 Ax Loc: Circ Loc:360 INT. Length:INTERMITT.	NONE
C5.21	MAIN STEAM A	FSAR	2-1S1- 46C	UT4	MS-52	85-029	Results:NONE	Results:GEO Scan: 2 Type:GEOMETRY Amplitude:<50 Ax Loc: Circ Loc:360 INT. Length:INTERMITT.	NONE

NORTHERN STATES POWER COMPANY  
Prairie Island Unit II

TABLE S-II

Examination Comparison Summary

SUB-ITEM	SYSTEM	CLASS	ISO	METH	ITEM	REPORT	PREVIOUS RESULTS	CURRENT RESULTS	LIMITATIONS
C5.21	MAIN STEAM A	FSAR	2-ISI- 46C	UT4	MS-52	85-029	Results:NONE	Results:IND Scan: 3 Type:LINEAR Amplitude: 5 Ax Loc:CL - 0.25" Circ Loc: 92.5" Length:0.25"	NONE
C5.21	MAIN STEAM A	FSAR	2-ISI- 46C	UT4	MS-52	85-029	Results:NONE	Results:IND Scan: 4 Type:LINEAR Amplitude: 19 Ax Loc:CL - 0.25" Circ Loc:95.25" Length:0.25"	NONE
C5.21	MAIN STEAM A	FSAR	2-ISI- 46D	MT	MS-56	85-014	Results:NONE	Results:NONE	NONE
C5.21	MAIN STEAM A	FSAR	2-ISI- 46D	UT4	MS-56	85-020	Results:NONE	Results:GEO Scan: 2 Type:GEOMETRY Amplitude: 40 Ax Loc: Circ Loc:360 INT Length:INTERMITT.	S-4 "T" 4:00-8:00, 10:00-2:00
C5.21	MAIN STEAM A	FSAR	2-ISI- 46D	VT1	MS-56	85-020	Results:NONE	Results:IND Type:MULTIPLE Ax Loc:CL-.75-1.5 Circ Loc:9"to10.38" Length:0.25"	NONE
C5.21	MAIN STEAM A	FSAR	2-ISI- 46D	VT1	MS-56	85-020	Results:NONE	Results:IND Type:ARC STRIKE Ax Loc:CL + 1" Circ Loc:10.38" CW Length: 1"	NONE

NORTHERN STATES POWER COMPANY  
 Prairie Island Unit II  
 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 STD
2-ISI-46	0	MAIN STEAM (GENERAL VIEW)	-	-	-	-	-
2-ISI-46B	0		A	31-2MS-1	31"	1.534"	24
2-ISI-46C	0		A	31-2MS-1	30"	1.045"	23
2-ISI-46D	0		A	30-2MS-3	30"	1.045"	23
			A	24-2MS-21	24"	1.219"	20
			A	12-2MS-3	12"	.688"	No. _____
			A	8-2MS-21	8"		No. _____
			A	6-2MS-1	6"	.432"	7
2-ISI-47	0	MAIN STEAM (GENERAL VIEW)	-	-	-	-	-
2-ISI-47B	0		B	31-2MS-2	31"	1.534"	24
2-ISI-47C	0		B	30-2MS-2	30"	1.045"	23
			B	30-2MS-4	30"	1.045"	23
			B	24-2MS-24	24"	1.219"	20
			B	12-2MS-4	12"	.688"	No. _____
			B	6-MS-2	7"	.432"	7
2-ISI-48	0	FEEDWATER (GENERAL VIEW)	-	-	-	-	-
2-ISI-48B	0		A	16-2FW-12	16"	1.438"	21
2-ISI-48C	0		A	16-2FW-11	16"	1.031"	13
			A	16-2FW-9	16"	1.031"	13
			A	16-2FW-8	16"	1.031"	13
2-ISI-49	0	FEEDWATER (GENERAL VIEW)	-	-	-	-	-
2-ISI-49B	0		B	16-2FW-15	16"	1.438"	21
2-ISI-49C	0		B	16-2FW-14	16"	1.031"	13
			B	16-2FW-10	16"	1.031"	13
			B	16-2FW-8	16"	1.031"	13

APPENDIX D  
COMPONENT SUPPORTS

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 2

## INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE SC1.1

PAGE 1 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.
*	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	- - -		
		<u>STEAM GENERATORS</u>					
		S/G NO. 21					
		UPPER RING GIRDER (SNUBBER PINS)	ONE TWO THREE	- - 4	- - -		
		UPPER RING GIRDER (SNUBBER WALL BOLTS)	ONE TWO THREE	15 - -	- - -		
		UPPER RING GIRDER (WALL BOLTS)	ONE TWO THREE	30 - -	- - -		

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 2

## INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE CS1.1

PAGE 2 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.
		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	16 - -	COL. 2 & 3	85-056, 057
		TOP COLUMN CONNECTING BOLTS	ONE TWO THREE	4 8 4	- - -		
		SUPPORT PAD HELICOIL SCREWS	ONE TWO THREE	6 6 12	- - -		
		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 2

## INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE SC1.1

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. 22					
		UPPER RING GIRDER (SNUBBER PINS)	ONE TWO THREE	- - 4	- - -		
		UPPER RING GIRDER (SNUBBER WALL BOLTS)	ONE TWO THREE	15 - -	- - -		
		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	16 - -	COL. 2 & 3	85-053, 054



NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 2

## INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE SCS1.1

PAGE 4 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.
		TOP COLUMN CONNECTING BOLTS	ONE TWO THREE	4 8 4	- - -		
		SUPPORT PAD HELICOIL SCREWS	ONE TWO THREE	6 12 6	- - -		
		LOWER LATERAL SUPPORT ANCHOR WALL BOLTS	ONE TWO THREE	- - 54	- - -		
		LATERAL SUPPORT WALL BOLTS	ONE TWO THREE	12 - -	- - -		
		CONNECTING BOLTS IN LATERAL BEAM	ONE TWO THREE	- 16 -	- - -		
		<u>PUMPS</u>					
		REACTOR CORE COOLANT					
		PUMP NO. 21					
		COLUMN PINS	ONE TWO THREE	2 2 2	- - -		
		BASE ANCHOR BOLTS	ONE TWO THREE	8 8 8	8 - -	COL. 3	85-058

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 2

## INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE SCS1.1

PAGE 5 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.
		COLUMN CONNECTING BOLTS	ONE TWO THREE	4 4 4	- - -		
		TIE BACK BOLTS	ONE TWO THREE	1 1 1	- - -		
		TIE BACK PINS	ONE TWO THREE	1 1 1	- - -		
		THROUGH ANCHOR BOLTS	THREE	6	-		
		LATERAL SUPPORT AND WALL BOLTS	ONE TWO THREE	6 4 -	- - -		
		REACTOR CORE COOLANT PUMP NO. 22					
		COLUMN PINS	ONE TWO THREE	2 2 2	- - -		
		BASE ANCHOR BOLTS	ONE TWO THREE	8 8 8	8 - -	COL. 3	85-055
		COLUMN CONNECTING BOLTS	ONE TWO THREE	4 4 4	- - -		

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 2

## 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	1 - -	COL. 1	85-039
		THROUGH ANCHOR BOLTS	ONE TWO THREE	- - 6	- - -		
		LATERAL SUPPORT AND WALL BOLTS	ONE TWO THREE	6 4 -	- - -		
		<u>PIPING</u>					
		SEAL INJECTION LOOP A	ONE TWO THREE	6 6 6	2 - -	N, P1	85-084, 089
		DRAIN ON CROSSOVER LOOP A	THREE	1			
		RESIDUAL TEMPERATURE DETECTOR TAKE OFF COLD LEG LOOP A	ONE TWO THREE	1 1 2	- - -		
		RESIDUAL TEMPERATURE DETECTOR TAKE OFF HOT LEG LOOP A	ONE TWO THREE	2 3 3	- - -		
		SAFETY INJECTION HIGH HEAD LOOP A	ONE TWO THREE	1 1 2	1 - -	C	85-082, 082R

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 2

## INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE SCS1.1

PAGE 7 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.
		RESIDUAL TEMPERATURE DETECTOR RETURN LOOP A	ONE TWO THREE	1 1 1	- - -		
		SPRAY TO PRESSURIZER BRANCH A	ONE TWO THREE	6 6 7	3 - -	J, N, T	85-085, 085R, 069, 045
		SPRAY TO PRESSURIZER BRANCH B	ONE TWO THREE	3 3 4	1 - -	G	85-046
		RESIDUAL HEAT REMOVAL TAKE OFF LOOP A	ONE TWO THREE	6 6 7	3 - -	O, Q, T	85-033, 034, 032
		ACCUMULATOR DISCHARGE LOOP A	ONE TWO THREE	3 3 3	1 - -	H	85-083
		SEAL INJECTION LOOP B	ONE TWO THREE	5 5 6	2 - -	O, P	85-090, 092, 092R
		CHARGING LINE CVCS	ONE TWO THREE	9 9 9	4 - -	G, U, W, Z	85-040, 070, 087, 091, 091R
		RESIDUAL TEMPERATURE DETECTOR TAKE OFF COLD LEG LOOP B	ONE TWO THREE	2 2 3	1 - -	A1	85-044, 044R

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 2

## INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE SCS1.1

PAGE 8 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.
		RESIDUAL TEMPERATURE DETECTOR TAKE OFF HOT LEG LOOP B	ONE TWO THREE	2 2 2	- - -		
		DRAIN LINE AND LETDOWN LINE	ONE TWO THREE	2 2 2	1 - -	C	85-041, 041R
		RESIDUAL TEMPERATURE DETECTOR RETURN LOOP B	TWO	1	-		
		RESIDUAL HEAT REMOVAL TAKE OFF LOOP B	ONE TWO THREE	6 6 7	2 - -	M, N	85-093, 094
		RESIDUAL HEAT REMOVAL RETURN LOOP B	ONE TWO THREE	1 2 2	- - -		
		ACCUMULATOR DISCHARGE LOOP B	ONE TWO THREE	4 5 5	2 - -	A1, A1	85-079, 080
		SAFETY INJECTION HIGH HEAD LOOP B	ONE TWO THREE	1 1 1	- - -		
		AUXILIARY SPRAY CVCS	ONE TWO THREE	1 2 2	1 - -	A	85-081
		REACTOR VESSEL SAFETY INJECTION LOOP A & B	ONE TWO	1 1	1 -	D	85-068

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 2

## INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE SC1.1

PAGE 9 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.
		PRESSURIZER RELIEF LOOP B	THREE	1	-		
		REACTOR VESSEL SAFETY INJECTION LOOP A & B 4" & 6"	ONE TWO THREE	2 3 4	- - -		
		PRESSURIZER SAFETY LINES	TWVO THREE	1 1	2 -	F, I	85-043, 043R, 042, 042R
		PRESSURIZER SURGE	ONE TWO THREE	4 4 4	- - -		

NORTHERN STATES POWER COMPANY  
Prairie Island Unit II

TABLE S-II

Examination Comparison Summary

SUB-ITEM	SYSTEM	CLASS	ISO	METH	ITEM	REPORT	PREVIOUS RESULTS	CURRENT RESULTS	LIMITATIONS
IWF	ACCUM DISCH A	I	2-1S1- 11	VT3	PRCVCH-1515 N	85-084	Results:NONE	Results:NONE	NONE
IWF	ACCUM DISCH A	I	2-1S1- 11	VT3	SIRH-2 H	85-083	Results:NONE	Results:NONE	NONE
IWF	ACCUM DISCH B	I	2-1S1- 22	VT3	100-2SIS-1 A1	85-079	Results:NONE	Results:NONE	NONE
IWF	ACCUM DISCH B	I	2-1S1- 22	VT3	RHRRH-37 A1	85-080	Results:NONE	Results:NONE	UNINSULATED AREA ONLY
IWF	AUX SPRAY CVCS	I	2-1S1- 24	VT3	PRCVCH-1511 A	85-081	Results:NONE	Results:NONE	UNINSULATED AREA ONLY
IWF	CHARGING LINE (CVCS)	I	2-1S1- 130	VT3	PRCVCH-1384 Z	85-091	Results:NONE	Results:IND	NONE
								Type:	
								Ax Loc:	
								Circ Loc:	
								Length:	
IWF	CHARGING LINE (CVCS)	I	2-1S1- 130	VT3	PRCVCH-1387 W	85-087	Results:NONE	Results:IND	NONE
								Type:	
								Ax Loc:	
								Circ Loc:	
								Length:	
IWF	CHARGING LINE (CVCS)	I	2-1S1- 13C	VT3	PRCVCH-1388 U	85-070	Results:NONE	Results:NONE	NONE
IWF	CHARGING LINE (CVCS)	I	2-1S1- 13A	VT3	PRCVCH-1400 G	85-040	Results:NONE	Results:IND	NONE
								Type:	
								Ax Loc:	
								Circ Loc:	
								Length:	
IWF	DRAIN & LETDOWN	I	2-1S1-16	VT3	105-2CVCS-2 C	85-041R	Results:NONE	Results:NONE	UNINSULATED AREA ONLY
IWF	PZR SURGE	I	2-1S1-31	VT3	RCRH-50 F	85-043R	Results:NONE	Results:NONE	UNINSULATED AREA ONLY
IWF	PZR SURGE	I	2-1S1-31	VT3	RCRH-51 I	85-042R	Results:NONE	Results:NONE	UNINSULATED AREA ONLY
IWF	RC PUMP SUPPORT BASE	I	2-1S1- 79	VT3	BASE ANKR BOLTS	85-055	Results:NONE	Results:NONE	NONE
IWF	RC PUMP SUPPORT BASE	I	2-1S1- 79	VT3	BASE ANKR BOLTS	85-058	Results:NONE	Results:NONE	NONE
IWF	RCP #22 LWR LAT SUPP	I	2-1S1- 81	VT3	T.B. BOLT COL 1	85-039	Results:NONE	Results:NONE	NONE
IWF	RHR TAKE OFF A	I	2-1S1- 10C	VT3	9-2RHR-23 T	85-032	Results:NONE	Results:NONE	NONE
IWF	RHR TAKE OFF A	I	2-1S1- 10B	VT3	9-2RHR-3A O	85-033	Results:NONE	Results:NONE	UNINSULATED AREA ONLY
IWF	RHR TAKE OFF A	I	2-1S1- 10B	VT3	PHRRH-5 Q	85-034	Results:NONE	Results:IND	UNINSULATED AREA ONLY
								Type:	
								Ax Loc:	
								Circ Loc:	
								Length:	
IWF	RHR TAKE OFF B HOT	I	2-1S1- 20B	VT3	9-2RHR-12 W	85-094	Results:NONE	Results:NONE	UNINSULATED AREA ONLY

**NORTHERN STATES POWER COMPANY  
Prairie Island Unit II**

**TABLE S-II**

**Examination Comparison Summary**

SUB-ITEM	SYSTEM	CLASS	ISO	METH	ITEM	REPORT	PREVIOUS RESULTS	CURRENT RESULTS	LIMITATIONS
IWF	RHR TAKE OFF B HOT	I	2-ISI- 20B	VT3	9-2RHR-13 M	85-093	Results:NONE	Results:NONE	UNINSULATED AREA ONLY
IWF	RTD TAKEOFF COLD B	I	2-ISI- 14	VT3	PRRCH-283 A1	85-044R	Results:NONE	Results:NONE	NONE
IWF	RVSI LOW HEAD A	I	2-ISI- 29	VT3	102-2SIS-1B D	85-068	Results:NONE	Results:NONE	NONE
IWF	SEAL INJECTION A	I	2-ISI- 1C	VT3	PRCVCH-1512 P1	85-089	Results:NONE	Results:IND	NONE
								Type:	
								Ax Loc:	
								Circ Loc:	
								Length:	
IWF	SEAL INJECTION B	I	2-ISI- 12A	VT3	PRCVCH-1371 P	85-092	Results:NONE	Results:IND	NONE
								Type:	
								Ax Loc:	
								Circ Loc:	
								Length:	
IWF	SEAL INJECTION B	I	2-ISI- 12A	VT3	PRCVCH-1373 O	85-090	Results:NONE	Results:NONE	NONE
IWF	SG SUPPORT BASE	I	2-ISI- 77	VT3	BASE ANKR BOLTS	85-053	Results:NONE	Results:NONE	NONE
IWF	SG SUPPORT BASE	I	2-ISI- 77	VT3	BASE ANKR BOLTS	85-054	Results:NONE	Results:NONE	NONE
IWF	SG SUPPORT BASE	I	2-ISI- 77	VT3	BASE ANKR BOLTS	85-056	Results:NONE	Results:NONE	NONE
IWF	SG SUPPORT BASE	I	2-ISI- 77	VT3	BASE ANKR BOLTS	85-057	Results:NONE	Results:NONE	NONE
IWF	SI HIGH HEAD A	I	2-ISI-5	VT3	PRSIH-241 C	85-082R	Results:NONE	Results:NONE	NONE
IWF	SPRAY TO PZR BR A	I	2-ISI-7A	VT3	RCRH-16 J	85-085R	Results:NONE	Results:NONE	NONE
IWF	SPRAY/PZR BRANCH A	I	2-ISI- 7B	VT3	RCRH-12 N	85-069	Results:NONE	Results:NONE	UNINSULATED AREA ONLY
IWF	SPRAY/PZR BRANCH A	I	2-ISI- 7C	VT3	RCRH-3 G	85-046	Results:NONE	Results:IND	UNINSULATED AREA ONLY
								Type:	
								Ax Loc:	
								Circ Loc:	
								Length:	
IWF	SPRAY/PZR BRANCH A	I	2-ISI- 7C	VT3	RCRH-6 T	85-045	Results:NONE	Results:NONE	UNINSULATED AREA ONLY



NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 2

## INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE SCS1.2

PAGE 1 OF 5MAJOR 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					
		30-2MS-1	ONE	6	2	E, I	85-035, 041, 036
		31-2MS-1	TWO	6	-		
			THREE	7	-		
		MAIN STEAM A RELIEF HEADER	ONE	1	-		
		30-2MS-1	TWO	1	-		
		6-2MS-1	THREE	1	-		
		MAIN STEAM B					
		30-2MS-2	ONE	5	2	D, Q	85-037, 146
		31-2MS-2	TWO	6	-		
			THREE	7	-		
		MAIN STEAM B RELIEF HEADER	ONE	1	-		
		30-2MS-2	TWO	1	-		
		6-2MS-2	THREE	1	-		
		FEEDWATER A	ONE	4	3	A, D, A	85-088, 116, 117
		16-2FW-12	TWO	4	-		
		16-2FW-13	THREE	5	-		
		16-2FW-11					

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 2

## INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE SCS1.2

PAGE 2 OF 5

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.
		FEEDWATER B 16-2FW-16	ONE TWO THREE	2 3 3	* * *		*RELIEF NO.50
		RESIDUAL HEAT REMOVAL PUMP SUCTION LOOP B 10-2RH-3 8-2RH-4B 12-2RH-5B	ONE TWO THREE	6 6 6	2 - -	B,N	85-095, 110
		RESIDUAL HEAT REMOVAL PUMP SUCTION LOOP A 8-2RH-4A 12-2RH-5A	ONE TWO THREE	2 2 3	1 - -	F	85-113
		RESIDUAL HEAT REMOVAL PUMP DISCHARGE LOOP B 8-2RH-7B 8-2RH-9B 6-2RH-10B	ONE TWO THREE	4 4 5	1 - -	D	85-115
		RESIDUAL HEAT REMOVAL PUMP DISCHARGE LOOP A 8-2RH-7A 8-2RH-9A 10-2RH-11 6-2RH-12	ONE TWO THREE	4 4 5	2 - -	F,A	85-111, 112
		CONTAINMENT SUMP B DISCHARGE 14-2SI-33B 12-2RH-6B	ONE TWO THREE	- 1 1	- - -		RELIEF NO.50

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 2

## INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE SCS1.2

PAGE 3 OF 5

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.
		CONTAINMENT SUMP A DISCHARGE LOOP A 12-2RH-6A 14-2SI-33A	ONE TWO THREE	1 - 1	1 - -	D	RELIEF NO.50 85-114, 114R
		SAFETY INJECTION PUMP SUCTION 6-2SI-13A 6-2SI-13B	ONE TWO THREE	- 1 1	- - -		
		BORIC ACID SUPPLY TO SAFETY INJECTION 12-2SI-11 8-2SI-18	ONE TWO THREE	5 5 6	- - -		
		SAFETY INJECTION PUMP SUCTION B 6-2RH-10B	ONE TWO THREE	1 2 2	- - -		
		SAFETY INJECTION PUMP, SUCTION A 6-2RH-10A	ONE TWO THREE	2 2 3	- - -		
		REFUELING WATER STORAGE TANK DISCHARGE 14-2SI-1 12-2SI-4 10-2SI-8	ONE TWO THREE	1 1 2	1 - -	A	85-147
		REACTOR VESSEL SAFETY INJECTION B 6-2SI-25B	ONE TWO THREE	1 1 1	- - -		

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 2

## INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE SCS1.2

PAGE 4 OF 5

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.
		REACTOR VESSEL SAFETY INJECTION A 6-SI-25A	ONE TWO THREE	2 3 3	- - -		
		ACCUMULATOR DISCHARGE 12-2SI-29A 12-2SI-28A 12-2SI-28B	ONE TWO THREE	1 1 1	1 - -	A	85-101
		<u>PUMPS</u>					
		RESIDUAL HEAT REMOVAL PUMP NO. 21 PUMP NO. 22	ONE TWO THREE	1 1 2	- - -		
		SAFETY INJECTION PUMP NO. 21 PUMP NO. 22	ONE TWO THREE	4 4 4	- - -		
		<u>VESSELS</u>					
		BORIC ACID TANKS NO. 21	ONE TWO THREE	1 1 2	- - -		
		ACCUMULATOR NO. 21 NO. 22	ONE TWO THREE	- 1 1	- - -		

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 2

## INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE SCS1.2PAGE 5 OF 5MAJOR 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. 21	TWO	1	-		
		NO. 22	THREE	2	-		

NORTHERN STATES POWER COMPANY  
Prairie Island Unit II

TABLE S-II

Examination Comparison Summary

SUB-ITEM	SYSTEM	CLASS	ISO	METH	ITEM	REPORT	PREVIOUS RESULTS	CURRENT RESULTS	LIMITATIONS
IWF	CON'T SUMP A DISCH	II	2-1S1-58	VT3	RHRH-3 D	85-114R	Results:NONE	Results:NONE	UNINSULATED AREA ONLY
IWF	FEEDWATER A	II	2-1S1-48A	VT3	FWH-72 D	85-088	Results:NONE	Results:NONE	UNINSULATED AREA ONLY
IWF	MAIN STEAM A	II	2-1S1-46A	VT3	MSH-53 E	85-035	Results:NONE	Results:NONE	UNINSULATED AREA ONLY
IWF	MAIN STEAM B	II	2-1S1-47B	VT3	HDR RESTR'T #8Q	85-146	Results:NONE	Results:IND	NONE
								Type:	
								Ax Loc:	
								Circ Loc:	
								Length:	
IWF	RHR PUMP DISCH A	II	2-1S1-57	VT3	RHRH-28 A	85-112	Results:NONE	Results:NONE	UNINSUALTED AREA ONLY
IWF	RHR PUMP SUCTION B	II	2-1S1-51	VT3	2-9RHRH-9 B	85-095	Results:NONE	Results:NONE	UNINSULATED AREA ONLY
IWF	RHR PUMP SUCTION B	II	2-1S1-51	VT3	RHRH-22 N	85-110	Results:NONE	Results:NONE	UNINSULATED AREA ONLY

APPENDIX E

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

## PERSONNEL ROSTER

CONTRACTOR:

Lambert MacGill Thomas, Incorporated

11/01/85

515 Aldo Avenue  
Santa Clara, CA 95054

NAME	JOB TITLE	ET RECERT	MT RECERT	PT RECERT	UT RECERT	IGSCC QUAL?	VT-1 RECERT	VT-2 RECERT	VT-3 RECERT	VT-4 RECERT	VISION DUE	REMARKS COMMENTS
J. . FRENCH	TECHNICIAN	/ /	/ /	II 07/08/88	II 03/23/86	Y	II 09/29/87	/ /	/ /	/ /	02/20/86	
D.A. HALLING	TECHNICIAN	/ /	/ /	/ /	I 03/21/88	N	/ /	/ /	/ /	/ /	12/18/85	
D.B. MACGILL	SUPERVISOR	II 02/15/88	III 03/22/86	III 01/27/86	III 01/22/86	Y	/ /	/ /	/ /	/ /	06/05/86	
N.A. MACGILL	DATA MGMT	/ /	/ /	/ /	/ /	N	/ /	/ /	/ /	/ /	10/03/85	
D.B. RICHEY	TECHNICIAN	/ /	II 02/15/88	II 02/15/88	II 02/15/88	N	II 04/29/88	/ /	II 05/01/88	II 05/01/88	01/07/86	VT-3/4 LIMITED
R.J. WATKINS	TECHNICIAN	/ /	II 04/26/88	II 10/18/87	I 03/22/88	N	/ /	/ /	/ /	/ /	10/18/85	
L.J. WOOD	TECHNICIAN	/ /	/ /	/ /	I 05/25/87	N	/ /	/ /	/ /	/ /	12/10/85	



## PERSONNEL ROSTER

CONTRACTOR:

Conam Inspection

11/01/85

660 South 31st St.

Richmond, CA 94804

NAME	JOB TITLE	ET	MT	PT	UT	IGSCC	VT-1	VT-2	VT-3	VT-4	VISION	REMARKS
		RECERT	RECERT	RECERT	RECERT	QUAL?	RECERT	RECERT	RECERT	RECERT	DUE	COMMENTS
J.E. CAMBURN	ET ANALYST	IIA				N						
		08/01/87	/ /	/ /	/ /		/ /	/ /	/ /	/ /	02/05/86	
J. . FUNANICH	DATA ANAL	III				N						LEAD ANALYST
		08/09/86	/ /	/ /	/ /		/ /	/ /	/ /	/ /	01/11/86	
C.L. GORTEMILLER	ET ANALYST	IIA				N						
		12/01/87	/ /	/ /	/ /		/ /	/ /	/ /	/ /	10/02/85	
M.A. GORTEMILLER	ET ANALYST	IIA				N						
		06/01/88	/ /	/ /	/ /		/ /	/ /	/ /	/ /	08/28/86	
M. . LANDIS	ET ANALYST	IIA				N						
		08/06/88	/ /	/ /	/ /		/ /	/ /	/ /	/ /	06/03/86	
A.J. NEFF	CONSULTANT	IIA				N						
		03/14/87	/ /	/ /	/ /		/ /	/ /	/ /	/ /	05/06/86	

## PERSONNEL ROSTER

CONTRACTOR:

WESTINGHOUSE ELECTRIC CORPORATION

Nuclear Svcs Integration Div.

11/01/85

P.O. Box 2728

Pittsburgh, PA 15230

NAME	JOB TITLE	ET	MT	PT	UT	IGSCC	VT-1	VT-2	VT-3	VT-4	VISION	REMARKS
		RECERT	RECERT	RECERT	RECERT	QUAL?	RECERT	RECERT	RECERT	RECERT	DUE	COMMENTS
S.J. BEEHNER	EVALUATOR	IIA										
		08/13/88	/ /	/ /	/ /		/ /	/ /	/ /	/ /	01/28/86	
G.T. BEHARY	TECHNICIAN	I										
		07/31/87	/ /	/ /	/ /		/ /	/ /	/ /	/ /	03/13/86	
J.P. CARSON	TECHNICIAN				II	Y	II					SONIC SYSTEMS
		/ /	/ /	/ /	03/15/88		09/12/88	/ /	/ /	/ /	09/11/86	MANUAL UT LIGAMENTS
J.J. CHAPLA	EVALUATOR	IIA										
		08/13/88	/ /	/ /	/ /		/ /	/ /	/ /	/ /	07/25/86	
G.E. CONRAD	TECHNICIAN						II	II	II	II		
		/ /	/ /	/ /	/ /		06/13/86	06/13/86	06/13/86	06/13/86	01/11/86	RX INTERNALS
M.D. CORADI	TECHNICIAN	II										
		07/09/88	/ /	/ /	/ /		/ /	/ /	/ /	/ /	07/19/86	
J.W. ESTEL	TECHNICIAN	II										
		09/24/87	/ /	/ /	/ /		/ /	/ /	/ /	/ /	02/05/86	
F.D. GAROFALO	EVALUATOR	IIA										LEAD EVALIATOR
		02/24/87	/ /	/ /	/ /		/ /	/ /	/ /	/ /	02/05/86	
J.H. GRAW	TECHNICIAN				II	N						
		/ /	/ /	/ /	11/29/85		/ /	/ /	/ /	/ /	05/29/86	TOOL
R.A. HAINES	TECHNICIAN				III	N						
		/ /	/ /	/ /	05/14/87		/ /	/ /	/ /	/ /	11/28/85	TOOL

## PERSONNEL ROSTER

CONTRACTOR:

WESTINGHOUSE ELECTRIC CORPORATION

Nuclear Svcs Integration Div.

11/01/85

P.O. Box 2728

Pittsburgh, PA 15230

NAME	JOB TITLE	ET	MT	PT	UT	IGSCC	VT-1	VT-2	VT-3	VT-4	VISION	REMARKS
		RECERT	RECERT	RECERT	RECERT	QUAL?	RECERT	RECERT	RECERT	RECERT	DUE	COMMENTS
R.P. HAZEN	TECHNICIAN	II										
		10/18/85	/ /	/ /	/ /		/ /	/ /	/ /	/ /	12/11/85	
W.E. HAZLETT	TECHNICIAN				II	N						
		/ /	/ /	/ /	05/18/87		/ /	/ /	/ /	/ /	11/14/85	TOOL
R.W. HUGHES	TECHNICIAN						II	II	II	II		
		/ /	/ /	/ /	/ /		06/13/86	06/13/86	06/13/86	06/13/86	07/18/86	RX INTERNALS
R.H. INGRAHAM	IEDA SUP.	III										IEDA SUPERVISOR
		01/11/86	/ /	/ /	/ /		/ /	/ /	/ /	/ /	08/30/86	
S.R. KING	TECHNICIAN	I										
		08/18/86	/ /	/ /	/ /		/ /	/ /	/ /	/ /	04/04/86	
D. KUREK	SUPER/EVAL		III	III	III	N						
		/ /	03/11/86	03/11/86	03/11/86		/ /	/ /	/ /	/ /	11/16/85	TOOL
L.E. MARKLE	TECHNICIAN				II	N						
		/ /	/ /	/ /	05/03/86		/ /	/ /	/ /	/ /	04/03/86	TOOL
S.J. MCCOY	TRAINEE	TR										
		08/20/88	/ /	/ /	/ /		/ /	/ /	/ /	/ /	07/10/86	
K.M. PETERSON	TECHNICIAN	I										
		09/06/87	/ /	/ /	/ /		/ /	/ /	/ /	/ /	08/01/86	
G.P. PIERINI	EVALUATOR	IIA										
		07/26/88	/ /	/ /	/ /		/ /	/ /	/ /	/ /	07/19/86	

## PERSONNEL ROSTER

CONTRACTOR:

11/01/85

WESTINGHOUSE ELECTRIC CORPORATION

P.O. Box 2728

Nuclear Svcs Integration Div.

Pittsburgh, PA 15230

NAME	JOB TITLE	ET RECERT	MT RECERT	PT RECERT	UT RECERT	IGSCC QUAL7	VT-1 RECERT	VT-2 RECERT	VT-3 RECERT	VT-4 RECERT	VISION DUE	REMARKS COMMENTS
R.A. POLLICE	SUPERVISOR	II 12/20/86	/ /	/ /	/ /		/ /	/ /	/ /	/ /	12/20/85	DAY SUPERVISOR
R.D. REHAK	TECHNICIAN	II 10/15/85	/ /	/ /	/ /		/ /	/ /	/ /	/ /	12/05/85	
R.G. SPIVEY	TECHNICIAN	/ /	/ /	/ /	II 08/25/87	Y	/ /	/ /	/ /	/ /	05/01/86	SONIC SYSTEMS MANUAL UT LIGAMENTS
G.F. TESTA	EVALUATOR	IIA 08/13/88	/ /	/ /	/ /		/ /	/ /	/ /	/ /	05/10/86	
G.W. THOMAS	TECHNICIAN	II 10/13/85	/ /	/ /	/ /		/ /	/ /	/ /	/ /	08/29/86	
D.J. TOMMARELLO	EVALUATOR	IIA 08/13/88	/ /	/ /	/ /		/ /	/ /	/ /	/ /	02/05/86	
K.R. TROUT	TRAINEE	TR 08/20/88	/ /	/ /	/ /		/ /	/ /	/ /	/ /	01/24/86	
R.A. VOLLMER	EVALUATOR	IIA 08/13/88	/ /	/ /	/ /		/ /	/ /	/ /	/ /	02/18/86	
T.J. WALSH	TECHNICIAN	/ /	/ /	/ /	II 11/15/87	N	/ /	/ /	/ /	/ /	11/06/85	TOOL
J.M. ZEVCHAK	EVALUATOR	IIA 08/13/88	/ /	/ /	/ /		/ /	/ /	/ /	/ /	03/14/86	

## PERSONNEL ROSTER

CONTRACTOR:  
Zetec, Inc.

12/10/85

P.O. Box 140

Isaquaah, WA 98027

NAME	JOB TITLE	ET RECERT	MT RECERT	PT RECERT	UT RECERT	IGSCC QUAL?	VT-1 RECERT	VT-2 RECERT	VT-3 RECERT	VT-4 RECERT	VISION DUE	REMARKS COMMENTS
R.L. FRIESNER	EVALUATOR	IIA 06/05/87	/ /	/ /	/ /		/ /	/ /	/ /	/ /	07/25/86	
W.A. GRAY	EVALUATOR	IIA 01/12/86	/ /	/ /	/ /		/ /	/ /	/ /	/ /	01/30/86	

NORTHERN STATES POWER COMPANY  
PRAIRIE ISLAND UNIT II  
ULTRASONIC CALIBRATION BLOCKS

APPENDIX E  
TABLE II  
PAGE 1 of 2

NSP No.	SIZE & DIA.	PIPE SCHEDULE & THICKNESS	MATERIAL	SERIAL OR HEAT NUMBER	CALIBRATION REPORTS	DATE
5	4"	SCH. 120 .438	A-376, TP-316	2P0091	JF-015	09-21-85
6	6"	SCH. 160 .718	A-376,	M3715 TP-316	JF-013 JF-017 JF-018 DBR-002	09-20-85 09-25-85 09-24-85 09-11-85
8	8"	SCH. 140 .812	A-376,	J2338 TP-316	JF-008 JF-009	09-14-85 09-16-85
11	12"	SCH. 160 1.312	A-376,	J2103 TP-316	JF-007 JF-010	09-14-85 09-16-85
15	CAST	--- ---	A-351,	B2877 CF8A	JF-020	09-24-85
20	24"	SCH. 80 1.219	A-106,	N14868 GR B	DBR-003	09-12-85
23	30"	SCH. --- 1.045	A-515,	88526 GR 70	DBR-004	09-12-85
24	31"	SCH. --- 1.534	A-515,	79114 GR 70	JF-003	09-12-85

NORTHERN STATES POWER COMPANY  
PRAIRIE ISLAND UNIT II  
ULTRASONIC CALIBRATION BLOCKS

APPENDIX E  
TABLE II  
PAGE 2 of 2

NSP No.	SIZE & DIA.	PIPE SCHEDULE & THICKNESS	MATERIAL	SERIAL OR HEAT NUMBER	CALIBRATION REPORTS	DATE
36	16	SCH. 100 1.031	A-106, & .585	45124A GR C	JF-001 JF-002	09-10-85 09-10-85
38	8"	SCH. 40 .322	SA-312,	M7722 TP-304L	JF-011 JF-012 JF-023 JF-024 JF-025 JF-026	09-17-85 09-18-85 09-27-85 09-28-85 09-30-85 10-02-85
39	4"	SCH. --- .598	SA-182,	M7853 F304	JF-016 JF-022 DBR-001	09-23-85 09-26-85 09-10-85

NORTHERN STATES POWER COMPANY  
PRAIRIE ISLAND UNIT II  
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-PT-1,REV. 4	NONE	LIQUID PENETRANT EXAMINATION	1-15-85		
NSP-MT-1,REV.4	NONE	MAGNETIC PARTICLE EXAMINATION	1-15-85		
NSP-MT-2,REV.2	NONE	WET MAGNETIC PARTICLE EXAMINATION	1-15-85		
NSP-UT-1,REV.3	NONE	ULTRASONIC EXAMINATION OF PIPE WELDS	1-15-85		
NSP-UT-2,REV.3	NONE	AUTOMATIC DATA RECORDING	1-15-85		
NSP-UT-4,REV.3	NONE	ULTRASONIC EXAMINATION OF STUDS, BOLTS AND NUTS	1-15-85		
NSP-UT-16,REV.3	NONE	ULTRASONIC EXAMINATION FOR INTERGRANULAR STRESS CORROSION CRACKING	1-15-85		
NSP-VT-1.0,REV.1	NONE	VISUAL EXAMINATION	1-15-85		
NSP-VT-2.0,REV.1	NONE	VISUAL EXAMINATION OF HANGER ASSEMBLIES	1-15-85		



NORTHERN STATES POWER COMPANY  
PRAIRIE ISLAND UNIT II  
PROCEDURE LISTING

APPENDIX E  
TABLE III  
PAGE 2 of 2

PROCEDURE NUMBER AND REVISION	FIELD CHANGE	PROCEDURE TITLE	PLANT APPROVAL DATE	FIELD CHANGE REMARKS	CHANGE DESCRIPTION
MRS 2.4.2-GEN-2B, REV.0	NONE	DIGITAL MULTI-FREQUENCY EDDY CURRENT INSPECTION OF PRESERVICE AND INSERVICE HEAT EXCHANGER TUBING	1-15-84		
ISI-88,REV.1	NONE	REMOTE VISUAL EXAMINATION OF REACTOR VESSEL INTERNALS	1-15-85		
ISI-154,REV.3	1	PRESERVICE AND INSERVICE OF REACTOR VESSELS	1-15-85	WATER TEMP, CHECK	CONTACT CONTROL ROOM EVERY 12 HRS.
OPS-NSD-101,REV.5	NONE	PRESERVICE AND INSERVICE INSPECTION DOCUMENTATION	1-15-85		
NSD-ISI-10, REV.6	NONE	QUALIFICATION OF ULTRASONIC MANUAL EQUIPMENT	1-15-85		
ISI-55,REV.0	NONE	MANUAL ULTRASONIC EXAMINATION OF LIGAMENT AREAS	1-15-85		

NORTHERN STATES POWER COMPANY  
Prairie Island Unit II

Table IV  
EQUIPMENT & MATERIALS

## ULTRASONIC INSTRUMENTS

MANUFACTURER	MODEL	SERIAL NUMBER	CALIBRATION DATE	REMARKS
NORTEC	131-D	128	08/15/85	OFF SITE 10/03
NORTEC	131-D	167	09/03/85	
NORTEC	131-D	417	09/04/85	

## STRIP CHART RECORDERS

MANUFACTURER	MODEL	SERIAL NUMBER	CALIBRATION DATE	REMARKS
GOULD	BRUSH 220	18940	06/03/85	
GOULD	BRUSH 220	19016	07/23/85	
GOULD	BRUSH 220	19023	08/14/85	

## SURFACE TEMPERATURE GAUGES

MANUFACTURER	MODEL	SERIAL NUMBER	TYPE	REMARKS
PTC	0-300 DEG	729	SURFACE THERMO	MFR. CERT
PTC	0-300 DEG	730	SURFACE THERMO	MFR. CERT
PTC	0-300 DEG	731	SURFACE THERMO	MFR. CERT
PTC	0-300 DEG	732	SURFACE THERMO	MFR. CERT
PTC	0-300 DEG	733	SURFACE THERMO	MFR. CERT
PTC	0-300 DEG	734	SURFACE THERMO	MFR. CERT
PTC	0-300 DEG	735	SURFACE THERMO	MFR. CERT
PTC	0-300 DEG	736	SURFACE THERMO	MFR. CERT
PTC	0-300 DEG	737	SURFACE THERMO	MFR. CERT
PTC	0-300 DEG	738	SURFACE THERMO	MFR. CERT
PTC	0-300 DEG	739	SURFACE THERMO	MFR. CERT
PTC	0-300 DEG	740	SURFACE THERMO	MFR. CERT

## MAGNETIC PARTICLE EQUIPMENT

MANUFACTURER	MODEL	SERIAL NUMBER	TYPE	REMARKS
MAGNAFLUX	L-10	GTL004	COIL	NSP OWNED EQPT
PARKER	CONT PROBE	2855	YOKE	
U V PROD	J-221	24779	LIGHT METER	NOT USED
U V PROD.	J221	26737	LIGHT METER	

NORTHERN STATES POWER COMPANY  
Prairie Island Unit II

Table IV  
EQUIPMENT & MATERIALS

ULTRASONIC REFERENCE BLOCKS				
MANUFACTURER	BLOCK TYPE	SERIAL NUMBER	MATERIAL TYPE	REMARKS
JORGENSEN	ROMPAS	LMT-033	304 S/S	
JORGENSEN	ROMPAS	LMT-039	304 S/S	
JORGENSEN	ROMPAS	LMT-044	304 S/S	
JORGENSEN	ROMPAS	LMT-048	304 S/S	
JORGENSEN	ROMPAS	LMT-060	4140 C/S	
JORGENSEN	ROMPAS	LMT-066	4140 C/S	
ORLA'S	ROMPAS	LMT-012	4140 C/S	
ORLA'S	ROMPAS	LMT-018	4140 C/S	
SEE COMM.	IIW	01	4340 C/S	
				GOOD STEEL SVC.

LIQUID PENETRANT MATERIALS				
MANUFACTURER	MATERIAL	BATCH NUMBER	TYPE	REMARKS
MAGNAFLUX	DEVELOPER	84C057	SKD-NF/ZP-9B	NSP SUPPLIED
MAGNAFLUX	PENETRANT	83M051	SKL-HF/S	NSP SUPPLIED
MAGNAFLUX	REMOVER	82G049	SKC-HF/ZC-7B	NSP SUPPLIED

NORTHERN STATES POWER COMPANY  
Prairie Island Unit II

Table IV  
EQUIPMENT & MATERIALS

ULTRASONIC SEARCH UNITS				
MANUFACTURER	TYPE	SERIAL NUMBER	SIZE	FREQUENCY
AEROTECH	SB	C18085	0.5	2.25
AEROTECH	AB	C29610	0.5	2.25
AEROTECH	AB	F05140	0.5	5.0
AEROTECH	AB	F05149	0.5	5.0
AEROTECH	AB	F15183	0.25	5.0
AEROTECH	AB	F26143	0.5	5.0
AEROTECH	AB	H10142	0.5	1.5
AEROTECH	AB	H10144	0.5	1.5
AEROTECH	SB	K07023	1.0	2.25
AEROTECH	SB	O16575	1.0	2.25
AEROTECH	AB	O16575	1.0	2.25
AUTOMATION	AB	A85049	0.25x0.25	2.25
AUTOMATION	AB	A85050	0.25x0.25	2.25
AUTOMATION	AB	C84243	0.25x0.25	2.25
AUTOMATION	AB	C85190	0.37x0.37	2.25
AUTOMATION	AB	C85202	0.37x0.37	2.25
AUTOMATION	AB	C85203	0.37x0.37	2.25
HARISONIC	AB	A52	0.5x1.0	2.25
HARISONIC	SB	O13570	0.25	5.0
HARISONIC	AB	Q11113	0.37x0.37	3.5
HARISONIC	AB	R5239	0.5x1.0	2.25
HARISONIC	REFRACTED L.W.	R9159A	1.0x1.0	1.0
HARISONIC	REFRACTED L.W.	R9159B	1.0x1.0	1.0
HARISONIC	AB	S2285	0.5x0.5	1.5
HARISONIC	SB	T2211	0.5	5.0
HARISONIC	SB	T3156	0.5	2.25
HARISONIC	SB	T3206	0.25	4.5
HARISONIC	AB	T4158	1.0x1.0	2.25
HARISONIC	REFRACTED L.W.	T5217	1.0x1.0	1.0
HARISONIC	REFRACTED L.W.	T5218	1.0x1.0	1.0
HARISONIC	SB	T6240	0.5	1.0
HARISONIC	AB	V10705	1.0x1.0	2.25
HARISONIC	AB	V12540	0.38x0.38	3.5
HARISONIC	AB	W6207	0.5x0.5	2.25
PANAMETRIC	SB	5840	1.125	1.0

NORTHERN STATES POWER COMPANY  
PRAIRIE ISLAND UNIT 2  
EQUIPMENT AND MATERIALS

APPENDIX E  
TABLE IV  
PAGE 4 OF 6

MATERIAL OR EQUIPMENT	TYPE OR SERIAL NUMBER	CALIBRATION DATE OR BATCH NUMBER	REMARKS
<u>WESTINGHOUSE VESSEL EQUIPMENT:</u>			
<u>ULTRASONIC</u>		CAL: DUE DATE:	
INTERFACE	S/N 06319E	2-6-86	
MARK VI	S/N 05773E	2-6-86	
RECEIVER	S/N 05774E	2-6-86	
TRIGGER	S/N 05575E	2-6-86	
MONITOR GATE	S/N 06316E	2-6-86	
DATA DISPLAY	S/N 06317E	2-6-86	
SYSTEM CONTROLLER	S/N 06318E	N/A	
POWER SUPPLY MODULE	S/N 06320E	2-1-86	
SERIAL DATA LINK	S/N 06294E	2-7-86	
PULSER/PRE-AMP	S/N 06321E	2-7-86	
EBS	S/N 103	1-10-86	
SONIC MARK I	S/N 05286E	CAL: 9-25-85	
SONIC MARK I	S/N 784522	CAL: 5-13-85	NOT USED FOR EXAMS
<u>THERMOMETERS:</u>			
PTC INSTRUMENTS MODEL 312	S/N SSI-CT-006	CAL: 12-14-84	
<u>MATERIALS:</u>			
ULTRASONIC COUPLANT	SONOTRACE 40	BATCH #8440 BATCH #8328 BATCH #8444	
1CD121785WMH05			

NORTHERN STATES POWER COMPANY  
PRAIRIE ISLAND UNIT 2  
EQUIPMENT AND MATERIALS

APPENDIX E  
TABLE IV  
PAGE 5 OF 6

MATERIAL OR EQUIPMENT	TYPE OR SERIAL NUMBER	CALIBRATION DATE OR BATCH NUMBER	REMARKS
<u>TRANSDUCERS:</u>	<u>S/N</u>	<u>SIZE</u>	<u>FREQUENCY</u>
AEROTECH	E21202	.5" X 1.0"	5.0 MHZ
GAMMA	15136	.375"	1.5 MHZ
GAMMA	30125	.375"	2.25 MHZ
GAMMA	75105	.375"	5.0 MHZ
GAMMA	A05240	.50"	2.25 MHZ
GAMMA	A11250	1.0"	2.25 MHZ
GAMMA	D17921	1.0"	2.25 MHZ
HARISONIC	12172	.5" X .5"	2.25 MHZ
HARISONIC	12174	.5" X .5"	2.25 MHZ
HARISONIC	A8046	.2" X .310"	2.25 MHZ
HARISONIC	A8048	DUAL .2" X .310"	2.25 MHZ
HARISONIC	T2233	.750"	1.0 MHZ
HARISONIC	Y6051	1.5"	2.25 MHZ
HARISONIC	Y6052	1.5"	2.25 MHZ
HARISONIC	Y6053	1.5"	2.25 MHZ
HARISONIC	Y6059	1.5"	2.25 MHZ
HARISONIC	Y6068	1.5"	2.25 MHZ
HARISONIC	Y6070	.750"	2.25 MHZ
HARISONIC	Y6078	.750"	1.0 MHZ
HARISONIC	Y6079	.750"	1.0 MHZ
HARISONIC	Y6082	.5" X 1.0"	5.0 MHZ
HARISONIC	Y7424	1.5"	2.25 MHZ
HARISONIC	Y7708	1.5"	2.25 MHZ
HARISONIC	Y7712	1.5"	2.25 MHZ
HARISONIC	Y7713	1.5"	2.25 MHZ
HARISONIC	Y11460	1.5"	2.25 MHZ
HARISONIC	Y11461	1.5"	2.25 MHZ
HARISONIC	Y11463	1.5"	2.25 MHZ
HARISONIC	Y11464	1.5"	2.25 MHZ
HARISONIC	Y11468	1.5"	2.25 MHZ
HARISONIC	Y11567	1.5"	2.25 MHZ
HARISONIC	Y11568	1.5"	2.25 MHZ
HARISONIC	Y11570	1.5"	2.25 MHZ
HARISONIC	Y11571	1.5"	2.25 MHZ
HARISONIC	Y11574	1.5"	2.25 MHZ
HARISONIC	Y11578	1.5"	2.25 MHZ
HARISONIC	Y11580	1.5"	2.25 MHZ
HARISONIC	Y11581	1.5"	2.25 MHZ
HARISONIC	Y11585	1.5"	2.25 MHZ
HARISONIC	Y11586	1.5"	2.25 MHZ
HARISONIC	Y11587	1.5"	2.25 MHZ
HARISONIC	Y11588	1.5"	2.25 MHZ
LCD121785WMH05			

NORTHERN STATES POWER COMPANY  
PRAIRIE ISLAND UNIT 2  
EQUIPMENT AND MATERIALS

APPENDIX E  
TABLE IV  
PAGE 6 OF 6

MATERIAL OR EQUIPMENT	TYPE OR SERIAL NUMBER	CALIBRATION DATE OR BATCH NUMBER	REMARKS
<u>TRANSDUCERS:</u>	<u>S/N</u>	<u>SIZE</u>	<u>FREQUENCY</u>
HARISONIC	Y11595	.750"	1.0 mhz
HARISONIC	Y12167	.37" X .50"	2.25 MHZ
HARISONIC	Y12168	.37" X .50"	2.25 MHZ
HARISONIC	Y12169	.37" X .50"	2.25 MHZ
HARISONIC	Y12170	.37" X .50"	2.25 MHZ
HARISONIC	Y12171	.50" X .50"	2.25 MHZ
HARISONIC	Y12172	.50" X .50"	2.25 MHZ
HARISONIC	Y12173	.50" X .50"	2.25 MHZ
HARISONIC	Y12174	.50" X .50"	2.25 MHZ
HARISONIC	Y12175	.50" X .50"	2.25 MHZ
SONIC	S791378	.5" DIA.	5.0 MHZ
ULTRAN	32701	1.0" DUAL	2.25 MHZ
ULTRAN	32703	1.0" DUAL	2.25 MHZ
ULTRAN	32704	1.0" DUAL	2.25 MHZ
ULTRAN	33101	1.0" DUAL	2.25 MHZ
LCD121785WMH05			

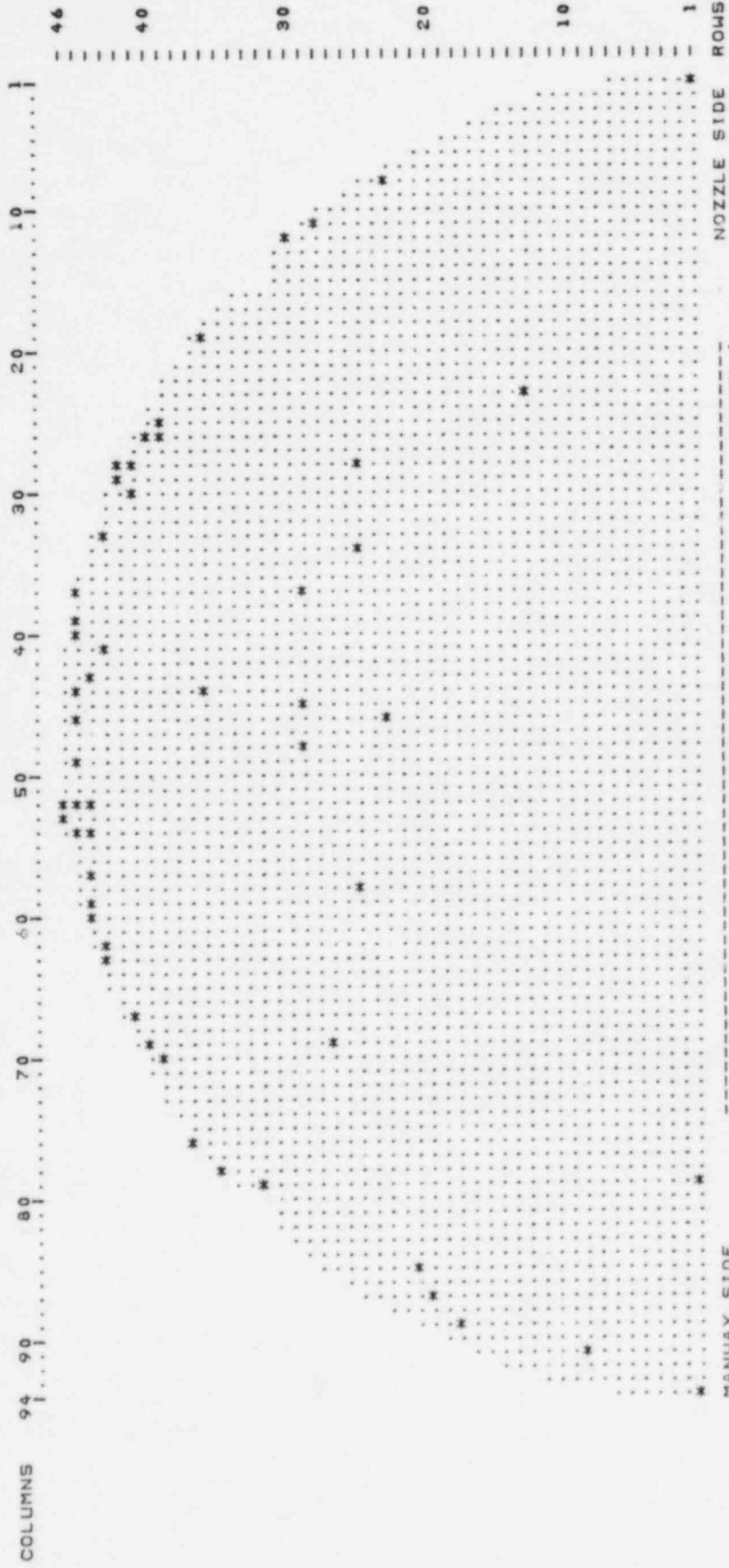
APPENDIX F

STEAM GENERATOR NO. 21

EDDY CURRENT TUBE SHEET MAPS AND PLUGGING LIST



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



DEC 16, 1965

PRAIRIE ISLAND NUCLEAR GENERATING PLANT  
LIST OF PLUGGED STEAM GENERATOR TUBES

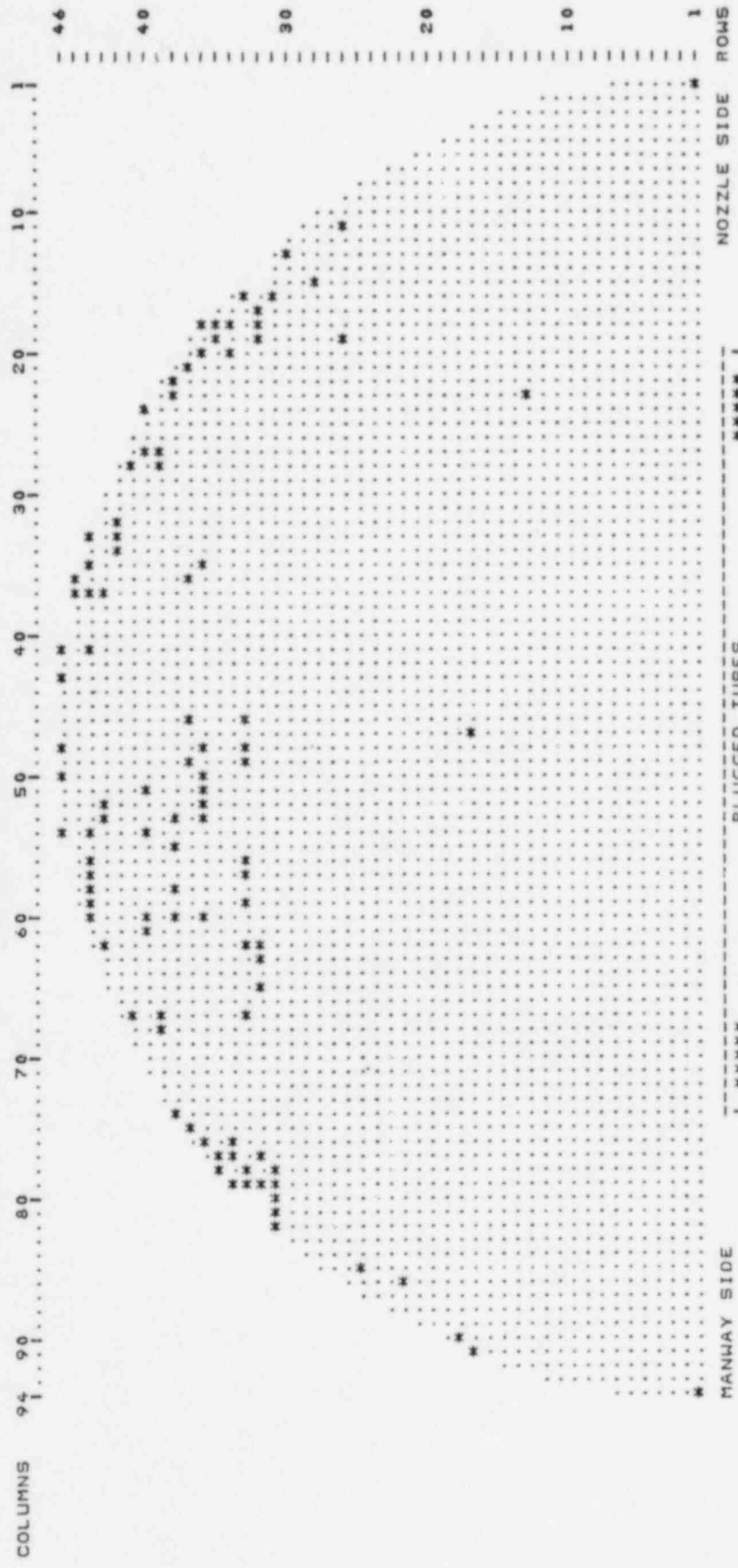
GEN NO.	SIDE	ROW	COL	YEAR	REMARKS/COMMENTS
21	INLET	1	1	85	PREVENTIVE (R1/C1)
	OUTLET	2	2	85	S/O
		3	3	85	S/O
		4	4	85	S/O
		5	5	85	S/O
		6	6	85	S/O
		7	7	85	S/O
		8	8	85	S/O
		9	9	85	S/O
		10	10	85	S/O
		11	11	85	S/O
		12	12	85	S/O
		13	13	85	S/O
		14	14	85	S/O
		15	15	85	S/O
		16	16	85	S/O
		17	17	85	S/O
		18	18	85	S/O
		19	19	85	S/O
		20	20	85	S/O
		21	21	85	S/O
		22	22	85	S/O
		23	23	85	S/O
		24	24	85	S/O
		25	25	85	S/O
		26	26	85	S/O
		27	27	85	S/O
		28	28	85	S/O
		29	29	85	S/O
		30	30	85	S/O
		31	31	85	S/O
		32	32	85	S/O
		33	33	85	S/O
		34	34	85	S/O
		35	35	85	S/O
		36	36	85	S/O
		37	37	85	S/O
		38	38	85	S/O
		39	39	85	S/O
		40	40	85	S/O
		41	41	85	S/O
		42	42	85	S/O
		43	43	85	S/O
		44	44	85	S/O
		45	45	85	S/O
		46	46	85	S/O

APPENDIX G

STEAM GENERATOR NO. 22

EDDY CURRENT TUBE SHEET MAPS AND PLUGGING LIST

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



MANWAY SIDE

GENERATOR NO. 22

73 THROUGH 85  
 TUBE SHEET  
 AROUND U-BEND

DEC 16, 1985

PRAIRIE ISLAND NUCLEAR GENERATING PLANT  
LIST OF PLUGGED STEAM GENERATOR TUBES

GEN NO.	SIDE	ROW	COL	YEAR	REMARKS/COMMENTS
22	INLET	1			PREVENTIVE
	OUTLET	13			NO
		14			NO
		15			NO
		16			NO
		17			NO
		18			NO
		19			NO
		20			NO
		21			NO
		22			NO
		23			NO
		24			NO
		25			NO
		26			NO
		27			NO
		28			NO
		29			NO
		30			NO
		31			NO
		32			NO
		33			NO
		34			NO
		35			NO
		36			NO
		37			NO
		38			NO
		39			NO
		40			NO

DEC 16, 1985

PRAIRIE ISLAND NUCLEAR GENERATING PLANT  
LIST OF PLUGGED STEAM GENERATOR TUBES

GEN NO.	SIDE	ROW	COL	YEAR	REMARKS/COMMENTS
22	INLET	40	55	11	0
	OUTLET	41	55	11	0
		42	55	11	0
		43	55	11	0
		44	55	11	0
		45	55	11	0
		46	55	11	0

APPENDIX H

NIS-1 FORM

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 GENERATING PLANT  
 Address: WELCH MINNESOTA
- 3.) Plant Unit: 2 4.) Owner (Certificate of Authorization): --
- 5.) Commercial Service Date: 12-20-74 6.) National Board No. for Unit: --
- 7.) Components Inspected:

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
REACTOR VESSEL	CREUSOT-LORIE	687	MINN.200-1	----
B1.30 SHELL-TO-FLANGE WELD				
VESSEL-TO-FLANGE	CREUSOT-LOIRE	687	MINN. 200-51	---
B3.90 NOZZLE TO VESSEL WELD AND NOZZLE INSIDE RADIUS SECTION				
REACTOR CORE	CREUSOT-LORIE	687	MINN. 200-51	---
COOLANT NOZZLES				
OUTLET NOZZLES				
W-7, W-10				
B5.10 NOMINAL PIPE SIZE 4" AND GREATER, NOZZLE-TO-SAFE END BUTT WELDS				
REACTOR CORE	CREUSOT-LOIRE	687	MINN. 200-51	---
COOLANT				
OUTLET NOZZLE				
SAFE END WELDS				
RCC-A-1 S.E.				
RCC-B-1 S.E.				
B5.130 NOMINAL PIPE SIZE 4" AND GREATER, DISSIMILAR METAL WELDS				
REACTOR CORE	CREUSOT-LOIRE	687	MINN. 200-51	---
COOLANT				
RCC-A-1 S.E.				
RCC-B-1 S.E.				
B6.40 THREADS IN FLANGE				
FLANGE THREADS	CREUSOT-LOIRE	687	MINN. 200-51	---
9 THRU 22,				
29 THRU 37,				
43 THRU 46				



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- 7.) Components Inspected:

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
<u>PRESSURIZER</u>				
<u>B7.20 BOLTS STUDS AND NUTS</u>				
<u>MANWAY BOLTS</u>	<u>WESTINGHOUSE</u>	<u>1191</u>	<u>---</u>	<u>68-57</u>
<u>BOLTS 1 THRU 5</u>				
<u>STEAM GENERATORS</u>				
<u>B7.30 BOLTS, STUDS AND NUTS</u>				
<u>STEAM GENERATOR</u>	<u>WESTINGHOUSE</u>	<u>1181</u>	<u>---</u>	<u>68-39</u>
<u>NUMBER 21</u>				
<u>INLET MANWAY BOLTS</u>				
<u>1 THRU 16</u>				
<u>OUTLET MANWAY BOLTS</u>				
<u>1 THRU 16</u>				
<u>STEAM GENERATOR</u>	<u>WESTINGHOUSE</u>	<u>1182</u>	<u>---</u>	<u>69-40</u>
<u>NUMBER 22</u>				
<u>INLET MANWAY BOLTS</u>				
<u>1 THRU 16</u>				
<u>OUTLET MANWAY BOLTS</u>				
<u>1 THRU 15</u>				
<u>REACTOR CORE COOLANT PUMPS</u>				
<u>B6.10 BOLTS AND STUDS, IN PLACE</u>				
<u>REACTOR COOLANT</u>	<u>WESTINGHOUSE</u>	<u>W515</u>	<u>---</u>	<u>---</u>
<u>PUMP NO. 22</u>				
<u>FLANGE BOLTS</u>				
<u>1 THRU 8</u>				

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- 7.) Components Inspected:

<u>Component or Appurtenance</u>	<u>Manufacturer or Installer</u>	<u>Manufacturer or Installer Serial No.</u>	<u>State or Province No.</u>	<u>National Board No.</u>
B7.60 BOLTS, STUDS AND NUTS				
REACTOR COOLANT PUMP NO. 21	WESTINGHOUSE	W510	---	---
SEAL HOUSE BOLTS				
1 THRU 12, UPPER				
1 THRU 12, LOWER				
REACTOR COOLANT PUMP NO. 22	WESTINGHOUSE	W515	---	---
SEAL HOUSE BOLTS				
1 THRU 8, UPPER				
1 THRU 12, LOWER				
PIPING				
B7.70 BOLTS, STUDS AND NUTS IN VALVES				
ACCUMULATOR DISCHARGE LOOP A	NAVCO	---	---	---
2-8841A				
PRESSURIZER RELIEF	NAVCO	---	---	---
2-8000B				
DRAIN ON CROSS-OVER LOOP A	NAVCO	---	---	---
2-RC-1-2				
SEAL INJECTION LOOP B	NAVCO	---	---	---
2-VC-7-19				

FORM NIS-1 OWNERS' DATA REPORT FOR INSERVICE INSPECTIONS

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- 7.) Components Inspected:

<u>Component or Appurtenance</u>	<u>Manufacturer or Installer</u>	<u>Manufacturer or Installer Serial No.</u>	<u>State or Province No.</u>	<u>National Board No.</u>
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B9.11 CIRCUMFERENTIAL BUTT WELDS 4 INCH AND GREATER

REACTOR VESSEL SAFETY INJECTION LOW HEAD A W-2	NAVCO	---	---	---
SAFETY INJECTION HIGH HEAD B W-2	NAVCO	---	---	---
RESIDUAL HEAT REMOVAL TAKE OFF A W-17, 24	NAVCO	---	---	---
ACCUMULATOR DISCHARGE LOOP B W-6	NAVCO	---	---	---
PLO CAP A W-1	NAVCO	---	---	---
CONTROL ROD DRIVE HOUSINGS CRD-2, 5	NAVCO	---	---	---

B9.21 CIRCUMFERENTIAL BUTT WELDS LESS THAN 4 INCHES

SEAL INJECTION A W-28	NAVCO	---	---	---
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- 7.) Components Inspected:

<u>Component or Appurtenance</u>	<u>Manufacturer or Installer</u>	<u>Manufacturer or Installer Serial No.</u>	<u>State or Province No.</u>	<u>National Board No.</u>
<u>B9.21 CONT</u>				
SEAL INJECTION B W-27, 53	NAVCO	---	---	---
CHARGING LINE W-42, 68	NAVCO	---	---	---
RESIDUAL TEMPERATURE DETECTOR TAKE OFF A W-16	NAVCO	---	---	---
SEAL INJECTION HIGH HEAD B W-4	NAVCO	---	---	---
SPRAY TO PRESSURIZER BRANCH A W-22	NAVCO	---	---	---
SPRAY TO PRESSURIZER BRANCH B W-13	NAVCO	---	---	---
PRESSURIZER RELIEF B W-12A	NAVCO	---	---	---

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- 7.) Components Inspected:

<u>Component or Appurtenance</u>	<u>Manufacturer or Installer</u>	<u>Manufacturer or Installer Serial No.</u>	<u>State or Province No.</u>	<u>National Board No.</u>
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B9.31 BRANCH PIPE CONNECTION WELDS 4 INCH AND GREATER

PLO CAP A W-R	NAVCO	---	---	---
------------------	-------	-----	-----	-----

B9.32 BRANCH PIPE AND CONNECTION WELDS LESS THAN 4 INCHES

DRAIN ON CROSSOVER A W-R	NAVCO	---	---	---
-----------------------------	-------	-----	-----	-----

B9.40 SOCKET WELDS

DRAIN AND LETDOWN  
 LINE (CVCS)  
 W-25

RESIDUAL TEMPERATURE DETECTOR TAKE OFF COLD LEG B W-6	NAVCO	---	---	---
--	-------	-----	-----	-----

REACTOR VESSEL SAFETY INJECTION LOW HEAD A W-13	NAVCO	---	---	---
---	-------	-----	-----	-----

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- 3.) Plant Unit: 2 4.) Owner (Certificate of Authorization): --
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- 7.) Components Inspected:

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

PIPING-PRESSURE BOUNDARY

C3.20 INTERGALLY WELDED ATTACHMENTS

MAIN STEAM LOOP A I, MHS-38	NAVCO	---	---	---
MAIN STEAM LOOP B D, MSH-45	NAVCO	---	---	---
FEEDWATER LOOP A A, FWH-66	NAVCO	---	---	---

PIPING WELDS 1/2" AND LESS NOMINAL WALL THICKNESS

C5.11 CIRCUMFERENTIAL WELDS

RHR PUMP SUCTION 10-2RH-3 W-208	NAVCO	---	---	---
RHR DISCHARGE 10-2RH-11 W-171	NAVCO	---	---	---
SAFETY INJECTION PUMPS SUCTION 6-SI-13A W-164	NAVCO	---	---	---

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- 7.) Components Inspected:

<u>Component or Appurtenance</u>	<u>Manufacturer or Installer</u>	<u>Manufacturer or Installer Serial No.</u>	<u>State or Province No.</u>	<u>National Board No.</u>
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C5.11 CONT

6-2RH-10B  
W-155

REFUELING WATER STORAGE TANK DISCHARGE  
10-2SI-8  
W-73

NAVCO

---

---

---

C5.20 PIPING WELDS GREATER THAN 1/2" NOMINAL WALL THICKNESS

C5.21 CIRCUMFERENTIAL WELDS

FEEDWATER A  
FW-133

NAVCO

---

---

---

FEEDWATER B  
FW-177

NAVCO

---

---

---

REACTOR VESSEL SAFETY INJECTION  
W-30

NAVCO

---

---

---

ACCUMULATOR DISCHARGE  
W-6

NAVCO

---

---

---

C5.30 BRANCH PIPE CONNECTIONS GREATER THAN 4" NOMINAL BRANCH SIZE

C5.31 CIRCUMFERENTIAL WELD

MAINSTEAM A&B RELIEF HEADER  
MS-181B

NAVCO

---

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FORM NIS-1 OWNERS' DATA REPORT FOR INSERVICE INSPECTIONS

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1.)Owner: Northern States Power Company

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2.)Plant: PRAIRIE ISLAND GENERATING PLANT

Address: WELCH MINNESOTA

3.)Plant Unit: 2 4.) Owner (Certificate of Authorization): --

5.)Commercial Service Date: 12-20-746.)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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FSAR

C5.10 PIPING WELDS 1/2" AND LESS NOMINAL WALL THICKNESS

C5.11 CIRCUMFERENTIAL WELDS

MAIN STEAM A & B MS-35	NAVCO	---	---	---
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C5.20 PIPING WELDS GREATER THAN 1/2" NOMINAL THICKNESS

C5.21 CIRCUMFERENTIAL WELDS

MAIN STEAM A MS-52, MS-56	NAVCO	---	---	---
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FORM NIS-1 OWNERS' DATA REPORT FOR INSERVICE INSPECTIONS

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 Address: 414 Nicollet Mall, Minneapolis, Minnesota 55401
- 2.) Plant: PRAIRIE ISLAND GENERATING PLANT  
 Address: WELCH MINNESOTA
- 3.) Plant Unit: 2 4.) Owner (Certificate of Authorization): --
- 5.) Commercial Service Date: 12-20-74 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>COMPONENT SUPPORTS</u>				
<u>ASME CLASS I</u>				
<u>STEAM GENERATOR</u>				
<u>NO.21</u>	WESTINGHOUSE	1181	---	68-39
BASE ANCHOR BOLTS COL. 2 & 3 BOLTS 1 THRU 8				
<u>STEAM GENERATOR</u>				
<u>NO.22</u>	WESTINGHOUSE	1182	---	68-40
BASE ANCHOR BOLTS COL. 2 & 3 BOLTS 1 THRU 8				
REACTOR COOLANT PUMP 21	WESTINGHOUSE	W510	---	---
BASE ANCHOR BOLTS COL. 3 BOLTS 1 THRU 8				
REACTOR COOLANT PUMP NO. 22	WESTINGHOUSE	W515	---	---
BASE ANCHOR BOLTS COL. 3 BOLTS 1 THRU 8				

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- 7.) Components Inspected:

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

TIE BACK PIN  
 COL. 3

PIPING

SEAL INJECTION LOOP A N, PRCVCH-1515 P1, PRCVCH-1572	NAVCO	---	---	---
SAFETY INJECTION HIGH HEAD LOOP A C, PRSIH-241	NAVCO	---	---	---
SPRAY TO PRESSURIZER BRANCH A J, RCRH-16 N, RCRH-12 T, RCRH-6	NAVCO	---	---	---
SPRAY TO PRESSURIZER BRANCH B G, RCRH-3	NAVCO	---	---	---
RHR TAKE OFF LOOP A O, 9-2RHR-3A Q, RHRRH-8 T, 9-2RHR-2B	NAVCO	---	---	---

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- 7.) Components Inspected:

<u>Component or Appurtenance</u>	<u>Manufacturer or Installer</u>	<u>Manufacturer or Installer Serial No.</u>	<u>State or Province No.</u>	<u>National Board No.</u>
<u>COMPONENT SUPPORTS CONT</u>				
ACCUMULATOR DISCHARGE LOOP A H, SIRH-2	NAVCO	---	---	---
SEAL INJECTION LOOP B O, PRCVCH-1373 P, PRCVCH-1371	NAVCO	---	---	---
CHARGING LINE CVCS G, PRCVCH-1400 U, PRCVCH-1388 W, PRCVCH-1387 Z, PRCVCH-1384	NAVCO	---	---	---
RTD TAKE OFF COLD LEG B A1, PRRCH-283	NAVCO	---	---	---
DRAIN AND LETDOWN LINE C, 105-2CVCS-2	NAVCO	---	---	---
RHR TAKE OFF LOOP B M, 9-2RHR-13 N, 9-2RHR-12	NAVCO	---	---	---

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- 7.) Components Inspected:

<u>Component or Appurtenance</u>	<u>Manufacturer or Installer</u>	<u>Manufacturer or Installer Serial No.</u>	<u>State or Province No.</u>	<u>National Board No.</u>
<u>COMPONENT SUPPORTS CONT</u>				
ACCUMULATOR DISCHARGE LOOP B A1, 100-2SIS-1 A1, RHRRH-37	NAVCO	---	---	---
AUXILIARY SPRAY CVCS A, PRCVCH-1511	NAVCO	---	---	---
REACTOR VESSEL SAFETY INJECTION LOOP A & B D, 102-2SIS-1B	NAVCO	---	---	---
PRESSURIZER SAFETY F, RCRH-50 I, RCRH-51	NAVCO	---	---	---
ASME CLASS II				
MAIN STEAM LOOP A E, MSH-53 I, MSH-38	NAVCO	---	---	---
MAIN STEAM LOOP B D, MSH-45 Q, HDR RESTR'T 8	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 GENERATING PLANT  
 Address: WELCH MINNESOTA
- 3.) Plant Unit: 2 4.) Owner (Certificate of Authorization): --
- 5.) Commercial Service Date: 12-20-74 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>COMPONENT SUPPORTS CONT</u>				
FEEDWATER LOOP A D, FWH-72 A, FWH-66 A, 2-FW-1A	NAVCO	---	---	---
RHR PUMP SUCTION LOOP B B, 9-2RHR-9 N, RHRH-22	NAVCO	---	---	---
RHR PUMP SUCTION LOOP A F, RHRH-55	NAVCO	---	---	---
RHR PUMP DISCHARGE LOOP B D, RHRH-40	NAVCO	---	---	---
RHR PUMP DISCHARGE LOOP A F, RHRH-32	NAVCO	---	---	---
CONTAINMENT SUMP A DISCHARGE D, RHRH-3	NAVCO	---	---	---
RWST DISCHARGE A, SIH-17	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 GENERATING PLANT  
 Address: WELCH MINNESOTA
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- 7.) Components Inspected:

<u>Component or Appurtenance</u>	<u>Manufacturer or Installer</u>	<u>Manufacturer or Installer Serial No.</u>	<u>State or Province No.</u>	<u>National Board No.</u>
<u>COMPONENT SUPPORTS CONT</u>				
ACCUMULATOR DISCHARGE A, 101-2SIS-4	NAVCO	---	---	---
RHR PUMP NO. 21 A, RHRH-28	NAVCO	---	---	---

- 8.) Examination Dates 9/9/85 to 10/21/85
- 9.) Inspection Interval 12/20/84 to 12/20/94
- 10.) Abstract of Examinations.

Include a list of examination and a statement concerning status of work required for current interval.

This was the first inspection conducted for inspection period one of the plant's 2nd Ten Year Inspection 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 the Main Steam and Feedwater systems transversing the Auxiliary Building; and 90% of the required Reactor Pressure 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 220 and 210 tubes for S.G. No. 21 and No. 22, respectively, which exhibited wall thinning. There were a total of 7 and 12 tubes for S.G. No. 21 and No. 22, respectively, that required corrective action.

The following is a list of all anomalies detected:

SYSTEM	ITEM ID	EXAM METHOD	TYPE AND NUMBER OF INDICATIONS
Feedwater A	FW-177	MT	1 linear
	2-FW-1A/A	VT	drawing compliance
Feedwater B	FW-133	MT	3 linear & 5 rounded
Main Steam A	MS-56	VT	gouges
	MS-52	UT	1 linear
Main Steam B	MS-181B	MT	1 linear
	MSH-45/D	VT	drawing compliance
RCP Pump 21	Seal Bolt	UT	loss of back wall
RCP Pump 22	Seal Bolt	UT	loss of back wall
RHR Take OFF A	RHRH-8/Q	VT	drawing compliance
RHR Pump Disch.	W-171	PT	1 linear

<u>SYSTEM</u>	<u>ITEM ID</u>	<u>EXAM METHOD</u>	<u>TYPE AND NUMBER OF INDICATIONS</u>
Charging Line	PRCVCH-1400/G	VT	drawing compliance
	PRCVCH-1387/W	VT	drawing compliance
	PRCVCH-1384/Z	VT	bottomed out
Drain and Letdown	105-2CVCS-2/C	VT	missing weld
PZR Surge	RCRH-51/I	VT	drawing compliance & load setting
	RCRH-50/F	VT	loose bolt
RTD to Cold Leg B	PRRCH-283/A1	VT	loose bolt
Spray to PZR Branch B	RCRH-3/G	VT	cracks in cement
Spray to PZR Branch A	RCRH-16/J	VT	inadequate thread engagement
SI High Head	PRSIH-241/C	VT	arc strike & drawing compliance
Seal Injection	PRCVCH-1512/P1	VT	missing piece
	PRCVCH-1371/P	VT	loose nut, load setting, drawing compliance

12.) Abstract of Corrective Measures Recommended and Taken.

All anomalies were either corrected or an engineering evaluation was performed to accept "as is" conditions. The linear MT and PT indications were removed by light hand grinding and blending the area smooth; the linear UT indication and VT gouges were accepted based on fracture analysis; the UT indications on the seal house bolting were replaced with new bolts; the hangers with loose nuts or bolts were tightened; the hangers with drawing compliances were submitted to drawing control to reflect the "as found" conditions; the hangers which were either bottomed out or incorrect load settings were readjusted to the correct settings; the hangers with missing piece, missing weld, inadequate thread engagement or cracks in the concrete were analyzed for adequacy and found acceptable.



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 JAN 14 19 86 Signed NORTHERN STATES POWER COMPANY By J. C. Dancman  
Owner

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

#### CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of MINNESOTA and employed by HARTFORD STEAM BOILER of HARTFORD, CT have inspected the components described in this Owner's Data Report during the period 9-9-85 to 10-21-85, 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 JAN 14 19 86

[Signature]  
Inspector's Signature

Commissions NB9904 MN 26.34  
National Board, State, Province & No