



PRAIRIE ISLAND NUCLEAR GENERATING PLANT

Red Wing, Minnesota

UNITS 1 AND 2



INSERVICE INSPECTION - EXAMINATION SUMMARY
PRAIRIE ISLAND NUCLEAR GENERATING PLANT - UNIT 1
November 15, 1982 to January 10, 1983

NORTHERN STATES POWER COMPANY

Commercial Service Date: MINNEAPOLIS, MINNESOTA
December 16, 1973

Report Date:
February 10, 1983

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

INSERVICE INSPECTION - EXAMINATION SUMMARY
PRAIRIE ISLAND NUCLEAR GENERATING PLANT - UNIT I
NOVEMBER 15, 1982 THRU JANUARY 10, 1983

REFUELING OUTAGE NO. 7
INSPECTION PERIOD 3

Report Date:
February 10, 1983

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Commercial Service Date:
December 16, 1973

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

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Eddy Current Results and Tube Sheet Maps

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INSERVICE INSPECTION - EXAMINATION SUMMARY
PRAIRIE ISLAND NUCLEAR GENERATING PLANT - UNIT I
November 15, 1982 to January 10, 1983

1.0 INTRODUCTION

This report is a summary of the examinations performed during the seventh inservice inspection at the Prairie Island Nuclear Generating Plant - Unit I. This was the second inservice inspection conducted for inspection period three. The examinations were performed during the plant's seventh refueling outage from November 15, 1982 to January 10, 1983. Prairie Island - Unit I began commercial operation on December 16, 1973.

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

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

2.0 INSPECTION SUMMARY

The evaluation of the results from the inservice examinations indicated that the integrity of the systems has been maintained.

3.0 BALANCE OF PLANT

3.1 EXAMINATION PLAN

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

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

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

3.3 EXAMINATION PROCEDURES

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

3.4 EQUIPMENT AND MATERIALS

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

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

3.5 PERSONNEL

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

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

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

3.6 EVALUATION

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

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

3.7 EXAMINATION REPORTS AND DOCUMENTATION

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

Table I of Appendix A, B, C & D summarizes all the examinations that have been performed to date and identifies the amount that will be examined in the future to complete the ten year examination requirements. For retrieval purposes, the prefix of the inspection report number corresponds with the year that the inspection was performed. The examination report numbers for this outage are prefixed with 82-".

Table II of Appendix A, B, C & D compares the baseline examination results with the results obtained during this examination. Table III of Appendix A, B, C & 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, entitled, "Owners' Data Report for Inservice Inspections".

3.8 SUMMARY OF RESULTS

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

<u>System</u>	<u>Item ID</u>	<u>Exam Method</u>	<u>Type & Number of Indications</u>
Charging line CVCS	R,	VT	loose hanger
Pressurizer Safety Valve	8010B flange bolts	VT	damaged threads
Reactor Vessel Safety Injection	I	PT	1/8" linear
Feedwater B	W-216	MT	3 linears
RHR Pump A Discharge	D	VT	missing bolt
S/G #12 hanger	SGH-4	VT	hanger bottomed out

3.8 SUMMARY OF RESULTS CON'T

All anomalies were corrected. The loose hanger was re-evaluated and reworked; the missing bolt was replaced; the spring hanger that was bottomed out was found to be carrying extra load from the steam generator insulation, the insulation was removed and reinstalled; the bolts with damaged thread were replaced; and the MT & PT indications were removed by light hand grinding and blending the surface smooth.

4.0 EXAMINATION OF THE STEAM GENERATOR TUBING

Eddy current examinations of the tubing in steam generators No. 11 & No. 12 were performed during this outage. The program consisted of full length tube inspections from rows 3 through the outer peripheral rows and a "best effort" basis on rows 1 and 2 with a minimum inspection through the U-bend region. All examinations were conducted from the hot leg side of the generator.

Westinghouse, with technical support from Zetec Corporation, was contracted to perform and evaluate the data from the eddy current examinations. These examinations were performed using Westinghouse's Multi-Frequency eddy current test system. This system provides increased analytical capabilities for determining tube integrity. The frequencies and their modes that were used for each examination were 400KHz, 100KHz and 10KHz in the differential mode, and 100KHz in the absolute mode. In addition, an alternative method for evaluation of indications occurring at the anti-vibration bars (AVB) was utilized during this outage. This technique employed an amplitude response curve based on an in-line AVB standard, which affords a more accurate evaluation of these type of indications.

No reasonable data pertaining to indication growth rate could be obtained this outage due to the minimal number of indications found (1982) and the fact that most indications which would have provided this data were mechanically plugged in 1981. The total number of tubes examined this outage is shown in Table I. A summary of all eddy current indications observed this outage follows as Table II and an itemized listing is attached as Appendix F and G for steam generators (S/G) No. 11 and No. 12, respectively. No tubes were mechanically plugged during this outage.

Table I
Extent of Eddy Current Examinations

Examination Extent	S/G No. 11		S/G No. 12	
	Amount	%	Amount	%
Full Length	188	5.5	186	5.5
Around U-Bend	3169	93.5	3199	94.4

Table II
Summary of Eddy Current Indications

% of Wall Thinning	S/G No. 11	S/G No. 12
< 20	85	29
20-29	12	2
30-39	7	3
40-49	0	0
≥ 50	0	0

APPENDIX A
ASME CLASS 1 - EXAMINATION

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 1

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S1.1

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MAJOR ITEM: REACTOR VESSELS

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

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INSERVICE INSPECTION-EXAMINATION SUMMARY

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MAJOR ITEM: REACTOR VESSELS

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

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MAJOR ITEM: REACTOR VESSELS

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
B1.6	B-F	<u>NOZZLE-TO-SAFE END WELDS</u>					
		REACTOR CORE COOLANT NOZZLES					
		OUTLET NOZZLES	ONE	1	1	RCC-A-1 S.E.	77-W RPV REPORT & 77-156
			TWO	1	1	RCC-B-1 S.E.	80A-W RPV REPORT 80A-121
		INLET NOZZLES	THREE	2	-		
		REACTOR VESSEL SAFETY INJECTOIN NOZZLES					
B1.8	B-G-1	NOZZLE A.S.E.	ONE	1	1	NO. 1	77-W RPV REPORT & 77-155
		NOZZLE B.S.E.	THREE	1	-		
		<u>CLOSURE STUDS AND NUTS</u>	ONE	16	16	#1 THRU #16	77-W RPV REPORT & 77-134
			TWO	16	16	#17 THRU #31 & #33	80A-W RPV REPORT
			THREE	16	16	#32 & #34 THRU #48	82-038, 039, 055
B1.9	B-G-1	<u>LIGAMENTS BETWEEN THREADED STUD HOLES</u>					
			ONE	16	16	STUD HOLE #4 THRU #14 & #23 THRU #29	77-W RPV REPORT
			TWO	13	13	STUD HOLE #16 & #17 & #32 THRU #42	80A-W RPV REPORT
			THREE	19	-		
B1.10	B-G-1	<u>CLOSURE WASHERS AND BUSHINGS</u>					
		WASHERS (PAIRS)					
			ONE	16	16	1 THRU 16	77-W RPV REPORT
			TWO	16	16	17 THRU 31 & 33	80A-W RPV REPORT
			THREE	16	16	32 & 34 THRU 48	82-053
		BUSHINGS	-	-	-	-NONE-	

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INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S1.1

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MAJOR ITEM: REACTOR VESSELS

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
B1.11	B-G-2	<u>PRESSURE RETAINING BOLTING</u>	ONE TWO THREE	3 3 3	9 9 -	ALL 9 HOLES ALL 9 HOLES	77-W RPV REPORT 80A-W RPV REPORT
B1.12	B-H	<u>INTEGRALLY WELDED VESSEL SUPPORTS</u>	THREE	2	-		
B1.13	B-I-1	<u>CLOSURE HEAD CLADDING</u>	ONE TWO THREE	2 2 2	2 2 -	HCP-1 & HCP-2 HCP-3 & HCP-4	77-W RPV REPORT 80A-W RPV REPORT
B1.14	B-I-1	<u>VESSEL CLADDING</u>	ONE TWO THREE	2 2 2	2 2 2	VCP@77 ⁰ , VCP@237 ⁰ VCP@67 ⁰ , VCP@247 ⁰	76-W INTERNALS RPT 79-W INTERNALS RPT
B1.15	B-N-1	<u>VESSEL INTERIOR</u> UPPER INTERNALS AND LOWER INTERNALS	ONE TWO THREE	* * *	* * -	* * * REPRESENTATIVE REGIONS OF THOSE INTERIOR SURFACES AND INTERNALS MADE ACCESSIBLE BY THE REMOVAL OF COMPONENTS DURING NORMAL REFUELLING OPERATIONS	76-W INTERNALS RPT 79-W INTERNALS RPT
B1.16	B-N-2	<u>INTERIOR ATTACHMENTS AND CORE SUPPORT STRUCTURES</u>	-	-	-	-NOT APPLICABLE FOR PWR VESSELS-	
B1.17	B-N-3	<u>REMOVABLE CORE-SUPPORT STRUCTURES</u>	THREE	*-	-	* 100% OF THE VISUALLY ACCESSIBLE ATTACHMENT WELDS AND VISUALLY ACCESSIBLE SURFACES OF THE CORE SUPPORT STRUCTURE	

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MAJOR ITEM: REACTOR VESSELS

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
B1.18	B-O	<u>CONTROL ROD DRIVE HOUSINGS</u>					
		PERIPHERAL CRD HOUSINGS	THREE	2	-		
B1.19	B-P	<u>EXEMPTED COMPONENTS</u>	-	*-	-	* ALL COMPONENTS EXEMPTED FROM VOLUMETRIC AND SURFACE EXAMI- NATION BY IWB-1200	* PERFORMED BY PLANT PERSONNEL IN ACCORD- ANCE WITH IWA-5000 DURING EACH SYSTEM LEAKAGE TEST AND EACH SYSTEM HYDRO- STATIC TEST REQUIRED BY IWB-5000

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PRAIRIE ISLAND UNIT 1

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S1.2

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MAJOR ITEM: PRESSURIZER

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

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MAJOR ITEM: PRESSURIZER

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

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INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S1.3.1

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MAJOR ITEM: STEAM GENERATORS

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

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MAJOR ITEM: STEAM GENERATORS

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

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INSERVICE INSPECTION-EXAMINATION SUMMARY

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MAJOR ITEM: STEAM GENERATORS

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

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MAJOR ITEM: STEAM GENERATORS

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

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MAJOR ITEM: REGENERATIVE HEAT EXCHANGER

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

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MAJOR ITEM: EXCESS LETDOWN HEAT EXCHANGER

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

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MAJOR ITEM: PIPING PRESSURE BOUNDARY

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
B4.1	B-	<u>SAFE END TO PIPING AND SAFE END IN BRANCH PIPING WELDS</u>					
		<u>REACTOR VESSEL</u>					
		REACTOR CORE COOLANT SYSTEMS	ONE	1	1	RCC-A-1 S.E. 29-RC-1A,	77-W RPV REPORT & 77-156
			TWO	1	1	RCC-B-1 S.E., 29-RC-1B	80A-W RPV REPORT 80A-121
			THREE	2	-		
		SAFETY INJECTION SYSTEMS	ONE	1	1	W-2, 4-RC-14A	77-W RPV REPORT & 77-154
			THREE	1	1	W-2	82-069, 70
		<u>STEAM GENERATOR NO. 11</u>					
		REACTOR CORE COOLANT SYSTEM	ONE	1	1	RCC-A-5, 31-RC-2A	76-2, 29, 30
			THREE	1	-		
		<u>STEAM GENERATOR NO. 12</u>					
		REACTOR CORE COOLANT SYSTEM	TWO	1	1	RCC-B-5, 31-RC-2B	80A-62, 68
			THREE	1	-		
		<u>PRESSURIZER</u>					
		SAFETY LINES	ONE	2	2	8010A-1B S.E. 8010B-1B S.E.	76-3, 55 76-4, 58
			TWO	2	2	8010A-1B S.E. 8010B-1B S.E.	80A-20, 41 80A-21, 43
		SURGE LINE	TWO	1	1	W-6SE, 10-RC-4	78-025, 084
		RELIEF LINE	TWO	1	1	W-1B, S.E.	80-19, 38
			THREE	1	1	W-1B, S.E.	81-130, 206

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SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
B4.1	B-F	(CONT'D)					
		SPRAY LINE	TWO THREE	1 1	1 1	W-29, S.E. W-29, S.E.	80A-18, 37 81-143, 209
B4.2, B.43 & B4.4	B-G-1	<u>PRESSURE RETAINING BOLTS AND STUDS (2 IN. DIA.)</u>	-	-	-	-NONE-	
B4.5	B-J-	<u>CIRCUMFERENTIAL AND LONGITU- DINAL PIPE WELDS</u>					
		<u>LONGITUDINAL WELDS</u>	-	-	-	-NONE-	
		<u>CIRCUMFERENTIAL WELDS</u>					
		<u>(1.5 IN. NOM. DIA. SYSTEMS)</u>					
		SEAL INJECTION A	ONE TWO THREE	1 1 1	1 1 1	W-1 W-6 W-5	77-113, 141 78-086, 112 81-256
		SEAL INJECTION B	ONE TWO THREE	1 1 1	1 1 1	W-6 W-2B W-2A	77-38, 94 78-087, 111 81-257
		<u>(2.0 IN. NOM. DIA. SYSTEMS)</u>					
		SEAL INJECTION A	ONE ONE TWO THREE	3 2 3 4	3 BASELINE 3 3	W-11, 14, 16A W-48A, 48B W-34, 37, 47 W-21, 22, 27	77-114, 143, 107, 123, 107, 125 77-150, 151, 152 79-52, 82, 79 81-84, 83, 85 .

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SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
B4.5	B-J	(CONT'D)					
		SEAL INJECTION B	ONE	2	2	W-29, 30	77-20, 42, 43
			TWO	2	2	W-14, 15A	79-SP2-75, 83
			TWO	2	BASELINE	W-CJ-4, D5228-3	80A-128, 129
			THREE	4	4	W-10, 11, 18, 19	81-269, 252, 121, 120
		CHARGING LINE CVCS	ONE	6	6	W-41, 57, 62, 69, 70, 73	77-86, 98, 18, 46, 18, 45, 19, 41, 19, 40, 19, 39
			TWO	6	6	W-36, 37, 66	78-078, 074, 073
						W-2, 3, 34	79-54, 55, 50
			THREE	6	4	W-11, 12, 20, 21	82-049, 050, 051, 052
		LETDOWN LINE CVCS	ONE	1	1	W-13	77-69, 73
			TWO	1	1	W-11	79-51
			THREE	2	2	w-2, 16	81-125, 124
		AUXILLIARY SPRAY TO PRESSURIZER	ONE	1	1	W-1	77-70, 74
			TWO	2	2	W-8, 9	79-SP2-81, 82
			THREE	2	2	W-1A, 3	82-102, 103
		RESIDUAL TEMPERATURE DETECTOR TAKE OFF- COLD LEG A	ONE	1	1	W-16	77-122, 142
			TWO	2	2	W-20, 22	79-SP2-77, 78
			THREE	1	-		
		RESIDUAL TEMPERATUREB DETECTOR TAKE OFF- COLD LEG B	ONE	1	1	W-14	77-184, 103
			TWO	1	1	W-2	79-80
			THREE	1	-		
		RESIDUAL TEMPERATURE DETECTOR TAKE OFF- HOT LEG A	ONE	1	1	W-23	77-121, 144
			TWO	1	1	W-19	79-SP2-76
			THREE	2	-		

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MAJOR ITEM: PIPING PRESSURE BOUNDARY

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
B4.5	B-J	(CONT'D)					
		RESIDUAL TEMPERATURE DETECTOR TAKE OFF- HOT LEG B	ONE TWO THREE	1 1 2	1 1 -	W-24 W-5	77-89, 106 79-81
		SAFETY INJECTION HIGH HEAD A	ONE TWO THREE	1 - 1	1 - 1	W-1A W-5	77-50, 72 81-82
		SAFETY INJECTION HIGH HEAD B	ONE TWO THREE	1 1 2	1 1 2	W-13 W-1 W-4, 5	77-51, 71 79-71 81-254, 253
		DRAIN LINE ON CROSSOVER A	ONE TWO THREE	1 1 1	1 1 1	W-4 W-8 W-6	77-52, 145 78-077 81-126
		DRAIN LINE ON CROSSOVER B	ONE TWO THREE	- 1 1	- 1 1	W-2 W-7	79-53 81-122
		REACTOR VESSEL SAFETY INJECTION LOW HEAD A	ONE TWO THREE	- 1 3	- 1 3	W-7 W-8, 11, 9	78-080 81-79, 81, 80
		REACTOR VESSEL SAFETY INJECTION LOW HEAD B	ONE TWO THREE	1 1 1	1 1 1	W-7 W-2 W-7A	77-17, 44 78-079 81-78
		<u>(3.0 IN. NOM. DIA. SYSTEMS)</u>					
		SPRAY TO PRESSURIZER BRANCH A	ONE TWO THREE	3 4 4	3 4 2	W-3, 11, 25A W-6, 10, 19, 24 W-20, 21	77-54, 115, 88, 108, 97, 99 79-94, 92, 91, 89 81-210, 211

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SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
B4.5	B-J	(CONT'D)					
		SPRAY TO PRESSURIZER BRANCH B	ONE TWO THREE	1 1 2	1 1 2	W-2 W-14 W-1, 3	77-104, 117 79-90 82-040, 043
		RESIDUAL TEMPERATURE DETECTOR RETURN A	ONE TWO THREE	1 1 1	1 1 1	W-4 W-8 W-6	77-53, 116 78-075 82-041
		RESIDUAL TEMPERATURE DETECTOR RETURN B	ONE TWO THREE	1 1 1	1 1 -	W-3 W-7	77-83, 95 78-076
		PRESSURIZER RELIEF LINE A	ONE TWO THREE	1 1 1	1 1 1	W-9 W-6 W-11	77-87, 100 79-77 81-207
		PRESSURIZER RELIEF LINE B	ONE TWO THREE	1 - -	1 - -	W-14	77-87, 101
		<u>(4.0 IN. NOM. DIA. SYSTEMS)</u>					
		SAFETY INJECTION LOW HEAD A	ONE TWO THREE	1 - -	- - -	NONE OF THESE WELDS ARE ACCESSIBLE; THEY ARE LOCATED WITHIN THE CONCRETE SHIELD WALL	
		SAFETY INJECTION LOW HEAD B	ONE TWO THREE	- - 1	- - -	NONE OF THESE WELDS ARE ACCESSIBLE; THEY ARE LOCATED WITHIN THE CONCRETE SHIELD WALL	

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MAJOR ITEM: PIPING PRESSURE BOUNDARY

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
B4.5	B-J	(CONT'D)					
		<u>(6.0 IN. NOM. DIA. SYSTEMS)</u>					
		SAFETY INJECTION LOW HEAD A	ONE TWO THREE	2 - -	2 - -	W-9, 10	76-67, 68
		SAFETY INJECTION LOW HEAD B	ONE TWO THREE	- 1 -	- 1 -	W-5	79-74
		SAFETY INJECTION HIGH HEAD A	ONE TWO THREE	- 1 -	- 1 -	W-1	79-73
		SAFETY INJECTION HIGH HEAD B	ONE TWO THREE	- - 1	- - -		
		PRESSURIZER SAFETY LINE A	ONE TWO THREE	2 - 4	2 - 4	W-2, 3 W-7, 8, 10 W-6	76-56, 57 81-190, 164, 165 82-100
		PRESSURIZER SAFETY LINE B	ONE TWO THREE	- 1 3	- 1 3	W-4 W-7, 8, 10	79-76 81-156, 158, 157
		PLO-CAP A	ONE TWO THREE	- - 1	- - -		
		PLO-CAP B	ONE TWO THREE	- 1 -	- 1 -	W-1	79-72

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MAJOR ITEM: PIPING PRESSURE BOUNDARY

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
B4.5	B-J	(CONT'D)					
		<u>(8.0 IN. NOM. DIA. SYSTEMS)</u>					
		RESIDUAL HEAT REMOVAL TAKE OFF A	ONE	6	6	W-1, 20, 21, 22 23, 24	76-53, 39, 40, 41, 42, 43
			TWO	2	2	W-12, 14	78-034, 035
			THREE	2	2	W-5, 7	81-277, 279
		RESIDUAL HEAT REMOVAL TAKE OFF B	ONE	2	2	W-10, 19	77-90, 92, 68
			TWO	2	2	W-9, 17	78-045, 046
			THREE	2	2	W-4, 7	81-278, 275
		<u>(10.0 IN. NOM. DIA. SYSTEMS)</u>					
		RESIDUAL HEAT REMOVAL RETURN B	ONE	2	2	w-8,9	76-64, 65
			TWO	1	1	W-5	78-83
			THREE	1	-		
		PRESSURIZER SURGE LINE B	ONE	2	1	W-5	76-54
			TWO	-	-		
			THREE	1	-		
		<u>(12.0 IN. NOM. DIA. SYSTEMS)</u>					
		ACCUMULATOR DISCHARGE A	ONE	3	3	W-6, 7, 8	76-36, 61, 37, 62, 38, 63
			TWO	-	-		
			THREE	1	1	W-2	82-044
		ACCUMULATOR DISCHARGE B	ONE	1	1	W-13	77-75, 49, 49R
			TWO	1	1	W-5	79-45, 48
			THREE	2	-		

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MAJOR ITEM: PIPING PRESSURE BOUNDARY

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
B4.5	B-J	(CONT'D)					
		<u>(27.5 IN. NOM. DIA. SYSTEMS)</u>					
		REACTOR CORE COOLANT	ONE	-	-		
		COLD LEG (INLET) A	TWO	-	-		
			THREE	1	-		
		REACTOR CORE COOLANT	ONE	-	-		
		COLD LEG (INLET) B	TWO	1	1	RCC-B-12	80A-87
			THREE	-	-		
		<u>(29.0 IN. NOM. DIA. SYSTEMS)</u>					
		REACTOR CORE COOLANT	ONE	-	-		
		HOT LEG (OUTLET) A	TWO	-	-		
			THREE	1	-		
		REACTOR CORE COOLANT	ONE	1	1	W-3	77-102
		HOT LEG (OUTLET) B	TWO	-	-		
			THREE	-	-		
		<u>(31.0 IN. NOM. DIA. SYSTEMS)</u>					
		REACTOR CORE COOLANT	ONE	3	3	W-6, 7, 8	76-28,31,27,32,1,33
		CROSSOVER A	TWO	-	-		
			THREE	1	-		
		REACTOR CORE COOLANT	ONE	-	-		
		CROSSOVER B	TWO	2	2	RCC-B-6	80A-67, 63
			THREE	-	-	RCC-B-7	80A-69

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SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
B4.6	B-J	<u>BRANCH PIPE CONNECTION WELDS EXCEEDING SIX INCH DIAMETER</u>					
		ACCUMULATOR DISCHARGE A	ONE	1	1	W-R	76-34, 44, 45
		ACCUMULATOR DISCHARGE B	-	-	-		
		RESIDUAL HEAT REMOVAL TAKE OFF B	TWO	1	1	W-R	80A-66, 75, 76
		PRESSURIZER SURGE LINE B	THREE	1	-		
		RESIDUAL HEAT REMOVAL TAKE OFF A	ONE	1	1	W-R	76-35, 52
B4.7	B-J	<u>BRANCH PIPE CONNECTION WELDS SIX INCH DIAMETER AND SMALLER</u>					
		<u>(6.0 IN. NOM. DIA. SYSTEMS)</u>					
		PLO-CAP A	-	-	-		
		PLO-CAP B	-	-	-		
		SAFETY INJECTION HIGH HEAD A	THREE	1	-		
		SAFETY INJECTION HIGH HEAD B	-	-	-		
		<u>(3.0 IN. NOM. DIA. SYSTEMS)</u>					
		SPRAY TO PRESSURIZER BRANCH A	-	-	-		

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SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
B4.7	B-J	(CONT'D)					
		SPRAY TO PRESSURIZER BRANCH B	THREE	1	1	W-R	82-064
		RESIDUAL TEMPERATURE DETECTOR RETURN A	-	-	-		
		RESIDUAL TEMPERATURE DETECTOR RETURN B	-	-	-		
		<u>(2.0 IN. NOM. DIA. SYSTEMS)</u>					
		RESIDUAL TEMPERATURE DETECTOR TAKE OFF COLD LEG A	ONE	1	1	W-R	77-133
		RESIDUAL TEMPERATURE DETECTOR TAKE OFF COLD LEG B	-	-	-		
		DRAIN LINE ON CROSSOVER A	-	-	-		
		DRAIN LINE ON CROSSOVER B	-	-	-		
		CHARGING LINE CVCS	TWO	1	1	W-R	79-83, 83R
		REACTOR VESSEL SAFETY INJECTION LOW HEAD A	THREE	1	1	W-R	81-94, 94R
		REACTOR VESSEL SAFETY INJECTION LOW HEAD B	-	-	-		

NORTHERN STATES POWER CO.

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INSERVICE INSPECTION-EXAMINATION SUMMARY

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MAJOR ITEM: PIPING PRESSURE BOUNDARY

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
B4.8	B-J	<u>SOCKET WELDS</u> <u>(2.0 IN. NOM. DIA. SYSTEMS)</u>					
		SEAL INJECTION A	ONE	-	-		
			TWO	1	1	SW-17	78-019
			THREE	1	1	SW-18	81-263
		SEAL INJECTION B	ONE	1	1	SW-9A	77-036
			TWO	1	BASELINE	SW-CJ-3	80A-130
			THREE	1	1	SW-13	81-265
		CHARGING LINE B	ONE	1	1	SW-75	77-065
			TWO	1	1	SW-1	79-44
			THREE	1	1	W-29	82-123
		LETDOWN LINE CVCS	ONE	-	-		
			TWO	1	1	SW-5	79-21
			THREE	-	-		
		AUXILLIARY SPRAY TO PRESSURIZER	ONE	1	1	SW-1C	77-070
			TWO	-	-		
			THREE	-	-		
		RESIDUAL TEMPERATURE DETECTOR TAKE OFF COLD LEG A	ONE	1	1	SW-2	77-133
			TWO	1	1	SW-13/SW-13	78-24, 24R/79-69, 69R
			THREE	1	-	SW-13	80A-109
		RESIDUAL TEMPERATURE DETECTOR TAKE OFF COLD LEG A	ONE	1	1	SW-7	77-084
			TWO	1	1	SW-5	79-42
			THREE	1	-		
		RESIDUAL TEMPERATURE DETECTOR TAKE OFF HOT LEG A	ONE	-	-		
			TWO	1	1	SW-10	79-SP2-73, 73R
			THREE	1	-	SW-10	80A-65

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PRAIRIE ISLAND UNIT

INSERVICE INSPECTION-EXAMINATION SUMMARY

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 MAJOR ITEM: PIPING PRESSURE BOUNDARY

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
B4.8	B-J	(CONT'D)					
		RESIDUAL TEMPERATURE	ONE	-	-		
		DETECTOR TAKE OFF	TWO	1	1	SW-15	79-43
		HOT LEG B	THREE	1	1	W-14	82-065
		SAFETY INJECTION	ONE	-	-		
		HIGH HEAD A	TWO	-	-		
			THREE	1	1	SW-6	81-111
		SAFETY INJECTION	ONE	1	1	SW-17	77-51
		HIGH HEAD B	TWO	-	-		
			THREE	-	-		
		DRAIN LINE ON	ONE	1	1	SW-1	77-52
		CROSSOVER A	TWO	-	-		
			THREE	-	-		
		DRAIN LINE ON	ONE	-	-		
		CROSSOVER B	TWO	1	1	SW-1	79-22
			THREE	1	1	SW-8	81-117
		REACTOR VESSEL	ONE	-	-		
		SAFETY INJECTION	TWO	-	-		
		LOW HEAD A	THREE	1	1	SW-12	81-93
		REACTOR VESSEL	ONE	1	1	SW-8	77-17
		SAFETY INJECTION	TWO	-	-		
		LOW HEAD B	THREE	-	-		
B4.9	B-K-1	<u>INTEGRALLY WELDED SUPPORTS</u>					
		RESIDUAL HEAT REMOVAL	ONE	2	2	F, G	76-18, 19
		RETURN B					

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INSERVICE INSPECTION-EXAMINATION SUMMARY

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MAJOR ITEM: PIPING PRESSURE BOUNDARY

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
34.9	B-K-1	(CONT'D)					
		ACCUMULATOR DISCHARGE A	ONE	1	1	D1	76-69
		RESIDUAL HEAT REMOVAL TAKE OFF A	ONE TWO THREE	1 1 1	1 1 1	F I K1	77-67, 91 78-052, 082, 088 81-276, 264, 214
		SPRAY TO PRESSURIZER BRANCH A	ONE	1	1	K1	77-93, 66
		REACTOR VESSEL SAFETY INJECTION LOW HEAD A & B (6")	-	-	-		
		CHARGING LINE CVCS	-	-	-		
		SAFETY INJECTION HIGH HEAD A	-	-	-		
		ACCUMULATOR DISCHARGE B	TWO	1	1	B1	79-46, 20, 36
		RESIDUAL HEAT REMOVAL TAKE OFF B	TWO	1	1	H	78-047, 020, 020R
		SPRAY TO PRESSURIZER BRANCH	TWO THREE	1 -	1 -	E E E	79-93, 70, 70R, 33 80A-56, 92, 59, 59R 81-216, 132, 136
		AUXILLIARY SPRAY CVCS	THREE	1	1	A	82-010, 060
		REACTOR VESSEL SAFETY INJECTION LOW HEAD A & B (2")	-	-	-		
		SEAL INJECTION A	THREE	1	1	I	81-86, 95, 114

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 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.
34.9	B-K-1	(CONT'D)					
		SAFETY INJECTION HIGH HEAD B	-	-	-		
		LETDOWN LINE CVCS	-	-	-		
		SEAL INJECTION B	THREE	1	1	B1	81-270, 266, 227
		RESIDUAL TEMPERATURE DETECTOR TAKE OFF COLD LEG A	-	-	-		
34.10	B-K-2	<u>SUPPORT COMPONENTS</u>					
		REACTOR CORE COOLANT A	ONE THREE	1 1	1 -	A1	77-12
		ACCUMULATOR DISCHARGE A	-	-	-	-NONE-	
		RESIDUAL HEAT REMOVAL TAKE OFF A	ONE TWO THREE	4 6 6	3 7 6	L, O, Q1 K2-MISSED IN PERIOD ONE A, D, E, K2 E1, F1, G1 G2, H, I1, J1, M, N	76-82 78-31, 32, 33, 64, 64R 79-5, 4, 6 81-243, 116, 100, 99 107, 107R, 109
		SAFETY INJECTION HIGH HEAD A	-	-	-		
		SPRAY TO PRESSURIZER BRANCH A	ONE TWO THREE	4 4 4	4 4 3	H, J, L, M D, A & B/C1 F, G, K	76-83 78-71, 51/79-7 82-003, 013, 018
		RESISTANCE TEMPERATURE DETECTOR RETURN A	ONE TWO THREE	- 1 1	- 1 -	A	78-067

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 MAJOR ITEM: PIPING PRESSURE BOUNDARY

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
B4.10	B-K-2	(CONT'D)					
		RESISTANCE TEMPERATURE	ONE	1	1	A	72-111
		DETECTOR TAKE OFF	TWO	2	2	D/B	78-65/79-27, 27R
		COLD LEG A				B	80A-108
			THREE	2	-		
		RESISTANCE TEMPERATURE	ONE	1	1	A	77-110
		DETECTOR TAKE OFF	TWO	1	1	B	79-28
		HOT LEG A	THREE	2	-		
		SAFETY INJECTION	ONE	-	-		
		HIGH HEAD A	TWO	-	-		
			THREE	1	1	A	81-244, 244R
		DRAIN LINE ON	ONE	1	1	B	76-84
		CROSSOVER A	TWO	1	1	B1	78-050
			THREE	1	1	C	81-106
		SEAL INJECTION A	ONE	6	6	D, G, H, J, K, I1	76-85
			TWO	6	6	C, D, E, P	78-069, 059, 068, 060
						A, B/A1	79-23, 24/79-SP2-89
			THREE	7	7	E1, L, M, N, O, Q, Q1	81-104, 103, 97, 105
							98, 218, 224
		REACTOR CORE COOLANT B	ONE	-	-		
			TWO	1	1	B2	80A-125
			THREE	2	-		
		ACCUMULATOR DISCHARGE B	ONE	1	1	B	76-86
			TWO	-	-		
			THREE	-	-		
		RESIDUAL HEAT REMOVAL	ONE	1	-	A - MISSED IN PERIOD ONE	
		RETURN	TWO	2	2	A, B	78-054, 061
			THREE	2	2	C, D	82-002, 126

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INSERVICE INSPECTION-EXAMINATION SUMMARY

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MAJOR ITEM: PIPING PRESSURE BOUNDARY

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
B4.10	B-K-2	(CONT'D)					
		RESIDUAL HEAT REMOVAL TAKE OFF B	ONE TWO THREE	3 4 4	4 4 4	K. L. M. N A, D, E, F G, I, J, N	76-88 78-53, 30/79-26, 25 81-217, 226, 241, 225
		SAFETY INJECTION HIGH HEAD B	-	-	-	-NONE-	
		SPRAY TO PRESSURIZER BRANCH B	ONE TWO THREE	3 3 4	4 3 4	A, B, C, D A1, D, D1 F & H, I, J, K	76-89 79-31, 32, 34 81-133, 141, 140, 138
		RESISTANCE TEMPERATURE DETECTOR RETURN N	ONE TWO THREE	- 1 1	- 1 -	A	78-066
		RESISTANCE TEMPERATURE DETECTOR TAKE OFF COLD LEG B	ONE TWO THREE	1 2 2	1 2 -	B C/B/D	77-63 78-56/79-35/79-SP2-90
		RESISTANCE TEMPERATURE DETECTOR TAKE OFF HOT LEG B	ONE TWO THREE	1 2 2	1 2 2	A B/C D, E	77-61 78-55/79-16 82-001, 014
		SAFETY INJECTION HIGH HEAD B	ONE TWO THREE	1 - 1	1 - -	A	76-90
		DRAIN LINE ON CROSSOVER B	ONE TWO THREE	- 1 -	- 1 -	A	79-SP2-66

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INSERVICE INSPECTION-EXAMINATION SUMMARY

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 MAJOR ITEM: PIPING PRESSURE BOUNDARY

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
B4.10	B-K-2	(CONT'D)					
		CHARGING LINE CVCS	ONE	6	6	H, I, J, K, L, N	76-91
			TWO	6	6	E, D,	78-062, 063
			THREE	7	7	A, B, F, G	79-12, 13, 40, 41
						O, P, Q, Q1	82-004, 005, 015, 016
						R, R1, S	82-006, 006R, 017, 026
		LETDOWN LINE CVCS	ONE	2	2	A/C	76-93/77-60
			TWO	2	2	C1, D	79-SP2-93, 94
			THREE	4	4	E, F, G, H	81-123, 112, 118, 118R, 113
		SEAL INJECTION B	ONE	3	3	G/A, B	76-93, /77-82, 109
			TWO	3	3	C/B2, C1	78-57/79-18, 19
			THREE	3	3	D, E, E1	81-101, 102, 242
		PRESSURIZER SURGE B	ONE	3	3	A, B/C	76-94/77-80
			TWO	3	3	E/D, C1	78-072/79-SP2-95,
			THREE	4	-	D	95R, 96/80A-57
		PRESSURIZER SAFETY LINES A & B	-	-	-	-NONE-	
		REACTOR VESSEL	ONE	1	1	A1	76-95
		SAFETY INJECTION (6"x4")	TWO	1	1	A2	79-1
		LOW HEAD A & B	THREE	1	-		
		PRESSURIZER RELIEF	ONE	-	-		
		LINES A & B	TWO	1	1	A	78-037, 036, 036R
			THREE	1	1	B	81-139, 139R
		AUXILLIARY SPRAY TO	ONE	2	2	B, C	76-96
		PRESSURIZER B	TWO	2	2	D, E	79-SP2-91, 92
			THREE	2	2	F, G	82-011, 012

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
B4.10	B-K-2	(CONT'D) REACTOR VESSEL SAFETY INJECTION (2") LOW HEAD A & B PLO-CAP A PLO-CAP B	ONE TWO THREE - -	- 1 1 - -	- 1 1 - -	A1 A -NONE- -NONE-	78-029 81-108
B4.11	B-P	EXEMPT AND NON-EXEMPT COMPONENTS HYDROSTATICALLY PRESSURE TESTED TO IWA-5000 AND IWB-5000 AT END OF TEN INTERVAL PLUS SYSTEM LEAKAGE TEST EACH SCHEDULED REFUELING OUTAGE <u>EXEMPT:</u> RESISTANCE TEMPERATURE DETECTOR-TAKE OFF 1-RC-7A EXCESS LETDOWN LINE A 1-RC-8 1-VC-7 1-VC-9 RESISTANCE TEMPERATURE DETECTOR TAKE OFF 1-RC-7B REACTOR VESSEL CLOSURE HEAD VENT 1-RC-36 REACTOR VESSEL CLOSURE HEAD FLANGE 1-RC-9A 1-RC-9B	-	*	-	* ALL COMPONENTS EXAMINED IN ACCORDANCE WITH IWA-500 AND IWB-5000 DURING SYSTEM LEAKAGE TEST	PERFORMED BY PLANT PERSONNEL

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INSERVICE INSPECTION-EXAMINATION SUMMARY

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 PIPING PRESSURE BOUNDARY
 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.
B4.12	B-G-2	PRESSURE RETAINING BOLTING (ONLY SYSTEMS APPLICABLE TO THIS ITEM ARE LISTED)					
		SEAL INJECTION A	ONE	4	4	BOLTS 1-4 @ W-10	76-7
			TWO	4	4	BOLTS 1-4 @ W-2	78-081
		RESISTANCE TEMPERATURE DETECTOR RETURN A	ONE	8	8	BOLTS 1-8	76-12
			THREE	8	-		
		PRESSURIZER SAFETY LINE A	ONE	12	12	BOLTS 1-12 (8010-A)	76-17
			TWO	12	12	BOLTS 1-12 (8010-A)	79-85
			THREE	-	12	BOLTS 1-12 (8010-A)	82-020, 022
		SEAL INJECTION B	ONE	4	4	BOLTS 1-4	76-16
			THREE	4	4	BOLTS 1-4	81-271
		RESISTANCE TEMPERATURE DETECTOR RETURN B	TWO	8	8	BOLTS 1-8 @ W-7	79-14
			THREE	8	-	(REPEAT)	
		PRESSURIZER SAFETY LINE B	THREE	12	12	BOLTS 1-12 (8010-B)	82-019, 021, 045

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MAJOR ITEM:

REACTOR CORE COOLANT PUMPS

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
B5.1 & B5.3	B-G-1	<u>PRESSURE-RETAINING BOLTS AND STUDS, IN PLACE (2 IN. DIA)</u>					
		<u>FLANGE BOLTS</u>					
		PUMP A	ONE	8	8	BOLTS 10 THRU 17	76-26
			TWO	8	8	BOLTS 18 THRU 1	78-085
			THREE	8	-		
		PUMP B	ONE	8	8	BOLTS 1 THRU 8	76-75
			TWO	8	8	BOLTS 9 THRU 16	78-085
			THREE	ITEM B5.2	-		
		<u>SEAL HOUSE BOLTING</u>					
		PUMP A	ONE	4	4	BOLTS 1 THRU 4	76-76
			TWO	4	12	BOLTS 1 THRU 12	78-104, 107
			THREE	4	24	BOLTS 1 THRU 12	82-033, 034
B5.2 & B5.3	B-G-1	PUMP B	ONE	4	4	BOLTS 7 THRU 10	76-77
			TWO	4	12	BOLTS 1 THRU 12	78-105, 106
			THREE	ITEM B5.2	-		
		<u>PRESURE RETAINING BOLTS AND STUDS (2 IN. DIA.)</u>					
		PUMP B FLANGE BOLTING	THREE	24	-		
		PUMP B SEAL HOUSE BOLTING	TWO	12	12	BOLTS 1 THRU 12 (MT ONLY)	80A-74
			THREE	12	24*	BOLTS 1 THRU 12	82-056, 057 *UPPER AND LOWERS

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INSERVICE INSPECTION-EXAMINATION SUMMARY

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 MAJOR ITEM: REACTOR CORE COOLANT PUMPS

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

NORTHERN STATES POWER CO.

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INSERVICE INSPECTION-EXAMINATION SUMMARY

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MAJOR ITEM: REACTOR CORE COOLANT PUMPS

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

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INSERVICE INSPECTION-EXAMINATION SUMMARY

MAJOR ITEM:

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 VALVE PRESSURE BOUNDARY

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

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INSERVICE INSPECTION-EXAMINATION SUMMARY

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MAJOR ITEM: VALVE PRESSURE BOUNDARY

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

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 MAJOR ITEM: VALVE PRESSURE BOUNDARY

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

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT

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INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S1.6

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MAJOR ITEM: VALVE PRESSURE BOUNDARY

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

COMPONENT/SYSTEM	NSP ISO	NDE METHOD	W BASELINE IDENT.	REPORT NO.	BASELINE INDICATIONS	ISI INDICATIONS	EXAMINATION LIMITATIONS
<u>REACTOR VESSEL</u>							
B1.8 <u>CLOSURE STUDS AND NUTS</u>							
STUDS	37	UT	32, 34 thru 48	82-039	None	None	None
		MT	32, 34 thru 48	82-055	None	None	None
NUTS	37	UT	32, 34 thru 48	82-038	None	None	None
B1.10 <u>CLOSURE WASHERS AND BUSHINGS</u>							
WASHERS	37	VT	32, 34 thru 48	82-053	None	None	None
B3.10 <u>PRESSURE-RETAINING BOLTING</u> (< 2 inch diameter)							
MANWAY BOLTS S/G #11	43	UT	Inlet Outlet	82-113 82-113	None None	None None	None None
	43	MT	Inlet Outlet	82-027 82-027	None None	None None	None None
MANWAY BOLTS S/G #12	43	UT	Inlet Outlet	82-114 82-114	None None	None None	None None
	43	MT	Inlet Outlet	82-028 82-028 82-061	None None None	None None None	None None None

COMPONENT/SYSTEM	NSP ISO	NDE METHOD	W BASELINE IDENT.	REPORT NO.	BASELINE INDICATIONS	ISI INDICATIONS	EXAMINATION LIMITATIONS
B4.1 <u>SAFE-END TO PIPE AND SAFE-END IN BRANCH PIPING WELDS</u>							(B.E.=Best Effort)
SAFETY INJECTION	70	UT	W-2	82-070	None	S-2, 24% Spot @1:30 S-3, 34% Spot @7:45	S-2 B.E.-Config.
		PT		82-069	None	None	None
B4.5 <u>CIRCUMFERENTIAL AND LONGITUDINAL PIPE WELDS</u>							(EIR) = Elbow Inner Radius
CHARGING LINE CVCS	1A	UT	W-11	82-049	N/A	None	B.E. S-1 EIR
	1A	UT	W-12	82-050	N/A	None	B.E. S-2 EIR
	1B	UT	W-20	82-051	N/A	None	B.E. S-2 EIR
	1B	UT	W-21	82-052	N/A	None	B.E. S-1 EIR
AUXILIARY SPRAY TO PRESSURIZER	32	UT	W-1A	82-102	N/A	None	B.E. S-1, S-7, S-8, 4:00 to 8:00 EIR
SPRAY TO PRESSURIZER B	5D	UT	W-1	82-043	None	S-1, OD GEO 20% S-2, ID GEO 32%	B.E. S-1 Config.
	5D	UT	W-3	82-040	None	S-1, OD GEO 50% S-2, ID/OD GEO 30%	B.E. S-1 @ 12:00- Branch

COMPONENT/SYSTEM	NSP ISO	NDE METHOD	W BASELINE IDENT.	REPORT NO.	BASELINE INDICATIONS	ISI INDICATIONS	EXAMINATION LIMITATIONS
RESIDUAL TEMPERATURE DETECTOR RETURN A	6	UT	W-6	82-041	None	S-2, ID/OD GEO 30%	B.E.S-2 2:00-10:00 EIR, 3:30-8:30 Support
PRESSURIZER SAFETY LINE A	29	UT	W-6	82-100	None	None	B.E.S-1, S-7, S-8, EIR
ACCUMULATOR DIS- CHARGE A	2	UT	W-2	82-044	ID GEO 50 to 100%	None	B.E.S-1 6:00 to 12:00 Insulation
B4.7 <u>BRANCH PIPE CONNEC- TION WELDS SIX INCH DIAMETER AND SMALLER</u>							
SPRAY TO PRESSURIZER B	5D	P T	W-R	82-064	None	None	None
B4.8 <u>SOCKET WELDS</u>							
CHARGING LINE CVCS	1C	PT	W-29	82-123	None	None	None
RESIDUAL TEMPERATURE DETECTOR HOT LEG B	23	PT	W-14	82-065	None	None	None
	32	PT	W-3	82-103	N/A	None	None
B4.9 <u>INTEGRALLY WELDED SUPPORTS</u>							
AUXILIARY SPRAY TO PRESSURIZER	32	PT	A;114-CVCS- 1	82-060	N/A	None	None
		VT	A;113-CVCS- 1	82-010	None	None	None

COMPONENT/SYSTEM	NSP ISO	NDE METHOD	W BASELINE IDENT.	REPORT NO.	BASELINE INDICATIONS	ISI INDICATIONS	EXAMINATION LIMITATIONS
B4.10 SUPPORT COMPONENTS							
SPRAY TO PRESSURIZER A	5A	VT	F	82-018	None	None	None
		VT	G	82-013	None	None	None
	5B	VT	K	82-003	None	None	None
RESIDUAL HEAT REMOVAL RETURN	18	VT	C	82-126	None	None	None
		VT	D	82-002	None	None	None
RESIDUAL TEMPERATURE DETECTOR HOT LEG B	23	VT	D	82-001	N/A	None	None
		VT	E	82-014	N/A	None	None
CHARGING LINES CVCS	1E	VT	O	82-005	N/A	None	None
		VT	P	82-004	N/A	None	None
		VT	Q	82-015	N/A	None	None
		VT	Q ₁	82-016	N/A	None	None
		VT	R	82-006 82-006R	N/A N/A	Hanger Loose None-Hanger Re- worked	None None
		VT	R ₁	82-017	N/A	None	None
		VT	S	82-126	N/A	None	None

COMPONENT/SYSTEM	NSP ISO	NDE METHOD	W BASELINE IDENT.	REPORT NO.	BASELINE INDICATIONS	ISI INDICATIONS	EXAMINATION LIMITATIONS
AUXILIARY SPRAY TO PRESSURIZER	32	VT	F	82-011		None	None
		VT	G	82-012		None	None
B4.12 <u>PRESSURE-RETAINING BOLTING</u>							
PRESSURIZER SAFETY B	29	VT	8010B	82-021	None	Damaged Threads 1 Bolt	None
		UT		82-045	N/A	Bolt Replaced	None
		VT	8010B	82-019	None	Damaged Threads 1 Bolt	None
		UT		82-045	N/A	Bolt Replaced	None
PRESSURIZER SAFETY A	29	VT	8010A	82-022	None	None	None
		VT	8010A	82-020	None	None	None
B5.3 <u>PRESSURE-RETAINING BOLTS AND STUDS, IN PLACE</u>							
UPPER SEAL HOUSE	15	MT	RCP#12	82-056	N/A	None	None
LOWER SEAL HOUSE	15	MT	RCP#12	82-057	N/A	None	None

COMPONENT/SYSTEM	NSP ISO	NDE METHOD	W BASELINE IDENT.	REPORT NO.	EASELINE INDICATIONS	ISI INDICATIONS	EXAMINATION LIMITATIONS
<u>WHEN REMOVED</u>							
UPPER SEAL HOUSE	15	MT	RCP#11	82-033	None	None	None
LOWER SEAL HOUSE	15	MT	RCP#11	82-034	N/A	None	None
B6.9 <u>PRESSURE-RETAINING BOLTING</u>							
ACCUMULATOR DISCHARGE B	17	VT	8840B	82-025	None	None	None
PRESSURIZER SPRAY A	5	VT	PCV-431A	82-008	None	None	None
RESIDUAL TEMPERATURE DETECTOR COLD LEG A	7	VT	RC-1-6	82-110	None	None	None
RESIDUAL TEMPERATURE DETECTOR COLD LEG B	22	VT	RC-1-15	82-024	None	None	None
RESIDUAL TEMPERATURE DETECTOR HOT LEG B	23	VT	RC-1-14	82-007	None	None	None
AUXILIARY SPRAY TO PRESSURIZER	32	VT	8143	82-009	None	None	None

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

TABLE III
PAGE 1 OF 4

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

NORTHERN STATES POWER CO.
PRAIRIE ISLAND UNIT 1
ISOMETRIC SUMMARY

TABLE III
PAGE 2 OF 4

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

NORTHERN STATES POWER CO.
PRAIRIE ISLAND UNIT 1
ISOMETRIC SUMMARY

TABLE III
PAGE 3 OF 4

NSP ISO NUMBER	REVISION	COMPONENT OR SYSTEM	LOOP	LINE SIZE	LINE NUMBER	UT - CAL. STANDARD
ISI-23	0	RTD TAKEOFF HOT LEG	B	2"	2-RC-7B	3
ISI-24	0	SAFETY INJECTION HIGH HEAD	B	2"	2-SI-35B	3
ISI-25	0	CROSSOVER DRAIN	B	2"	2-RC-10B	3
			B	2"	2-RC-11B	3
ISI-26	0	CVCS LETDOWN	B	2"	2-RC-12	3
ISI-27	0	SEAL INJECTION (GENERAL VIEW)	B	1½" & 2"	-	-
ISI-27A	0		B	1½"	1½-VC-21B	1
ISI-27B	0		B	2"	2-VC-21B	1
ISI-27C	0		B	2"	2-VC-21B	1
ISI-28	0	PRESSURIZER SURGE	B	10"	10-RC-4	10
ISI-29	0	PRESSURIZER SAFETY	A	6"	6-RC-20A	6
			B	6"	6-RC-20B	6
ISI-30	0	REACTOR VESSEL SAFETY INJECTION	A	4"	4-RC-14A	5
			A	6"	6-RC-14A	6
			A	6"	6-SI-25A	6
			B	4"	4-RC-14B	5
			B	6"	6-RC-14B	6
			B	6"	6-SI-25B	6
ISI-31	0	PRESSURIZER RELIEF	A & B	3"	3-RC-21	4
ISI-32	0	AUXILIARY SPRAY	-	2"	2-RC-19	3
			-	2"	2-VC-4	3
ISI-33	0	REACTOR VESSEL SAFETY INJECTION	A	2"	2-SI-24A	3
			B	2"	2-SI-24B	3
ISI-34	0	R.C. PUMP B FLANGE BOLTING	B	-	-	-

NORTHERN STATES POWER CO.
PRAIRIE ISLAND UNIT 1
ISOMETRIC SUMMARY

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

APPENDIX B
ASME CLASS 2 EXAMINATION

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S2.1.1
PAGE 1 OF 2
MAJOR ITEM: PRESSURE VESSELS-STEAM GENERATOR

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

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 1

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S2.1.1PAGE 2 OF 2MAJOR ITEM: PRESSURE VESSELS-STEAM GENERATOR

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

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S2.1.2

PAGE 1 OF 1

MAJOR ITEM: PRESSURE VESSELS-ACCUMULATORS

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

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S2.1.3

PAGE 1 OF 1

MAJOR ITEM: PRESSURE VESSELS-RHR HEAT EXCHANGERS

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

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S2.1.4
 PAGE 1 OF 1
 MAJOR ITEM: PRESSURE VESSELS-BORIC ACID TANKS

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

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INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S2.2.1

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MAJOR ITEM: PIPING-CIRCUMFERENTIAL BUTT WELDS

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

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MAJOR ITEM: PIPING-CIRCUMFERENTIAL BUTT WELDS

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

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MAJOR ITEM: PIPING-CIRCUMFERENTIAL BUTT WELDS

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
C2.1	C-G	(CONT'D)					
		FEEDWATER B					
		16-FW-15	ONE	1	1	FW-220	77-15, 9
		16-FW-16	TWO	4	4	FW-214, FW-216	79-SP-7, 8, 1
						FW-214	79-SP2-19, 32, 70
						FW-216	79-SP2-19, 30, 79, 125
			THREE	-	-	FW-216	80A-23, 51, 52, 105
						FW-216	81-89, 76, 76R, 88
							82-023, 030, 030R,
							067, 088
		FEEDWATER A					
		(8 IN) 3-AF-11	TWO	2	2	FW-165, AFW-202	79-SP-17, 18
						FW-165, AFW-202	79-SP2-127, 128
		FEEDWATER B					
		(8 IN) 3-AF-12	TWO	2	2	FW-127, AFW-129	79-SP-19, 20
						FW-127, AFW-129	79-SP2-129, 130
		REFUELING WATER STORAGE					
		TANK DISCHARGE					
		12-SI-1	TWO	1	1	W-195	80-60
			THREE	1	1	W-178, 187	81-198, 30
		12-SI-3A	TWO	2	2	W-186, W-261	80-54, 55
		12-SI-3B	TWO	1	1	W-194	80-56
		12-SI-11	THREE	1	-		
		12-SI-4	TWO	1	1	W-196	80-57
			THREE	1	1	W-202	82-076, 092
		10-SI-8					
		STREAM 1	TWO	1	1	W-206	80-50
		STREAM 2	THREE	-	1	W-213	82-089, 090

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MAJOR ITEM: PIPING-CIRCUMFERENTIAL BUTT WELDS

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
C2.1	C-G	(CONT'D)					
		CONTAINMENT SUMP B DISCHARGE LINES					
		14-SI-33A	-	-	-		
		14-SI-33B	-	-	-		
		12-SI-34A	-	-	-		
		12-SI-34B	TWO	1	1	W-5	80-82
		ALTERNATE CONTAINMENT SPRAY PUMP SUCTION					
		6-RH-10A					
		BRANCH 1	TWO	1	1	W-269	80-53
		BRANCH 2	TWO	2	2	W-5	80-65
						W-7	80-67
		6-RH-10B					
		BRANCH 1	TWO	2	2	W-230, W-270	80-52, 51
			THREE	2	2	W-229, W-283	81-66, 65
		BRANCH 2	TWO	2	2	W-113, W-128	80-33, 66
			THREE	1	1	W-129	81-64
		RESIDUAL HEAT REMOVAL DISCHARGE					
		12-RH-6A	TWO	1	1	W-17	80-81
		12-RH-6B	TWO	1	1	W-6	80-83
		8-RH-9A	TWO	1	1	W-112	80-46
		8-RH-9B	TWO	2	2	W-195, W-193	80-21, 22
			THREE	1	1	W-243	81-45
		8-RH-7A	TWO	1	2	W-88, 89	80-49, 47
		9-RH-7B	TWO	3	3	W-138, W-206, W-143	80-19, 23, 20

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MAJOR ITEM:

PIPING-CIRCUMFERENTIAL BUTT WELDS

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
C2.1	C-G	(CONT'D)					
		SAFETY INJECTION PUMPS SUCTION					
		6-SI-13A	TWO	1	1	W-17W	80-3
		6-SI-13B	TWO	2	2	W-134, 141W	80-58, 2
		8-SI-17	TWO	2	2	W-239, W-99	80-97, 95
			THREE	1	1	W-98	81-32
		8-SI-18	TWO	7	7	W-243, 235, 236	80-96, 99, 104
			THREE	2	1	W-74, 75, 80, 81	80-106, 107, 105, 103
						W-68	81-67
		8-VC-71A	-	-	-		
		8-VC-71B	-	-	-		
		RESIDUAL HEAT REMOVAL SUCTION					
		10-SI-9A	-	-	-		
		10-SI-9B	TWO	1	1	W-39W	80-10
		ACCUMULATOR DISCHARGE LINES					
		12-SI-28A	ONE	1	1	SI-1317	77-35, 56
		12-SI-28B	-	-	-		
		12-SI-29A	-	-	-		
		12-SI-29B	TWO	1	1	SI-33	79-49, 47
		RESIDUAL HEAT REMOVAL SUCTION					
		12-RH-5A	TWO	1	1	W-66	80-87
			THREE	2	2	W-72, W-63	81-40, 43
		12-RH-5B	TWO	2	2	W-37, W-42	80-11, 25

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INSERVICE INSPECTION-EXAMINATION SUMMARY

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MAJOR ITEM: PIPING-CIRCUMFERENTIAL BUTT WELDS

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
C2.1	C-G	(CONT'D)					
		8-RH-5A	TWO	1	1	W-64	80-92
			THREE	1	1	W-27	82-093, 094
		8-RH-5B	TWO	1	1	W-35	80-18
		8-RH-4A	TWO	2	2	W-60, W-59	80-94, 93
		8-RH-4B	TWO	1	1	W-31	80-17
		10-RH-3	ONE	2	2	RH-1045R, RH-1048	77-76, 77
			TWO	1	1	W-23	80-101
			THREE	2	-		
		RESIDUAL HEAT REMOVAL DISCHARGE					
		10-RH-11	TWO	3	3	RH-1, W-177 W-176	79-103/80-89, 88
			THREE	2	2	W-170/ W-3	81-42/82-042
		6-RH-12	THREE	1	1	W-8	82-101
		8-RH-7A	TWO	2	2	W-88, 89	80-49, 47
		8-RH-7B	TWO	3	3	W-138, 143, 206	80-19, 20, 23
		8-RH-9A	TWO	1	1	W-112	80-46
		8-RH-9B	TWO	2	2	W-195, 193	80-21, 22
		SAFETY INJECTION					
		6-SI-10B	ONE	1	1	SI-1290	77-48, 57
		6-SI-10A	TWO	3	3	W-128, 131, 126	80-72, 73, 71
		REACTOR VESSEL SAFETY INJECTION					
		6-SI-25A	TWO	1	1	SI-1291	79-75
			THREE	1	1	W-1292	82-099
		6-SI-25B	ONE	1	1	SI-15	77-35, 58

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INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S2.2.2

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MAJOR ITEM: PIPING-LONGITUDINAL WELD JOINTS
IN FITTINGS

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

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INSERVICE INSPECTION-EXAMINATION SUMMARY

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 MAJOR ITEM: PIPING-LONGITUDINAL WELD JOINTS
IN FITTINGS

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

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INSERVICE INSPECTION-EXAMINATION SUMMARY

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MAJOR ITEM: PIPING-LONGITUDINAL WELD JOINTS
IN FITTINGS

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

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TABLE S2.2.3PAGE 1 OF 1MAJOR ITEM: PIPING-BRANCH PIPE TO PIPE WELD

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

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TABLE S2.2.4

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MAJOR ITEM: PIPING-PRESSURE RETAINING BOLTING

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

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MAJOR ITEM: PIPING-INTEGRALLY WELDED SUPPORTS

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

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MAJOR ITEM: PIPING-INTEGRALLY WELDED SUPPORTS

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

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MAJOR ITEM: PIPING-INTEGRALLY WELDED SUPPORTS

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

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 MAJOR ITEM: PIPING-INTEGRALLY WELDED SUPPORTS

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

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INSERVICE INSPECTION-EXAMINATION SUMMARY

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MAJOR ITEM: PIPING-NON-WELDED SUPPORTS

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

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 1

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S2.2.6PAGE 2 OF 2

MAJOR ITEM: PIPING-NON-WELDED SUPPORTS

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
C2.6	C-E-2	(CONT'D)					
		SAFETY INJECTION FROM RHR					
		6-SI-10A	TWO	1	1	K	79-101
		6-RH-10A					
		BRANCH 2	THREE	1	-		
		RESIDUAL HEAT REMOVAL SUCTION					
		10-RH-3	ONE	2	2	C, L	77-10
			TWO	2	2	H, K	79-102/80-78
			THREE	4	4	I, E, J, A	81-63, 58, 74, 215
		8-RH-4A	TWO	1	1	M	80-29
			THREE	1	1	N	81-62
		ACCUMULATOR DISCHARGE LINES					
		12-SI-29A	ONE	1	1	A	77-11
		12-SI-28A	-	-	-		
		12-SI-28B	ONE	1	-	D-MISSED IN PERIOD ONE	
			TWO	1	1	D	78-058
		REACTOR VESSEL SAFETY INJECTION					
		6-SI-25A	ONE	1	1	B	77-59
			TWO	1	1	E	79-30
		6-SI-25B	ONE	1	1	E (REPEAT)	80A-61
			THREE	1	-	H	77-59
		SAFETY INJECTION PUMP SUCTION					
		6-SI-13B	THREE	1	1	D	81-17
		8-SI-18	THREE	5	5	D, F, H, O R	81-53, 55, 54, 47 82-097, 125

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S2.3

PAGE 1 OF 2

MAJOR ITEM: PUMPS

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

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S2.3

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MAJOR ITEM: PUMPS

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

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 1

INSERVICE INSPECTION-EXAMINATION SUMMARY

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

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

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT

INSERVICE INSPECTION-EXAMINATION SUMMARY

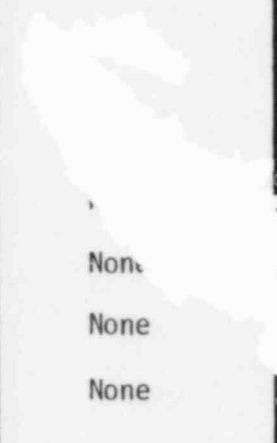
TABLE S2.4
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MAJOR ITEM: VALVES

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

COMPONENT/SYSTEM	NSP ISO	NDE METHOD	W BASELINE IDENT.	REPORT NO.	BASELINE INDICATIONS	ISI INDICATIONS	EXAMINATION LIMITATIONS
C1.1 <u>CIRCUMFERENTIAL BUTT WELDS</u>							
S/G #11	43	UT	W-F	82-054	N/A	None	None
		UT		82-095	N/A	S-1, 25% @ 8'9" and 9'4 1/8"; S-2, 25% @ 225° 1/2" long	None
		UT		82-066	N/A	None	None
		MT		82-037	N/A	None	None
S/G #12	43	UT	W-F	82-035	N/A	None	None
		UT		82-036	N/A	S-1, 75% 14' 7 3/4" S-3, 60% 14' 10 1/2" S-4, 70% 14' 4- 3/4"	Note Report 82-035
		UT		82-048	N/A	None	None
		MT		82-046	N/A	None	None
		UT	W-H	82-121	N/A	None	None
		UT		82-116	N/A	S-1, 60% ID GEO 130° to 160°	Scan Areas 0° to 30°, 125° to 160°, 225° to 250°
		UT		82-119	N/A	S-2, 10% S-L 2 1/2" from weld. 28 1/2" from supp. pad.	Scan Areas 0° to 30°, 125° to 160°, 225° to 250°
C1.2 <u>NOZZLE TO VESSEL WELD</u>		UT	N-4	82-122	N/A	None	None

COMPONENT/SYSTEM	NSP ISO	NDE METHOD	W BASELINE IDENT.	REPORT NO.	BASELINE INDICATIONS	ISI INDICATIONS	EXAMINATION LIMITATIONS
<u>S/G #12 CON'T</u>		UT		82-118	/A	S-1, 32% I.D. GEO 175 ⁰	None
		UT		82-120	N/A	None	No S-2 Nozzle Par- tial Insp. due to Insul. Support Ring
C1.4 <u>PRESSURE-RETAINING BOLTING</u>							
ACCUMULATOR NO. 12 MANWAY BOLTS	86	UT	Manway Bolts	82-115	N/A	None	None
C2.1 <u>CIRCUMFERENTIAL BUTT WELDS</u>							
REFUELING WATER STORAGE TANK DIS- CHARGE	80	UT	W-202	82-092	N/A	None	None
		UT	W-202 L.S.	82-076	N/A	None	None
		UT	W-213	82-089	N/A	None	None
RESIDUAL HEAT REMOVAL SUCTION	53	UT	W-27	82-093	N/A	None	None
			W-27 L.S.	82-094	N/A	None	None
RESIDUAL HEAT REMOVAL DISCHARGE	78	UT	W-3	82-042	N/A	None	B.E. S-7 & S-8 Due to Radius
		UT	W-8	82-101	N/A	None	None

COMPONENT/SYSTEM	NSP ISO	NDE METHOD	W BASELINE IDENT.	REPORT NO.	BASELINE INDICATIONS	ISI INDICATIONS	EXAMINATION LIMITATIONS
BORIC ACID SUPPLY	84	UT	W-51+52+53 "T"	82-091	N/A	None	None
RESIDUAL HEAT REMOVAL SUCTION	53	UT	W-1044- 1045R	82-096	N/A	None	All Scans Limited 9:00 to 12:00 Bracket & Branch Connections
C2.5 <u>INTEGRALLY WELDED SUPPORTS</u>							
MAIN STEAM A	51A	MT	C	82-047	N/A		Not Accessible some areas
		VT		82-098	N/A		None
		MT	E	82-117	N/A		None
		VT		82-124	N/A		None
REFUELING WATER STORAGE TANK DIS- CHARGE	81	PT	E	82-073	N/A	None	None
		VT		82-080	N/A	None	None
RESIDUAL HEAT RE- MOVAL DISCHARGE	56	PT	B	82-075	N/A	None	None
		VT		82-079	N/A	None	None
		PT	E	82-074	N/A	None	None
		VT		82-078	N/A	None	None

COMPONENT/SYSTEM	NSP ISG	NDE METHOD	W BASELINE IDENT.	REPORT NO.	BASELINE INDICATIONS	ISI INDICATIONS	EXAMINATION LIMITATIONS
RESIDUAL HEAT RE- MOVAL SUCTION	54	PT	D	82-059	N/A	None	None
		VT		82-058	N/A	None	None
REACTOR VESSEL SAFETY INJECTIONS	90	PT	I	82-063	N/A	1/8"linear @ 9:00	None
				82-063R	N/A	None - Indication buffed out	None
		VT		82-062	N/A	None	None
SAFETY INJECTION FROM RESIDUAL HEAT REMOVAL	56	PT	I	82-072	N/A	None	None
		VT		82-085	N/A	None	None
		PT	J	82-071	N/A	None	None
		VT		82-077	N/A	None	None
C2.6 <u>SUPPORT COMPONENTS</u>							
RESIDUAL HEAT RE- MOVAL DISCHARGE	56	VT	C	82-082	N/A	None	None
	79	VT	D	82-083	N/A	Bolt Missing	None
				82-083R	N/A	None-Bolt Replac'd.	None
		VT	L	82-084	N/A	None	None
		VT	N	82-086	N/A	None	None
		VT	O	82-081	N/A	None	None
SAFETY INJECTION PUMP SUCTION	82	PT	R	82-125	N/A	None	None
		VT		82-097	N/A	None	None

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

PAGE 1 OF 3
TABLE III

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

NORTHERN STATES POWER CO.
PRAIRIE ISLAND UNIT 1
ISOMETRIC SUMMARY

PAGE 2 OF 3
TABLE 111

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

NORTHERN STATES POWER CO.
PRAIRIE ISLAND UNIT 1
ISONETRIC SUMMARY

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TABLE 111

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

APPENDIX C
FSAR AUGMENTED EXAMINATION
(NO EXAMINATIONS SCHEDULED THIS OUTAGE)

APPENDIX D

SEISMIC BOLTING EXAMINATION

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE 1 SB
PAGE 1 OF 7
MAJOR ITEM: SEISMIC BOLTING

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

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INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE SB

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MAJOR ITEM: SEISMIC BOLTING

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
N/A	N/A	(S.G. NO. 11. CONT'D)					
		BASE ANCHOR BOLTS	ONE	8	8	BASE OF COLUMN 1	77-4
			TWO	8	8	BASE OF COLUMN 2	79-56
			TWO	32	32	BASE OF COLUMN 1 THRU 4	80A-113
			THREE	16	16	BASE OF COLUMN 3 AND 4	82-109
		TOP COLUMN CONNECTING BOLTS	ONE	4	4	TOP OF COLUMN 1	77-4
			TWO	4	4	TOP OF COLUMN 2	79-111
			TWO	16	16	TOP OF COLUMN 1 THRU 4	80A-124
			THREE	8	-		
		SUPPORT PAD	ONE	6	6	3)COL.3&3)COL.4	77-128
		HELI-COIL SCREWS	TWO	6	12	COLUMNS 1 AND 2	79-113, 114
			TWO	24	24	ALL HELICOIL SCREWS	80A-140
			THREE	24	24	ALL HELICOIL SCREWS	81-260
		LOWER LATERAL SUPPORT ANCHOR BOLTS TO WALL	ONE	14	14	PAD 1	77-4
			TWO	8	8	PAD 3	79-106
			TWO	42	42	PAD 1 THRU 4	80A-120
			THREE	20	-		
		LATERAL SUPPORT WALL BOLTS	ONE	4	4	FIXTURE 1	77-4
			TWO	4	4	FIXTURE 2	79-107
			TWO	12	12	FIXTURE 1 THRU 3	80A-120
			THREE	4	-		
		<u>STEAM GENERATOR NO. 12</u>					
		UPPER RING GIRDER (SNUBBER PINS)	ONE	2	2	SNUBBER 1	77-3, 132
			TWO	2	2	SNUBBER 2	79-116
			TWO	8	8	SNUBBER 1 THRU 4	80A-133
			THREE	4	4	SNUBBER 1 THRU 4	82-127

NORTHERN STATES POWER CO.

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INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE 3 SB
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MAJOR ITEM: SEISMIC BOLTING

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

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE SB
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MAJOR ITEM: SEISMIC BOLTING

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

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE 5 SB
PAGE 5 OF 7
MAJOR ITEM: SEISMIC BOLTING

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

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE 6 SB
PAGE 6 OF 7
MAJOR ITEM: SEISMIC BOLTING

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

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 1TABLE SBPAGE 7 OF 7

INSERVICE INSPECTION-EXAMINATION SUMMARY

MAJOR ITEM: SEISMIC BOLTING

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

COMPONENT/SYSTEM	NSP ISO	NDE METHOD	W BASELINE IDENT.	REPORT NO.	BASELINE INDICATIONS	ISI INDICATIONS	EXAMINATION LIMITATIONS
<u>SEISMIC BOLTING</u>							
S/G #11							
SNUBBER PINS	72	UT	Snubbers 1,2,3 & 4	82-128	None	None	None
SNUBBER WALL BOLTS	70	VT	Bottom Row	82-132	None	None	None
SNUBBER BOLTS	72	VT	Bottom Rows	82-105	None	None	None
BASE ANCHER BOLTS	59	VT	Col. 3 & 4	82-109	None	None	None
UPPER RING GIRDER WALL BOLTS	70	VT	Pad 3	82-130	None	None	None
S/G #12							
SNUBBER PINS	72	UT	Snubbers 1,2,3 & 4	82-127	None	None	None
SNUBBER WALL BOLTS	70	VT	Bottom Row	82-131	None	None	None
SNUBBER BOLTS	72	VT	Bottom Rows	82-104	None	None	None
UPPER RING GIRDER WALL BOLTS	70	VT	Pad 3	82-129	None	None	None
SPRING HANGER	70	VT	SGH-2	82-031	None	None	None
		VT	SGH-4	82-032	None	Hanger bottomed out	None
				82-032R	N/A	None-Scaffold Removed	None

COMPONENT/SYSTEM	NSP ISO	NDE METHOD	W BASELINE IDENT.	REPORT NO.	BASELINE INDICATIONS	ISI INDICATIONS	EXAMINATION LIMITATIONS
<u>S/G #12 CON'T</u>							
BASE ANCHOR BOLTS	59	VT	All Col.	82-108	None	None	None
PRESSURIZER BASE ANCHOR BOLTS	73	VT	17-24	82-111	None	None	None
ACCUMULATOR B BASE ANCHOR BOLTS	74	VT	17-24	82-112	None	None	None
REACTOR COOLANT PUMP # 11 BASE ANCHOR BOLTS	61	VT	Col.1,2&3	82-106	None	None	None
REACTOR COOLANT PUMP # 12 BASE ANCHOR BOLTS	61	VT	Col.1,2&3	82-107	None	None	None

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

TABLE III

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

APPENDIX E

TABLE I - PERSONNEL LISTING

TABLE II - ULTRASONIC CALIBRATION BLOCKS

TABLE III - PROCEDURE LISTING

TABLE IV - EQUIPMENT AND MATERIALS

NORTHERN STATES POWER COMPANY
 Prairie Island Unit I
 PERSONNEL LISTING

APPENDIX E
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EXAMINER	TITLE	ORGANIZATION	ASNT LEVEL				
			UT	PT	MT	VT	ET
G.R. Adams	Technician	LMT ⁽²⁾	II	II	II	II(a,b)	-
R.G. Auer	Technician	LMT	II	II	II	II(1b)	-
M.W. Blew	Technician	LMT	II	II	II	II(1b)	-
J. French	Technician	LMT	I	I	-	-	-
R. Friesner	Technician	LMT	I	-	-	-	-
P.W. Pechacek	Technician	LMT	II	II	II	II(1a,b)	-
E.L. Thomas	Supervisor	LMT	III	III	III	III(1a,b)	-
B.D. Welch	Technician	LMT	-	-	-	-	-
E. Cisneros	Supervisor	W ⁽³⁾	-	-	-	-	I
E.M. Dobrinsky	Technician	W	-	-	-	-	I
D.R. Francis	Technician	W	-	-	-	-	I
K.D. Gongaware	Technician	W	-	-	-	-	II
R.P. Hazen	Technician	W	-	-	-	-	II
J.E. Mills	Technician	W	-	-	-	-	II
T.A. Pfarr	Technician	W	-	-	-	-	I
M. Rompey	Technician	W	-	-	-	-	-
R.D. Rehak	Technician	W	-	-	-	-	I
J.J. Roberts	Technician	W	-	-	-	-	-
J. Snee	Supervisor	W	-	-	-	-	I
K.D. Stewart	Technician	W	-	-	-	-	I
M.L. Yusko	Technician	W	-	-	-	-	-
R.S. Emery	Evaluator	Z ⁽⁴⁾	-	-	-	-	IIA
CONTINUED	ON THE	FOLLOWING PAGE					

NORTHERN STATES POWER COMPANY
 Prairie Island Unit II
 PERSONNEL LISTING

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EXAMINER	TITLE	ORGANIZATION	ASNT LEVEL				
			UT	PT	MT	VT	ET
T.A. Holden	Evaluator	Z	-	-	-	-	IIA
G.H. Hood	Evaluator	Z	-	-	-	-	IIA

FOOTNOTES:

- (1a) Certified by NSP to perform visual determination of structural integrity for hanger assemblies in accordance with NSP-VT-2.
- (1b) Inspection experience and NDE qualifications were judged to be adequate to perform visual examinations in accordance with NSP-VT-1.
- (2) Organization: Lambert, MacGill, Thomas, Inc. (LMT)
 515 Aldo Avenue Santa Clara, Calif. 95050
- (3) Organization: Westinghouse Electric Corporation (W)
 Nuclear Services Division P.O. Box 2728 Pgh.PA 15230
- (4) Organization: Zetec (Z)
 P.O. Box 140, Issaquah, WA 98027

NORTHERN STATES POWER COMPANY
 Prairie Island Unit I
 ULTRASONIC CALIBRATION BLOCKS

APPENDIX E
 TABLE III
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NSP No.	SIZE & DIA.	PIPE SCHEDULE & THICKNESS	MATERIAL	SERIAL OR HEAT NUMBER	CALIBRATION REPORTS	DATE
3	2"	Sch.160 .344"	304	2P4659	MWB-006 MWB-016	11-22-82 12-03-82
4	3"	Sch.160 .438"	316	M5900	MWB-003 MWB-004	11-17-82 11-18-82
6	6"	Sch.160 .718"	316	M3715	MWB-014 GAR-006	12-03-82 11-24-82
11	12"	Sch.160 1.312"	316	J2103	MWB-005	11-18-82
22	10"	Sch. 40 .365"	304	F60917	MWB-010 MWB-011 MWB-013	11-29-82 12-01-82 12-02-82
26	3½(T)X	6"(W) x 12"(L)	A-533 GRA CL2	52391	MWB-001 MWB-002 MWB-012 MWB-017 MWB-018 GAR-002 GAR-003 GAR-004 GAR-010	11-19-82 11-20-82 11-23-82 12-07-82 12-17-82 11-19-82 11-23-82 11-23-82 12-07-82
27	6"	Sch. 40 .280"	304	2P5951	MWB-015	12-03-82
30	8"	Sch. 10 .148"	304	547148	ELT-001	12-01-82
31	10"	Sch. 10 .165"	304	2P6405	MWB-008	11-30-82

NORTHERN STATES POWER COMPANY
 Prairie Island Unit I
 ULTRASONIC CALIBRATION BLOCKS

APPENDIX E
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NSP No.	SIZE & DIA.	PIPE SCHEDULE & THICKNESS	MATERIAL	SERIAL OR HEAT NUMBER	CALIBRATION REPORTS	DATE
33	12"	Sch. 10 .180"	304	27030	MWB-007 MWB-009	11-30-82 11-29-82
36	16"	Sch.100 1.031"+.585"	A-106 GR C	45124A	GAR-005 GAR-007	11-17-82 11-18-82
Y-50	6.126"	62" Long	SA-540 B24	82586	RGA-002	11-22-82

NORTHERN STATES POWER COMPANY
 Prairie Island Unit 1
 PROCEDURE LISTING

APPENDIX E
 TABLE III
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PROCEDURE NUMBER AND REVISION	FIELD CHANGE	PROCEDURE TITLE	PLANT APPROVAL DATE	FIELD CHANGE REMARKS	CHANGE DESCRIPTION
NSP-MT-1, Rev.2	N/A	Magnetic Particle Examination	1-8-81	None	Cover examination volume of S/S piping Welds less than .200 inch wall thickness.
NSP-MT-2, Rev. 0	N/A	Wet Magnetic Particle Examination	1-8-81	None	
NSP-PT-1, Rev. 2	N/A	Liquid Penetrant Examination	1-8-81	None	
NSP-PT-2, Rev. 0	N/A	High Temperature Liquid Penetrant Examination	8-29-80	None	
NSP-UT-1, Rev. 1	#1	Ultrasonic Examination of Pipe Welds	6-9-82	None	
NSP-UT-2, Rev. 1	N/A	Automatic Data Recording	1-8-81	None	
NSP-UT-3, Rev. 1	N/A	Ultrasonic Examination of Ferritic Vessels	2-20-81	None	
NSP-UT-4, Rev. 1	N/A	Ultrasonic Examination of Studs, Bolts and Nuts	1-8-81	None	
NSP-UT-4B, Rev. 1	N/A	Axial Ultrasonic Examination of Studs and Bolts	2-20-81	None	
NSP-VT-1, Rev. 2	N/A	Visual Examination	1-8-81	None	
NSP-VT-2, Rev. 2	N/A	Visual Examination of Hanger Assemblies	1-8-81	None	
MRS 2.4.2 GEN-23	N/A	Multi-frequency Eddy Current Inspection of Heat Exchangers	11-5-82	None	

NORTHERN STATES POWER COMPANY
PRAIRIE ISLAND UNIT I
EQUIPMENT AND MATERIALS

APPENDIX E
TABLE IV
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MATERIAL OR EQUIPMENT	TYPE OR SERIAL NUMBER	CALIBRATION DATE OR BATCH NUMBER	REMARKS
<u>ULTRASONIC:</u>			
Nortec 131D	S/N 287	Cal. 9-01-82	Off Site 10-30-82
Nortec 131D	S/N 530B	Cal.11-15-82	
Nortec 131D	S/N 291	Cal.11-08-82	
Nortec 131D	S/N 167	Cal.11-11-82	
Nortec 131D	S/N 129	Cal.11-22-82	
Nortec 131D	S/N 322	Cal.11-10-82	
<u>RECORDS:</u>			
Gould 222	S/N 01601	Cal. 8-27-82	
Gould 220	S/N 17466	Cal.10-05-82	
Gould 222	S/N 01530	Cal. 8-27-82	
Gould 222	S/N 01340	Cal.11-15-82	
<u>TEMP GAUGES:</u>			
PTC Surface Thermometers	S/N 451	Cal. 5-27-82	Certified by Manufacturer
	S/N 467	Cal. 9-28-82	
	S/N 478	Cal.10-13-82	
	S/N 477	Cal.10-13-82	
	S/N 480	Cal.10-13-82	
<u>MAGNETIC PARTICLE</u>			
Magnaflux Yoke	S/N LMT-002	Cal.11-17-82	On Site Qualification
Magnaflux Yoke	S/N GTL-003	Cal.11-29-82	On Site Qualification
Magnaflux L10 Coil	S/N KBM-1	Cal.11-24-82	On Site Qualification
Black Ray Meter	S/N 14935	Cal.10-18-82	
<u>ROMPAS BLOCKS:</u>			
4140 C/S	S/N LMT-012	Cert. 9-08-77	By Orla's Machine Shop
304 S/S	S/N 301	Cert. 7-13-81	By Earl M. Jorgensen
304 S/S	S/N 302	Cert. 7-13-81	By Earl M. Jorgensen
4140 C/S	S/N 402	Cert. 6-19-81	By Earl M. Jorgensen
<u>IIW BLOCK:</u>			
C/S	S/N LMT-1	Cert. 6-19-78	By Earl M. Jorgensen
<u>MATERIALS:</u>			
Magnaflux	Penetrant	Batch #82F059	SKL-HF/S
Spot Check	Cleaner	Batch #81C041	SKC-NF/ZC-7
	Developer	Batch #82G057	SKD-NF/ZP-9B

NORTHERN STATES POWER COMPANY
PRAIRIE ISLAND UNIT I
EQUIPMENT AND MATERIALS

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MATERIAL OR EQUIPMENT	TYPE OR SERIAL NUMBER	CALIBRATION DATE OR BATCH NUMBER	REMARKS
<u>MATERIALS CON'T.</u>			
Sherwin Williams High Temperature	Penetrant	Batch # 54A-531	Type K017
Dubl-Chek	Remover	Batch # 56J-602	Type K019
	Developer	Batch # 71H-412	Type D350
Magnaflux	#20A Fluorescent	Batch # 81B017	Prepared Bath
Magnaglo			Water Mix
Ultrasonic	LMT-GEL	Batch # 1110812	
Couplant			
<u>ULTRASONIC TRANSDUCERS:</u>		<u>SIZE</u>	<u>FREQUENCY</u>
Aerotech	B12133	1.0"	2.25 MHz
Aerotech	C29610	.50"	2.25 MHz
Aerotech	F17104	.25"	2.25 MHz
Aerotech	F26143	.50"	2.25 MHz
Aerotech	H21033	.50"	2.25 MHz
Aerotech	K07023	1.0"	2.25 MHz
Aerotech	F15180	.25"	5 MHz
Branson	LH6343	.50"	2.25 MHz
Harisonic	Q412	1.0" X 1.0"	1 MHz
Harisonic	Q8141R	1.0"	2.25 MHz
Harisonic	R169	.375" X .375"	3.5 MHz
Harisonic	R30131	.325" X .325"	3.5 MHz
Harisonic	R9159A+B	1.0" X 1.0"	1 MHz
Harisonic	V6271	.75"	2.25 MHz
Harisonic	V9462	.50" X .50"	1.5 MHz
Harisonic	V10599	.25"	5 MHz
Harisonic	Q1032	.50" X .50"	1.5 MHz
Harisonic	V10705	1.0" X 1.0"	2.25 MHz
Harisonic	T8312	.25"	5 MHz
Nortec	978	.75" X .75"	2.25 MHz
Nortec	979	.75" X .75"	2.25 MHz
Panametrics	2225	.50"	2.25 MHz
Panametrics	242	.50"	2.25 MHz

NORTHERN STATES POWER COMPANY
PRAIRIE ISLAND UNIT I
EQUIPMENT AND MATERIALS

APPENDIX E
TABLE IV
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MATERIAL OR EQUIPMENT	TYPE OR SERIAL NUMBER	CALIBRATION DATE OR BATCH NUMBER	REMARKS
<u>WESTINGHOUSE EQUIPMENT:</u>			
Brush 220	0156	9-16-82	
Brush 220	0989	7-29-82	
Brush 220	0589	7-29-82	
Brush 220	0132	7-29-82	
Brush 220	01307	7-29-82	
Brush 220	0518	9-01-82	
H.P.3968AZ	00947	7-20-82	8 Channel Recorder
H.P.3968AZ	0547	7-20-82	8 Channel Recorder
H.P.3968AZ	00948	7-27-82	8 Channel Recorder
H.P.3968AZ	0998	7-28-82	8 Channel Recorder
H.P.3968AZ	0992	7-28-82	8 Channel Recorder
H.P.3968AZ	0545	8-23-82	8 Channel Recorder
MIZ-12	0661	7-27-82	Mainframe
MIZ-12	0548	7-27-82	Mainframe
MIZ-12	0635	10-17-82	Mainframe
MIZ-12	0549	7-20-82	Plug In #1
MIZ-12	00884	7-26-82	Plug In #1
MIZ-12	0695	7-27-82	Plug In #1
MIZ-12	0558	7-20-82	Plug In #2
MIZ-12	0550	7-26-82	Plug In #2
MIZ-12	0593	7-27-82	Plug In #2
MIZ-12	0561	7-20-82	Plug In #3
MIZ-12	00885	7-26-82	Plug In #3
MIZ-12	0683	7-27-82	Plug In #3
MIZ-12	0636	7-20-82	Plug In #4
MIZ-12	0692	7-26-82	Plug In #4
MIZ-12	00886	7-27-82	Plug In #4
MIZ-12	0673	7-20-82	Plug In #1 (mixer)
MIZ-12	00888	7-26-82	Plug In #1 (mixer)
MIZ-12	0553	7-27-82	Plug In #1 (mixer)
MIZ-12	0554	7-20-82	Plug In #2 (mixer)
MIZ-12	00887	7-26-82	Plug In #2 (mixer)
MIZ-12	00944	7-27-82	Plug In #2 (mixer)
MIZ-12	00919	7-27-82	Display
MIZ-12	00911	7-27-82	Display
MIZ-12	00917	9-23-82	Display

NORTHERN STATES POWER COMPANY
PRAIRIE ISLAND UNIT I
EQUIPMENT AND MATERIALS

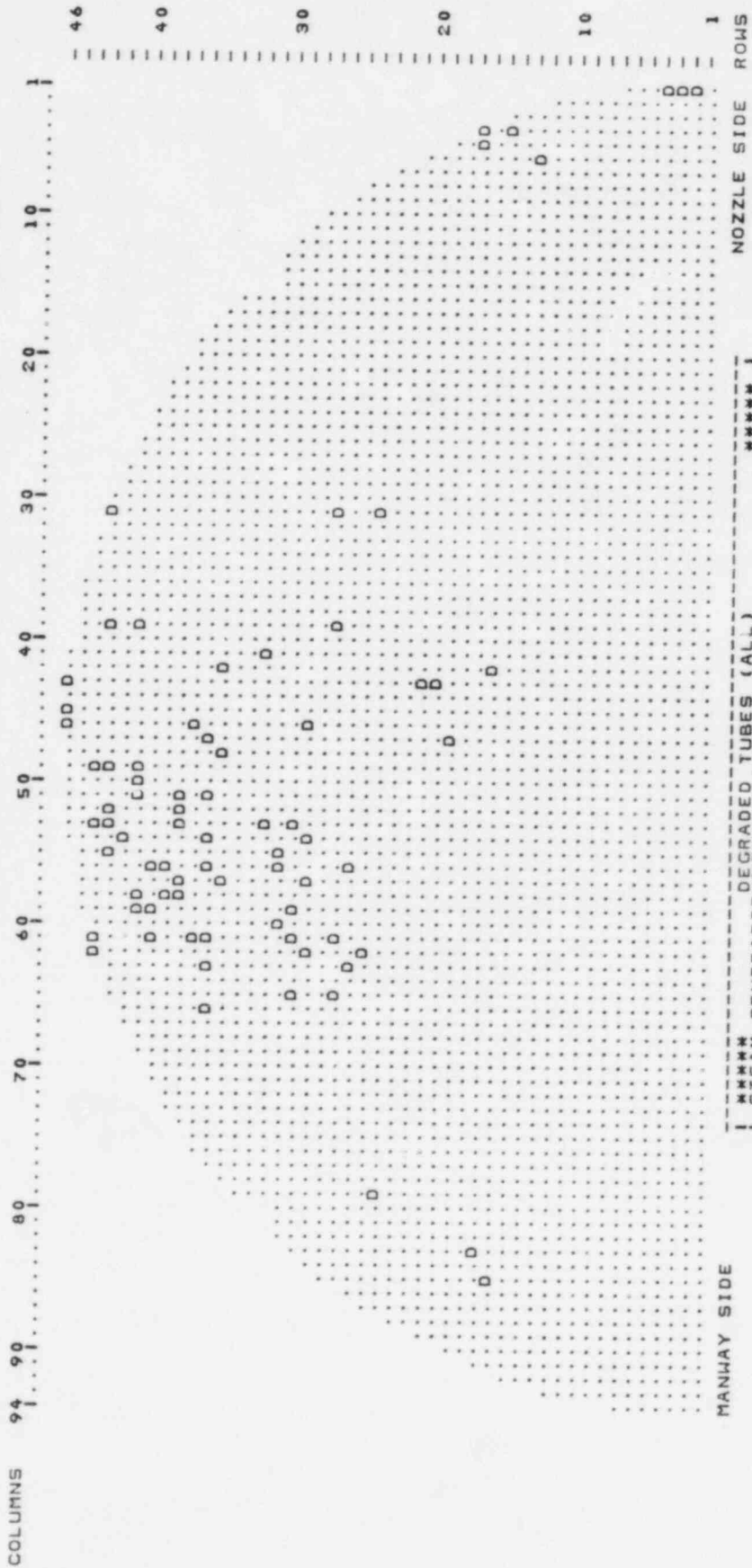
APPENDIX E
TABLE IV
PAGE 4 OF 4

MATERIAL OR EQUIPMENT	TYPE OR SERIAL NUMBER	CALIBRATION DATE OR BATCH NUMBER	REMARKS
<u>WESTINGHOUSE EQUIPMENT:</u>			
TEK 5111	00912	7-27-82	Storage Scope
TEK 5111	00910	7-27-82	Storage Scope
TEK 5111	00922	8-23-82	Storage Scope
AVB STD	Z-1307-AVB	Inconel/S.S.	
AVB STD	Z-1308-AVB	Inconel/S.S.	
Eddy Current STD	Z-1141	Inconel	In Line-Diff
Eddy Current STD	Z-1142	Inconel	In Line-Diff
Eddy Current STD	Z-1281	Inconel	In Line-Diff
Eddy Current STD	NX-7735	Inconel	Absolute
Eddy Current STD	NX-7735	Inconel	Absolute
Eddy Current STD	NX-7735	Inconel	Absolute
<u>EVALUATION ROOM EQUIPMENT:</u>			
DM-3VA	00941	N/A	Mainframe
Vector Analyzer	00938	10-18-82	
DM-3VA	00936	10-18-82	Plug In #1 (mixer)
DM-3VA	00935	10-18-82	Plug In #2 (mixer)
MIZ-12	E-1054	9-23-82	Display
MIZ-12	0556	8-23-82	Display
TEK-5111	0151	9-21-82	Storage Scope
TEK-5111	0572	9-23-82	Storage Scope

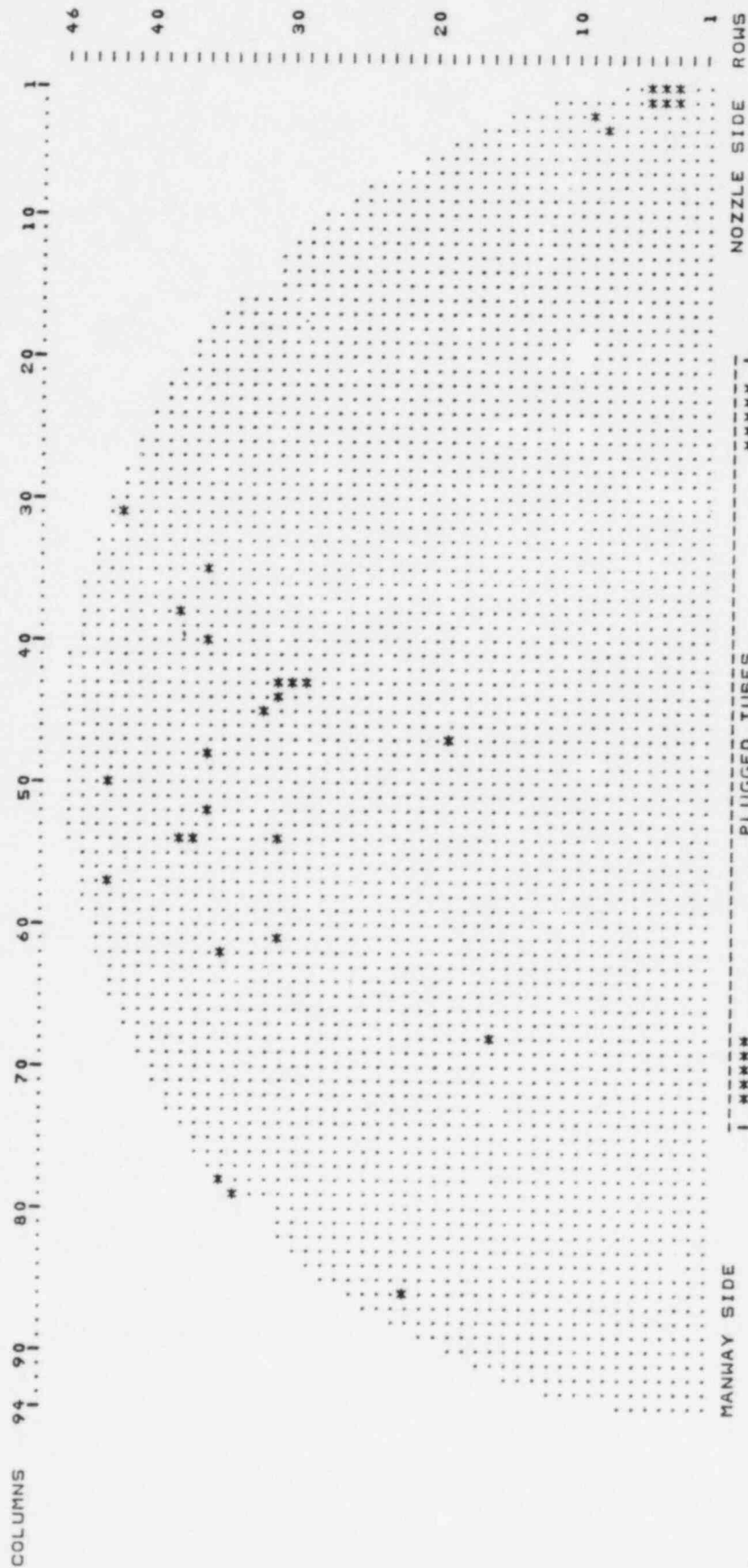
APPENDIX F

STEAM GENERATOR NO. 11
EDDY CURRENT EXAMINATION
TUBE SHEET MAPS

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



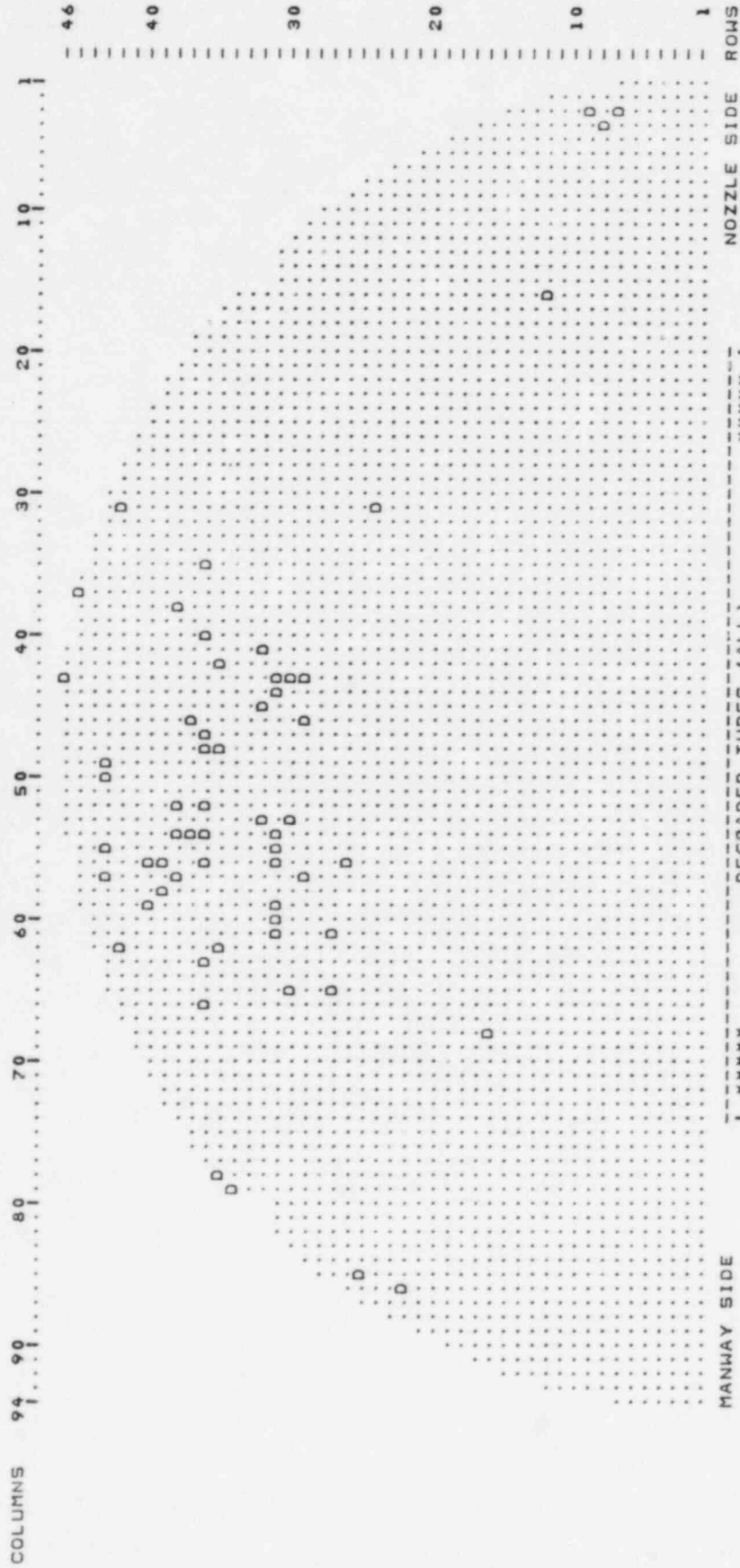
NORTHERN STATES POWER COMPANY
 NUCLEAR GENERATING PLANT MATERIALS AND SPECIAL PROCESSES SECTION
 PRAIRIE ISLAND NUCLEAR GENERATING PLANT STEAM GENERATOR TUBE MAP - WESTINGHOUSE SERIES 51



 STEAM GENERATOR NO.
 INLET OR OUTLET
 INSPECTIONS MAPPED
 REGION MAPPED

PLUGGED TUBES
 INLET (HOT LEG)
 TUBES THROUGH 99-9
 TUBES SHEET
 AROUND U-BEND

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



MANWAY SIDE

DEGRADED TUBES (ALL)

STEAM GENERATOR NO. 1

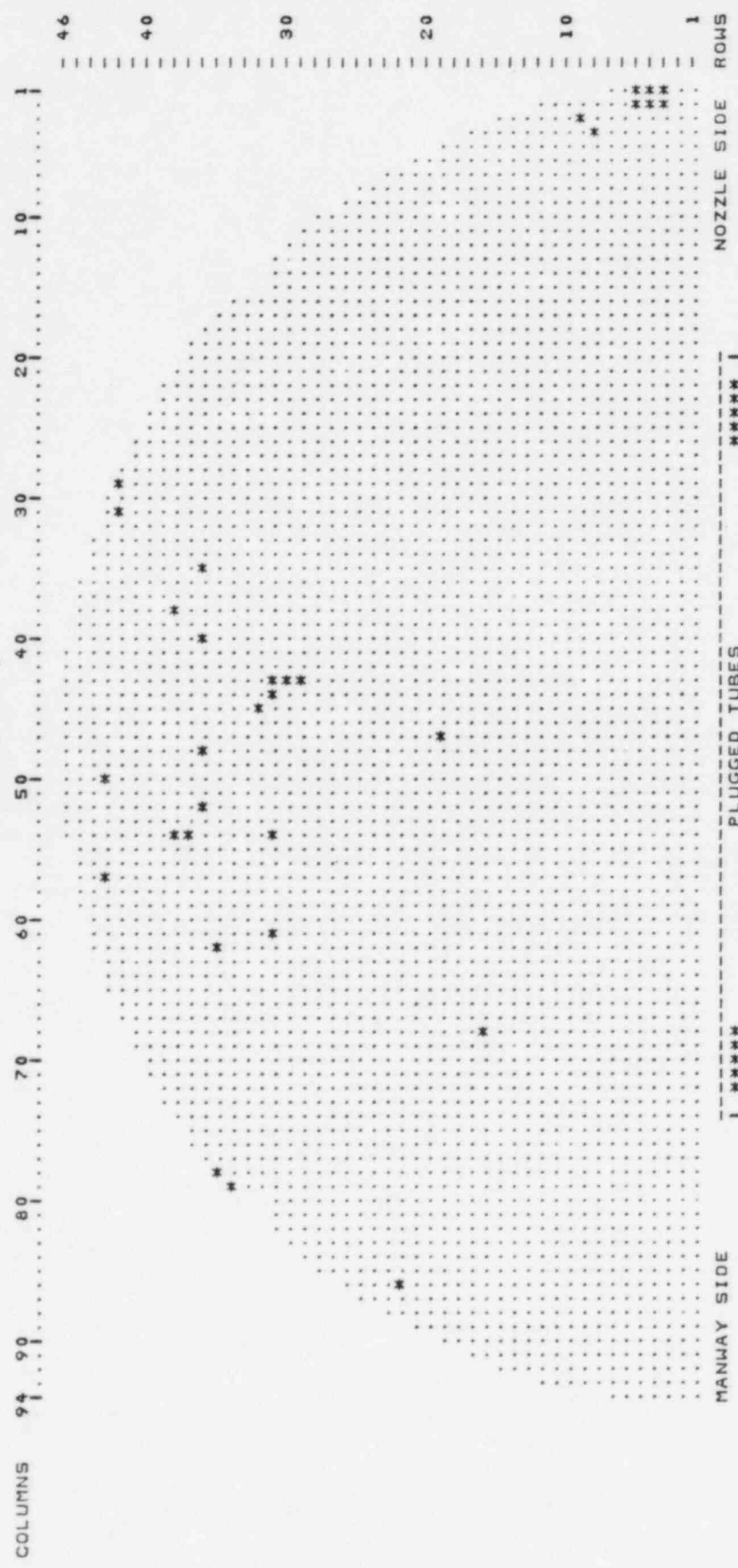
OUTLET (COLD LEG)

TUBE SHEET

TUBE THROUGH 99-9

AROUND U-BEND

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



*** STEAM GENERATOR NO. 1 ***
 *** INSULATION OR OUTLET MAPPED ***
 *** REGION MAPPED TO ***
 PLUGGED TUBES
 OUTLET (COLD LEG)
 00-0 THROUGH
 TUBE SHEET
 AROUND U-BEND

PRAIRIE ISLAND NUCLEAR GENERATING PLANT
LIST OF PLUGGED STEAM GENERATOR TUBES

JAN 17, 1983

GEN NO.	SIDE	ROW	COL	YEAR	REMARKS/COMMENTS
11	INLET	3			PREV.
		4			PREV.
		5			PREV.
		6			PREV.
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		8			PREV.
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JAN 17, 1983

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

GEN NO.	SIDE	ROW	COL	YEAR	FROM	TO	DEFECT OR OBS	%	REMARKS/COMMENTS
11	INLET	2	1	7	5 " ABOVE	TUBE SH	THINNING	<20	
		3	1	7	5 " ABOVE	TUBE SH	THINNING	65	
		4	1	7	5 " ABOVE	TUBE SH	THINNING	100	
		5	1	7	5 " ABOVE	1ST SUP	THINNING	99	
		6	1	7	5 " ABOVE	1ST SUP	THINNING	100	
		7	1	7	5 " ABOVE	4TH SUP	THINNING	100	
		8	1	7	5 " ABOVE	2ND SUP	THINNING	100	
		9	1	7	5 " ABOVE	TUBE SH	THINNING	100	
		10	1	7	5 " ABOVE	TUBE SH	THINNING	100	
		11	1	7	5 " ABOVE	1ST SUP	THINNING	100	
		12	1	7	5 " ABOVE	7TH SUP	THINNING	100	
		13	1	7	5 " ABOVE	7TH SUP	THINNING	100	
		14	1	7	5 " ABOVE	9RD SUP	THINNING	100	
		15	1	7	5 " ABOVE	1ST SUP	THINNING	100	
		16	1	7	5 " ABOVE	9RD AVB	THINNING	100	
		17	1	7	5 " ABOVE	4TH AVB	THINNING	100	
		18	1	7	5 " ABOVE	1ST SUP	THINNING	100	
		19	1	7	5 " ABOVE	2ND AVB	THINNING	100	
		20	1	7	5 " ABOVE	1ST AVB	THINNING	100	
		21	1	7	5 " ABOVE	2ND AVB	THINNING	100	
		22	1	7	5 " ABOVE	9RD AVB	THINNING	100	
		23	1	7	5 " ABOVE	1ST AVB	THINNING	100	
		24	1	7	5 " ABOVE	2ND AVB	THINNING	100	
		25	1	7	5 " ABOVE	9RD AVB	THINNING	100	
		26	1	7	5 " ABOVE	1ST AVB	THINNING	100	
		27	1	7	5 " ABOVE	2ND AVB	THINNING	100	
		28	1	7	5 " ABOVE	9RD AVB	THINNING	100	
		29	1	7	5 " ABOVE	1ST AVB	THINNING	100	
		30	1	7	5 " ABOVE	2ND AVB	THINNING	100	
		31	1	7	5 " ABOVE	9RD AVB	THINNING	100	
		32	1	7	5 " ABOVE	1ST SUP	THINNING	100	
		33	1	7	5 " ABOVE	2ND AVB	THINNING	100	
		34	1	7	5 " ABOVE	9RD AVB	THINNING	100	
		35	1	7	5 " ABOVE	1ST AVB	THINNING	100	
		36	1	7	5 " ABOVE	2ND AVB	THINNING	100	
		37	1	7	5 " ABOVE	9RD AVB	THINNING	100	
		38	1	7	5 " ABOVE	1ST AVB	THINNING	100	
		39	1	7	5 " ABOVE	2ND AVB	THINNING	100	
		40	1	7	5 " ABOVE	9RD AVB	THINNING	100	
		41	1	7	5 " ABOVE	1ST AVB	THINNING	100	
		42	1	7	5 " ABOVE	2ND AVB	THINNING	100	
		43	1	7	5 " ABOVE	9RD AVB	THINNING	100	
		44	1	7	5 " ABOVE	1ST AVB	THINNING	100	
		45	1	7	5 " ABOVE	2ND AVB	THINNING	100	
		46	1	7	5 " ABOVE	9RD AVB	THINNING	100	
		47	1	7	5 " ABOVE	1ST AVB	THINNING	100	
		48	1	7	5 " ABOVE	2ND AVB	THINNING	100	
		49	1	7	5 " ABOVE	9RD AVB	THINNING	100	
		50	1	7	5 " ABOVE	1ST AVB	THINNING	100	
		51	1	7	5 " ABOVE	2ND AVB	THINNING	100	
		52	1	7	5 " ABOVE	9RD AVB	THINNING	100	
		53	1	7	5 " ABOVE	1ST AVB	THINNING	100	
		54	1	7	5 " ABOVE	2ND AVB	THINNING	100	
		55	1	7	5 " ABOVE	9RD AVB	THINNING	100	
		56	1	7	5 " ABOVE	1ST AVB	THINNING	100	
		57	1	7	5 " ABOVE	2ND AVB	THINNING	100	
		58	1	7	5 " ABOVE	9RD AVB	THINNING	100	
		59	1	7	5 " ABOVE	1ST AVB	THINNING	100	
		60	1	7	5 " ABOVE	2ND AVB	THINNING	100	
		61	1	7	5 " ABOVE	9RD AVB	THINNING	100	
		62	1	7	5 " ABOVE	1ST AVB	THINNING	100	
		63	1	7	5 " ABOVE	2ND AVB	THINNING	100	
		64	1	7	5 " ABOVE	9RD AVB	THINNING	100	
		65	1	7	5 " ABOVE	1ST AVB	THINNING	100	
		66	1	7	5 " ABOVE	2ND AVB	THINNING	100	
		67	1	7	5 " ABOVE	9RD AVB	THINNING	100	
		68	1	7	5 " ABOVE	1ST AVB	THINNING	100	
		69	1	7	5 " ABOVE	2ND AVB	THINNING	100	
		70	1	7	5 " ABOVE	9RD AVB	THINNING	100	
		71	1	7	5 " ABOVE	1ST AVB	THINNING	100	
		72	1	7	5 " ABOVE	2ND AVB	THINNING	100	
		73	1	7	5 " ABOVE	9RD AVB	THINNING	100	
		74	1	7	5 " ABOVE	1ST AVB	THINNING	100	
		75	1	7	5 " ABOVE	2ND AVB	THINNING	100	
		76	1	7	5 " ABOVE	9RD AVB	THINNING	100	
		77	1	7	5 " ABOVE	1ST AVB	THINNING	100	
		78	1	7	5 " ABOVE	2ND AVB	THINNING	100	
		79	1	7	5 " ABOVE	9RD AVB	THINNING	100	
		80	1	7	5 " ABOVE	1ST AVB	THINNING	100	
		81	1	7	5 " ABOVE	2ND AVB	THINNING	100	
		82	1	7	5 " ABOVE	9RD AVB	THINNING	100	
		83	1	7	5 " ABOVE	1ST AVB	THINNING	100	
		84	1	7	5 " ABOVE	2ND AVB	THINNING	100	
		85	1	7	5 " ABOVE	9RD AVB	THINNING	100	
		86	1	7	5 " ABOVE	1ST AVB	THINNING	100	
		87	1	7	5 " ABOVE	2ND AVB	THINNING	100	
		88	1	7	5 " ABOVE	9RD AVB	THINNING	100	
		89	1	7	5 " ABOVE	1ST AVB	THINNING	100	
		90	1	7	5 " ABOVE	2ND AVB	THINNING	100	
		91	1	7	5 " ABOVE	9RD AVB	THINNING	100	
		92	1	7	5 " ABOVE	1ST AVB	THINNING	100	
		93	1	7	5 " ABOVE	2ND AVB	THINNING	100	
		94	1	7	5 " ABOVE	9RD AVB	THINNING	100	
		95	1	7	5 " ABOVE	1ST AVB	THINNING	100	
		96	1	7	5 " ABOVE	2ND AVB	THINNING	100	
		97	1	7	5 " ABOVE	9RD AVB	THINNING	100	
		98	1	7	5 " ABOVE	1ST AVB	THINNING	100	
		99	1	7	5 " ABOVE	2ND AVB	THINNING	100	
		100	1	7	5 " ABOVE	9RD AVB	THINNING	100	

BELOW

3RD AVB

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

Page 7 of 8

JAN 17, 1983

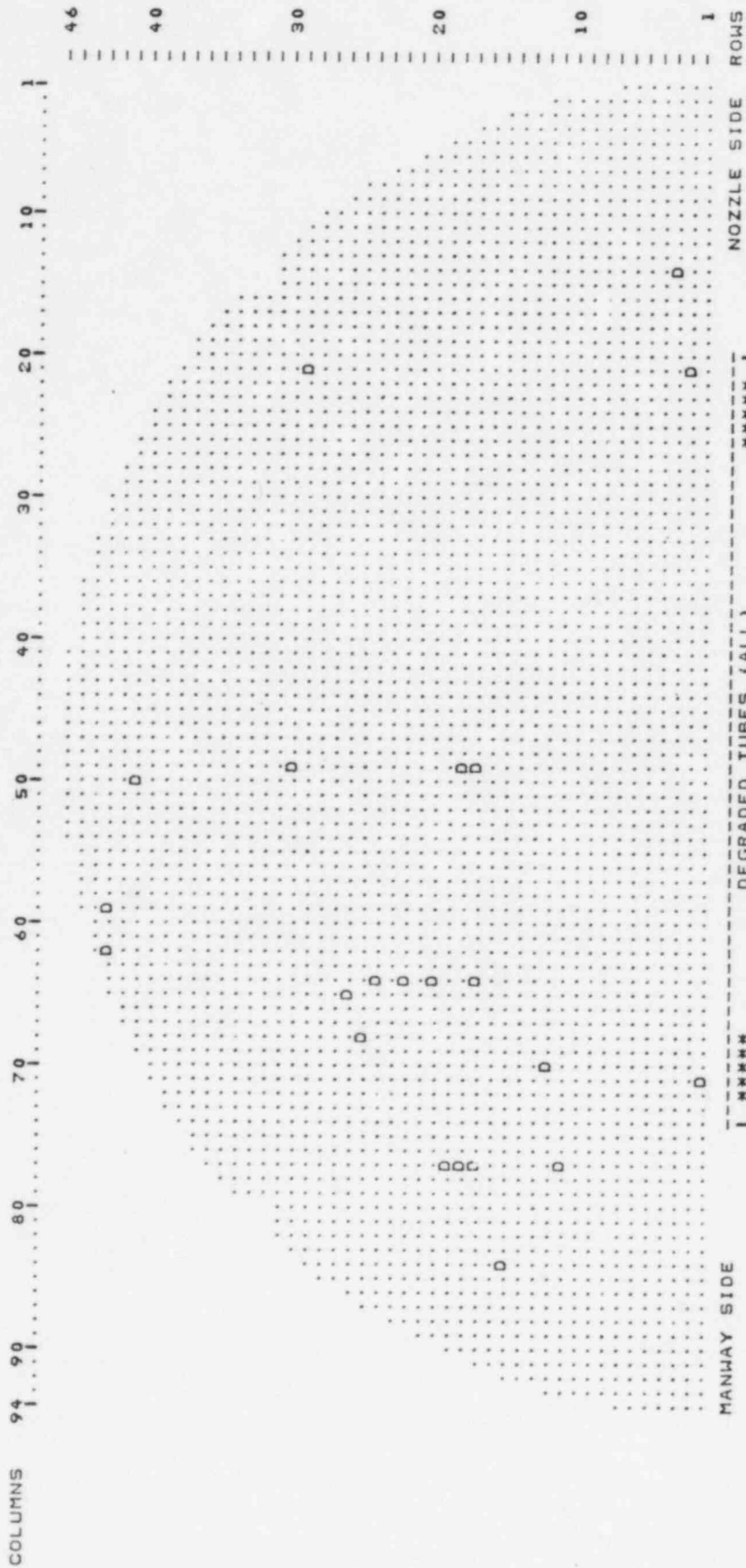
PRAIRIE ISLAND NUCLEAR GENERATING PLANT
LIST OF IMPERFECT, DEGRADED AND DEFECTIVE TUBES

GEN NO.	SIDE	ROW	COL	YEAR	FROM	TO	DEFECT OR OBS	%	REMARKS/COMMENTS
11	OUTLET	55	81	1	3RD	AVB	THINNING	0	
		56	81	1	2ND	AVB	THINNING	0	
			81	1	3RD	AVB	THINNING	0	
		59	81	1	4TH	AVB	THINNING	0	
		60	81	1	4TH	AVB	THINNING	0	
		61	81	1	3RD	AVB	THINNING	0	
			81	1	3RD	AVB	THINNING	0	
	32	41	81	1	3RD	AVB	THINNING	0	
		45	81	1	1ST	SUP	THINNING	0	
			81	1	2ND	AVB	THINNING	0	
		53	81	1	3RD	AVB	THINNING	0	
			81	1	2ND	AVB	THINNING	0	
	34	79	81	1	3RD	AVB	THINNING	0	
	35	42	81	1	1ST	SUP	THINNING	0	
			81	1	2ND	AVB	THINNING	0	
			81	1	2ND	AVB	THINNING	0	
	35	48	81	1	4TH	AVB	THINNING	0	
		62	81	1	4TH	AVB	THINNING	0	
		78	81	1	2ND	SUP	THINNING	0	
	36	35	81	1	2ND	SUP	THINNING	0	
			81	1	1ST	AVB	THINNING	0	
			81	1	2ND	AVB	THINNING	0	
			81	1	3RD	AVB	THINNING	0	
			81	1	4TH	AVB	THINNING	0	
		40	81	1	1ST	AVB	THINNING	0	
			81	1	2ND	AVB	THINNING	0	
			81	1	3RD	AVB	THINNING	0	
			81	1	4TH	AVB	THINNING	0	
		47	81	1	4TH	AVB	THINNING	0	
		48	81	1	2ND	AVB	THINNING	0	
			81	1	3RD	AVB	THINNING	0	
		52	81	1	3RD	AVB	THINNING	0	
		54	81	1	2ND	AVB	THINNING	0	
		56	81	1	2ND	AVB	THINNING	0	
			81	1	4TH	AVB	THINNING	0	
		63	81	1	3RD	AVB	THINNING	0	
		66	81	1	3RD	AVB	THINNING	0	
	37	46	81	1	3RD	AVB	THINNING	0	
		54	81	1	3RD	AVB	THINNING	0	
	38	38	81	1	4TH	AVB	THINNING	0	
		52	81	1	3RD	AVB	THINNING	0	
		54	81	1	3RD	AVB	THINNING	0	
			81	1	3RD	AVB	THINNING	0	
			81	1	4TH	AVB	THINNING	0	
		57	81	1	1ST	AVB	THINNING	0	
	39	56	81	1	2ND	AVB	THINNING	0	
			81	1	1ST	AVB	THINNING	0	
		58	81	1	2ND	AVB	THINNING	0	
			81	1	3RD	AVB	THINNING	0	
			81	1	4TH	AVB	THINNING	0	
	40	56	81	1	4TH	AVB	THINNING	0	
		59	81	1	3RD	AVB	THINNING	0	
			81	1	4TH	AVB	THINNING	0	
	42	31	81	1	3RD	SUP	THINNING	0	
		62	81	1	1ST	SUP	THINNING	0	
	43	49	81	1	3RD	AVB	THINNING	0	
			81	1	4TH	AVB	THINNING	0	
		50	81	1	3RD	AVB	THINNING	0	
			81	1	4TH	AVB	THINNING	0	
		55	81	1	2ND	AVB	THINNING	0	
		57	81	1	4TH	AVB	THINNING	0	
			81	1	2ND	AVB	THINNING	0	
	44	62	81	1	3RD	AVB	THINNING	0	
	45	37	81	1	1ST	SUP	THINNING	0	
	46	43	81	1	3RD	SUP	THINNING	0	
			81	1	2ND	AVB	THINNING	0	

APPENDIX G

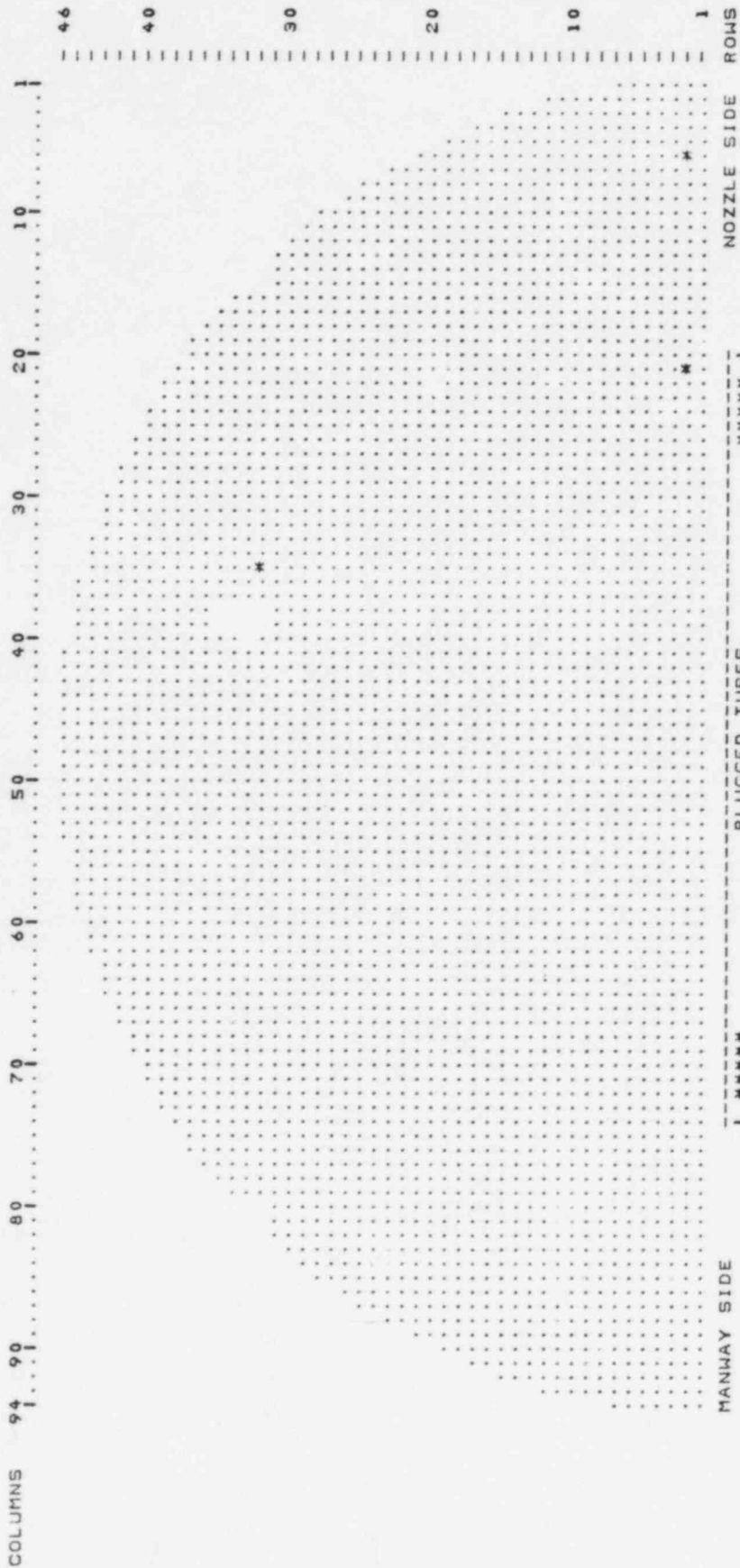
STEAM GENERATOR NO. 12
EDDY CURRENT EXAMINATIONS
TUBE SHEET MAPS

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



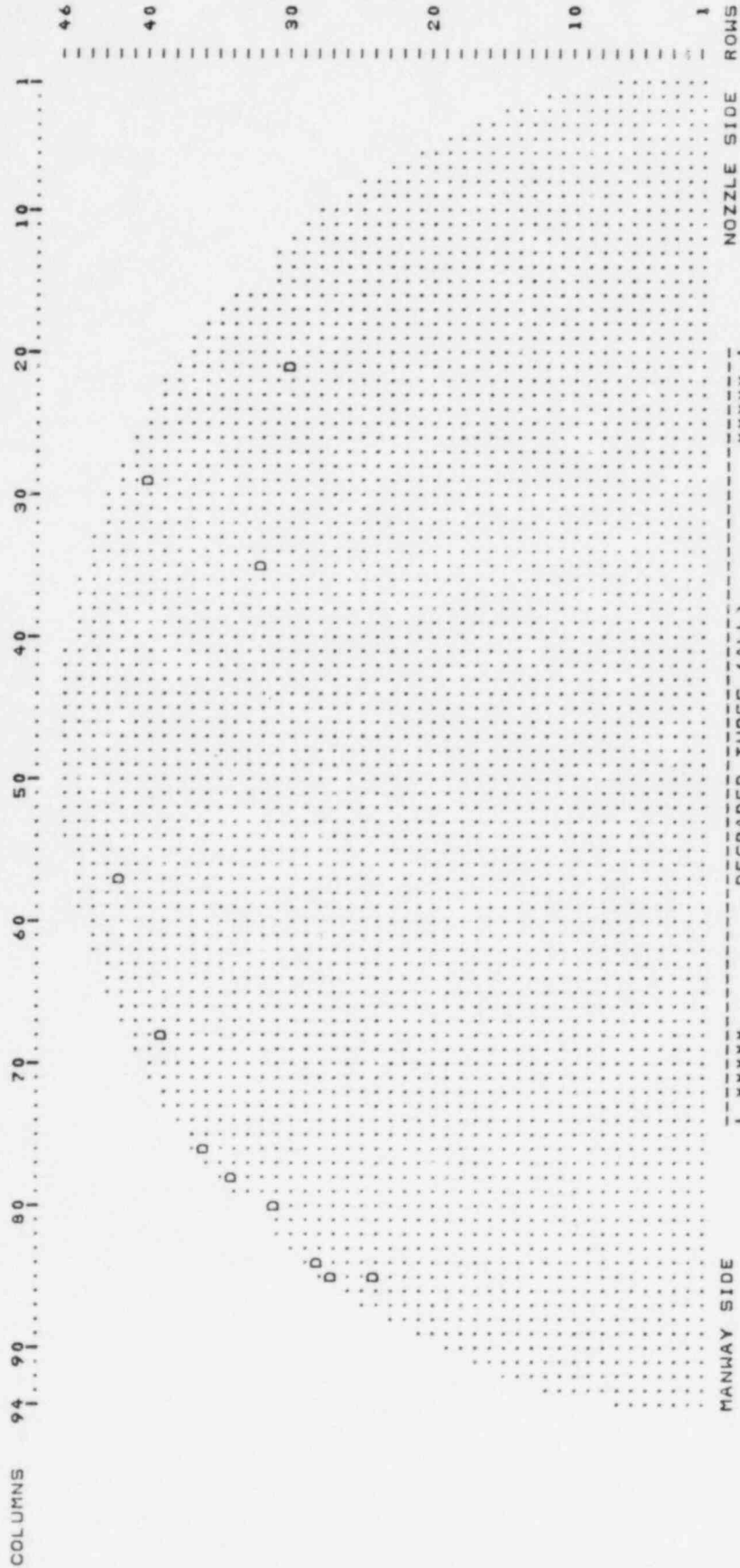
***** DEGRADED TUBES (ALL) *****
 ***** GENERATOR OR OUTLET NO. *****
 ***** INLET (HOT LEG) *****
 ***** INSPECTION MAPPED *****
 ***** REGION MAPPED *****
 ***** TUBES THROUGH 99-9 *****
 ***** AROUND U-BEND *****

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



*****	GENERATOR NO.	*****
*****	STEAM OR OUTLET	*****
*****	INLET (HOT LEG)	*****
*****	00-6 THROUGH 99-9	*****
*****	TUBE SHEET	*****
*****	AROUND U-BEND	*****
*****	PLUGGED TUBES	*****

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



MANWAY SIDE

DEGRADED TUBES (ALL)

STEAM GENERATOR NO. 1

OUTLET (COLD LEG)

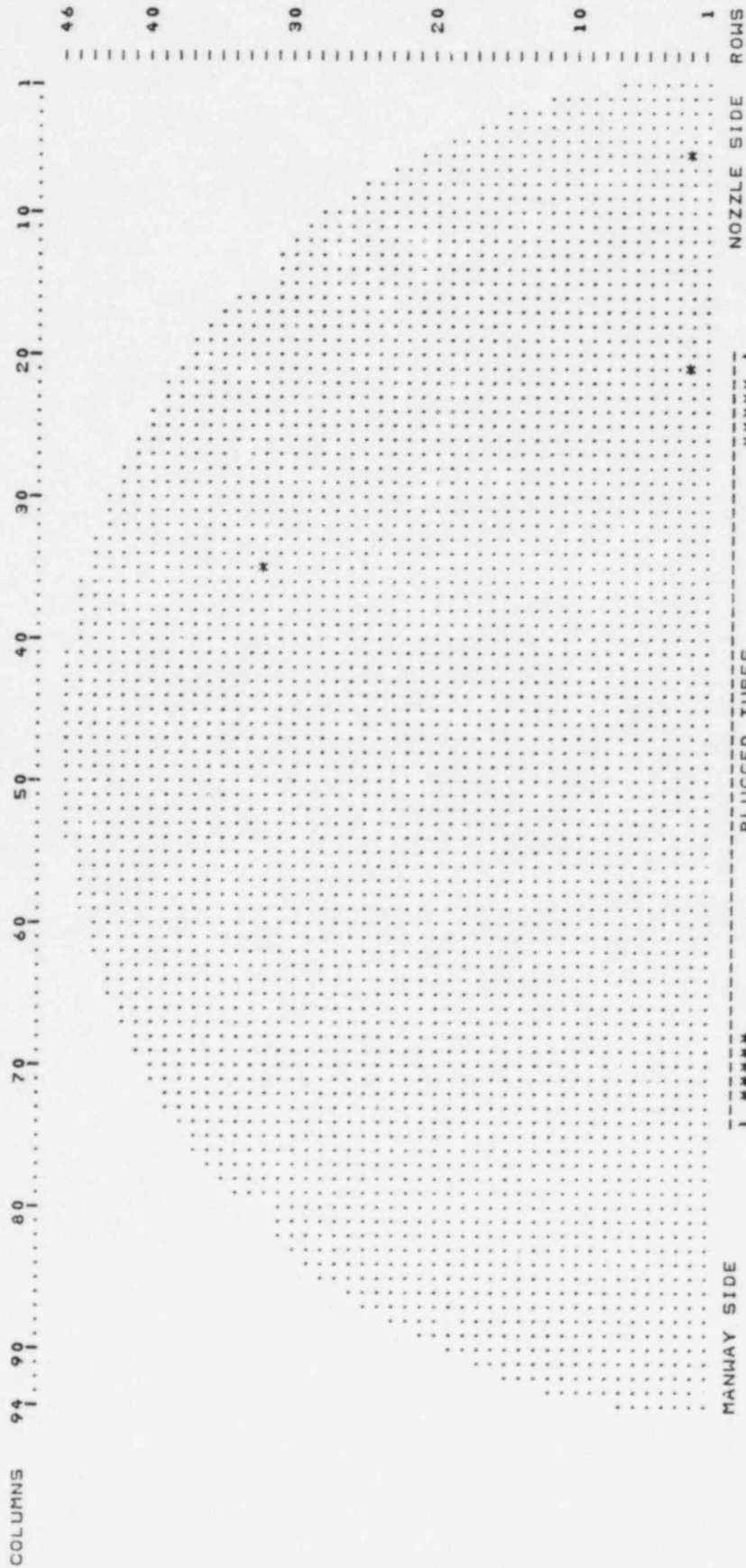
00-0 THROUGH 99-9

TUBE SHEET

AROUND U-BEND

NOZZLE SIDE

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



 STEAM GENERATOR NO. :
 INLET OR OUTLET :
 INSPECTIONS MAPPED :
 REGION MAPPED :

PLUGGED TUBES :
 OUTLET (COLD LEG)
 00-10 THROUGH 99-9
 TUBE SHEET
 AROUND U-BEND

JAN 17, 1983

PRAIRIE ISLAND NUCLEAR GENERATING PLANT
LIST OF PLUGGED STEAM GENERATOR TUBES

GEN NO.	SIDE	ROW	COL	YEAR	REMARKS/COMMENTS
12	INLET	2	6	81-	1981 S/O
		32	21	80-	1980
		2	35	81-	1981
	OUTLET	2	6	81-	1981 S/I
		32	21	80-	1980
			35	81-	1981

JAN 17, 1983

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

GEN NO.	SIDE	ROW	COL	YEAR	FROM	TO	DEFECT OR OBS	%	REMARKS/COMMENTS				
12	INLET	1	71	82	11" BELOW 16" ABOVE	1ST SUP	THINNING	100	POSSIBLE BEND				
		2	71	80		TUBE SH	THINNING						
		3	71	80		6TH SUP	THINNING						
		11	77	82		1ST SUP	THINNING						
		12	77	82		1ST SUP	THINNING						
		15	70	82		1ST SUP	THINNING						
			84	78		1ST SUP	THINNING						
				82		1ST SUP	THINNING						
				81		1ST SUP	THINNING						
		17	49	82		1ST SUP	THINNING						
			64	82		1ST SUP	THINNING						
			77	82		1ST SUP	THINNING						
		18	49	82		1ST SUP	THINNING						
			77	82		1ST SUP	THINNING						
		19	77	82		1ST SUP	THINNING						
		20	64	82		1ST SUP	THINNING						
		22	64	82		1ST SUP	THINNING						
		24	64	82		1ST SUP	THINNING						
		25	68	82		1ST SUP	THINNING						
		26	65	82		1ST SUP	THINNING						
		29	21	82		1ST SUP	THINNING						
		OUTLET	30	49		82	2" ABOVE			TUBE SH	THINNING	100	BETWEEN
			41	50		82	2" BELOW			1ST AVB	THINNING	100	
			44	50		82	3RD AVB			THINNING	100		
			47	50		82	1ST SUP			THINNING	100		
	48		84	82	1ST SUP	THINNING	100						
				80	1ST SUP	THINNING	100						
				81	1ST SUP	THINNING	100						
	50		21	82	1ST SUP	THINNING	100						
	51		80	82	1ST SUP	THINNING	100						
	52		35	82	1ST SUP	THINNING	100						
				81	1ST SUP	THINNING	100						
	54		78	82	2ND AVB	THINNING	100						
	56		76	82	3RD AVB	THINNING	100						
	59		68	82	1ST SUP	THINNING	100						
	60		29	82	1ST SUP	THINNING	100						
				81	1ST SUP	THINNING	100						
	42	57	82	39" ABOVE	6TH SUP	THINNING	100	BETWEEN					
	43	59	82	18" BELOW	6TH SUP	THINNING	100						
		62	82	4TH SUP	THINNING	100							
			81	1ST SUP	THINNING	100							

APPENDIX H

FORM NIS-1

OWNERS' DATA REPORT FOR INSERVICE INSPECTION

FORM NIS-1 OWNERS' DATA REPORT FOR INSERVICE INSPECTIONS

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

- 1.) Owner NORTHERN STATES POWER COMPANY
 Address 414 NICOLLET MALL, MINNEAPOLIS, MINNESOTA
 2.) Plant PRAIRIE ISLAND NUCLEAR GENERATING PLANT
 Address WELSH, MINNESOTA
 3.) Plant Unit I 4.) Owner (Certificate of Authorization) ---
 5.) Commercial Service Date 12-15-73 6.) National Board Number for Unit ---
 7.) Components Inspected

<u>Component or Appurtenance</u>	<u>Manufacturer or Installer</u>	<u>Manufacturer or Installer Serial No.</u>	<u>State or Province No.</u>	<u>National Board No.</u>
<u>B1.0</u>				
<u>REACTOR VESSEL</u>	CREUSOT-LOIRE	686	MINN. 200-51	---
<u>B1.8 CLOSURE STUDS AND NUTS</u>				
STUDS 32,34-48	CREUSOT-LOIRE	---	---	---
NUTS 32,34-48	CREUSOT-LOIRE	---	---	---
<u>B1.10 CLOSURE WASHERS AND BUSHINGS</u>				
WASHERS 32,34-48	CREUSOT-LOIRE	---	---	---

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
- 2.) Plant PRAIRIE ISLAND NUCLEAR GENERATING PLANT
 Address WELSH, MINNESOTA
- 3.) Plant Unit I 4.) Owner (Certificate of Authorization) ---
- 5.) Commercial Service Date 12-16-73 6.) National Board Number for Unit ---
- 7.) Components Inspected

<u>Component or Appurtenance</u>	<u>Manufacturer or Installer</u>	<u>Manufacturer or Installer Serial No.</u>	<u>State or Province No.</u>	<u>National Board No.</u>
<u>B3.0</u>				
<u>STEAM GENERATORS</u>				
<u>B3.10 PRESSURE RETAINING BOLTING</u>				
S/G NO.11 MANWAY BOLTS INLET BOLTS	WESTINGHOUSE	1101	---	68-24
S/G NO.11 OUTLET BOLTS	WESTINGHOUSE	1101	---	68-24
S/G NO.12 MANWAY BOLTS INLET BOLTS	WESTINGHOUSE	1102	---	68-25
S/G NO.12 MANWAY BOLTS OUTLET BOLTS	WESTINGHOUSE	1102	---	68-25
<u>B4.0</u>				
<u>PIPING PRESSURE BOUNDARY</u>				
<u>B4.1 SAFE-END TO PIPING AND SAFE-END IN BRANCH PIPING WELDS</u>				
SAFETY INJECTION NAVCO		---	---	---
B				
W-2				

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
- 2.) Plant PRAIRIE ISLAND NUCLEAR GENERATING PLANT
 Address WELSH, MINNESOTA
- 3.) Plant Unit I 4.) Owner (Certificate of Authorization) ---
- 5.) Commercial Service Date 12-16-73 6.) National Board Number for Unit ---
- 7.) Components Inspected

<u>Component or Appurtenance</u>	<u>Manufacturer or Installer</u>	<u>Manufacturer or Installer Serial No.</u>	<u>State or Province No.</u>	<u>National Board No.</u>
<u>B4.5 CIRCUMFERENTIAL AND LONGITUDINAL PIPE WELDS</u>				
CHARGING LINE CVCS W-11,12,20,21	NAVCO	---	---	---
AUXILIARY SPRAY TO PRESSURIZER W-1A, 3	NAVCO	---	---	---
SPRAY TO PRESSURIZER B W-1,3	NAVCO	---	---	---
RTD RETURN A W-6	NAVCO	---	---	---
PRESSURIZER SAFETY LINE A W-6	NAVCO	---	---	---
ACCUMULATOR DISCHARGE A W-2	NAVCO	---	---	---
<u>B4.7 BRANCH PIPING CONNECTION WELDS SIX INCH DIAMETER AND SMALLER</u>				
SPRAY TO PRESSURIZER B W-R	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
- 2.) Plant PRAIRIE ISALND NUCLEAR GENERATING PLANT
Address WELSH, MINNESOTA
- 3.) Plant Unit I 4.) Owner (Certificate of Authorization) ---
- 5.) Commercial Service Date 12-16-73 6.) National Board Number for Unit ---
- 7.) Components Inspected

<u>Component or Appurtenance</u>	<u>Manufacturer or Installer</u>	<u>Manufacturer or Installer Serial No.</u>	<u>State or Province No.</u>	<u>National Board No.</u>
<u>B4.8 SOCKET WELDS</u>				
CHARGING LINE CVCS W-29	NAVCO	---	---	---
RTD HOT LEG, B W-14	NAVCO	---	---	---
<u>B4.9 INTEGRALLY WELDED SUPPORTS</u>				
AUXILIARY SPRAY TO PRESSURIZER A, 114-CVCS-1	NAVCO	---	---	---
<u>B4.10 SUPPORT COMPONENTS</u>				
SPRAY TO PRESSURIZER A F, RCRH-19 G, RCRH-18 K, RCRH-14	NAVCO	---	---	---
RESIDUAL HEAT REMOVAL RETURN C, 10-RHR-3 D, RHRRH-9	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
- 2.) Plant PRAIRIE ISLAND NUCLEAR GENERATING PLANT
 Address WELSH, MINNESOTA
- 3.) Plant Unit I 4.) Owner (Certificate of Authorization) ---
- 5.) Commercial Service Date 12-16-73 6.) National Board Number for Unit ---
- 7.) Components Inspected

<u>Component or Appurtenance</u>	<u>Manufacturer or Installer</u>	<u>Manufacturer or Installer Serial No.</u>	<u>State or Province No.</u>	<u>National Board No.</u>
<u>B4.10 CON'T.</u>				
RTD HOT LEG B D, 137-RTD-6 E, 137-RTD-7	NAVCO	---	---	---
CHARGING LINES CVCS O, RCVCH-913 P, RCVCH-1278 Q, RCVCH-909 Q1, RCVCH-910 R, RCVCH-908 R1, RCVCH-911 S, RCVCH-907	NAVCO	---	---	---
AUXILIARY SPRAY TO PRESSURIZER F, RPCH-2 G, RPCH-1	NAVCO	---	---	---
<u>B4.12 PRESSURE RETAINING BOLTING</u>				
PRESSURIZER SAFETY B BOLTS 1-12	NAVCO	---	---	---
PRESSURIZER SAFETY A BOLTS 1-12	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
- 2.) Plant PRAIRIE ISLAND NUCLEAR GENERATING PLANT
 Address WELSH, MINNESOTA
- 3.) Plant Unit I 4.) Owner (Certificate of Authorization) ---
- 5.) Commercial Service Date 12-16-73 6.) National Board Number for Unit ---
- 7.) Components Inspected

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

B5.0 REACTOR CORE COOLANT PUMPS

B5.3 PRESSURE RETAINING BOLTS AND STUDS, IN PLACE (22 INCH DIAMETER)

PUMP A SEAL		---	---	---
HOUSE BOLTING				
BOLTS 1 THRU 12				

PUMP B SEAL		---	---	---
HOUSE BOLTING				
BOLTS 1 THRU 12				

B6.9 PRESSURE RETAINING BOLTING

ACCUMULATOR B	NAVCO	---	---	---
BOLTS 1-16				

PRESSURIZER	NAVCO	---	---	---
SPRAY A				
BOLTS 1-8				

RTD COLD LEG A	NAVCO	---	---	---
BOLTS 1-2				

RTD COLD LEG B	NAVCO	---	---	---
BOLTS 1-2				

RTD HOT LEG B	NAVCO	---	---	---
BOLTS 1-2				

AUXILIARY SPRAY	NAVCO	---	---	---
TO PRESSURIZER				
BOLTS 1-6				

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- 2.) Plant PRAIRIE ISLAND NUCLEAR GENERATING PLANT
 Address WELSH, MINNESOTA
- 3.) Plant Unit I 4.) Owner (Certificate of Authorization) ---
- 5.) Commercial Service Date 12-16-73 6.) National Board Number for Unit ---
- 7.) Components Inspected

<u>Component or Appurtenance</u>	<u>Manufacturer or Installer</u>	<u>Manufacturer or Installer Serial No.</u>	<u>State or Province No.</u>	<u>National Board No.</u>
ASME CLASS II				
<u>PRESSURE VESSELS - STEAM GENERATORS</u>				
<u>C1.1 CIRCUMFERENTIAL BUTT WELDS</u>				
STEAM GENERATOR NO. 11 W-F	WESTINGHOUSE	1101	---	68-24
STEAM GENERATOR NO. 12 W-F, H	WESTINGHOUSE	1102	---	68-25
<u>C1.2 NOZZLE TO VESSEL WELDS</u>				
STEAM GENERATOR NO. 12 W-N4	WESTINGHOUSE	1102	---	68-25
<u>PRESSURE VESSELS - ACCUMULATOR</u>				
<u>C1.4 PRESSURE RETAINING BOLTING</u>				
ACCUMULATOR NO. 12 MANWAY BOLTS 1-24	DELTA SOUTHERN	41038-70-2	---	2555
<u>C2.0 PIPING</u>				
<u>C2.1 CIRCUMFERENTIAL BUTT WELDS</u>				
REACTOR WATER STORAGE TANK DISCHARGE W-202, 213	NAVCO	---	---	---
RESIDUAL HEAT REMOVAL SUCTION W-27	NAVCO	---	---	---

FORM NIS-1 OWNERS' DATA REPORT FOR INSERVICE INSPECTIONS

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- 1.) Owner NORTHERN STATES POWER COMPANY
 Address 414 NICOLLET MALL, MINNEAPOLIS, MINNESOTA
- 2.) Plant PRAIRIE ISLAND NUCLEAR GENERATING PLANT
 Address WELSH, MINNESOTA
- 3.) Plant Unit I 4.) Owner (Certificate of Authorization) ---
- 5.) Commercial Service Date 11-16-73 6.) National Board Number for Unit ---
- 7.) Components Inspected

<u>Component or Appurtenance</u>	<u>Manufacturer or Installer</u>	<u>Manufacturer or Installer Serial No.</u>	<u>State or Province No.</u>	<u>National Board No.</u>
<u>C2.1 CON'T</u>				
FEEDWATER A W-164	NAVCO	---	---	---
FEEDWATER B W-216	NAVCO	---	---	---
RESIDUAL HEAT REMOVAL DISCHARGE W-3,8	NAVCO	---	---	---
REACTOR VESSEL SAFETY INJECTION W-1292	NAVCO	---	---	---
<u>C2.2 LONGITUDINAL WELDED JOINTS IN FITTINGS</u>				
BORIC ACID SUPPLY W-51 to 52 to 53	NAVCO	---	---	---
RESIDUAL HEAT REMOVAL SUCTION W-1044 to 1045R	NAVCO	---	---	---
RESIDUAL HEAT REMOVAL DISCHARGE W-3 to 4	NAVCO	---	---	---
REACTOR WATER STORAGE TANK DISCHARGE W-213 to 265	NAVCO	---	---	---
<u>C2.5 INTEGRALLY WELDED SUPPORTS</u>				
MAIN STEAM A C, MSH-46 E, MSH-35	NAVCO			

FORM NIS-1 OWNERS' DATA REPORT FOR INSERVICE INSPECTIONS

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- 2.) Plant PRAIRIE ISLAND NUCLEAR GENERATING PLANT
 Address WELSH, MINNESOTA
- 3.) Plant Unit I 4.) Owner (Certificate of Authorization) ---
- 5.) Commercial Service Date 12-16-73 6.) National Board Number for Unit ---
- 7.) Components Inspected

<u>Component or Appurtenance</u>	<u>Manufacturer or Installer</u>	<u>Manufacturer or Installer Serial No.</u>	<u>State or Province No.</u>	<u>National Board No.</u>
<u>C2.5 CON'T</u>				
REACTOR WATER STORAGE TANK DISCHARGE E, SIH-30	NAVCO	---	---	---
RESIDUAL HEAT REMOVAL DISCHARGE B, RHRH-65 E, RHRH-41	NAVCO	---	---	---
RESIDUAL HEAT REMOVAL SUCTION D, RHRH-63	NAVCO	---	---	---
REACTOR VESSEL SAFETY INJECTION I, RHRRH-5	NAVCO	---	---	---
SAFETY INJECTION FROM RESIDUAL HEAT REMOVAL I, RHRRH-45 J, RHRRH-46	NAVCO	---	---	---
<u>C2.6 SUPPORT COMPONENTS</u>				
RESIDUAL HEAT REMOVAL DISCHARGE C, RHRH-39 D, RHRH-40	NAVCO	---	---	---
SAFETY INJECTION PUMP SUCTION R, CVCH-135	NAVCO	---	---	---

FORM NIS-1 OWNERS' DATA REPORT FOR INSERVICE INSPECTIONS

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- 2.) Plant PRAIRIE ISLAND NUCLEAR GENERATING PLANT
 Address WELSH, MINNESOTA
- 3.) Plant Unit I 4.) Owner (Certificate of Authorization) ---
- 5.) Commercial Service Date 12-16-73 6.) National Board Number for Unit ---
- 7.) Components Inspected

<u>Component or Appurtenance</u>	<u>Manufacturer or Installer</u>	<u>Manufacturer or Installer Serial No.</u>	<u>State or Province No.</u>	<u>National Board No.</u>
<u>SEISMIC BOLTING</u>				
<u>STEAM GENERATORS</u>	WESTINGHOUSE	1101	---	68-24
<u>NUMBER 11</u>				
SNUBBERS 3 & 4 4 PINS				
SNUBBER WALL BOLTS 5 BOLTS				
SNUBBER BOLTS 16 BOLTS				
BASE ANCHOR BOLTS COLUMN 3 & 4 16 BOLTS				
RING WALL BOLTS 5 BOLTS				
<u>STEAM GENERATOR</u>	WESTINGHOUSE	1102	---	68-25
<u>NUMBER 12</u>				
SNUBBERS 3 & 4 4 PINS				
SNUBBER WALL BOLTS 5 BOLTS				

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
- 2.) Plant PRAIRIE ISLAND NUCLEAR GENERATING PLANT
 Address WELSH, MINNESOTA
- 3.) Plant Unit I 4.) Owner (Certificate of Authorization) ---
- 5.) Commercial Service Date 12-16-73 6.) National Board Number for Unit ---
- 7.) Components Inspected

<u>Component or Appurtenance</u>	<u>Manufacturer or Installer</u>	<u>Manufacturer or Installer Serial No.</u>	<u>State or Province No.</u>	<u>National Board No.</u>
<u>STEAM GENERATOR NO. 12 CON'T</u>				
SNUBBER BOLTS 16 BOLTS				
RING WALL BOLTS 5 BOLTS				
RING GIRDER SPRING HANGER SGH-2 SGH-4				
BASE ANCHOR BOLTS COLUMN 3 & 4 16 BOLTS				
<u>PRESSURIZER</u> BASE ANCHOR BOLTS 8 BOLTS	WESTINGHOUSE	1111	---	68-20
<u>ACCUMULATOR B</u> BASE ANCHOR BOLTS 8 BOLTS	DELTA SOUTHERN	41038-70-2	---	2555
<u>REACTOR COOLANT PUMP</u> NUMBER 11	WESTINGHOUSE	W561	---	---
BASE ANCHOR BOLTS COLUMN 3 8 BOLTS				

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
- 2.) Plant PRAIRIE ISLAND NUCLEAR GENERATING PLANT
 Address WELSH, MINNESOTA
- 3.) Plant Unit I 4.) Owner (Certificate of Authorization) ---
- 5.) Commercial Service Date 12-16-73 6.) National Board Number for Unit ---
- 7.) Components Inspected

<u>Component or Appurtenance</u>	<u>Manufacturer or Installer</u>	<u>Manufacturer or Installer Serial No.</u>	<u>State or Province No.</u>	<u>National Board No.</u>
REACTOR COOLANT PUMP	WESTINGHOUSE	W543	---	---
NUMBER 12				
BASE ANCHOR BOLTS				
COLUMN 3				
8 BOLTS				

FORM NIS-1 (back)

8.) Examination Dates 1-15-82 to 1-10-83. 9.) Inspection Interval 12-16-73 to 12-16-83.

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

This was the second inservice inspection conducted for inspection period three. The examinations completed approximately 65% of the required pressure retaining components and their supports of the reactor coolant and associated auxillary systems classified as ASME Class I and Class 2, and Seismic Bolting Program.

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

11.) Abstract of Conditions Notes.

The following is a list of all anomalies detected:

<u>System</u>	<u>Item ID</u>	<u>Exam Method</u>	<u>Type & Number of Indications</u>
Charging Line CVCS	R	VT	loose hanger
Pressurizer Safety Valve	8010B flange bolts	VT	damaged threads
Reactor Vessel Safety Injection	I	PT	1/8" linear
Feedwater B	W-216	MT	3" linear
RHR Pump A Discharge	D	VT	missing bolt
Steam Generator No. 12	SGH-4	VT	hanger bottomed out

12.) Abstract of corrective Measures Recommended and Taken.

All anomalies were corrected. The loose hanger was re-evaluated and reworked; the missing bolt was replaced; the hanger that was bottomed out was found to be carrying extra load from the steam generator insulation, the insulation was removed and repositioned; the bolts with damaged threads were replaced; and the MT & PT indications were removed by light hand grinding and blending the surface smooth.

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 FEBRUARY 10 1983 Signed WATERS STATE BANK CO. By [Signature]
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 WATERS STATE BANK CO. of WATERS STATE BANK CO. have inspected the components described in this Owners' Data Report during the period NOV. 15 1982 to JAN 10 1983 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 2-10 1983

[Signature]
Inspector's Signature

Commissions NB. 6932 MIN. 83-40
National Board, State, Province & etc.