PRAIRIE ISLAND NUCLEAR GENERATING PLANT

Red Wing, Minnesota

UNITS 1 AND 2

INSERVICE INSPECTION - EXAMINATION SUMMARY

PRAIRIE ISLAND NUCLEAR GENERATING PLANT - UNIT I

November 15, 1982 to January 10, 1983

NORTHERN STATES POWER COMPANY

MINNEAPOLIS, MINNESOTA

Commercial Service Date:
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

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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Appendix C - FSAR Augmented Examination
No examination scheduled this outage.

Appendix D - Seismic Bolting Examination

Inservice Inspection - Examination Summary Table:

Table SB - Seismic Bolting
Table II - Baseline Comparison Summary
Table III - Isometric Summary

Appendix E

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

Appendix F - Steam Generator No. 11

Eddy Current Results and Tube Sheet Maps

Appendix G - Steam Generator No. 12

Eddy Current Results and Tube Sheet Maps

Appendix H

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

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 focued 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 Technicial 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 is 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.

System	Item ID	Exam Method	Type & Number of Indications
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

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NORTHERN STATES POWER CO.
PRAIRIE ISLAND UNIT 1
INSERVICE INSPECTION–EXAMINATION SUMMARY

TABLE S1.1
PAGE 1 **OF** 5
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	LONGITUDINAL AND CIRCUMFERENTIAL SHELL WELDS IN CORE REGION					
		LONGITUDINAL WELDS	-	-	-	-NONE-	
		CIRCUMFERENTIAL WELDS	THREE	50%	-	WELD NO. 3	
B1.2	B-B	LONGITUDINAL AND CIRCUMFERENTIAL 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)					
		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	VESSEL-TO-FLANGE AND HEAD-TO-FLANGE CIRCUMFERENTIAL WELDS					
		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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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	PRIMARY NOZZLE-TO-VESSEL WELDS AND NOZZLE INSIDE RADIUSED SECTION					
		REACTOR CORE COOLANT NOZZLES					
		OUTLET NOZZLES	ONE	1	1	RCC-A-1	77-W RPV REPORT
			TWO	1	1	RCC-B-1	80A-W RPV REPORT
		INLET NOZZLES	THREE	2	-		
		SAFETY INJECTION NOZZLES	THREE	1	-		
			THREE	1	-		
B1.5	B-E	VESSEL PENETRATIONS INCLUDING CONTROL ROD DRIVE AND INSTRU-MENTATION PENETRATIONS					
		CONTROL ROD PENETRATIONS	ONE	3	*3		*EACH ITEM INSPECTED BY PLANT PERSONNEL DURING EACH REACTOR VESSLE 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	NOZZLE-TO-SAFE END WELDS					
		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					
		NOZZLE A.S.E.	ONE	1	1	NO. 1	77-W RPV REPORT & 77-155
		NOZZLE B.S.E.	THREE	1	–		
B1.8	B-G-1	CLOSURE STUDS AND NUTS	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	LIGAMENTS BETWEEN THREADED STUD HOLES	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	CLOSURE WASHERS AND BUSHINGS					
		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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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	PRESSURE RETAINING BOLTING	ONE	3	9	ALL 9 HOLES	77-W RPV REPORT
			TWO	3	9	ALL 9 HOLES	80A-W RPV REPORT
			THREE	3	–		
B1.12	B-H	INTEGRALLY WELDED VESSEL SUPPORTS	THREE	2	–		
B1.13	B-I-1	CLOSURE HEAD CLADDING	ONE	2	2	HCP-1 & HCP-2	77-W RPV REPORT
			TWO	2	2	HCP-3 & HCP-4	80A-W RPV REPORT
			THREE	2	–		
B1.14	B-I-1	VESSEL CLADDING	ONE	2	2	VCP@77°, VCP@237°	76-W INTERNALS RPT
			TWO	2	2	VCP@67°, VCP@247°	79-W INTERNALS RPT
			THREE	2			
B1.15	B-N-1	VESSEL INTERIOR					
		UPPER INTERNALS AND LOWER INTERNALS	ONE	*	*	*	76-W INTERNALS RPT
			TWO	*	*	*	79-W INTERNALS RPT
			THREE	*	–	* REPRESENTATIVE REGIONS OF THOSE INTERIOR SURFACES AND INTERNALS MADE ACCESSIBLE BY THE REMOVAL OF COMPONENTS DURING NORMAL REFUELING OPERATIONS	
B1.16	B-N-2	INTERIOR ATTACHMENTS AND CORE SUPPORT STRUCTURES	–	–	–	-NOT APPLICABLE FOR PWR VESSELS-	
B1.17	B-N-3	REMOVABLE CORE-SUPPORT STRUCTURES	THREE	*–	–	* 100% OF THE VISUALLY ACCESSIBLE ATTACHMENT WELDS AND VISUALLY ACCESSIBLE SURFACES OF THE CORE SUPPORT STRUCTURE	

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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	CONTROL ROD DRIVE HOUSINGS					
		PERIPHERAL CRD HOUSINGS	THREE	2	-		
B1.19	B-P	EXEMPTED COMPONENTS	-	*-	-	* ALL COMPONENTS EXEMPTED FROM VOLUMETRIC AND SURFACE EXAMI-NATION BY IWB-1200	* PERFORMED BY PLANT PERSONNEL IN ACCCORD-ANCE WITH IWA-5000 DURING EACH SYSTEM LEAKAGE TEST AND EACH SYSTEM HYDRO-STRATIC TEST REQUIRED BY IWB-5000

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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	LONGITUDINAL AND CIRCUM-FERENTIAL WELDS					
		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"	81-223, 232, 236
						W-4 UP 30"	81-221, 230, 240
		CIRCUMFERENTIAL WELDS					
						(CW) FROM NAMEPLATE:	
		WELD NO. 3	ONE	1.7%	33%	+6' TO -2'	76-49, 50, 51
			TWO	1.7%	4.0%	+8' TO +9'	78-110, 117, 124, 095
			THREE	1.8%	10.6%	14'7" TO 17'2"	81-219, 223, 229
		WELD NO. 4	ONE	1.7%	33%	+6' TO -2'	77-118, 137, 140
			TWO	1.7%	4.0%	+8' TO +9'	78-109, 119, 123, 094
			THREE	1.8%	20%	15'9" TO 20'7"	81-220, 231, 237
		WELD NO. 5	ONE	1.7%	33%	+6' TO -2'	76-46, 47, 48
			TWO	1.7%	7.0%	+5' TO +7'	78-108, 120, 121
			THREE	1.8%	19.3%	14'6" TO 19'2"	81-222, 228, 235
B2.2	B-D	NOZZLE TO VESSEL WELDS	–	–	–	-NONE-	
B2.3	B-E	HEATER PENETRATIONS	*	21/10 YRS	*		* EACH ITEM INSPECTED BY PLANT PERSONNEL
B2.4	B-F	NOZZLE TO SAFE END WELDS					
		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	TWO	1	1	W-29A S.E.	80A-18, 36
		THREE	1	1	W-29A	81-142, 208	
B2.5, B2.6 & 2.7	B-G-1	PRESSURE-RETAINING BOLTS AND STUDS (2 IN. DIA)	-	-	-	-NONE-	
B2.8	B-H	INTEGRALLY WELDED VESSEL SUPPORTS				(CW) FROM NAMEPLATE:	
			ONE	3.3%	5.5%	+8" TO -8" W-6	76-59, 60
			TWO	3.3%	5.5%	+8" TO +9'-4"	78-089, 113
			THREE	3.4%	7.5%	15' TO 17'6"	81-240
B2.9	B-I-2	VESSEL CLADDING	THREE	36 SQ. IN. PATCH	-		
B2.10	B-O	EXEMPTED COMPONENTS					
		INSTRUMENT NOZZLE PENETRATIONS	*	-	-	NO. 5A THRU 5H	* EACH ITEM INSPECTED BY PLANT PERSONNEL
		SAMPLE NOZZLE PENETRATION	*	-	-	NO. 6	* EACH ITEM INSPECTED BY PLANT PERSONNEL
B2.11	B-G-2	PRESSURE RETAINING BOLTING					
		MANWAY BOLTS	ONE	6	6	BOLTS 1 THRU 6	76-9
			TWO	6	6	BOLTS 6 THRU 11	78-092
			THREE	6	16	BOLTS 1 THRU 16	81-196

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TABLE S1.3.1
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MAJOR ITEM: STEAM GENERATORS

SUB ITEM	EXAM CATE-GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
B3.1	B-B	LONGITUDINAL AND CIRCUM-FERENTIAL WELDS ON THE PRIMARY SIDE					
		LONGITUDINAL WELDS	-	-	-	-NONE-	
		CIRCUMFERENTIAL WELDS				(CW) FROM NAMEPLATE:	
		STEAM GENERATOR NO. 11 WELD-A	ONE	1.9%	25%	+6' TO -3'	76-24, 20, 25
			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 WELD-A	ONE	1.9%	25%	+6' TO - 3'	76-21, 22, 23
			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	NOZZLE TO HEAD WELDS	-	-	-	-NONE-	
B3.3	B-F	NOZZLE TO SAFE END WELDS					
		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	PRESSURE RETAINING BOLTS AND STUDS (2 IN. DIA)	-	-	-	-NONE-	
B3.7	B-H	INTEGRALLY WELDED VESSEL SUPPORTS	-	-	-	-NONE-	

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TABLE S1.3.1
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MAJOR ITEM: STEAM GENERATORS

SUB ITEM	EXAM CATE-GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
B3.1	B-B	LONGITUDINAL AND CIRCUM-FERENTIAL WELDS ON THE PRIMARY SIDE					
		LONGITUDINAL WELDS	-	-	-	-NONE-	
		CIRCUMFERENTIAL WELDS				(CW) FROM NAMEPLATE:	
		STEAM GENERATOR NO. 11 WELD-A	ONE	1.9%	25%	+6' TO -3'	76-24, 20, 25
			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 WELD-A	ONE	1.9%	25%	+6' TO - 3'	76-21, 22, 23
			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	NOZZLE TO HEAD WELDS	-	-	-	-NONE-	
B3.3	B-F	NOZZLE TO SAFE END WELDS					
		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	PRESSURE RETAINING BOLTS AND STUDS (2 IN. DIA)	-	-	-	-NONE-	
B3.7	B-H	INTEGRALLY WELDED VESSEL SUPPORTS	-	-	-	-NONE-	

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MAJOR ITEM: STEAM GENERATORS

SUB ITEM	EXAM CATE-GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
B3.8	B-I-2	VESSEL CLADDING					
		STEAM GENERATOR NO. 11					
		INLET SIDE	ONE	36 SQ. IN. PATCH	36 SQ. IN.	CP-1, BELOW MANWAY	76-71
		OUTLET SIDE	ONE	36 SQ. IN. PATCH	36 SQ. IN.	CP-2, BELOW MANWAY	76-71
B3.8	B-I-2	STEAM GENERATOR NO. 12					
		INLET SIDE	ONE	36 SQ. IN. PATCH	36 SQ. IN.	CP-3, BELOW MANWAY	76-71
		OUTLET SIDE	ONE	36 SQ. IN. PATCH	36 SQ. IN.	CP-4, BELOW MANWAY	76-71
B3.9	B-P	EXEMPTED COMPONENTS	–	–	–	-NONE-	
B3.10	B-G-2	PRESSURE RETAINING BOLTING (2 IN. DIA)					
		STEAM GENERATOR NO. 11 MANWAY BOLTING					
		INLET MANWAY	ONE	6	6	BOLTS, 1 THRU 6	76-10
			TWO	6	16	BOLTS, 1 THRU 16	78-102
			THREE	6	16	BOLTS, 1 THRU 16	81-258
					16	BOLTS, 1 THRU 16	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
		STEAM GENERATOR NO. 12 MANWAY BOLTING					
		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	LONGITUDINAL AND CIRCUMFERENTIAL WELDS ON PRIMARY SIDE					
		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	NOZZLE TO HEAD WELD	-	-	-	-NONE-	
B3.4, B3.5 & B3.6	B-G-1	PRESSURE RETAINING BOLTS AND STUDS (2 IN. DIA.)	-	-	-	-NONE-	
B3.7	B-H	INTEGRALLY WELDED VESSEL SUPPORTS	-	-	-	-NONE-	
B3.8	B-I-2	VESSEL CLADDING	-	-	-	-NONE-	
B3.9	B-P	EXEMPTED COMPONENTS	-	-	-	-NONE-	
B3.10	B-G-2	PRESSURE RETAINING BOLTING (2 IN. DIA.)	-	-	-	-NONE-	

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MAJOR ITEM: EXCESS LETDOWN HEAT EXCHANGER

SUB ITEM	EXAM CATE-GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
B3.1	B-B	LONGITUDINAL AND CIRCUMFERENTIAL WELDS ON PRIMARY SIDE					
		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	NOZZLE TO VESSEL WELDS	-	-	-	-NONE-	
B3.3	B-F	NOZZLE TO SAFE END WELDS	-	-	-	-NONE-	
B3.4, B3.5 & B3.6	B-G-1	PRESSURE RETAINING BOLTS AND STUDS (2 IN. DIA.)	-	-	-	-NONE-	
B3.7	B-H	INTEGRALLY WELDED VESSEL SUPPORTS	-	-	-	-NONE-	
B3.8	B-I-2	VESSEL CLADDING	-	-	-	-NONE-	
B3.9	B-P	EXEMPTED COMPONENTS	-	-	-	-NONE-	
B3.10	B-G-2	PRESSURE RETAINING BOLTING (2 IN. DIA.)	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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SUB ITEM	EXAM 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-[illegible]	SAFE END TO PIPING AND SAFE END IN BRANCH PIPING WELDS					
		REACTOR VESSEL					
		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
		STEAM GENERATOR NO. 11					
		REACTOR CORE COOLANT SYSTEM	ONE THREE	1 1	1 –	RCC-A-5, 31-RC-2A	76-2, 29, 30
		STEAM GENERATOR NO. 12					
		REACTOR CORE COOLANT SYSTEM	TWO THREE	1 1	1 –	RCC-B-5, 31-RC-2B	80A-62, 68
		PRESSURIZER					
		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 THREE	1 1	1 1	W-1B, S.E. W-1B, S.E.	80-19, 38 81-130, 206

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B4.1	B-F	(CONT'D)					
		SPRAY LINE	TWO	1	1	W-29, S.E.	80A-18, 37
			THREE	1	1	W-29, S.E.	81-143, 209
B4.2, B.43 & B4.4	B-G-1	PRESSURE RETAINING BOLTS AND STUDS (2 IN. DIA.)	–	–	–	-NONE-	
B4.5	B-J-	CIRCUMFERENTIAL AND LONGITU-DINAL PIPE WELDS					
		LONGITUDINAL WELDS	–	–	–	-NONE-	
		CIRCUMFERENTIAL WELDS					
		(1.5 IN. NOM. DIA. SYSTEMS)					
		SEAL INJECTION A	ONE	1	1	W-1	77-113, 141
			TWO	1	1	W-6	78-086, 112
			THREE	1	1	W-5	81-256
		SEAL INJECTION B	ONE	1	1	W-6	77-38, 94
			TWO	1	1	W-2B	78-087, 111
			THREE	1	1	W-2A	81-257
		(2.0 IN. NOM. DIA. SYSTEMS)					
		SEAL INJECTION A	ONE	3	3	W-11, 14, 16A	77-114, 143, 107, 123, 107, 125
			ONE	2	BASELINE	W-48A, 48B	77-150, 151, 152
			TWO	3	3	W-34, 37, 47	79-52, 82, 79
			THREE	4	3	W-21, 22, 27	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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SUB ITEM	EXAM 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	1	1	W-24	77-89, 106
			TWO	1	1	W-5	79-81
			THREE	2	-		
		SAFETY INJECTION HIGH HEAD A	ONE	1	1	W-1A	77-50, 72
			TWO	-	-		
			THREE	1	1	W-5	81-82
		SAFETY INJECTION HIGH HEAD B	ONE	1	1	W-13	77-51, 71
			TWO	1	1	W-1	79-71
			THREE	2	2	W-4,5	81-254, 253
		DRAIN LINE ON CROSSOVER A	ONE	1	1	W-4	77-52, 145
			TWO	1	1	W-8	78-077
			THREE	1	1	W-6	81-126
		DRAIN LINE ON CROSSOVER B	ONE	-	-		
			TWO	1	1	W-2	79-53
			THREE	1	1	W-7	81-122
		REACTOR VESSEL SAFETY INJECTION LOW HEAD A	ONE	-	-		
			TWO	1	1	W-7	78-080
			THREE	3	3	W-8, 11, 9	81-79, 81, 80
		REACTOR VESSEL SAFETY INJECTION LOW HEAD B	ONE	1	1	W-7	77-17, 44
			TWO	1	1	W-2	78-079
			THREE	1	1	W-7A	81-78
		(3.0 IN. NOM. DIA. SYSTEMS)					
		SPRAY TO PRESSURIZER BRANCH A	ONE	3	3	W-3, 11, 25A	77-54, 115, 88, 108, 97, 99
			TWO	4	4	W-6, 10, 19, 24	79-94, 92, 91, 89
			THREE	4	2	W-20, 21	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	ONE	1	1	W-2	77-104, 117
		BRANCH B	TWO	1	1	W-14	79-90
			THREE	2	2	W-1, 3	82-040, 043
		RESIDUAL TEMPERATURE	ONE	1	1	W-4	77-53, 116
		DETECTOR RETURN A	TWO	1	1	W-8	78-075
			THREE	1	1	W-6	82-041
		RESIDUAL TEMPERATURE	ONE	1	1	W-3	77-83, 95
		DETECTOR RETURN B	TWO	1	1	W-7	78-076
			THREE	1	-		
		PRESSURIZER RELIEF	ONE	1	1	W-9	77-87, 100
		LINE A	TWO	1	1	W-6	79-77
			THREE	1	1	W-11	81-207
		PRESSURIZER RELIEF	ONE	1	1	W-14	77-87, 101
		LINE B	TWO	-	-		
			THREE	-	-		
		(4.0 IN. NOM. DIA. SYSTEMS)					
		SAFETY INJECTION	ONE	1	-	NONE OF THESE WELDS ARE ACCESSIBLE;	
		LOW HEAD A	TWO	-	-	THEY ARE LOCATED WITHIN THE CONCRETE	
			THREE	-	-	SHIELD WALL	
		SAFETY INJECTION	ONE	-	-	NONE OF THESE WELDS ARE ACCESSIBLE;	
		LOW HEAD B	TWO	-	-	THEY ARE LOCATED WITHIN THE CONCRETE	
			THREE	1	-	SHIELD WALL	

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B4.5	B-J	(CONT'D)					
		(6.0 IN. NOM. DIA. SYSTEMS)					
		SAFETY INJECTION	ONE	2	2	W-9, 10	76-67, 68
		LOW HEAD A	TWO	–	–		
			THREE	–	–		
		SAFETY INJECTION	ONE	–	–		
		LOW HEAD B	TWO	1	1	W-5	79-74
			THREE	–	–		
		SAFETY INJECTION	ONE	–	–		
		HIGH HEAD A	TWO	1	1	W-1	79-73
			THREE	–	–		
		SAFETY INJECTION	ONE	–	–		
		HIGH HEAD B	TWO	–	–		
			THREE	1	–		
		PRESSURIZER SAFETY	ONE	2	2	W-2, 3	76-56, 57
		LINE A	TWO	–	–		
			THREE	4	4	W-7, 8, 10	81-190, 164, 165
						W-6	82-100
		PRESSURIZER SAFETY	ONE	–	–		
		LINE B	TWO	1	1	W-4	79-76
			THREE	3	3	W-7, 8, 10	81-156, 158, 157
		PLO-CAP A	ONE	–	–		
			TWO	–	–		
			THREE	1	–		
		PLO-CAP B	ONE	–	–		
			TWO	1	1	W-1	79-72
			THREE	–	–		

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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)					
		(8.0 IN. NOM. DIA. SYSTEMS)					
		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
		(10.0 IN. NOM. DIA SYSTEMS)					
		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	–		
		(12.0 IN. NOM. DIA. SYSTEMS)					
		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	–		

SUB ITEM	EXAM 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)					
		(27.5 IN. NOM. DIA. SYSTEMS)					
		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	-	-		
		(29.0 IN. NOM. DIA. SYSTEMS)					
		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	-	-		
		(31.0 IN. NOM. DIA. SYSTEMS)					
		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
						RCC-B-7	80A-69
			THREE	-	-		

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B4.6	B-J	BRANCH PIPE CONNECTION WELDS EXCEEDING SIX INCH DIAMETER					
		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	BRANCH PIPE CONNECTION WELDS SIX INCH DIAMETER AND SMALLER					
		(6.0 IN. NOM. DIA. SYSTEMS)					
		PLO-CAP A	–	–	–		
		PLO-CAP B	–	–	–		
		SAFETY INJECTION HIGH HEAD A	THREE	1	–		
		SAFETY INJECTION HIGH HEAD B	–	–	–		
		(3.0 IN. NOM. DIA. SYSTEMS)					
		SPRAY TO PRESSURIZER BRANCH A	–	–	–		

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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	-	-	-		
		(2.0 IN. NOM. DIA. SYSTEMS)					
		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	-	-	-		

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NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 1

INSERVICE INSPECTION–EXAMINATION SUMMARY

TABLE S1.4

MAJOR ITEM: PIPING PRESSURE BOUNDARY

SUB ITEM	EXAM CATE-GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
B4.8	B-J	SOCKET WELDS					
		(2.0 IN. NOM. DIA. SYSTEMS)					
		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
						SW-13	80A-109
			THREE	1	–		
		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
						SW-10	80A-65
			THREE	1	–		

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TABLE S1.4
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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	INTEGRALLY WELDED SUPPORTS					
		RESIDUAL HEAT REMOVAL RETURN B	ONE	2	2	F, G	76-18, 19

SUB ITEM	EXAM CATE-GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
B4.9	B-K-1	(CONT'D)					
		ACCUMULATOR DISCHARGE A	ONE	1	1	D1	76-69
		RESIDUAL HEAT REMOVAL TAKE OFF A	ONE	1	1	F	77-67, 91
			TWO	1	1	I	78-052, 082, 088
			THREE	1	1	K1	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	1	1	E	79-93, 70, 70R, 33
						E	80A-56, 92, 59, 59R
			THREE	-	-	E	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

SUB ITEM	EXAM CATE-GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
B4.9	B-K-1	(CONT'D)					
		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	-	-	-		
B4.10	B-K-2	SUPPORT COMPONENTS					
		REACTOR CORE COOLANT A	ONE	1	1	A1	77-12
			THREE	1	-		
		ACCUMULATOR DISCHARGE A	-	-	-	-NONE-	
		RESIDUAL HEAT REMOVAL TAKE OFF A	ONE	4	3	L, O, Q1	76-82
						K2-MISSED IN PERIOD	ONE
			TWO	6	7	A, D, E, K2	78-31,32,33,64,64R
						E1, F1, G1	79-5, 4, 6
			THREE	6	6	G2, H, I1, J1, M, N	81-243, 116, 100, 99 107, 107R, 109
		SAFETY INJECTION HIGH HEAD A	-	-	-		
		SPRAY TO PRESSURIZER BRANCH A	ONE	4	4	H, J, L, M	76-83
			TWO	4	4	D, A & B/C1	78-71, 51/79-7
			THREE	4	3	F, G, K	82-003, 013, 018
		RESISTANCE TEMPERATURE DETECTOR RETURN A	ONE	-	-		
			TWO	1	1	A	78-067
			THREE	1	-		

SUB ITEM	EXAM 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 DETECTOR TAKE OFF COLD LEG A	ONE	1	1	A	72-111
			TWO	2	2	D/B	78-65/79-27, 27R
						B	80A-108
			THREE	2	-		
		RESIETANCE TEMPERATURE DETECTOR TAKE OFF HOT LEG A	ONE	1	1	A	77-110
			TWO	1	1	B	79-28
			THREE	2	-		
		SAFETY INJECTION HIGH HEAD A	ONE	-	-		
			TWO	-	-		
			THREE	1	1	A	81-244, 244R
		DRAIN LINE ON CROSSOVER A	ONE	1	1	B	76-84
			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 RETURN	ONE	1	-	A - MISSED IN PERIOD ONE	
			TWO	2	2	A, B	78-054, 061
			THREE	2	2	C, D	82-002, 126

SUB ITEM	EXAM 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	ONE	3	4	K. L. M. N	76-88
		TAKE OFF B	TWO	4	4	A, D, E, F	78-53, 30/79-26, 25
			THREE	4	4	G, I, J, N	81-217, 226, 241, 225
		SAFETY INJECTION	-	-	-	-NONE-	
		HIGH HEAD B					
		SPRAY TO PRESSURIZER	ONE	3	4	A, B, C, D	76-89
		BRANCH B	TWO	3	3	A1, D, D1	79-31, 32, 34
			THREE	4	4	F & H, I, J, K	81-133, 141, 140, 138
		RESISTANCE TEMPERATURE	ONE	-	-		
		DETECTOR RETURN N	TWO	1	1	A	78-066
			THREE	1	-		
		RESISTANCE TEMPERATURE	ONE	1	1	B	77-63
		DETECTOR TAKE OFF	TWO	2	2	C/B/D	78-56/79-35/79-SP2-90
		COLD LEG B	THREE	2	-		
		RESISTANCE TEMPERATURE	ONE	1	1	A	77-61
		DETECTOR TAKE OFF	TWO	2	2	B/C	78-55/79-16
		HOT LEG B	THREE	2	2	D, E	82-001, 014
		SAFETY INJECTION	ONE	1	1	A	76-90
		HIGH HEAD B	TWO	-	-		
			THREE	1	-		
		DRAIN LINE ON	ONE	-	-		
		CROSSOVER B	TWO	1	1	A	79-SP2-66
			THREE	-	-		

SUB ITEM	EXAM 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
						A, B, F, G	79-12, 13, 40, 41
			THREE	7	7	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,
						D	95R, 96/80A-57
			THREE	4	–		
		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

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SUB ITEM	EXAM CATE-GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
B4.10	B-K-2	(CONT'D)					
		REACTOR VESSEL	ONE	-	-		
		SAFETY INJECTION (2")	TWO	1	1	A1	78-029
		LOW HEAD A & B	THREE	1	1	A	81-108
		PLO-CAP A	-	-	-	-NONE-	
		PLO-CAP B	-	-	-	-NONE-	
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	-	*	-	* ALL COMPONENTS EXAMINED IN ACCORDANCE WITH IWA-500 AND IWB-5000 DURING SYSTEM LEAKAGE TEST	PERFORMED BY PLANT PERSONNEL
		EXEMPT:					
		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					

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TABLE S1.4

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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.
B4.12	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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TABLE S1.5

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MAJOR ITEM: REACTOR CORE COOLANT PUMPS

SUB ITEM	EXAM CATEGORY	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	PRESSURE-RETAINING BOLTS AND STUDS, IN PLACE (2 IN. DIA)					
		FLANGE BOLTS					
		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	-		
		SEAL HOUSE BOLTING					
		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
		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	-		
B5.2 & B5.3	B-G-1	PRESURE RETAINING BOLTS AND STUDS (2 IN. DIA.)					
		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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MAJOR ITEM: REACTOR CORE COOLANT PUMPS

SUB ITEM	EXAM CATEGORY	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	INTEGRALLY WELDED SUPPORTS					
		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	SUPPORT COMPONENTS*					* 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	PUMP CASING WELDS					
		PUMP A	–	–	–	-NONE-	
		PUMP B	THREE	1	–		
B5.7	B-L-2	PUMP CASINGS					
		PUMP A & B	THREE	1	–		
B5.8	B-P	EXEMPTED COMPONENTS	–	–	–	-NONE-	
B5.9	B-G-2	PRESSURE RETAINING BOLTING (2 IN. DIA.)					

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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.
–	–*	PUMP FLYWHEELS					
		PUMP A & B	ONE	2	*2	PUMP-11, FLYWHEEL PUMP-12, FLYWHEEL	76-78, 79, 80 76-72, 73, 74
			TWO	2	2	PUMP-11, FLYWHEEL PUMP-12, FLYWHEEL	79-95, 96, 97 79-86, 87, 88
			THREE	2	–		* 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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MAJOR ITEM: VALVE PRESSURE BOUNDARY

SUB ITEM	EXAM CATE-GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
B6.1, B6.2 & B6.3	B-G-1	PRESSURE RETAINING BOLTS AND STUDS (2 IN. DIA.)	–	–	–	-NONE-	
B6.4	B-K-1	INTEGRALLY WELDED SUPPORTS	–	–	–	-NONE-	
B6.5	B-K-2	SUPPORT COMPONENTS	–	*	–	*INCLUDED IN TABLE 1.4 UNDER B4.10	
B6.6	B-M-1	VALVE BODY WELDS	–	–	–	-NONE-	
B6.7	B-M-2	VALVE BODIES (4 IN. NOM. PIPE SIZE)					
		REACTOR VESSEL SAFETY INJECTION LOW HEAD 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	EXEMPTED COMPONENTS	*	100%	*	ITEMS INSPECTED DURING EACH LEAKAGE TEST	INSPECTED BY PLANT PERSONNEL

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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	PRESSURE RETAINING BOLTING*					* NOTE SUPPLEMENT B6.9 AT 3.4.3
		ACCCUMULATOR DISCHARGE LOOP A - 12"	ONE	16	16	CHECK, 8841A	76-11
			THREE	16	-		
		ACCUMULATOR DISCHARGE LOOP B - 12"	TWO	16	16	CHECK, 8841B	78-016
			THREE	16	16	CHECK, 8840B	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	16	16	M.O. GATE, 8701A	76-8
			THREE	16	16	M.O. GATE, 8702A	81-91
		RESIDUAL HEAT REMOVAL TAKE OFF B - 8"	ONE	16	16	M.O. GATE, 8701B	76-6
			ONE	16	16	M.O. GATE, 8702B	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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NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT

INSERVICE INSPECTION–EXAMINATION SUMMARY

TABLE S1.6

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MAJOR ITEM: VALVE PRESSURE BOUNDARY

SUB ITEM	EXAM CATEGORY	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	2	2	2T58, RC-1-7	79-SP2-87
			THREE	2	2	2T58, RC-1-6	82-011
		RESISTANCE TEMPERATURE DETECTOR TAKE OFF COLD LEG B - 2"	TWO	2	2	2T58, RC-1-17	79-15
			THREE	2	2	2T58, RC-1-15	82-024
		RESISTANCE TEMPERATURE DETECTOR TAKE OFF HOT LEG A - 2"	TWO	2	2	2T58, RC-1-9	79-SP2-86
			TWO	2	2	2T58, RC-1-10	79-SP2-86
			THREE	2	-		
		RESISTANCE TEMPERATURE DETECTOR TAKE OFF HOT LEG B - 2"	TWO	2	2	2T58, RC-1-13	79-17
			TWO	2	2	2T58, RC-1-12	79-SP2-88
			THREE	2	2	2T58, RC-1-14	82-007
		PRESSURIZER RELIEF LINES - 3"	TWO	12	12	M.O. GATE, 8000A	78-014
			TWO	12	12	M.O. GATE, 8000B	78-014
			THREE	6	6	A.O. GATE, PCV-431C	81-135
			THREE	6	6	A.O. GATE, PCV-430	81-134
		REACTOR VESSEL SAFETY INJECTION LOW HEAD A - 6"	ONE	12	12	CHECK, 8843A	76-5
			TWO	12	12	CHECK, 8844A	79-8
		LOW HEAD B - 6"	TWO	12	12	CHECK, 8843B	79-2
			THREE	12	-		
		AUXILIARY SPRAY CVCS - 2"	THREE	6	6	A.O. GLOBE, 8143	82-009

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PRAIRIE ISLAND UNIT 1
INSERVICE INSPECTION–EXAMINATION SUMMARY

TABLE S1.6
PAGE 4 OF 4
MAJOR ITEM: VALVE PRESSURE BOUNDARY

SUB ITEM	EXAM CATE-GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
B6.9	B-G-2	(CONT'D)					
		DRAIN LINE ON CROSSOVER A - 2"	TWO	2	2	2T58, RC-1-1	78-015
			THREE	2	2	2T58, RC-1-2	81-92
		DEAIN LINE ON CROSSOVER B - 2"	TWO	2	2	2T58, RC-1-3	79-9
			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

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NORTHERN STATES POWER COMPANY
PRAIRIE ISLAND UNIT I
BASELINE COMPARISON SUMMARY

TABLE II

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

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PRAIRIE ISLAND UNIT I
BASELINE COMPARISON SUMMARY

TABLE II

COMPONENT/SYSTEM	NSP ISO	NDE METHOD	W BASELINE IDENT.	REPORT NO.	BASELINE INDICATIONS	ISI INDICATIONS	EXAMINATION LIMITATIONS
B4.1 SAFE-END TO PIPE AND SAFE-END IN BRANCH PIPING WELDS							(B.E.=Best Effort)
SAFETY INJECTION	5 0	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 CIRCUMFERENTIAL AND LONGITUDINAL PIPE WELDS							(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

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BASELINE COMPARISON SUMMARY

TABLE II
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COMPONENT/SYSTEM	NSP ISO	NDE METHOD	W BASELINE IDENT.	REPORT NO.	BASELINE INDICATIONS	ISI INDICATIONS	EXAMINATION LIMITATIONS
RESIDUAL 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 DISCHARGE 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 BRANCH PIPE CONNECTION WELDS SIX INCH DIAMETER AND SMALLER							
SPRAY TO PRESSURIZER B	5D	P T	W-R	82-064	None	None	None
B4.8 SOCKET WELDS							
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 INTEGRALLY WELDED SUPPORTS							
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

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BASELINE COMPARISON SUMMARY

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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

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PRAIRIE ISLAND UNIT 1
BASELINE COMPARISON SUMMARY

TABLE II
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COMPONENT/SYSTEM	NSP ISO	NDE METHOD	W BASELINE IDENT.	REPORT NO.	BASELINE INDICATIONS	ISI INDICATIONS	EXAMINATION LIMITATIONS
AUXILIARY SPRAY TO PRESSURIZER	32	VT	F	82-011		None	None
		VT	G	82-012		None	None
B4.12 PRESSURE-RETAINING BOLTING							
PRESSURIZER SAFETY B	29	VT	8010B	82-021	None	Damaged Threads 1 Bolt	None
		UT		82-045	N/A	Belt 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 PRESSURE-RETAINING BOLTS AND STUDS, IN PLACE							
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

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COMPONENT/SYSTEM	NSP ISO	NDE METHOD	W BASELINE IDENT.	REPORT NO.	EASELINE INDICATIONS	ISI INDICATIONS	EXAMINATION LIMITATIONS
WHEN REMOVED							
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 PRESSURE-RETAINING BOLTING							
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
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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

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PRAIRIE ISLAND UNIT 1
ISOMETRIC SUMMARY

NSP ISO NUMBER	REVISION	COMPONENT OR SYSTEM	LOOP	LINE SIZE	LINE NUMBER	UT - CAL. STANDARD
ISI-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

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

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PRAIRIE ISLAND UNIT 1

INSERVICE INSPECTION–EXAMINATION SUMMARY

TABLE S2.1.1

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MAJOR ITEM: PRESSURE VESSELS-STEAM GENERATOR

SUB ITEM	EXAM CATE-GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
C1.1	C-A	CIRCUMFERENTIAL BUTT WELDS*				* (3 AREAS, EQUALLY DIVIDED)	
		STEAM GENERATOR NO. 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
		WELD F	THREE	-	552"	W-F 100%	82-035, 036, 046, 048
C1.2	C-B	NOZZLE TO VESSEL WELDS					
		STEAM GENERATOR NO. 11					
		MAIN STREAM NOZZLE	-	-	-		
		FEEDWATER NOZZLE	-	-	-		
		STEAM GENERATOR NO. 12					
		MAIN STEAM NOZZLE	THREE	1	1	N-4	82-118, 120, 122
		FEEDWATER NOZZLE	-	-	-		
C1.3	C-C	INTEGRALLY WELDED SUPPORTS	-	-	-	-NONE-	
C1.4	C-D	PRESSURE RETAINING-BOLTING					
		STEAM GENERATOR NO. 11					
		MANWAY A BOLTING	TWO	20	20	(V&UT)	80A-47
		MANWAY B BOLTING	-	-	-		

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INSERVICE INSPECTION–EXAMINATION SUMMARY

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MAJOR ITEM: PRESSURE VESSELS-STEAM GENERATOR

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

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INSERVICE INSPECTION–EXAMINATION SUMMARY

TABLE S2.1.2

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MAJOR ITEM: PRESSURE VESSELS-ACCUMULATORS

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

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TABLE S2.1.3
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MAJOR ITEM: PRESSURE VESSELS–RHR HEAT EXCHANGERS

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

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MAJOR ITEM: PRESSURE VESSELS-BORIC ACID TANKS

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

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MAJOR ITEM: PIPING-CIRCUMFERENTIAL BUTT WELDS

SUB ITEM	EXAM CATEGORY	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	80A-1, 14
						MS-148	80A-3, 13
						MS-149	80A-2, 12
						MS-150	80A-10, 34
		MAIN STEAM B					
		6-MS-2	ONE	1	1	MS-136	77-22, 8
			TWO	4	4	MS-135	80A-4, 16
						MS-136	80A-7, 17
						MS-137	80A-5, 15
						MS-138	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	THREE	1	2	FW-144, 164	81-144, 179, 90, 75, 87
		16-FW-13	TWO	18	19	FW-147	79-129
						FW-161, 162	79-SP-5,4
						FW-164	79-SP-2,1/80A-26, 78 81-104
						FW-164	82-029, 068, 087
						FW-148	79-SP2-1, 72, 74, 105
						FW-149	79-SP2-1, 9, 60, 106
						FW-150	79-SP2-1, 10, 61, 107
						FW-227	79-SP2-6, 6R, 11, 65, 108/80A-31, 50
						FW-151	79-SP2-1, 12, 64, 109
						FW-152	79-SP2-1, 13, 69, 110
						FW-153	79-SP2-5, 14, 68, 111
						FW-154	79-SP2-1, 15, 67, 112
						FW-155	79-SP2-1, 16, 71, 113
						FW-156	79-SP2-1, 17R, 85, 114
						FW-157	79-SP2-1, 4, 55, 115
						FW-158	79-SP2-1, 21, 59, 116
						FW-159	79-SP2-7, 7R, 22, 52, 117, 97, 98, 99
						FW-159 Baseline	79-SP2-103, 104, 118
						FW-159	80A-24, 48
						FW-160	79-SP2-8R, 23, 63, 119, 80A-25, 49
						FW-213	79-SP2-2, 53, 24, 120
						FW-161	79-SP2, 2, 25, 57, 121
						FW-162	79-SP2-2, 26, 56, 122
						FW-164	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/ 80A-23, 51, 52, 105
			THREE	–	–	FW-216	81-89, 76, 76R, 88
						FW-216	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
						W-74, 75, 80, 81	80-106, 107, 105, 103
			THREE	2	1	W-68	81-67
		8-VC-71A	-	-	-		
		8-VC-71B	-	-	-		
		RESUIDUAL 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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SUB ITEM	EXAM 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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TABLE S2.2.2

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	LONGITUDINAL WELD JOINTS IN FITTINGS					
		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	-	-	-		
		RHR PUMP SECTION					
		12-RH-6A	THREE	1	1	W 20 TO 74	81-41
		12-RH-6B	-	-	-		
		10-SI-9A	-	-	-		
		10-SI-9B	-	-	-		
		RHR PUMP DISCHARGE					
		8-RH-7A	-	-	-		
		8-RH-7B	-	-	-		
		8-RH-9A	-	-	-		
		8-RH-9B	-	-	-		

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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)					
		RWST DISCHARGE					
		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	–	–	–		
		SI PUMP SUCTION					
		12-SI-11	–	–	–		
		8-SI-18	THREE	2	2	W-67-68, 86W-238	81-204, 31
		6-SI-13A	–	–	–		
		6-SI-13B	–	–	–		
		BORIC ACID SUPPLY					
		8-SI-18	THREE	1	1	W-5I-52-53	82-091
		8-VC-71A	–	–	–		
		8-VC-71B	–	–	–		

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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	LONGITUDINAL WELD JOINTS IN FITTINGS					
		RHR SUCTION					
		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	-	-	-		
		RHR DISCHARGE					
		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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MAJOR ITEM: PIPING–BRANCH PIPE TO PIPE WELD JOINTS

SUB ITEM	EXAM CATE-GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
C2.3	C-G	BRANCH PIPE TO PIPE WELD JOINTS - (SWEEPOLETS)					
		MAIN STEAM A					
		RELIEF HDR, 30-MS-1	-	-	-		
		MAIN STEAM B					
		RELIEF HDR, 30-MS-2	ONE	1	1	MS-185A	77-23, 31
		FEEDWATER A					
		16-FW-13	TWO	1	1	FW-163	79-SP-3
		(8", 3-AF-11)				FW-163 (REPEAT)	79-SP2-18, 27, 54, 131
		FEEDWATER B					
		16-FW-16	TWO	1	1	FW-215	79-SP-6
		(8", 3-AF-12)				FW-215 (REPEAT)	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	PRESSURE RETAINING BOLTING					
		RHR PUMP SUCTION					
		12-RH-5A	THREE	2	2	BOLTS @ W-78	81-28
						BOLTS @ W-81	81-29
		12-RH-5B	–	–	–		
		RHR PUMP DISCHARGE					
		10-RH-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	INTEGRALLY WELDED SUPPORTS					
		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	ONE	1	1	H	77-81
		31-MS-2	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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PRAIRIE ISLAND UNIT 1

INSERVICE INSPECTION–EXAMINATION SUMMARY

TABLE S2.2.5

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MAJOR ITEM: PIPING–INTEGRALLY WELDED SUPPORTS

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

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

SUB ITEM	EXAM CATE-GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
C2.5	C-E-1	(CONT'D)					
		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	1	1	A	80-108, 109
			THREE	3	2	B, J	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, 35R1
		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
						A (REPEAT)	80A-55, 60
		6-SI-25B	ONE	1	1	F	77-21
			THREE	2	1	I	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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PRAIRIE ISLAND UNIT 1
INSERVICE INSPECTION–EXAMINATION SUMMARY

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

SUB ITEM	EXAM CATE GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
C2.6	C-E-2	SUPPORT COMPONENTS					
		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	1	1	G	80-86
			THREE	1	–		
		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	–		

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

SUB ITEM	EXAM CATE-GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
C2.6	C-E-2	(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
						E (REPEAT)	80A-61
		6-SI-25B	ONE	1	1	H	77-59
			THREE	1	–		
		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

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MAJOR ITEM: PUMPS

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

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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	THREE	3	3	A, B, C	81-11, 20
		#12	THREE	3	3	D, E, F	81-12,21,13,22,14,23
C3.4	C-E-2	SUPPORT COMPONENTS					
		RHR PUMPS					
		#11	THREE	1	1	S	81-5
		#12	THREE	1	1	H	81-6

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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.
C4.1	C-F & C-G	VALVE BODY WELDS	–	–	–	-NONE-		
C4.2	C-D	PRESSURE RETAINING BOLTING						
		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	12	12	(V AND UT)	RS-21-4	80A-46
			THREE	24	24	(V AND UT)	RS-21-1	81-127
							RS-19-1	81-274
		MAIN STEAM B						
		(OFF) RELIEF HDR						
		30-MS-2	ONE	12	12	(V)	RS-21-6	77-47
				2(MIN)	2	(UT)	RS-21-6	77-47
			TWO	12	12	(V AND UT)	RS-21-8	80A-45
			THREE	24	24	(V AND UT)	RS-21-10	81-129
							RS-19-2	81-273
		RESIDUAL HEAT REMOVAL						
		DISCHARGE						
		6-SI-10B	–	–	–			
		6-RH-12	ONE	12	12	(V) 8803B		77-85
				2(MIN)	2	(UT) 8803B		77-78

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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	16	(V) 8800 B	80A-53
				2(MIN)	16	(UT) 8800 B	80A-53
C4.3	C-E-1	INTEGRALLY WELDED SUPPORTS	–	–	–	-NONE-	
C4.4	C-E-2	SUPPORT COMPONENTS	–	–	–	-NONE-	

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NORTHERN STATES POWER COMPANY
PRAIRIE ISLAND UNIT I
BASELINE COMPARISON SUMMARY

TABLE II
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COMPONENT/SYSTEM	NSP ISO	NDE METHOD	W BASELINE IDENT.	REPORT NO.	BASELINE INDICATIONS	ISI INDICATIONS	EXAMINATION LIMITATIONS
C1.1 CIRCUMFERENTIAL BUTT WELDS							
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° ½"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' 10½" 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 2½" from weld. 28½" from supp. pad.	Scan Areas 0°to 30°, 125° to 160°, 225° to 250°
C1.2 NOZZLE TO VESSEL WELD		UT	N-4	82-122	N/A	None	None

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BASELINE COMPARISON SUMMARY

TABLE II
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COMPONENT/SYSTEM	NSP ISO	NDE METHOD	W BASELINE IDENT.	REPORT NO.	BASELINE INDICATIONS	ISI INDICATIONS	EXAMINATION LIMITATIONS
S/G #12 CON'T		UT		82-118	/A	S-1,32% I.D. GEO 175°	None
		UT		82-120	N/A	None	No S-2 Nozzle Partial Insp. due to Insul. Support Ring
C1.4 PRESSURE-RETAINING BOLTING							
ACCUMULATOR NO. 12 MANWAY BOLTS	86	UT	Manway Bolts	82-115	N/A	None	None
C2.1 CIRCUMFERENTIAL BUTT WELDS							
REFUELING WATER STORAGE TANK DISCHARGE	80	UT	W-202	82-092	N/A	None	None
		UT	W-202L.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-27L.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

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BASELINE COMPARISON SUMMARY

TABLE II
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COMPONENT/SYSTEM	NSP ISO	NDE METHOD	W BASELINE IDENT.	REPORT NO.	BASELINE INDICATIONS	ISI INDICATIONS	EXAMINATION LIMITATIONS
BORIC ACID SUPPLY	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 INTEGRALLY WELDED SUPPORTS							
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	None
REFUELING WATER STORAGE TANK DISCHARGE	81	PT	E	82-073	N/A	None	None
		VT		82-080	N/A	None	None
RESIDUAL HEAT REMOVAL 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

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TABLE II

COMPONENT/SYSTEM	NSP ISO	NDE METHOD	W BASELINE IDENT.	REPORT NO.	BASELINE INDICATIONS	ISI INDICATIONS	EXAMINATION LIMITATIONS
RESIDUAL HEAT REMOVAL 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 SUPPORT COMPONENTS							
RESIDUAL HEAT REMOVAL 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 Replacd.	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

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ISOMETRIC SUMMARY - CLASS 2

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"	3-AF-12	NO

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PRAIRIE ISLAND UNIT 1
ISOMETRIC SUMMARY

TABLE III

NSP ISO NUMBER	REVISION	COMPONENT OR SYSTEM	LOOP	LINE SIZE	LINE NUMBER	UT - CAL. STANDARD
IST-76	0	RHR PUMP B SUCTION (WELDS)	B	8"	8-RH-4B	29
IST-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
IST-78	0	RHR PUMP B DISCHARGE (WELDS)	B	8"	8-RH-7B	29
IST-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 ____
IST-80	0	REFUELING WATER STORAGE (WELDS)	-	14"	14-SI-1	NO ____
		TANK DISCHARGE		12"	12-SI-3A	33
IST-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 ____
IST-82	0	SAFETY INJECTION PUMPS SUCTION (WELDS)	-	12"	12-SI-11	NO ____
IST-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
IST-84	0	BORIC ACID SUPPLY	-	8"	8-SI-18	NO ____
IST-85	0	ACCUMULATOR DISCHARGE (WELDS)	A	12"	12-SI-28A	11
IST-86	0	ACCUMULATOR DISCHARGE (HANGERS)	A	12"	12-SI-29A	11
			B	12"	12-SI-28B	11
			B	12"	12-SI-29B	11

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PRAIRIE ISLAND UNIT 1
ISOMETRIC SUMMARY

TABLE III

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

Form 9-0034,Rev.0 (M&SP 5.2)

NORTHERN STATES POWER CO.
PRAIRIE ISLAND UNIT 1
INSERVICE INSPECTION–EXAMINATION SUMMARY

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

SUB ITEM	EXAM CATE-GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
N/A	N/A	STEAM GENERATORS					
		STEAM GENERATOR NO. 11					
		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, 122
		(RING CONNECTING BOLTS)	THREE	40	40	PAD 1 THRU 4	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	8	COLUMN 1-4 TOP & BOTTOM	80A-86, 95
			THREE	4	-		

SUB ITEM	EXAM 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 HELI-COIL SCREWS	ONE	6	6	3)COL.3&3)COL.4	77-128
			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	-		
		STEAM GENERATOR NO. 12					
		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

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NORTHERN STATES POWER CO.
PRAIRIE ISLAND UNIT 1
INSERVICE INSPECTION–EXAMINATION SUMMARY

TABLE SB
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MAJOR ITEM: SEISMIC BOLTING

SUB ITEM	EXAM CATEGORY	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 TOP & BOTTOM	80A-86
			THREE	4	–		
		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 1 THRU 4	80A-113
			THREE	16	16	BASE OF COLUMN 3 AND 4	82-108

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NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 1

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 CONNECTING BOLTS	ONE	4	4	TOP OF COLUMN 1	77-3
			TWO	4	4	TOP OF COLUMN 2	79-110
			TWO	16	16	TOP OF COLUMN 1 THRU 4	80A-124
			THREE	8	-		
		SUPPORT PAD HELI-COIL SCREWS	ONE	6	6	3)COL.3&3)COL.4	77-128
			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 SUPPORT ANCHOR BOLTS TO WALL	ONE	14	14	PAD 1	77-3
			TWO	14	14	PAD 2	79-112
			TWO	44	44	PAD 1 THRU 5	80A-106
			THREE	16	-		
		LATERAL SUPPORT WALL BOLTS	ONE	4	4	FIXTURE 1	77-3
			TWO	4	4	FIXTURE 2	79-11
			TWO	12	12	FIXTURE 1 THRU 3	80A-106
			THREE	4	-		
		CONNECTING BOLTS IN LATERAL BEAM	ONE	5	16	16 EXAMINED	77-3
			TWO	5	16	16 EXAMINED	79-60
			TWO	16	16	ALL BOLTS	80A-123
			THREE	6	-	(REPEAT INSPECTION)	
		PRESSURIZER					
		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

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NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 1

INSERVICE INSPECTION–EXAMINATION SUMMARY

TABLE SB

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MAJOR ITEM: SEISMIC BOLTING

SUB ITEM	EXAM CATEGORY	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	ACCUMULATOR A					
		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	-		
		ACCUMULATOR B					
		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
		REACTOR COOLANT PUMPS					
		PUMP NO. 11					
		COLUMN PINS	ONE	2	2	COLUMN 1	77-131
			TWO	2	2	COLUMN 2	79-134, 135
			TWO	6	6	COLUMN 1 THRU 3 TOP & BOTTOM	80A-84, 93
			THREE	2	-		
		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 THRU 3	80A-112
			THREE	8	24	BASE OF COLUMN 1 THRU 3	82-106

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NORTHERN STATES POWER CO.
PRAIRIE ISLAND UNIT 1
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	(PUMP NO. 11 CONT'D)					
		COLUMN CONNECTING BOLTS	ONE	6	6	TOP OF COLUMN 1	77-146
			TWO	6	6	TOP OF COLUMN 2	79-109
			TWO	18	18	TOP OF COLUMN 1 THRU 3	80A-101
			THREE	6	-		
		TIE BACK BOLTS	ONE	1	1	COLUMN 1	77-148
			TWO	1	1	COLUMN 2	79-115
			TWO	3	3	COLUMN 1 THRU 3	80A-97, 102
			THREE	1	1	COLUMN 1	81-249, 249R
		TIE BACK PINS	ONE	1	1	PAD 1	77-131
			TWO	1	1	PAD 2	79-131
			TWO	3	3	PAD 1 THRU 3	80A-94
			THREE	1	-		
		THROUGH ANCHOR BOLTS	ONE	2	2	PAD 1, SOUTH 2	77-1
			TWO	2	2	PAD 1, CENTER 2	79-105
			TWO	6	6	PAD 1, ALL BOLTS	80A-103, 103R
			THREE	6	6	PAD 1, ALL BOLTS	81-250
		LATERAL SUPPORT & WALL BOLTS	ONE	4	4	PAD 2	77-1
			TWO	3	3	PAD 3, TOP ROW	79-105
			TWO	10	10	PAD 2 & 3, ALL BOLTS	80A-100
			THREE	3	-		
		PUMP NO. 12					
		COLUMN PINS	ONE	2	2	COLUMN 1	77-131
			TWO	2	2	COLUMN 2	79-138, 139
			TWO	6	6	COLUMN 1 THRU 3 TOP & BOTTOM	80A-84, 93
			THREE	2	-		

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NORTHERN STATES POWER CO.
PRAIRIE ISLAND UNIT 1
INSERVICE INSPECTION–EXAMINATION SUMMARY

TABLE SB
PAGE 7 **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. 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	-		

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NORTHERN STATES POWER COMPANY
PRAIRIE ISLAND UNIT 1
BASELINE COMPARISON SUMMARY

TABLE II

COMPONENT/SYSTEM	NSP ISO	NDE METHOD	W BASELINE IDENT.	REPORT NO.	BASELINE INDICATIONS	ISI INDICATIONS	EXAMINATION LIMITATIONS
SEISMIC BOLTING							
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	82-03[illegible]	None	None	None
		VT	SGH-4	82-032	None	Hanger bottomed out	None
				82-032R	N/A	None-Scaffold Removed	None

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NORTHERN STATES POWER COMPANY
PRAIRIE ISLAND UNIT I
BASELINE COMPARISON SUMMARY

TABLE II
PAGE 2 OF 2

COMPONENT/SYSTEM	NSP ISO	NDE METHOD	W BASELINE IDENT.	REPORT NO.	BASELINE INDICATIONS	ISI INDICATIONS	EXAMINATION LIMITATIONS
S/G #12 CON'T							
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

TABLE III

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

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
TABLE I

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

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, Issaguah, WA 98027

NORTHERN STATES POWER COMPANY
Prairie Island Unit I
ULTRASONIC CALIBRATION BLOCKS

APPENDIX E
TABLE III

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

TABLE II

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 I
PROCEDURE LISTING

APPENDIX E
TABLE III

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	
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	Cover examination volumne of S/S piping Welds less than .200 inch wall thickness.
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
PAGE 1 OF 4

MATERIAL OR EQUIPMENT	TYPE OR SERIAL NUMBER	CALIBRATION DATE OR BATCH NUMBER	REMARKS
ULTRASONIC:			
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	
RECORDS:			
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	
TEMP GAUGES:			
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	
MAGNETIC PARTICLE			
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	
ROMPAS BLOCKS:			
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
IIW BLOCK:			
C/S	S/N LMT-1	Cert. 6-19-78	By Earl M. Jorgensen
MATERIALS:			
Magnaflux Spot Check	Penetrant	Batch #82F059	SKL-HF/S
	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

MATERIAL OR EQUIPMENT	TYPE OR SERIAL NUMBER	CALIBRATION DATE OR BATCH NUMBER	REMARKS
MATERIALS CON'T.			
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 Magnaglo	#20A Fluorescent	Batch # 81B017	Prepared Bath Water Mix
Ultrasonic Couplant	LMT-GEL	Batch # 1110812	
ULTRASONIC TRANSDUCERS:		SIZE	FREQUENCY
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

MATERIAL OR EQUIPMENT	TYPE OR SERIAL NUMBER	CALIBRATION DATE OR BATCH NUMBER	REMARKS
WESTINGHOUSE EQUIPMENT:			
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

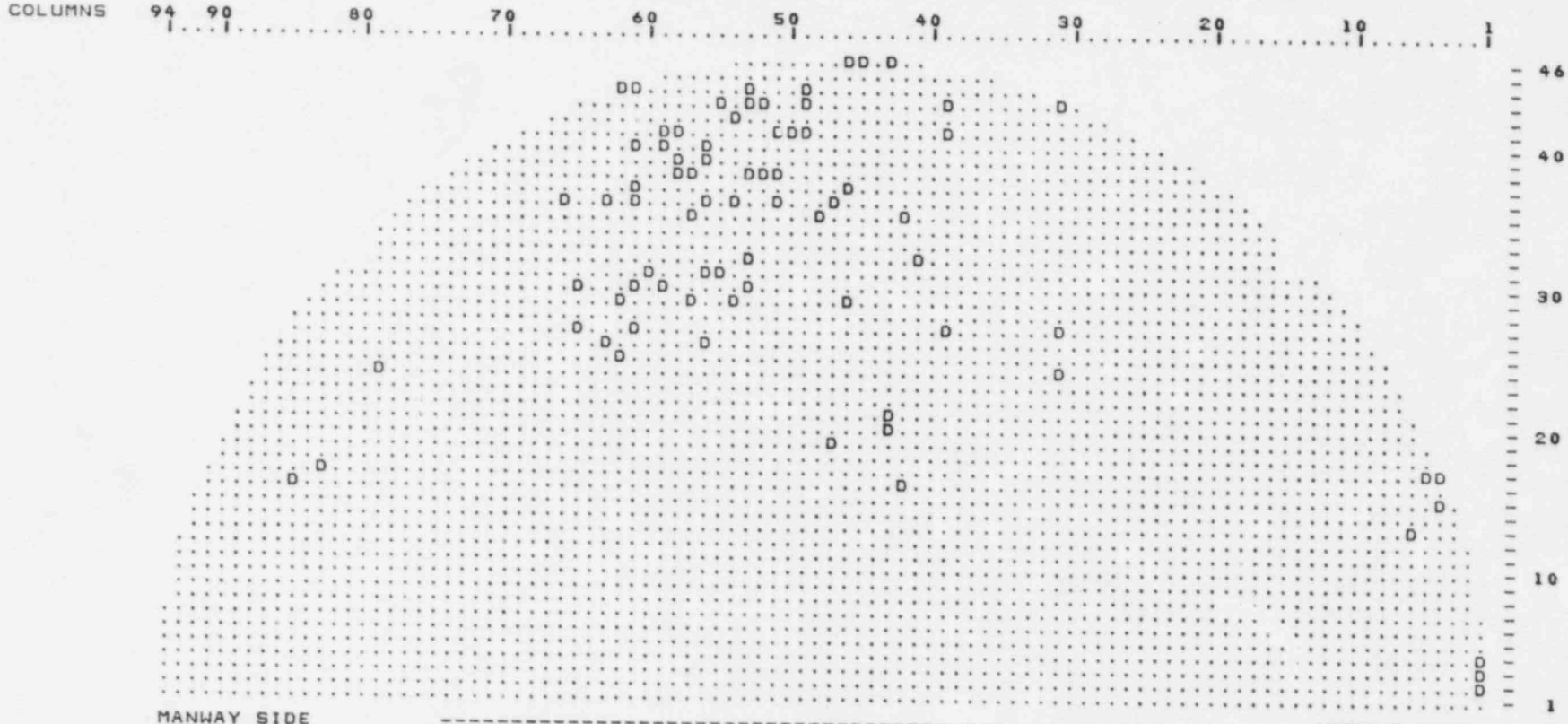
NORTHERN STATES POWER COMPANY
PRAIRIE ISLAND UNIT I
EQUIPMENT AND MATERIALS

MATERIAL OR EQUIPMENT	TYPE OR SERIAL NUMBER	CALIBRATION DATE OR BATCH NUMBER	REMARKS
WESTINGHOUSE EQUIPMENT:			
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
EVALUATION ROOM EQUIPMENT:			
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

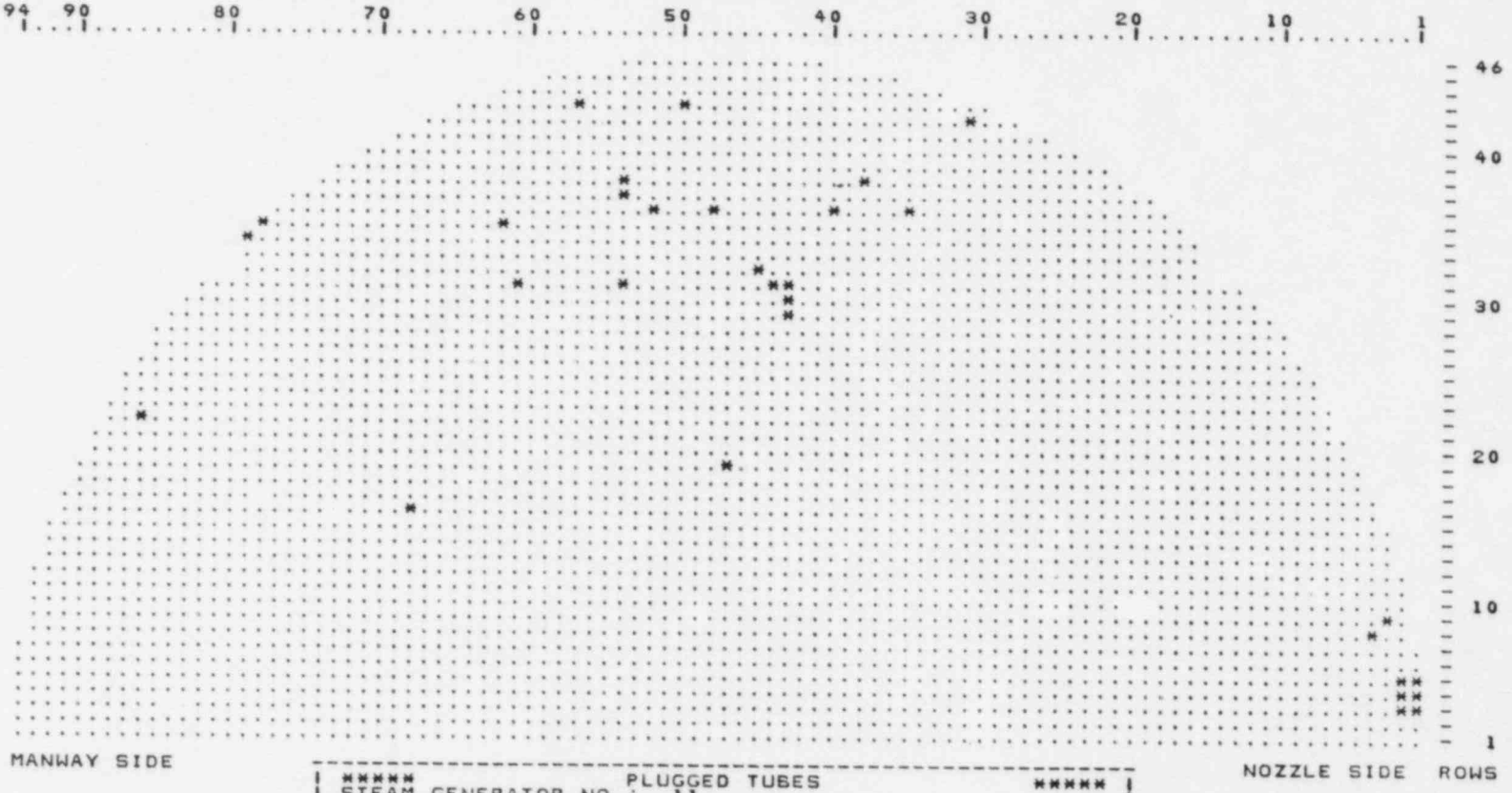
APPENDIX F

STEAM GENERATOR NO. 11
EDDY CURRENT EXAMINATION
TUBE SHEET MAPS

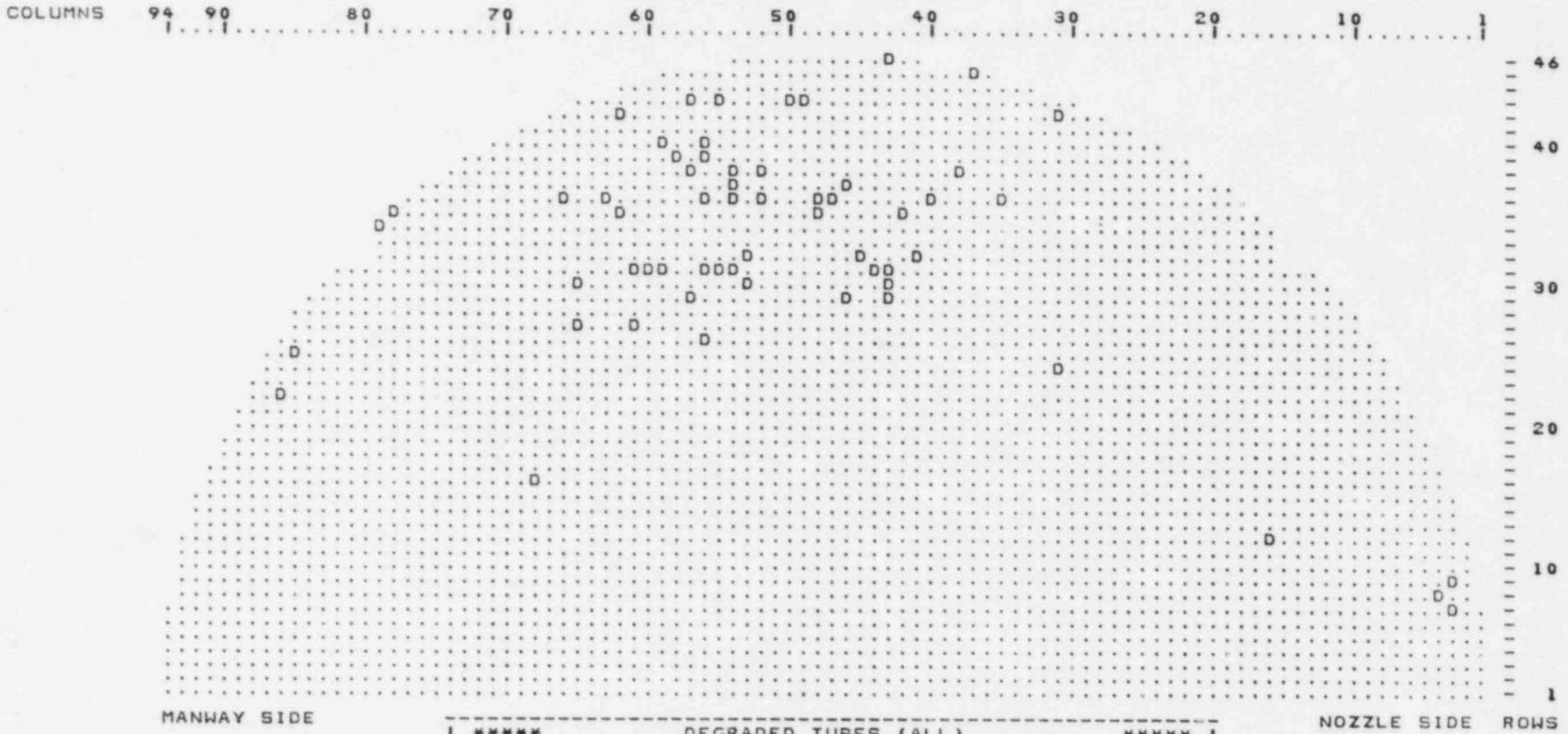
NORTHERN STATES POWER COMPANY
POWER PRODUCTION MATERIALS AND SPECIAL PROCESSES SECTION
PRAIRIE ISLAND NUCLEAR GENERATING PLANT STEAM GENERATOR TUBE MAP - WESTINGHOUSE SERIES 51



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

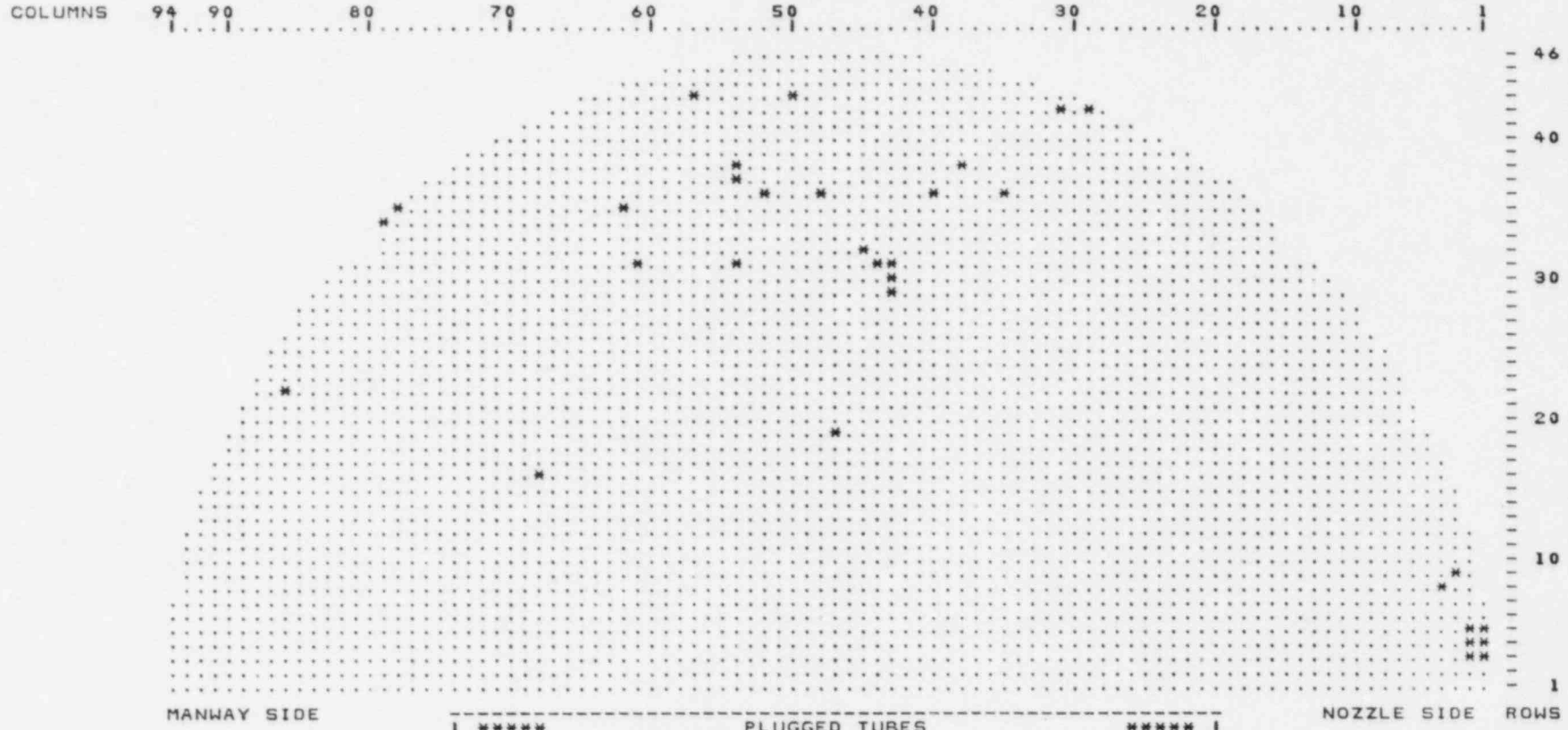


NORTHERN STATES POWER COMPANY
POWER PRODUCTION MATERIALS AND SPECIAL PROCESSES SECTION
PRAIRIE ISLAND NUCLEAR GENERATING PLANT STEAM GENERATOR TUBE MAP - WESTINGHOUSE SERIES 51



****** DEGRADED TUBES (ALL) ******	
STEAM GENERATOR NO.	11
INLET OR OUTLET	OUTLET (COLD LEG)
INSPECTIONS MAPPED	00-0 THROUGH 99-9
REGION MAPPED TO	TUBE SHEET AROUND U-BEND

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



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PRAIRIE ISLAND NUCLEAR GENERATING PLANT
LIST OF PLUGGED STEAM GENERATOR TUBES

GEN NO.	SIDE	ROW	COL	YEAR	REMARKS/COMMENTS
11	INLET	3	1	79- 1979	
			2	79- 1979	PREV.
		4	1	79- 1979	
			2	79- 1979	PREV.
		5	1	79- 1979	PREV.
			2	79- 1979	PREV.
		8	4	81- 1981	S/O
		9	3	81- 1981	S/O
		16	68	81- 1981	S/O
		19	47	81- 1981	S/O
		22	86	81- 1981	S/O
		29	43	81- 1981	S/O
		30	43	81- 1981	S/O
		31	43	81- 1981	S/O
			44	81- 1981	S/O
			54	81- 1981	S/O
			61	81- 1981	S/O
		32	45	81- 1981	S/O
		34	79	81- 1981	S/O
		35	62	81- 1981	S/O
			78	81- 1981	S/O
		36	35	81- 1981	S/O
			40	81- 1981	S/O
			48	81- 1981	S/O
			52	81- 1981	S/O
		37	54	81- 1981	S/O
		38	38	81- 1981	S/O
			54	81- 1981	S/O
		42	31	81- 1981	S/O
		43	50	81- 1981	S/O
			57	81- 1981	S/O
	OUTLET	3	1	79- 1979	S/I
			2	79- 1979	S/I
		4	1	79- 1979	S/I
			2	79- 1979	S/I
		5	1	79- 1979	S/I
			2	79- 1979	S/I
		8	4	81- 1981	
		9	3	81- 1981	
		16	68	81- 1981	
		19	47	81- 1981	
		22	86	81- 1981	
		29	43	81- 1981	
		30	43	81- 1981	
		31	43	81- 1981	
			44	81- 1981	
			54	81- 1981	
			61	81- 1981	
		32	45	81- 1981	
		34	79	81- 1981	
		35	62	81- 1981	
			78	81- 1981	
		36	35	81- 1981	
			40	81- 1981	
			48	81- 1981	
			52	81- 1981	
		37	54	81- 1981	
		38	38	81- 1981	
			54	81- 1981	
		42	29	82- BULGE	
			31	81- 1981	
		43	50	81- 1981	
			57	81- 1981	

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

GEN NO.	SIDE	ROW	COL	YEAR	FROM	TO	DEFECT OR OBS	%	REMARKS/COMMENTS
11	INLET	2	1	79-	5 " ABOVE TUBE SH		THINNING	<20	
		3	1	79-	5 " ABOVE TUBE SH		THINNING	65	
		4	1	79-	35 " ABOVE TUBE SH		THINNING	100	
		12	16	82-	1ST SUP		THINNING	31	
		13	6	82-	1ST SUP		THINNING	<20	
		15	4	82-	1 " ABOVE TUBE SH		THINNING	<20	
		16	42	82-	4TH SUP		THINNING	24	
			85	82-	2ND SUP		THINNING	21	
		17	4	82-	1 " ABOVE TUBE SH		THINNING	21	
			5	82-	1 " ABOVE TUBE SH	2 " ABOVE	THINNING	<20	
			83	82-	1ST SUP		THINNING	<20	
		20	43	82-	4 " ABOVE 7TH SUP		THINNING		
		21	43	82-	4 " ABOVE 7TH SUP		THINNING		
		24	31	82-	3RD SUP		THINNING		BELOW
			79	82-	1ST SUP		THINNING	<20	
		25	62	82-	1ST SUP		THINNING	<20	
		26	56	82-	3RD AVB		THINNING	<20	
				82-	4TH AVB		THINNING	<20	
			63	82-	1ST SUP		THINNING	<20	
		27	91	82-	1ST SUP		THINNING	<20	
			39	82-	2ND AVB		THINNING	<20	
			61	82-	1ST AVB		THINNING	<20	
				82-	2ND AVB		THINNING	<20	
			65	82-	3RD AVB		THINNING	<20	
		29	46	82-	1ST AVB		THINNING	<20	
				82-	2ND AVB		THINNING	<20	
				82-	3RD AVB		THINNING	<20	
			54	82-	2ND AVB		THINNING	<20	
			57	82-	2ND AVB		THINNING	33	
				82-	3RD AVB		THINNING	<20	
		30	53	82-	2ND AVB	3RD AVB	THINNING	<20	
			59	82-	1ST AVB		THINNING	<20	
				82-	2ND AVB		THINNING	<20	
				82-	3RD AVB		THINNING	<20	
				82-	4TH AVB		THINNING	28	
			61	82-	1ST SUP		THINNING	<20	
			65	82-	2ND AVB		THINNING	<20	
		31	55	82-	3RD AVB		THINNING	<20	
			56	82-	2ND AVB		THINNING	<20	
				82-	3RD AVB		THINNING	<20	
				82-	4TH AVB		THINNING	<20	
			60	82-	1ST AVB		THINNING	<20	
				82-	3RD AVB		THINNING	<20	
		32	41	82-	1ST SUP		THINNING	<20	
			53	82-	2ND AVB		THINNING	26	
				82-	3RD AVB		THINNING	32	
		35	42	82-	2ND AVB		THINNING	<20	
			48	82-	4TH AVB		THINNING	24	
			57	82-	3RD AVB		THINNING	<20	
		36	47	82-	4TH AVB		THINNING	<20	
			51	82-	3RD AVB		THINNING	<20	
			54	82-	2ND AVB		THINNING	<20	
			56	82-	2ND AVB		THINNING	<20	
				82-	4TH AVB		THINNING	<20	
			61	82-	2ND AVB		THINNING	<20	
				82-	3RD AVB		THINNING	<20	
			63	82-	3RD AVB		THINNING	<20	
			66	82-	3RD AVB		THINNING	<20	
		37	46	82-	3RD AVB		THINNING	<20	
		38	51	82-	3RD AVB		THINNING	<20	
			52	82-	3RD AVB		THINNING	<20	
			53	82-	3RD AVB		THINNING	<20	
			57	82-	1ST AVB		THINNING	36	
				82-	2ND AVB		THINNING	33	
			58	82-	3RD AVB		THINNING	<20	
		39	56	82-	1ST AVB		THINNING	<20	
				82-	2ND AVB		THINNING	24	
				82-	4TH AVB		THINNING	<20	
			58	82-	2ND AVB		THINNING	<20	
				82-	3RD AVB		THINNING	<20	
				82-	4TH AVB		THINNING	<20	

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	40	56	82	4TH AVB		THINNING	<20	
			59	82	2ND AVB		THINNING	<20	
				82	3RD AVB		THINNING	<20	
				82	4TH AVB		THINNING	25	
			61	82	2ND AVB		THINNING	<20	
		40	61	82	3RD AVB		THINNING	<20	
		41	39	82	3RD AVB	4TH AVB	THINNING	<20	
			49	82	3RD AVB		THINNING	<20	
				82	4TH AVB		THINNING	<20	
			50	82	2ND AVB		THINNING	<20	
			51	82	3RD AVB		THINNING	<20	
			58	82	3RD AVB		THINNING	<20	
			59	82	3RD AVB		THINNING	<20	
		42	54	82	3RD AVB		THINNING	<20	
				82	4TH AVB		THINNING	<20	
		43	31	82	6TH SUP		THINNING		
			39	82	3RD AVB		THINNING	<20	
			49	82	3RD AVB		THINNING	<20	
			52	82	3RD AVB		THINNING	<20	
			53	82	3RD AVB		THINNING	<20	
			55	82	3RD AVB		THINNING	<20	
				82	4TH AVB		THINNING	<20	
		44	49	82	4TH AVB		THINNING	<20	
			53	82	1ST SUP		THINNING	<20	
			61	82	1ST SUP		THINNING	<20	
		46	43	82	3RD AVB		THINNING	<20	
			45	82	2ND AVB		THINNING	<20	
			46	82	3RD AVB		THINNING	<20	
	OUTLET	7	3	82	5 " ABOVE TUBE SH		THINNING	20	
				81	5 " ABOVE TUBE SH		THINNING	23	
		8	4	81	5 " ABOVE TUBE SH		THINNING	40	
		9	3	81	5 " ABOVE TUBE SH		THINNING	40	
				81	12 " ABOVE TUBE SH		THINNING	37	
		16	68	81	25 " ABOVE 7TH SUP		THINNING	89	
		19	47	81	25 " ABOVE 7TH SUP		THINNING	90	
		22	86	80	1ST SUP		THINNING	35	
				81	1ST SUP		THINNING	41	
		24	31	82	3RD SUP		THINNING		
		25	85	80	1ST AVB		THINNING	32	
		26	56	81	4TH AVB		THINNING	<20	
		27	61	81	1ST AVB		THINNING	<20	
			65	81	3RD AVB		THINNING	<20	
		29	43	81	2ND AVB		THINNING	38	
			46	81	1ST AVB		THINNING	<20	
				81	2ND AVB		THINNING	<20	
			57	81	3RD AVB		THINNING	<20	
				81	2ND AVB		THINNING	<20	
			62	82	3RD AVB		THINNING	<20	
		30	43	81	1ST SUP		THINNING	<20	
				81	1ST AVB		THINNING	<20	
				81	2ND AVB		THINNING	54	
				81	3RD AVB		THINNING	<20	
			53	81	4TH AVB		THINNING	<20	
				81	1ST AVB		THINNING	<20	
				81	2ND AVB		THINNING	<20	
			65	81	3RD AVB		THINNING	<20	
		31	43	81	2ND AVB		THINNING	<20	
				81	2ND AVB		THINNING	<20	
				81	3RD AVB		THINNING	51	
			44	81	4TH AVB		THINNING	53	
				81	1ST AVB		THINNING	<20	
				81	2ND AVB		THINNING	36	
			54	81	3RD AVB		THINNING	32	
				81	2ND AVB		THINNING	52	
				81	3RD AVB		THINNING	36	
				81	4TH AVB		THINNING	<20	

JAN 17, 1983

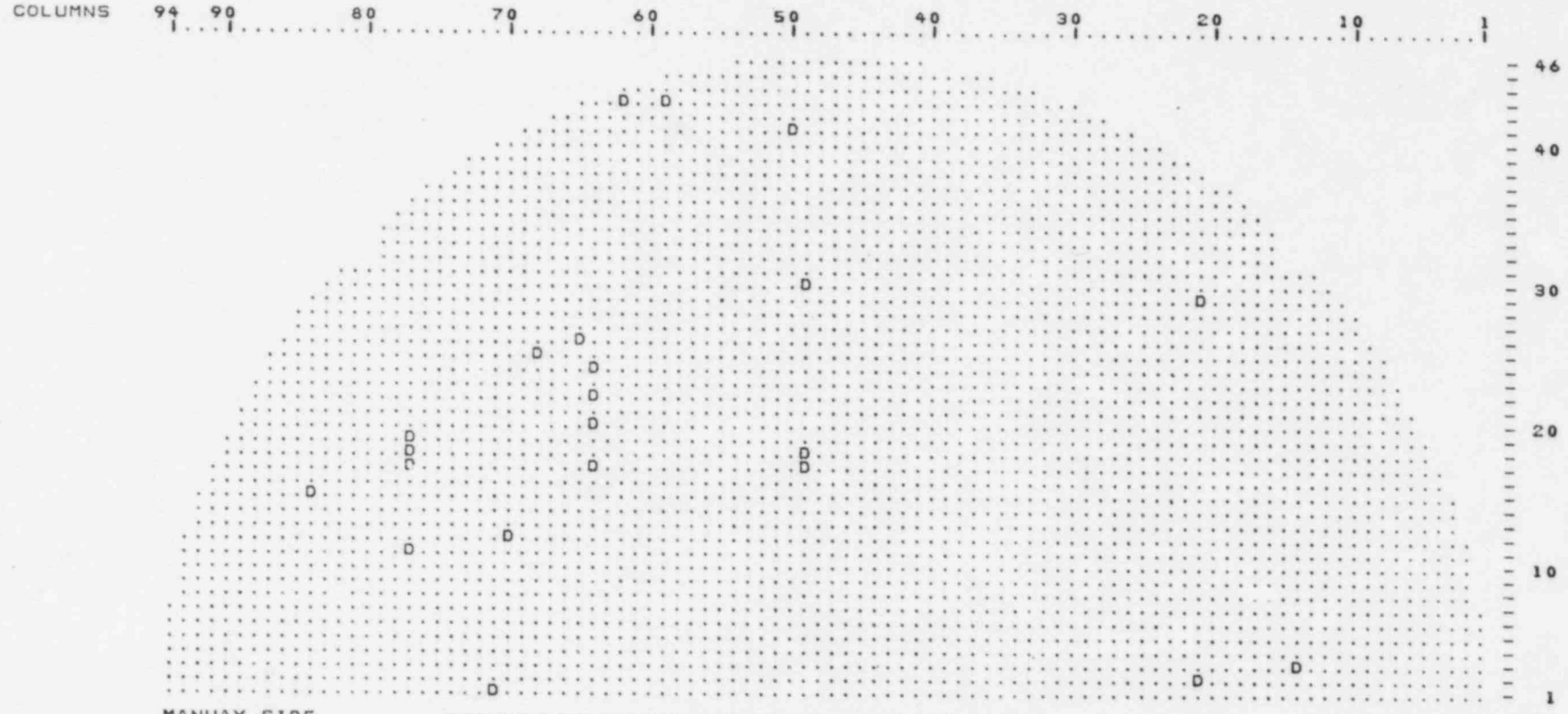
PRAIRIE ISLAND NUCLEAR GENERATING PLANT
LIST OF IMPERFECT, DEGRADED AND DEFECTIVE TUBES

GEN NO.	SIDE	ROW	COL	YEAR	FROM	TO	DEFECT OR OBS	%	REMARKS/COMMENTS
11	OUTLET		55	81	3RD AVB		THINNING	<20	
			56	81	2ND AVB		THINNING	<20	
				81	3RD AVB		THINNING	<20	
				81	4TH AVB		THINNING	<20	
			59	81	4TH AVB		THINNING	<20	
			60	81	3RD AVB		THINNING	<20	
			61	81	2ND AVB		THINNING	<20	
				81	3RD AVB		THINNING	<20	
		32	41	81	1ST SUP		THINNING	37	
			45	81	2ND AVB		THINNING	<20	
				81	3RD AVB		THINNING	<20	
			53	81	2ND AVB		THINNING	41	
				81	3RD AVB		THINNING	<20	
		34	79	81	2ND SUP		THINNING	45	
		35	42	81	1ST AVB		THINNING	<20	
				81	2ND AVB		THINNING	<20	
		35	48	81	4TH AVB		THINNING	<20	
			62	81	4TH AVB		THINNING	49	
			78	80	2ND SUP		THINNING	34	
				81	2ND SUP		THINNING	45	
		36	35	81	1ST AVB		THINNING	<20	
				81	2ND AVB		THINNING	56	
				81	3RD AVB		THINNING	56	
				81	4TH AVB		THINNING	<20	
			40	81	1ST AVB		THINNING	57	
				81	2ND AVB		THINNING	57	
				81	3RD AVB		THINNING	54	
				81	4TH AVB		THINNING	52	
			47	81	4TH AVB		THINNING	<20	
			48	81	2ND AVB		THINNING	42	
				81	3RD AVB		THINNING	42	
			52	81	2ND AVB		THINNING	49	
			54	81	2ND AVB		THINNING	<20	
			56	81	2ND AVB		THINNING	<20	
				81	4TH AVB		THINNING	<20	
			63	81	3RD AVB		THINNING	<20	
			66	81	3RD AVB		THINNING	<20	
		37	46	81	3RD AVB		THINNING	<20	
			54	81	3RD AVB		THINNING	58	
		38	38	81	4TH AVB		THINNING	38	
			52	81	3RD AVB		THINNING	<20	
			54	81	2ND AVB		THINNING	<20	
				81	3RD AVB		THINNING	63	
				81	4TH AVB		THINNING	60	
			57	81	1ST AVB		THINNING	<20	
				81	2ND AVB		THINNING	<20	
		39	56	81	1ST AVB		THINNING	<20	
				81	2ND AVB		THINNING	<20	
			58	81	2ND AVB		THINNING	<20	
				81	3RD AVB		THINNING	<20	
				81	4TH AVB		THINNING	<20	
		40	56	81	4TH AVB		THINNING	<20	
			59	81	3RD AVB		THINNING	<20	
				81	4TH AVB		THINNING	<20	
		42	31	81	3RD SUP		THINNING	<20	
			62	82	1ST SUP		THINNING	38	
				81	1ST SUP		THINNING	<20	
		43	49	81	3RD AVB		THINNING	<20	
				81	4TH AVB		THINNING	<20	
			50	81	3RD AVB		THINNING	<20	
				81	4TH AVB		THINNING	59	
			55	81	4TH AVB		THINNING	<20	
			57	81	2ND AVB		THINNING	<20	
				81	3RD AVB		THINNING	56	
		44	62	82	1ST SUP		THINNING	<20	
		45	37	82	3RD SUP		THINNING	<20	
		46	43	81	2ND AVB		THINNING	<20	

APPENDIX G

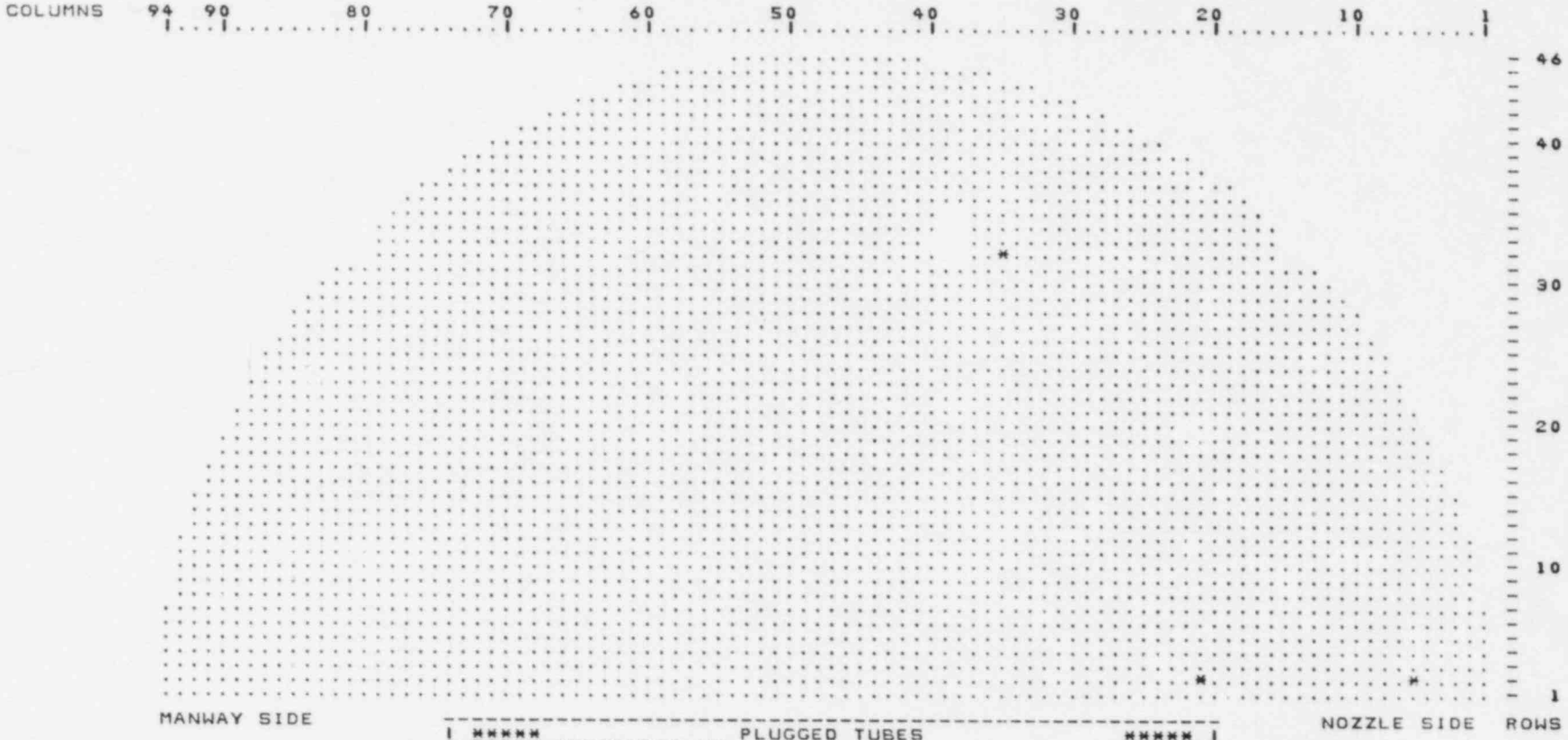
STEAM GENERATOR NO. 12
EDDY CURRENT EXAMINATIONS
TUBE SHEET MAPS

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



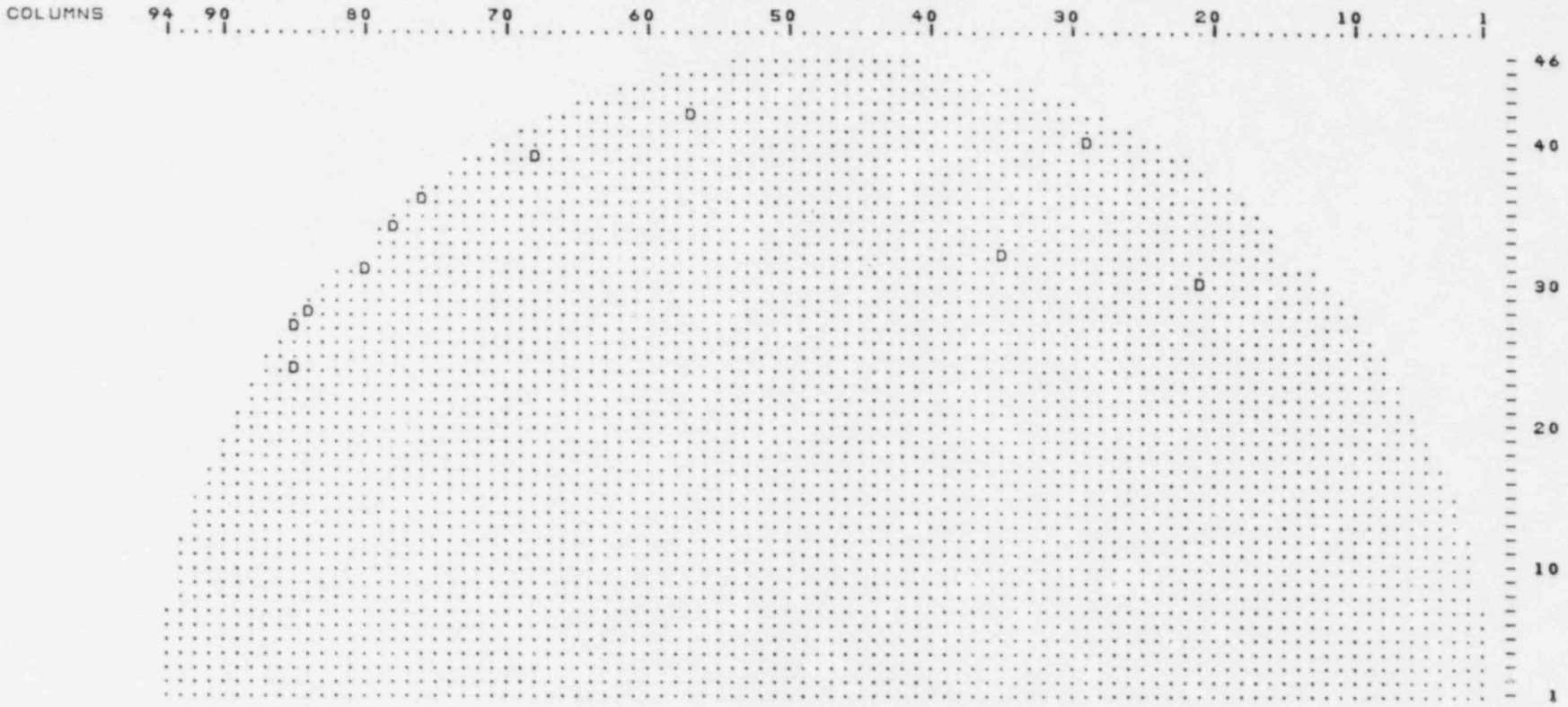
****** DEGRADED TUBES (ALL) ******	
STEAM GENERATOR NO. :	12
INLET OR OUTLET :	INLET (HOT LEG)
INSPECTIONS MAPPED :	00-0 THROUGH 99-9
REGION MAPPED :	TUBE SHEET
TO	AROUND U-BEND

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



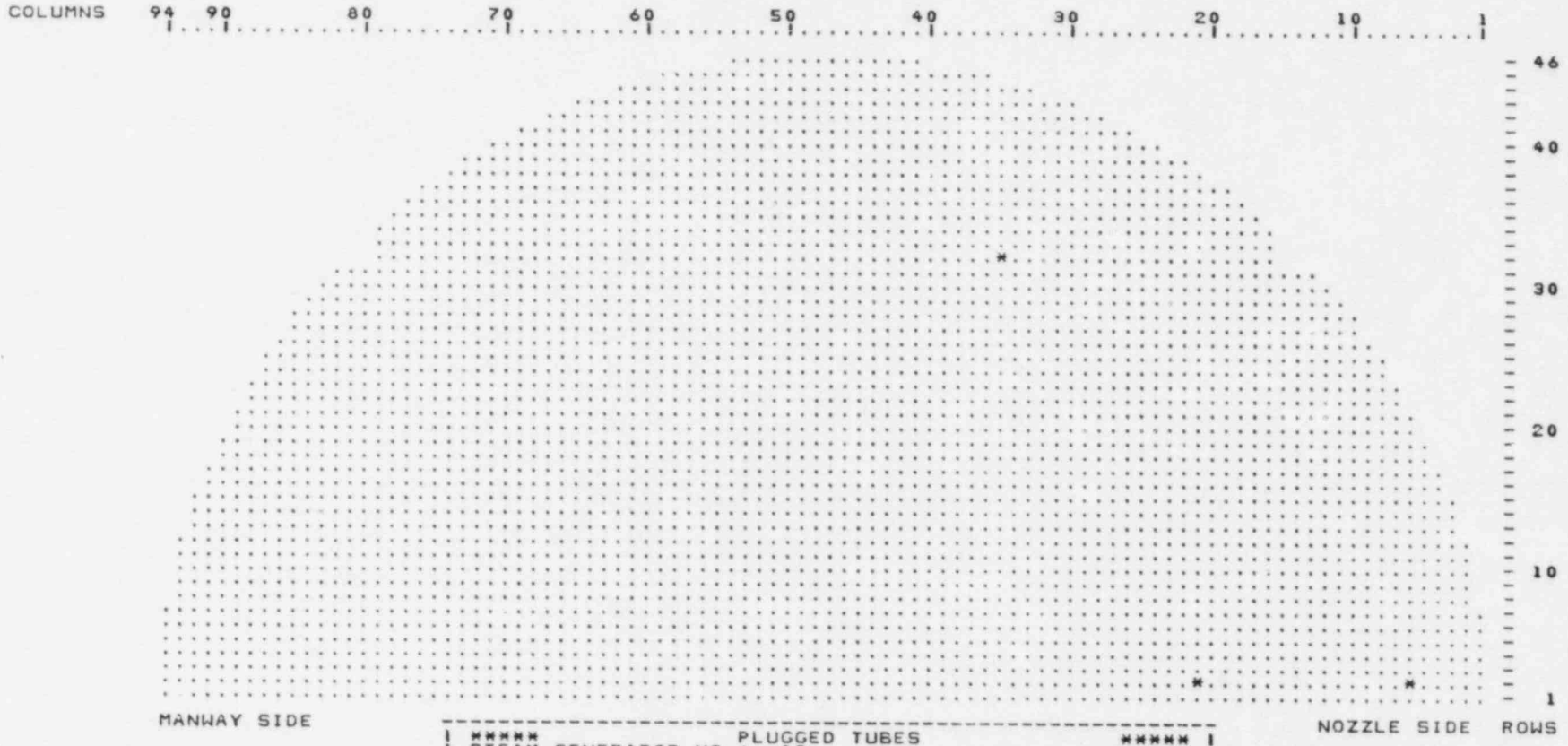
****** PLUGGED TUBES ******	
STEAM GENERATOR NO.	12
INLET OR OUTLET	INLET (HOT LEG)
INSPECTIONS MAPPED	00-0 THROUGH 99-9
REGION MAPPED	TUBE SHEET
TO	AROUND U-BEND

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



****** DEGRADED TUBES (ALL) ******	
STEAM GENERATOR NO. :	12
INLET OR OUTLET :	OUTLET (COLD LEG)
INSPECTIONS MAPPED :	00-0 THROUGH 99-9
REGION MAPPED :	TUBE SHEET
TO	AROUND U-BEND

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



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
			21	80- 1980	
		32	35	81- 1981	
	OUTLET	2	6	81- 1981	
			21	80- 1980	S/I
		32	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	1ST SUP		2ND SUP	THINNING		POSSIBLE BEND
		2	21	80	11" BELOW	TUBE SH		THINNING	100	
		3	14	82	16" ABOVE	6TH SUP		THINNING	<20	
		11	77	82		1ST SUP		THINNING	<20	
		12	70	82		2ND SUP		THINNING	<20	
		15	84	78		2ND SUP		THINNING	<20	
				82		2ND SUP		THINNING	<20	
				81		2ND SUP		THINNING	<20	
		17	49	82		2ND AVB		THINNING	<20	
				82		3RD AVB		THINNING	<20	
			64	82		1ST AVB		THINNING	<20	
				82		2ND AVB		THINNING	<20	
			77	82		1ST SUP		THINNING	<20	
		18	49	82		2ND AVB		THINNING	<20	
				82		3RD AVB		THINNING	<20	
			77	82		1ST SUP		THINNING	<20	
		19	77	82		2ND SUP		THINNING	<20	
		20	64	82		1ST SUP		THINNING	<20	
				82		2ND SUP		THINNING	<20	
		22	64	82		1ST SUP		THINNING	<20	
				82		2ND SUP		THINNING	<20	
		24	64	82		1ST SUP		THINNING	<20	
		25	68	82		1ST AVB		THINNING	<20	
		26	65	82		1ST SUP		THINNING	<20	
		29	21	82	2 " ABOVE	TUBE SH		THINNING	<20	
		30	49	82	2" BELOW	1ST AVB		THINNING	<20	
	OUTLET	41	50	82		3RD AVB		THINNING	<20	
		24	85	82		1ST SUP		THINNING	<20	
		27	85	82		1ST SUP		THINNING	37%	
		28	84	82		1ST SUP		THINNING	<20	
				80		1ST SUP		THINNING	<20	
				81		1ST SUP		THINNING	<20	
		30	21	75	20 " ABOVE	1ST SUP		THINNING	<20	
		31	80	82		1ST SUP		THINNING	<20	
		32	35	81		2ND AVB		THINNING	49	
				81		3RD AVB		THINNING	31	
		34	78	82		1ST SUP		THINNING	30%	
		36	76	82		1ST SUP		THINNING	<20	
		39	68	82		1ST SUP		THINNING	37%	
		40	29	82		6TH SUP	7TH SUP	THINNING	20	BETWEEN
				81	39 " ABOVE	6TH SUP		THINNING	22	
		42	57	82	18" BELOW	4TH SUP		THINNING	<20	
		43	59	82		1ST SUP		THINNING	<20	
			62	82		1ST SUP		THINNING	<20	

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

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

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
B3.0				
STEAM GENERATORS				
B3.10 PRESSURE RETAINING BOLTING				
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
B4.0				
PIPING PRESSURE BOUNDARY				
B4.1 SAFE-END TO PIPING AND SAFE-END IN BRANCH PIPING WELDS				
SAFETY INJECTION B W-2	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

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
B4.5 CIRCUMFERENTIAL AND LONGITUDINAL PIPE WELDS				
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	---	---	---
B4.7 BRANCH PIPING CONNECTION WELDS SIX INCH DIAMETER AND SMALLER				
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

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
B4.8 SOCKET WELDS				
CHARGING LINE CVCS W-29	NAVCO	---	---	---
RTD HOT LEG, B W-14	NAVCO	---	---	---
B4.9 INTEGRALLY WELDED SUPPORTS				
AUXILIARY SPRAY TO PRESSURIZER A, 114-CVCS-1	NAVCO	---	---	---
B4.10 SUPPORT COMPONENTS				
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

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
B4.10 CON'T.				
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	---	---	---
B4.12 PRESSURE RETAINING BOLTING				
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

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
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 BOLTS 1-16	NAVCO	---	---	---
PRESSURIZER SPRAY A BOLTS 1-8	NAVCO	---	---	---
RTD COLD LEG A BOLTS 1-2	NAVCO	---	---	---
RTD COLD LEG B BOLTS 1-2	NAVCO	---	---	---
RTD HOT LEG B BOLTS 1-2	NAVCO	---	---	---
AUXILIARY SPRAY TO PRESSURIZER BOLTS 1-6	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

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
ASME CLASS II				
PRESSURE VESSELS - STEAM GENERATORS				
C1.1 CIRCUMFERENTIAL BUTT WELDS				
STEAM GENERATOR NO. 11 W-F	WESTINGHOUSE	1101	---	68-24
STEAM GENERATOR NO. 12 W-F, H	WESTINGHOUSE	1102	---	68-25
C1.2 NOZZLE TO VESSEL WELDS				
STEAM GENERATOR NO. 12 W-N4	WESTINGHOUSE	1102	---	68-25
PRESSURE VESSELS - ACCUMULATOR				
C1.4 PRESSURE RETAINING BOLTING				
ACCUMULATOR NO. 12 MANWAY BOLTS 1-24	DELTA SOUTHERN	41038-70-2	---	2555
C2.0 PIPING				
C2.1 CIRCUMFERENTIAL BUTT WELDS				
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

(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

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
C2.1 CON'T				
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	---	---	---
C2.2 LONGITUDINAL WELDED JOINTS IN FITTINGS				
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	---	---	---
C2.5 INTEGRALLY WELDED SUPPORTS				
MAIN STEAM A C, MSH-46 E, MSH-35	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

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
C2.5 CON'T				
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	---	---	---
C2.6 SUPPORT COMPONENTS				
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

(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

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
SEISMIC BOLTING				
STEAM GENERATORS NUMBER 11	WESTINGHOUSE	1101	---	68-24
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				
STEAM GENERATOR NUMBER 12	WESTINGHOUSE	1102	---	68-25
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

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
STEAM GENERATOR NO. 12 CON'T				
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				
PRESSURIZER BASE ANCHOR BOLTS 8 BOLTS	WESTINGHOUSE	1111	---	68-20
ACCUMULATOR B BASE ANCHOR BOLTS 8 BOLTS	DELTA SOUTHERN	41038-70-2	---	2555
REACTOR COOLANT PUMP NUMBER 11 BASE ANCHOR BOLTS COLUMN 3 8 BOLTS	WESTINGHOUSE	W561	---	---

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

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
REACTOR COOLANT PUMP	WESTINGHOUSE	W543	---	---

NUMBER 12

BASE ANCHOR BOLTS
COLUMN 3
8 BOLTS

FORM NIS-1 (back)

8.) Examination Dates 11-15-82 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:

System	Item ID	Exam Method	Type & Number of Indications
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 Northern States Power 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 Hartford Steam Boiler Insp. & Ins. Co. of Hartford Conn. have inspected the components described in this Owners' Date 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 andcorrective 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

Curtis P. Swinton Commissions NB 6932 MN. 83-40
Inspector's Signature National Board, State, Province & No.