



PRAIRIE ISLAND NUCLEAR GENERATING PLANT

Red Wing, Minnesota

UNITS 1 AND 2



INSERVICE INSPECTION - EXAMINATION SUMMARY

PRAIRIE ISLAND NUCLEAR GENERATING PLANT - UNIT 1

JANUARY 14, 1985 THRU FEBRUARY 22, 1985

1ST TEN YEAR FINAL REPORT

NORTHERN STATES POWER COMPANY
MINNEAPOLIS, MINNESOTA

REPORT DATE:
MAY 1, 1985

COMMERCIAL SERVICE
DATE: DEC. 16, 1973

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NORTHERN STATES POWER COMPANY

PRAIRIE ISLAND NUCLEAR GENERATING PLANT - UNIT 1

INSERVICE INSPECTION - EXAMINATION SUMMARY

PRAIRIE ISLAND NUCLEAR GENERATING PLANT - UNIT 1

JANUARY 14, 1985 THRU FEBRUARY 22, 1985

REFUELING OUTAGE 9

INSPECTION PERIOD 3

Report Date:
MAY 1, 1985

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December 16, 1973

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

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

1.0 INTRODUCTION

This report is a summary of the examinations performed during the ninth inservice inspection at the Prairie Island Nuclear Generating Plant - Unit 1. This was the last inservice inspection conducted for inspection period three of the 1st ten year interval. The examinations were performed during the plant's ninth refueling outage from January 14, 1985 thru February 22, 1985. Prairie Island - Unit 1 began commercial operation on December 16, 1973.

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

1. Pressure retaining components and supports of the reactor coolant and associated systems classified as ASME Class 1 and ASME Class 2.
2. Reactor pressure vessel examinations.
3. Bolting of seismic supports classified as ASME Class 1.

2.0 INSPECTION SUMMARY

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

3.0 BALANCE OF PLANT

3.1 EXAMINATION PLAN

The examination plan focused on the pressure-retaining components and their supports of the reactor coolant and associated auxiliary systems classified as ASME Class 1, Class 2, and Seismic Bolting.

The examination plan was based on the examination requirements of the ASME Boiler and Pressure Vessel Code Section XI, 1974 Edition through and including the Summer 1975 Addenda, and complied with Prairie Island's Technical Specification, Section TS 4.2. The Examination is in accordance with the program submitted to the United States Nuclear Regulatory Commission on February 1, 1978 titled, "ASME Code Section XI Inservice Inspection and Testing Program and Information Required for NRC Review of Requests for Relief From ASME Code Section XI Requirements".

3.2 EXAMINATION METHODS

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

Liquid penetrant or magnetic particle examination methods were used to perform the surface examinations. The liquid penetrant examinations were performed using color contrast-solvent removable materials.

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 D.

3.4 EQUIPMENT AND MATERIALS

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

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

3.5 PERSONNEL

Northern States Power Company contracted Lambert, MacGill and Thomas Inc. and Westinghouse 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 D.

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

3.6 EVALUATION

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

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

3.7 EXAMINATION REPORTS AND DOCUMENTATION

All examination reports and documentation are maintained on file by Northern States Power Company. Table 1 of Appendices A, B, and C 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, and C summarizes all the examinations performed to date and completes the ten year examination requirements. For retrieval purposes, the prefix of the inspection report number corresponds with the year the inspection was performed. The examination report numbers for this outage are prefixed with "A85".

Table II of Appendix A, B, and C compares the baseline examination results with the results obtained during this examination. Table III of Appendix A, B, and C 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 D. Appendix E contains the Form NIS-1 titled, "Owner's Data Report for Inservice Inspections".

3.8 SUMMARY OF RESULTS

The only anomalies detected were two linear PT indications on the O.D. surface of Reactor Coolant Pump No. 12. The anomalies were accepted based on the acceptance standard of the 1980 Edition of ASME Section XI and found to be within the allowable limitations of table 1WB-3518-2.

4.0 REACTOR PRESSURE VESSEL EXAMINATIONS

Westinghouse was contracted to perform the reactor pressure vessel volumetric examinations utilizing their remotely operated ultrasonic inspection tool. Examinations were performed in accordance with Section XI of the ASME code, 1974 Edition, through and including Summer 1975 Addenda; NRC Regulatory Guide 1.150, "Ultrasonic Testing of Reactor Vessel Welds During Preservice and Inservice Examinations", Revision 1, Appendix A, "Alternative Method"; and Prairie Island Technical Specification, Section TS 4.2.

Volumetric examination areas included the shell-to-flange weld; flange ligaments; vessel supports; circumferential seam and head welds; and the shell-to-nozzle welds, safe-end welds, and inner radius sections for the inlet nozzles. The shell-to-nozzle and the safe-end welds of the safety injection nozzles were volumetrically examined, however the ultrasonic technique for the nozzle inner radius sections proved inadequate and Westinghouse was unable to qualify this procedure prior to the scheduled examination date. Therefore the safety injection nozzles' inner radius section surfaces were visually examined remotely and we intend to implement a qualified volumetric technique for these areas during the next scheduled vessel examination.

Other visual examination areas included the reactor vessel I.D. surface(s); core barrel; upper and lower internals; sections of vessel cladding; and other accessible areas upon removal of the core/support structures. These examinations completed the vessel inspection requirements for the first (1st) Interval as described in the aforementioned ASME Code Section. No reportable indications were observed during these examinations.

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

APPENDIX A

ASME CLASS 1 EXAMINATIONS

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT I

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	<u>LONGITUDINAL AND CIRCUMFER- ENTIAL SHELL WELDS IN CORE REGION</u>					
		LONGITUDINAL WELDS	-	-	-	-NONE-	
		CIRCUMFERENTIAL WELDS	THREE	50%	100%	WELD NO. 3	85-W RPV REPORT
B1.2	B-B	<u>LONGITUDINAL AND CIRCUMFER- ENTIAL WELDS IN SHELL (OTHER THAN THOSE OF CATEGORY B-A AND B-C AND MERIDIONAL AND CIRCUMFERENTIAL SEAM WELDS IN BOTTOM HEAD AND CLOSURE HEAD (OTHER THAN THOSE OF CATEGORY B-C)</u>					
		LONGITUDINAL WELDS	-	-	-	-NONE-	
		MERIDIONAL WELDS	-	-	-	-NONE-	
		CIRCUMFERENTIAL WELDS	THREE	5%	100%	WELD NO. 2	85-W RPV REPORT
				5%	7.2%	WELD NO. 4	85-W RPV REPORT
				5%	7.2%	WELD NO. 5	85-W RPV REPORT
B1.3	B-C	<u>VESSEL-TO-FLANGE AND HEAD-TO- FLANGE CIRCUMFERENTIAL WELDS</u>					
		VESSEL-TO-FLANGE	ONE	33%	33%	NO. 1, STUD HOLE 4 TO 14&23 TO 29	77-W RPV REPORT
			TWO	29%	29%	NO. 1, STUD HOLE 16 TO 7&32 TO 43	80A-W RPV REPORT
			THREE	38%	38%	REMAINDER OF STUD HOLES	85-W RPV REPORT
					100%	FROM VESSEL ID	85-W RPV REPORT

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT I

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S1.1

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MAJOR ITEM: REACTOR VESSELS

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
B1.3	B-C	(CON'T) HEAD-TO-FLANGE	ONE TWO THREE	33% 100% 34%	33% 100% 34%	NO. 6, STUD HOLE 1 THRU 6 NO. 6, STUD HOLE 1 TO 48 NO. 6, STUD HOLE 32 TO 48 TO 1	77-W RPV REPORT & 77-T36, 138, 139 80A-77, 79, 80 83C-113, 114, 115
B1.4	B-D	<u>PRIMARY NOZZLE-TO-VESSEL WELDS AND NOZZLE INSIDE RADIUS SECTION</u> REACTOR CORE COOLANT NOZZLES OUTLET NOZZLES INLET NOZZLES SAFETY INJECTION NOZZLES	ONE TWO THREE THREE THREE	1 1 2 1 1	1 1 2 1 1	RCC-A-1 RCC-B-1 RCC-A-6, RCC-B-9 W-8 W-11	77-W RPV REPORT 80A-W RPV REPORT 85-W RPV REPORT 85-W RPV REPORT 85-W RPV REPORT
B1.5	B-E	<u>VESSEL PENETRATIONS INCLUDING CONTROL ROD DRIVE AND INSTRU- MENTATION PENETRATIONS</u> CONTROL ROD PENETRATIONS INSTRUMENTATION PENETRATION REACTOR VESSEL HEAD VENT	ONE TWO THREE ONE TWO THREE *-	3 3 4 3 3 3 1	*3 *3 *3 *3 *3 *3 *1	 1-RC-36 TO RC-8-5	*EACH ITEM INSPECTED BY PLANT PERSONNEL DURING EACH REACTOR VESSEL LEAKAGE TEST

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PRAIRIE ISLAND UNIT

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE SI.1
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 MAJOR ITEM: REACTOR VESSELS

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
B1.6	B-F	<u>NOZZLE-TO-SAFE END WELDS</u>					
		REACTOR CORE COOLANT NOZZLES					
		OUTLET NOZZLES	ONE	1	1	RCC-A-1 S.E.	77-W RPV REPORT & 77-156
			TWO	1	1	RCC-B-1 S.E.	80A-W RPV REPORT 80A-121
		INLET NOZZLES	THREE	2	2	RCC-A-14 S.E.(PT) RCC B-14 S.E.(PT)	83C-009, 009R 85-W RPV REPORT 83C-008 85-W RPV REPORT
		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	1	W1 S.E.	83C-007, 010
B1.8	B-G-1	<u>CLOSURE STUDS AND NUTS</u>	ONE	16	16	#1 THRU #16	77-W RPV REPORT & 77-134
			TWO	16	16	#17 THRU #31!	80A-W RPV REPORT
			THREE	16	16	#32" THRU #48	82-038, 039, 055
B1.9	B-G-1	<u>LIGAMENTS BETWEEN THREADED STUD HOLES</u>	ONE	16	16	STUD HOLE #4 THRU #14 THRU #29	77-W RPV REPORT
			TWO	13	13	STUD HOLE #16 & #17 THRU #42	80A-W RPV REPORT
			THREE	19	19	REMAINDER OF STUD HOLES	85-W RPV REPORT

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT I

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE SI.1PAGE 4 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.
B1.10	B-G-1	<u>CLOSURE WASHERS AND BUSHINGS</u>					
		WASHERS (PAIRS)	ONE TWO THREE	16 16 16	16 16 16	1 THRU 16 17 THRU 31 & 33 32 & 34 THRU 48	77-W RPV REPORT 80A-W RPV REPORT 82-053
		BUSHINGS	-	-	-	-NONE-	
B1.11	B-G-2	<u>PRESSURE RETAINING BOLTING</u>	ONE TWO THREE	3 3 3	9 9 3	ALL 9 HOLES ALL 9 HOLES CLAMP #37	77-W RPV REPORT 80A-W RPV REPORT 83C-T16
B1.12	B-H	<u>INTEGRALLY WELDED VESSEL SUPPORTS</u>	THREE	2	2	WS1, WS2	85-W RPV REPORT
B1.13	B-I-1	<u>CLOSURE HEAD CLADDING</u>	ONE TWO THREE	2 2 2	2 2 2	HCP-1 & HCP-2 HCP-3 & HCP-4 HCP-5 & HCP-6	77-W RPV REPORT 80A-W RPV REPORT 83C-T11
B1.14	B-I-1	<u>VESSEL CLADDING</u>	ONE TWO THREE	2 2 2	2 2 2	VCP@77 ⁰ , VCP@237 ⁰ VCP@67 ⁰ , VCP@247 ⁰ VCP-5, VCP-6	76-W INTERNALS RPT 79-W INTERNALS RPT 85-W RPV REPORT
B1.15	B-N-1	<u>VESSEL INTERIOR</u>					
		UPPER INTERNALS AND LOWER INTERNALS	ONE TWO THREE	* * *	* * *	* * *	76-W INTERNALS RPT 79-W INTERNALS RPT 85-W INTERNALS RPT
						* REPRESENTATIVE REGIONS OF THOSE INTERIOR SURFACES AND INTERNALS MADE ACCESSIBLE BY THE REMOVAL OF COMPONENTS DURING NORMAL REFUELING OPERATIONS	

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PRAIRIE ISLAND UNIT

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE Sl.1
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 MAJOR ITEM: REACTOR VESSELS

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
B1.16	B-N-2	<u>INTERIOR ATTACHMENTS AND CORE SUPPORT STRUCTURES</u>	-	-	-	-NOT APPLICABLE FOR PWR VESSELS-	
B1.17	B-N-3	<u>REMOVABLE CORE-SUPPORT STRUCTURES</u>	THREE	*-	100%	* 100% OF THE VISUALLY ACCESSIBLE ATTACHMENT WELDS AND VISUALLY ACCESSIBLE SURFACES OF THE CORE SUPPORT STRUCTURE	85-W INTERNALS RPT AND VISUALLY ACCESSIBLE SURFACES OF THE CORE SUPPORT STRUCTURE
B1.18	B-0	<u>CONTROL ROD DRIVE HOUSINGS</u> PERIPHERAL CRD HOUSINGS	THREE	2	2	CR-33, 17	A85-006, 007
B1.19	B-P	<u>EXEMPTED COMPONENTS</u>	-	*-	-	* ALL COMPONENTS EXEMPTED FROM VOLUMETRIC AND SURFACE EXAMI- NATION BY IWB-1200	* PERFORMED BY PLANT PERSONNEL IN ACCORD- ANCE WITH IWA-5000 DURING EACH SYSTEM LEAKAGE TEST AND EACH SYSTEM HYDRO- STATIC TEST REQUIRED BY IWB-5000

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT

INSERVICE INSPECTION-EXAMINATION SUMMARY

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.
B4.1	B-F	<u>SAFE END TO PIPING AND SAFE END IN BRANCH PIPING WELDS</u>					
		<u>REACTOR VESSEL</u>					
		REACTOR CORE COOLANT SYSTEMS	ONE	1	1	RCC-A-1 S.E. 29-RC-1A,	77-W RPV REPORT & 77-I56
			TWO	1	1	RCC-B-1 S.E., 29-RC-1B	80A-W RPV REPORT 80A-I21
			THREE	2	2	RCC-A-14 S.E.(PT) RCC-B-14 S.E.(PT)	83C-009, 009R 85-W RPV REPORT 83C-008 85-W RPV REPORT
		SAFETY INJECTION SYSTEMS	ONE	1	1	W-2, 4-RC-14A	77-W RPV REPORT & 77-I54
			THREE	1	1	W-2	82-069, 70
		<u>STEAM GENERATOR NO. 11</u>					
		REACTOR CORE COOLANT SYSTEM	ONE	1	1	RCC-A-5, 31-RC-2A	76-2, 29, 30
			THREE	1	1	RCC-A-4, 29-RC-1A	83C-084, 123
		<u>STEAM GENERATOR NO. 12</u>					
		REACTOR CORE COOLANT SYSTEM	TWO	1	1	RCC-B-5, 31-RC-2B	80A-62, 68
			THREE	1	1	RCC-B-4, 29-RC-1B	83C-083, 092
		<u>PRESSURIZER</u>					
		SAFETY LINES	ONE	2	2	8010A-1B S.E. 8010B-1B S.E.	76-3, 55 76-4, 58
			TWO	2	2	8010A-1B S.E. 8010B-1B S.E.	80A-20, 41 80A-21, 43

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PRAIRIE ISLAND UNIT 1

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE 51.4
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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.
B4.1	B-F	(CONT'D)					
		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
		SPRAY LINE	TWO THREE	1 1	1 1	W-29, S.E. W-29, S.E.	80A-18, 37 81-143, 209
B4.2, B.43 & B4.4	B-G-1	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 TWO THREE	1 1 1	1 1 1	W-1 W-6 W-5	77-113, 141 78-086, 112 81-256
		SEAL INJECTION B	ONE TWO THREE	1 1 1	1 1 1	W-6 W-2B W-2A	77-38, 94 78-087, 111 81-257

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INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE SL.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.
B4.5	B-J	(CONT'D)					
		(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		W-34, 37, 47	79-52, 82, 79
			THREE	4		W-21, 22, 27 W-35	81-84, 83, 85 83C-071
		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		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
			THREE	6	6	W-2, 3, 34 W-11, 12, 20, 21 W-29A, 32	79-54, 55, 50 82-049, 050, 051, 052 83C-070, 069
		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	1	W-10	83C-042

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 1

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE 4 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.
B4.5	B-J	(CONT'D)					
		RESIDUAL TEMPERATURE DETECTOR TAKE OFF- COLD LEG B	ONE TWO THREE	1 1 1	1 1 1	W-14 W-2 W-18	77-184, 103 79-80 83C-067
		RESIDUAL TEMPERATURE DETECTOR TAKE OFF- HOT LEG A	ONE TWO THREE	1 1 2	1 1 2	W-23 W-19 W-15A, 16	77-121, 144 79-SP2-76 83C-043, 044
		RESIDUAL TEMPERATURE DETECTOR TAKE OFF- HOT LEG B	ONE TWO THREE	1 1 2	1 1 2	W-24 W-5 W-11, 21	77-89, 106 79-81 83C-065, 066
		SAFETY INJECTION HIGH HEAD A	ONE TWO THREE	1 - 1	1 - 1	W-1A W-5	77-50, 72 81-82
		SAFETY INJECTION HIGH HEAD B	ONE TWO THREE	1 1 2	1 1 2	W-13 W-1 W-4,5	77-51, 71 79-71 81-254, 253
		DRAIN LINE ON CROSSOVER A	ONE TWO THREE	1 1 1	1 1 1	W-4 W-8 W-6	77-52, 145 78-077 81-126
		DRAIN LINE ON CROSSOVER B	ONE TWO THREE	- 1 1	- 1 1	W-2 W-7	79-53 81-122
		REACTOR VESSEL SAFETY INJECTION LOW HEAD A	ONE TWO THREE	- 1 3	- 1 3	W-7 W-8, 11, 9	78-080 81-79, 81, 80

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PRAIRIE ISLAND UNIT 1

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE 51.4

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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.
B4.5	B-J	(CONT'D)					
		REACTOR VESSEL	ONE	1	1	W-7	77-17, 44
		SAFETY INJECTION	TWO	1	1	W-2	78-079
		LOW HEAD B	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	4	W-20, 21 W-21, 23	81-210, 211 83C-105, 104
		SPRAY TO PRESSURIZER BRANCH B	ONE	1	1	W-2	77-104, 117
			TWO	1	1	W-14	79-90
			THREE	2	2	W-1, 3	82-040, 043
		RESIDUAL TEMPERATURE DETECTOR RETURN A	ONE	1	1	W-4	77-53, 116
			TWO	1	1	W-8	78-075
			THREE	1	1	W-6	82-041
		RESIDUAL TEMPERATURE DETECTOR RETURN B	ONE	1	1	W-3	77-83, 95
			TWO	1	1	W-7	78-076
			THREE	1	1	W-6	83C-078
		PRESSURIZER RELIEF LINE A	ONE	1	1	W-9	77-87, 100
			TWO	1	1	W-6	79-77
			THREE	1	1	W-11	81-207
		PRESSURIZER RELIEF LINE B	ONE	1	1	W-14	77-87, 101
			TWO	-	-		
			THREE	-	-		

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B4.5	B-J	(CONT'D)					
		(4.0 IN. NOM. DIA. SYSTEMS)					
		SAFETY INJECTION LOW HEAD A	ONE TWO THREE	1 - -	- - -	NONE OF THESE WELDS ARE ACCESSIBLE; THEY ARE LOCATED WITHIN THE CONCRETE SHIELD WALL	
		SAFETY INJECTION LOW HEAD B	ONE TWO THREE	- - 1	- - 1	SOME OF THESE WELDS ARE ACCESSIBLE; OTHERS ARE LOCATED WITHIN THE CONCRETE SHIELD WALL W-4	83C-090
		(6.0 IN. NOM. DIA. SYSTEMS)					
		SAFETY INJECTION LOW HEAD A	ONE TWO THREE	2 - -	2 - -	W-9, 10	76-67, 68
		SAFETY INJECTION LOW HEAD B	ONE TWO THREE	- 1 -	- 1 -	W-5	79-74
		SAFETY INJECTION HIGH HEAD A	ONE TWO THREE	- 1 -	- 1 -	W-1	79-73
		SAFETY INJECTION HIGH HEAD B	ONE TWO THREE	- - 1	- - 1	W-2	83C-103
		PRESSURIZER SAFETY LINE A	ONE TWO THREE	2 - 4	2 - 4	W-2, 3 W-7, 8, 10 W-6	76-56, 57 81-190, 164, 165 82-100

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B4.5	B-J	(CONT'D)					
		PRESSURIZER SAFETY LINE B	ONE TWO THREE	- 1 3	- 1 4	W-4 W-7, 8, 10 W-5	79-76 81-156, 158, 157 83C-015
		PLO-CAP A	ONE TWO THREE	- - 1	- - 1	W-1	83C-045
		PLO-CAP B	ONE TWO THREE	- 1 -	- 1 -	W-1	79-72
		<u>(8.0 IN. NOM. DIA. SYSTEMS)</u>					
		RESIDUAL HEAT REMOVAL TAKE OFF A	ONE TWO THREE	6 2 2	6 2 2	W-1, 20, 21, 22 23, 24 W-12, 14 W-5, 7	76-53, 39, 40, 41, 42, 43 78-034, 035 81-277, 279
		RESIDUAL HEAT REMOVAL TAKE OFF B	ONE TWO THREE	2 2 2	2 2 2	W-10, 19 W-9, 17 W-4, 7	77-90, 92, 68 78-045, 046 81-278, 275
		<u>(10.0 IN. NOM. DIA SYSTEMS)</u>					
		RESIDUAL HEAT REMOVAL RETURN B	ONE TWO THREE	2 1 1	2 1 1	w-8,9 W-5 W-2	76-64, 65 78-83 83C-068
		PRESSURIZER SURGE LINE B	ONE TWO THREE	2 - 1	1 - 1	W-5 W-1	76-54 83C-119

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B4.5	B-J	(CONT'D)					
		(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	2	W-8, 11	83C-072, 073
		(27.5 IN. NOM. DIA. SYSTEMS)					
		REACTOR CORE COOLANT COLD LEG (INLET) A	ONE	-	-		
			TWO	-	-		
			THREE	1	1	RCC-A-11	83C-012
		REACTOR CORE COOLANT COLD LEG (INLET) B	ONE	-	-		
			TWO	1	1	RCC-B-12	80A-87
			THREE	-	-		
		(29.0 IN. NOM. DIA. SYSTEMS)					
		REACTOR CORE COOLANT HOT LEG (OUTLET) A	ONE	-	-		
			TWO	-	-		
			THREE	1	1	RCC-A-3	83C-124
		REACTOR CORE COOLANT HOT LEG (OUTLET) B	ONE	1	1	W-3	77-102
			TWO	-	-		
			THREE	-	-		

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B4.5	B-J	(CONT'D) (31.0 IN. NOM. DIA. SYSTEMS)					
		REACTOR CORE COOLANT CROSSOVER A	ONE TWO THREE	3 - 1	3 - 1	W-6, 7, 8 RCC-A-9	76-28,31,27,32,1,33 83C-011
		REACTOR CORE COOLANT CROSSOVER B	ONE TWO THREE	- 2 -	- 2 -	RCC-B-6 RCC-B-7	80A-67, 63 80A-69
B4.6	B-J	<u>BRANCH PIPE CONNECTION WELDS EXCEEDING SIX INCH DIAMETER</u>					
		ACCUMULATOR DISCHARGE A	ONE	1	1	W-R	76-34, 44, 45
		ACCUMULATOR DISCHARGE B	-	-	-		
		RESIDUAL HEAT REMOVAL TAKE OFF B	TWO	1	1	W-R	80A-66, 75, 76
		PRESSURIZER SURGE LINE B	THREE	1	1	W-R	83C-120
		RESIDUAL HEAT REMOVAL TAKE OFF A	ONE	1	1	W-R	76-35, 52

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B4.7	B-J	<u>BRANCH PIPE CONNECTION WELDS SIX INCH DIAMETER AND SMALLER</u>					
		<u>(6.0 IN. NOM. DIA. SYSTEMS)</u>					
		PLO-CAP A	-	-	-		
		PLO-CAP B	-	-	-		
		SAFETY INJECTION HIGH HEAD A	THREE	1	1	W-R	83C-026
		SAFETY INJECTION HIGH HEAD B	-	-	-		
		<u>(3.0 IN. NOM. DIA. SYSTEMS)</u>					
		SPRAY TO PRESSURIZER BRANCH A	-	-	-		
		SPRAY TO PRESSURIZER BRANCH B	THREE	1	1	W-R	82-064
		RESIDUAL TEMPERATURE DETECTOR RETURN A	-	-	-		
		RESIDUAL TEMPERATURE DETECTOR RETURN B	-	-	-		
		<u>(2.0 IN. NOM. DIA. SYSTEMS)</u>					
		RESIDUAL TEMPERATURE DETECTOR TAKE OFF COLD LEG A	ONE	1	1	W-R	77-133

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SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
B4.7	B-J	(CONT'D)					
		RESIDUAL TEMPERATURE DETECTOR TAKE OFF COLD LEG B	-	-	-		
		DRAIN LINE ON CROSSOVER A	-	-	-		
		DRAIN LINE ON CROSSOVER B	-	-	-		
		CHARGING LINE CVC'S	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	-	-	-		
B4.8	B-J	<u>SOCKET WELDS</u> <u>(2.0 IN. NOM. DIA. SYSTEMS)</u>					
		SEAL INJECTION A	ONE	-	-		
			TWO	1	1	SW-17	78-019
			THREE	1	1	SW-18	81-263
		SEAL INJECTION B	ONE	1	1	SW-9A	77-036
			TWO	1	BASELINE	CJ-3	80A-130
			THREE	1	1	SW-13	81-265

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B4.8	B-J	(CONT'D)					
		CHARGING LINE B	ONE	1	1	SW-75	77-065
			TWO	1	1	SW-1	79-44
			THREE	1	2	W-29	82-123
						W-12	83C-025
		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	1	W-10	83C-055
		RESIDUAL TEMPERATURE DETECTOR TAKE OFF COLD LEG B	ONE	1	1	SW-7	77-084
			TWO	1	1	SW-5	79-42
			THREE	1	1	W-13	83C-023, 023R1, 023R2
		RESIDUAL TEMPERATURE DETECTOR TAKE OFF HOT LEG A	ONE	-	-		
			TWO	1	1	SW-10	79-SP2-73, 73R
						SW-10	80A-65
			THREE	1	1	W-15	83C-024, 024R1, 024R2
		RESIDUAL TEMPERATURE DETECTOR TAKE OFF HOT LEG B	ONE	-	-		
			TWO	1	1	SW-15	79-43
			THREE	1	1	W-14	82-065

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B4.8	B-J	(CONT'D)					
		SAFETY INJECTION HIGH HEAD A	ONE TWO THREE	- - 1	- - 1	SW-6	81-111
		SAFETY INJECTION HIGH HEAD B	ONE TWO THREE	1 - -	1 - -	SW-17	77-51
		DRAIN LINE ON CROSSOVER A	ONE TWO THREE	1 - -	1 - -	SW-1	77-52
		DRAIN LINE ON CROSSOVER B	ONE TWO THREE	- 1 1	- 1 1	SW-1 SW-8	79-22 81-117
		REACTOR VESSEL SAFETY INJECTION LOW HEAD A	ONE TWO THREE	- - 1	- - 1	SW-12	81-93
		REACTOR VESSEL SAFETY INJECTION LOW HEAD B	ONE TWO THREE	1 - -	1 - -	SW-8	77-17
B4.9	B-K-1	<u>INTEGRALLY WELDED SUPPORTS</u>					
		RESIDUAL HEAT REMOVAL RETURN B	ONE	2	2	F, G	76-18, 19
		ACCUMULATOR DISCHARGE A	ONE	1	1	D1	76-69

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SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
B4.9	B-K-1	(CONT'D)					
		RESIDUAL HEAT REMOVAL TAKE OFF A	ONE TWO THREE	1 1 1	1 1 1	F I K1	77-67, 91 78-052, 082, 088 81-276, 264, 214
		SPRAY TO PRESSURIZER BRANCH A	ONE	1	1	K1	77-93, 66
		REACTOR VESSEL SAFETY INJECTION LOW HEAD A & B (6")	-	-	-		
		CHARGING LINE CVCS	-	-	-		
		SAFETY INJECTION HIGH HEAD A	-	-	-		
		ACCUMULATOR DISCHARGE B	TWO	1	1	B1	79-46, 20, 36
		RESIDUAL HEAT REMOVAL TAKE OFF B	TWO	1	1	H	78-047, 020, 020R
		SPRAY TO PRESSURIZER BRANCH	TWO THREE	1 -	1 -	E E E	79-93, 70, 70R, 33 80A-56, 92, 59, 59R 81-216, 132, 136
		AUXILLIARY SPRAY CVCS	THREE	1	1	A	82-010, 060
		REACTOR VESSEL SAFETY INJECTION LOW HEAD A & B (2")	-	-	-		
		SEAL INJECTION A	THREE	1	1	I	81-86, 95, 114

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SUB ITEM	EXAM 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	<u>SUPPORT COMPONENTS</u>					
		REACTOR CORE COOLANT A	ONE THREE	1 1	1 2	A1 A ₂ , A ₃	77-12 83C-021, 013
		ACCUMULATOR DISCHARGE A	-	-	-	-NONE-	
		RESIDUAL HEAT REMOVAL TAKE OFF A	ONE TWO THREE	4 6 6	3 7 6	L, O, Q1 K2-MISSED IN PERIOD ONE A, D, E, K2 E1, F1, G1 G2, H, I1, J1, M, N	76-82 78-31,32,33,64,64R 79-5, 4, 6 81-243,116,100,99 107, 107R, 109
		SAFETY INJECTION HIGH HEAD A	-	-	-		
		SPRAY TO PRESSURIZER BRANCH A	ONE TWO THREE	4 4 4	4 4 3	H, J, L, M D, A & B/C1 F, G, K	76-83 78-71, 51/79-7 82-003, 013, 018

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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)					
		RESISTANCE TEMPERATURE DETECTOR RETURN A	ONE TWO THREE	- 1 1	- 1 1	A B	78-067 83C-020
		RESISTANCE TEMPERATURE DETECTOR TAKE OFF COLD LEG A	ONE TWO THREE	1 2 2	1 2 2	A D/B B E, F	72-111 78-65/79-27, 27R 80A-108 83C-018, 017
		RESISTANCE TEMPERATURE DETECTOR TAKE OFF HOT LEG A	ONE TWO THREE	1 1 2	1 1 2	A B C, D	77-110 79-28 83C-016, 019
		SAFETY INJECTION HIGH HEAD A	ONE TWO THREE	- - 1	- - 1	A	81-244, 244R
		DRAIN LINE ON CROSSOVER A	ONE TWO THREE	1 1 1	1 1 1	B B1 C	76-84 78-050 81-106
		SEAL INJECTION A	ONE TWO THREE	5 6 7	6 6 7	D, G, H, J, K, I1 C, D, E, P A, B/A1 E1, L, M, N, O, Q, Q1	76-85 78-069, 059, 068, 060 79-23, 24/79-SP2-89 81-104, 103, 97, 105 98, 218, 224
		REACTOR CORE COOLANT B	ONE TWO THREE	- 1 2	- 1 2	B2 B ₂ , B ₃	80A-125 83C-049, 044

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B4.10	B-K-2	(CONT'D)					
		ACCUMULATOR DISCHARGE B	ONE TWO THREE	1 - -	1 - -	B	76-86
		RESIDUAL HEAT REMOVAL RETURN	ONE TWO THREE	1 2 2	- 2 2	A - MISSED IN PERIOD ONE A, B C, D	78-054, 061 82-002, 126
		RESIDUAL HEAT REMOVAL TAKE OFF B	ONE TWO THREE	3 4 4	4 4 4	K, L, M, N A, D, E, F G, I, J, N	76-88 78-53, 30/79-26, 25 81-217, 226, 241, 225
		SAFETY INJECTION HIGH HEAD B	-	-	-	-NONE-	
		SPRAY TO PRESSURIZER BRANCH B	ONE TWO THREE	3 3 4	4 3 4	A, B, C, D A1, D, D1 F & H, I, J, K	76-89 79-31, 32, 34 81-133, 141, 140, 138
		RESISTANCE TEMPERATURE DETECTOR RETURN B	ONE TWO THREE	- 1 1	- 1 1	A B	78-066 83C-050
		RESISTANCE TEMPERATURE DETECTOR TAKE OFF COLD LEG B	ONE TWO THREE	1 2 2	1 3 2	B C/B/D E, F	77-63 78-56/79-35/79-SP2-90 83C-027, 051
		RESISTANCE TEMPERATURE DETECTOR TAKE OFF HOT LEG B	ONE TWO THREE	1 2 2	1 2 2	A B/C D, E	77-61 78-55/79-16 82-001, 014

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B4.10	B-K-2	(CONT'D)					
		SAFETY INJECTION HIGH HEAD B	ONE TWO THREE	1 - 1	1 - 1	A C	76-90 83C-052
		DRAIN LINE ON CROSSOVER B	ONE TWO THREE	- 1 -	- 1 -	A	79-SP2-66
		CHARGING LINE CVCS	ONE TWO THREE	6 6 7	6 6 7	H, I, J, K, L, N E, D, A, B, F, G O, P, Q, Q1 R, R1, S	76-91 78-062, 063 79-12, 13, 40, 41 82-004, 005, 015, 016 82-006, 006R, 017, 026
		LETDOWN LINE CVCS	ONE TWO THREE	2 2 4	2 2 4	A/C C1, D E, F, G, H	76-93/77-60 79-SP2-93, 94 81-123, 112, 118, 118R, 113
		SEAL INJECTION B	ONE TWO THREE	3 3 3	3 3 3	G/A, B C/B2, C1 D, E, E1	76-93, /77-82, 109 78-57/79-18, 19 81-101, 102, 242
		PRESSURIZER SURGE B	ONE TWO THREE	3 3 4	3 3 4	A, B/C E/D, C1 D F, G, H, I	76-94/77-80 78-072/79-SP2-95, 95R, 96/80A-57 83C-074, 075, 076, 077
		PRESSURIZER SAFETY LINES A & B	-	-	-	-NONE-	

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B4.10	B-K-2	(CONT'D)					
		REACTOR VESSEL	ONE	1	1	A1	76-95
		SAFETY INJECTION (6"x4")	TWO	1	1	A2	79-1
		LOW HEAD A & B	THREE	1	1	B ₂	83C-099
		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
		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 EXEMPT: RESISTANCE TEMPERATURE DETECTOR-TAKE OFF 1-RC-7A	-	*	-	* ALL COMPONENTS EXAMINED IN ACCORDANCE WITH IWA-500 AND IWB-5000 DURING SYSTEM LEAKAGE TEST	PERFORMED BY PLANT PERSONNEL

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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.
B4.11	B-P	(CONT'D) 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					
B4.12	B-G-2	PRESSURE RETAINING BOLTING (ONLY SYSTEMS APPLICABLE TO THIS ITEM ARE LISTED) SEAL INJECTION A RESISTANCE TEMPERATURE DETECTOR RETURN A PRESSURIZER SAFETY LINE A	ONE TWO ONE THREE ONE TWO THREE	4 4 8 8 12 12 -	4 4 8 8 12 12 12	BOLTS 1-4 @ W-10 BOLTS 1-4 @ W-2 BOLTS 1-8 BOLTS 1-8 BOLTS 1-12 (8010-A) BOLTS 1-12 (8010-A) BOLTS 1-12 (8010-A)	76-7 78-081 76-12 83C-022 76-17 79-85 82-020, 022

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 1

INSERVICE INSPECTION-EXAMINATION SUMMARY

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	(CONT'D)					
		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	8	BOLTS 1-8	83C-048
		PRESSURIZER SAFETY LINE B	THREE	12	12	BOLTS 1-12 (8010-B)	82-019, 021, 045

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 1

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE 1 OF 3 S1.5
 PAGE 1 OF 3
 MAJOR ITEM: REACTOR CORE COOLANT PUMPS

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
B5.1 & 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	24	BOLTS 1 THRU 24	83C-143
		PUMP B	ONE	8	8	BOLTS 1 THRU 8	76-75
			TWO	8	8	BOLTS 9 THRU 16	78-085
			THREE	ITEM B5.2	24	BOLTS 1 THRU 24	83C-144
		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	12	BOLTS 1 THRU 12	83C-031, 039
B5.2 & B5.3	B-G-1	PRESURE RETAINING BOLTS AND STUDS (2 IN. DIA.)					
		PUMP B FLANGE BOLTING	THREE	24	**		** BOLTS NOT REMOVED
		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
					24*	BOLTS 1 THRU 12	*UPPERS AND LOWERS 83C-029,038,031,039 *UPPERS AND LOWERS
		PUMP A SEAL HOUSE BOLTING	-	-	24*	BOLTS 1 THRU 12	83C-028,035,030,034 *UPPERS AND LOWERS

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 1

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE 51.5

PAGE 2 OF 3

MAJOR ITEM: REACTOR CORE COOLANT PUMPS

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
B5.4	B-K-1	<u>INTEGRALLY WELDED SUPPORTS</u>					
		PUMP A	TWO	3	3	SUPPORT A	80A-88, 88R
						SUPPORT B	80A-89, 89R
						SUPPORT C	80A-99, 99R
			THREE	1	1	SUPPORT A	81-238
B5.5	B-K-2	<u>SUPPORT COMPONENTS*</u>					* COINCIDENT WITH SEISMIC BOLTING
		PUMP A	ONE	1	1	COLUMN 1 & PAD 1	77-131, 1, 146, 148
		COLUMN AND LATERAL SUPPORTS	TWO	1	1	COLUMN 1 & PAD 2	79-134, 135, 58, 109, 115, 131
			THREE	1	1	COLUMN 3 & PAD 3	83C-134, 133, 056
		PUMP B	ONE	1	1	COLUMN 1 & PAD 1	77-131, 2, 147, 149, 131
		COLUMN AND LATERAL SUPPORTS	TWO	1	1	COLUMN 2 & PAD 2	79-138, 139, 59, 108, 118, 130
			THREE	1	1	COLUMN 3 & PAD 3	83C-135, 138, 053
B5.6	B-L-1	<u>PUMP CASING WELDS</u>					
		PUMP A	-	-	-	-NONE-	
		PUMP B	THREE	1	1	CASING WELD (PT)	A85-001
B5.7	B-L-2	<u>PUMP CASINGS</u>					
		PUMP A & B	THREE	1	*		RELIEF NO. 63
B5.8	B-P	<u>EXEMPTED COMPONENTS</u>	-	-	-	-NONE-	
B5.9	B-G-2	<u>PRESSURE RETAINING BOLTING (2 IN. DIA.)</u>					

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 1

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE 3 S1.5

PAGE 3 OF 3
REACTOR CORE COOLANT PUMPS

MAJOR ITEM:

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
-	-*	<u>PUMP FLYWHEELS</u> 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	2	PUMP-11, FLYWHEEL PUMP-12, FLYWHEEL	83C-061, 062, 063 83C-058, 059, 060
							* 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)

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 1

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S1.6

PAGE 1 OF 4

MAJOR ITEM: VALVE PRESSURE BOUNDARY

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
B6.1, B6.2 & B6.3	B-G-1	<u>PRESSURE RETAINING BOLTS AND STUDS (2 IN. DIA.)</u>	-	-	-	-NONE-	
B6.4	B-K-1	<u>INTEGRALLY WELDED SUPPORTS</u>	-	-	-	-NONE-	
B6.5	B-K-2	<u>SUPPORT COMPONENTS</u>	-	*	-	*INCLUDED IN TABLE 1.4 UNDER B4.10	
B6.6	B-M-1	<u>VALVE BODY WELDS</u>	-	-	-	-NONE-	
B6.7	B-M-2	<u>VALVE BODIES</u> (4 IN. NOM. PIPE SIZE)					
		REACTOR VESSEL SAFETY INJECTION LOW HEAD B	THREE	1	1	8843B	81-110
		RESIDUAL HEAT REMOVAL TAKE OFF A	THREE	1	1	8701A	A85-005
		PRESSURIZER SAFETY LINE A	THREE	1	1	8010A	A85-010
		RESIDUAL HEAT REMOVAL RETURN B	THREE	1	1	8793	A85-008
		ACCUMULATOR DISCHARGE A	THREE	1	1	8840A	83C-079
B6.8	B-P	<u>EXEMPTED COMPONENTS</u>	*	100%	*	ITEMS INSPECTED DURING EACH LEAKAGE TEST	INSPECTED BY PLANT PERSONNEL

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 1

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE 51.6

PAGE 2 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	<u>PRESSURE RETAINING BOLTING*</u>					* NOTE SUPPLEMENT B6.9 AT 3.4.3
		ACCUMULATOR DISCHARGE LOOP A - 12"	ONE THREE	16 16	16 16	CHECK, 8841A CHECK, 8840A	76-11 83C-122
		ACCUMULATOR DISCHARGE LOOP B - 12"	TWO THREE	16 16	16 16	CHECK, 8841B CHECK, 8840B	78-016 82-025
		RESIDUAL HEAT REMOVAL RETURN B - 10"	ONE	16	16	M.O. GATE, 8703	76-14
		RESIDUAL HEAT REMOVAL TAKE OFF A - 8"	ONE THREE	16 16	16 16	M.O. GATE, 8701A M.O. GATE, 8702A	76-8 81-91
		RESIDUAL HEAT REMOVAL TAKE OFF B - 8"	ONE ONE	16 16	16 16	M.O. GATE, 8701B M.O. GATE, 8702B	76-6 76-6
		SAFETY INJECTION HIGH HEAD B - 6"	TWO	12	12	CHECK, 8842A	79-37
		SAFETY INJECTION HIGH HEAD B - 6"	THREE	12	12	CHECK, 8842B	83C-047
		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

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE 51.6

PAGE 3 OF 4

MAJOR ITEM: VALVE PRESSURE BOUNDARY

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
B6.9	B-G-2	(CONT'D)					
		RESISTANCE TEMPERATURE DETECTOR RETURN LOOP B - 3"	ONE	12	12	GATE, 8001B	76-15
		RESISTANCE TEMPERATURE DETECTOR TAKE OFF COLD LEG A - 2"	TWO THREE	2 2	2 2	2T58, RC-1-7 2T58, RC-1-6	79-SP2-87 82-011
		RESISTANCE TEMPERATURE DETECTOR TAKE OFF COLD LEG B - 2"	TWO THREE	2 2	2 2	2T58, RC-1-17 2T58, RC-1-15	79-15 82-024
		RESISTANCE TEMPERATURE DETECTOR TAKE OFF HOT LEG A - 2"	TWO TWO THREE	2 2 2	2 2 2	2T58, RC-1-9 2T58, RC-1-10 2T58, RC-1-11	79-SP2-86 79-SP2-86 83C-046
		RESISTANCE TEMPERATURE DETECTOR TAKE OFF HOT LEG B - 2"	TWO TWO THREE	2 2 2	2 2 2	2T58, RC-1-13 2T58, RC-1-12 2T58, RC-1-14	79-17 79-SP2-88 82-007
		PRESSURIZER RELIEF LINES - 3"	TWO TWO THREE THREE	12 12 6 6	12 12 6 6	M.O. GATE, 8000A M.O. GATE, 8000B A.O. GATE, PCV-431C A.O. GATE, PCV-430	78-014 78-014 81-135 81-134
		REACTOR VESSEL SAFETY INJECTION LOW HEAD A - 6"	ONE TWO	12 12	12 12	CHECK, 8843A CHECK, 8844A	76-5 79-8
		LOW HEAD B - 6"	TWO THREE	12 12	12 12	CHECK, 8843B CHECK, 8844B	79-2 83C-093
		AUXILIARY SPRAY CVCS - 2"	THREE	6	6	A.O. GLOBE, 8143	82-009

NORTHERN STATES POWER CO.

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	TWO	2	2	2T58, RC-1-1	78-015
		CROSSOVER A - 2"	THREE	2	2	2T58, RC-1-2	81-92
		DEAIN LINE ON	TWO	2	2	2T58, RC-1-3	79-9
		CROSSOVER B - 2"	THREE	2	2	2T58, RC-1-4	81-119
		CHARGING LINE B - 2"	TWO	6	6	A.O. GLOBE, 8142	79-3
		LETDOWN LINE B - 2"	TWO	8	8	A.O. GLOBE, LCV-427	79-11
			TWO	2	2	2T58, RC-1-5	79-10
			THREE	8	8	A.O. GLOBE, LCV-428	81-115
		SEAL INJECTION A - 2"	ONE	2	2	2T58, VC-7-18	76-13
		SEAL INJECTION B - 2"	ONE	2	2	2T58, VC-7-19	76-16

COMPONENT/SYSTEM	NSP ISO	NDE METHOD	BASELINE IDENT.	REPORT NO.	BASELINE INDICATIONS	ISI INDICATIONS	EXAMINATION LIMITATIONS
REACTOR B1.18 CONTROL ROD DRIVE HOUSINGS							
PERIPHERAL CRD HOUSINGS	-	UT	CR-17	A85-007	NONE	S-1 ID GEO 20-47% OD GEO 20% S-2 ID GEO 50-90% OD GEO 20%	S-2 LIMITED DUE TO INSULATION
	-	UT	CR-33	A85-006	NONE	S-1 ID GEO 25-50% OD GEO 20% S-2 ID GEO 20-60%	S-2 LIMITED DUE TO INSULATION
REACTOR COOLANT PUMPS B5.6 PUMP CASING WELDS RCP #12 CASING WELD	61	PT	CASING WELD	A85-001	NONE	2 LINEARS ACCEPTABLE PER IWB-3518-2	LIMITED AT SUPPORT LEGS, APPROX. 7'-2" INACCESSIBLE
VALVES							
B6.7 VALVE BODIES							
RHR TAKE OFF A	3	VT	8701A	A85-005	NONE	NONE	NONE
RHR RETURN B	18	VT	8703	A85-008	NONE	NONE	NONE
PZR SAFETY LINE A	29	VT	8010A	A85-101	NONE	NONE	NONE

TABLE III
PAGE 1 OF 4

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

NPS 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

TABLE III
PAGE 2 OF 4

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-11	0	SEAL INJECTION (GENERAL VIEW)	A	1 1/2" x 2"	-	-
ISI-11A	0		A	1 1/2"	1 1/2-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	27 1/2"	27 1/2-RC-3A	14-A
ISI-13	0	REACTOR COOLANT	B	29"	29-RC-1B	14-A
			B	31"	31-RC-2B	14-A
			B	27 1/2"	27 1/2-RC-3B	14-A
ISI-14	0	R.C. PUMP A FLANGE BOLTING	A	-	-	-
ISI-15	0	R.C. PUMP A SEAL HOUSING BOLTING	A	-	-	-
ISI-16	0	R.C. PUMP A FLYWHEEL	A	-	-	-
ISI-17	0	ACCUMULATOR DISCHARGE	B	12"	12-RC-16B	11
			B	12"	12-SI-27B	11
ISI-18	0	RHR RETURN	B	10"	10-SI-26	10
ISI-19	0	RHR TAKEOFF (GENERAL VIEW)	B	8"	-	-
ISI-19A	0		B	8"	8-RH-1B	8
ISI-19B	0		B	8"	8-RC-15B	8
ISI-20	0	SAFETY INJECTION HIGH HEAD	B	6"	6-RC-13D	6
ISI-21	0	RTD RETURN	B	3"	3-RC-6B	4
ISI-22	0	RTD TAKEOFF COLD LEG	B	2"	2-RC-8B	3

NORTHERN STATES POWER CO.
PRAIRIE ISLAND UNIT 1
ISOMETRIC SUMMARY

TABLE III
PAGE 3 OF 4

NSP ISO NUMBER	REVISION	COMPONENT OR SYSTEM	LOOP	LINE SIZE	LINE NUMBER	WT - 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 EXAMINATIONS

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 1

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S2.1.2

PAGE 1 OF 1

MAJOR ITEM: PRESSURE VESSELS - ACCUMULATORS

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
C1.1	C-A	<u>CIRCUMFERENTIAL BUTT WELDS*</u> ACCUMULATOR NO. 11 WELD 6 ACCUMULATOR NO. 12	THREE -	20% -	100% -	* (3 AREAS EQUALLY DIVIDED) W-6	A85-002, 003, 004
C1.2	C-B	NOZZLE TO VESSEL WELDS ACCUMULATOR NO. 11 ACCUMULATOR NO. 12	- -	- -	- -		
C1.3	C-C	<u>INTERNALLY WELDED SUPPORTS</u> ACCUMULATOR NO. 11 ACCUMULATOR NO. 12	- THREE	- 24	- 24		82-115

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 1

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S2.2.5

PAGE 1 OF 4

MAJOR ITEM: PIPING-INTEGRALLY WELDED SUPPORT

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
C2.5	C-E-1	<u>INTEGRALLY WELDED SUPPORTS</u>					
		MAIN STEAM A 30-MS-1	TWO THREE	1 2	1 2	G C, E	79-38, 39 82-049,098,117,124
		MAIN STEAM B 30-MS-2	TWO THREE	1 1	1 1	B F	79-121, 124 81-149
		MAIN STEAM A RELIEF HDR, 30-MS-1	-	-	-		
		MAIN STEAM B RELIEF HDR, 30-MS-2	TWO	1	1	L	80A-27, 28
		MAIN STEAM A 31-MS-1	TWO	1	1	I	80A-30
		MAIN STEAM B 31-MS-2	ONE THREE	1 2	1 2	H J, N	77-81 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	1	A	83C-100, 064
		MAIN STEAM B 32-MS-2	TWO	1	1	D	80A-64, 83

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 1

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S2.2.5

PAGE 2 OF 4

MAJOR ITEM: PIPING-INTEGRALLY WELDED SUPPORT

SUB ITEM	EXAM 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
			THREE	2	2	R, S, L, LL	79-SP2-43, 48, 49, 45
						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

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 1

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S2.2.5

PAGE 3 OF 4

MAJOR ITEM: PIPING-INTEGRALLY WELDED SUPPORT

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
C2.5	C-E-1	(CONT'D)					
		RESIDUAL HEAT REMOVAL DISCHARGE					
		6-RH-10A BRANCH 2	TWO	1	1	L	80-79, 102
		6-RH-10B BRANCH 2	TWO THREE	2 1	2 1	I, J H	80-84, 85/81-59, 57 83C-094
		8-RH-7A	THREE	1	1	B	82-075, 079
		8-RH-7B	TWO THREE	1 1	1 1	A C	80-28, 30, 30R 83C-095
		10-RH-11	ONE TWO THREE	1 1 1	1 1 1	S Q P	77-120 79-98, 99 83C-097, 107
		8-RH-9A	THREE	1	1	E	82-074, 078
		8-RH-9B	TWO	1	1	V	80-26, 27, 27R
		RESIDUAL HEAT REMOVAL SUCTION					
		10-RH-3	TWO	3	3	A F, G	79-78, 84, 84R 80-90, 91, 91R, 68, 77
			THREE	2	2	A D B1	80A-58, 82, 82R 82-058, 059 83C-101, 041
		8-RH-4A	TWO	1	1	O	80-80, 100
		8-RH-4B	-	-	-		

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S2.2.5

PAGE 4 OF 4

MAJOR ITEM:

PIPING-INTEGRALLY WELDED SUPPORT

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
62.5	C-E-1	(CONT'D)					
		12-RH-5A	TWO	1	1	Q	80-61, 64
		12-RH-5B	THREE	1	1	B	81-52, 2
		SAFETY INJECTION PUMP SUCTION					
		8-SI-18	TWO THREE	1 2	1 2	A B, J	80-108, 109 81-37, 38, 48, 49
		6-SI-13A	THREE	1	1	E	81-15, 19
		12-SI-11	THREE	1	1	C	81-36, 35, 35R, 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
		6-SI-25B	ONE THREE	1 2	1 2	A (REPEAT) F I F	80A-55, 60 77-21 82-062, 062R, 063 83C-040, 098
		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	-	-	-		

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 1

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S2.1.2

PAGE 1 OF 1

MAJOR ITEM: PRESSURE VESSELS - ACCUMULATORS

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
C1.1	C-A	<u>CIRCUMFERENTIAL BUTT WELDS*</u> ACCUMULATOR NO. 11 WELD 6 ACCUMULATOR NO. 12	THREE -	20% -	100% -	* (3 AREAS EQUALLY DIVIDED) W-6	A85-002, 003, 004
C1.2	C-B	NOZZLE TO VESSEL WELDS ACCUMULATOR NO. 11 ACCUMULATOR NO. 12	- -	- -	- -		
C1.3	C-C	<u>INTERNALLY WELDED SUPPORTS</u> ACCUMULATOR NO. 11 ACCUMULATOR NO. 12	- THREE	- 24	- 24		82-115

NORTHERN STATES POWER CO.

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	<u>INTEGRALLY WELDED SUPPORTS</u>					
		MAIN STEAM A 30-MS-1	TWO THREE	1 2	1 2	G C, E	79-38, 39 82-049,098,117,124
		MAIN STEAM B 30-MS-2	TWO THREE	1 1	1 1	B F	79-121, 124 81-149
		MAIN STEAM A RELIEF HDR, 30-MS-1	-	-	-		
		MAIN STEAM B RELIEF HDR, 30-MS-2	TWO	1	1	L	80A-27, 28
		MAIN STEAM A 31-MS-1	TWO	1	1	I	80A-30
		MAIN STEAM B 31-MS-2	ONE THREE	1 2	1 2	H J, N	77-81 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	1	A	83C-100, 064
		MAIN STEAM B 32-MS-2	TWO	1	1	D	80A-64, 83

NORTHERN STATES POWER CO.

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)					
		FEEDWATER A					
		16-FW-12	THREE	2	2	P, U	81-173, 194, 153, 152
		16-FW-13	TWO	9	9	Q Q, R, S T, U V, W X, QQ T, X	79-122, 132 79-SP2-3/35, 36, 37 79-SP2-3/38, 38R, 42 79-SP2-3/41, 40 79-SP2-3/39, 39R, 34 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 R, S, L, LL P, S	79-SP2-46, 50, 47, 44 79-SP2-43, 48, 49, 45 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

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 1

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S2.2.5PAGE 3 OF 4MAJOR ITEM: PIPING-INTEGRALLY WELDED SUPPORTS

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
C2.5	C-E-1	(CONT'D)					
		RESIDUAL HEAT REMOVAL DISCHARGE					
		6-RH-10A BRANCH 2	TWO	1	1	L	80-79, 102
		6-RH-10B BRANCH 2	TWO THREE	2 1	2 1	I, J H	80-84, 85/81-59, 57 83C-094
		8-RH-7A	THREE	1	1	b	82-075, 079
		8-RH-7B	TWO THREE	1 1	1 1	A C	80-28, 30, 30R 83C-095
		10-RH-11	ONE TWO THREE	1 1 1	1 1 1	S Q P	77-120 79-98, 99 83C-097, 107
		8-RH-9A	THREE	1	1	E	82-074, 078
		8-RH-9B	TWO	1	1	V	80-26, 27, 27R
		RESIDUAL HEAT REMOVAL SUCTION					
		10-RH-3	TWO	3	3	A F, G	79-78, 84, 84R 80-90, 91, 91R, 68, 77
			THREE	2	2	A D B1	80A-58, 82, 82R 82-058, 059 83C-101, 041
		8-RH-4A	TWO	1	1	O	80-80, 100
		8-RH-4B	-	-	-		

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S2.2.5
PAGE 4 OF 4

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	2	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
		6-SI-25B	ONE	1	1	A (REPEAT)	80A-55, 60
			THREE	2	2	F	77-21
						I	82-062, 062R, 063
						F	83C-040, 098
		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	-	-	-		

COMPONENT/SYSTEM	NSP ISO	NDE METHOD	BASELINE IDENT.	REPORT NO.	BASELINE INDICATIONS	ISI INDICATIONS	EXAMINATION LIMITATIONS
ACCUMULATORS							
C1.1 CIRCUMFERENTIAL BUTT WELDS							
ACCUMULATOR #11	86	UT	W-6	A85-002	NONE	NONE	SWEEP-0-LET AT 7.5' & 2-3/4" UPSTREAM
	86	UT		A85-004		S-1 ID GEO 200% ID GEO 45% ID GEO 130% S-2 ID ROLL 40% S-3 SPOT 20% S-4 SPOT <20%	SAME AS ABOVE
	86	UT		A85-003		S-1 SPOT @ 2.2' 25% ID CLAD S-2 SPOT @ 3" 25% ID CLAD	SAME AS ABOVE

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

PAGE 1 OF 3
TABLE III

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

NORTHERN STATES POWER CO.
PRAIRIE ISLAND UNIT 1
ISOMETRIC SUMMARY

PAGE 2 OF 3
TABLE III

NSP ISO NUMBER	REVISION	COMPONENT OR SYSTEM	LOOP	LINE SIZE	LINE NUMBER	WT - CAL. STANDARD
1S1-76	0	RHR PUMP B SUCTION (WELDS)	B	8"	8-RH-4B	29
1S1-77	0	RHR PUMP B SUCTION (HANGERS)	B	8"	8-RH-5A	29
			B	12"	12-RH-5B	32
			B	12"	12-RH-6B	32
			B	10"	10-S1-9B	22
1S1-78	0	RHR PUMP B DISCHARGE (WELDS)	B	8"	8-RH-7B	29
1S1-79	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 _____
1S1-80	0	REFUELING WATER STORAGE (WELDS)	-	14"	14-S1-1	NO _____
		TANK DISCHARGE		12"	12-S1-3A	33
1S1-81	0	REFUELING WATER STORAGE (HANGERS)		12"	12-S1-3B	33
		TANK DISCHARGE		12"	12-S1-4	33
				10"	10-S1-8	31
				12"	12-S1-11	NO _____
1S1-82	0	SAFETY INJECTION PUMPS SUCTION (WELDS)	-	12"	12-S1-11	NO _____
1S1-83	0	SAFETY INJECTION PUMPS SUCTION (HANGERS)		6"	6-S1-13A	NO _____
				6"	6-S1-13B	28
				8"	8-S1-17	30
				8"	8-S1-18	30
1S1-84	0	BORIC ACID SUPPLY	-	8"	8-S1-18	NO _____
1S1-85	0	ACCUMULATOR DISCHARGE (WELDS)	A	12"	12-S1-28A	11
1S1-86	0	ACCUMULATOR DISCHARGE (HANGERS)	A	12"	12-S1-29A	11
			B	12"	12-S1-28B	11
			B	12"	12-S1-29B	11

NORTHERN STATES POWER CO.
 PRAIRIE ISLAND UNIT 1
 ISOMETRIC SUMMARY

PAGE 3 OF 3
 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
SEISMIC BOLTING EXAMINATIONS

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT

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	<u>STEAM GENERATORS</u>					
		<u>STEAM GENERATOR NO. 11</u>					
		UPPER RING GIRDER (SNUBBER PINS)	ONE TWO TWO THREE	2 2 8 4	2 2 8 4	SNUBBER 1 SNUBBER 2 SNUBBER 1 THRU 4 SNUBBER 1 THRU 4	77-132, 4 79-117 80A-115 82-128
		UPPER RING GIRDER (SNUBBER WALL BOLTS)	ONE TWO TWO THREE	5 5 15 5	5 5 15 5	TOP ROW CENTER ROW ALL BOLTS BOTTOM ROW	77-3 79-63 80A-111 82-132
		UPPER RING GIRDER (SNUBBER WALL BOLTS)	ONE TWO TWO THREE	8 8 32 16	8 8 32 16	TOP ROW ON GIRDER TOP ROW ON WALL ALL BOLTS BOTTOM ROW ON WALL	77-4 79-64 80A-114, 116 82-105
		UPPER RING GIRDER (WALL BOLTS)	TWO THREE	30 5	30 5	PAD 1 THRU 4 PAD 3	80A-119 82-130
		UPPER RING GIRDER (RING CONNECTING BOLTS)	TWO THREE	40 40	40 40	PAD 1 THRU 4 PAD 1 THRU 4	80A-117, 118, 118R, 122 81-267, 268, 268R
		UPPER RING GIRDER (SPRING HANGER)	THREE	2	2	SGH-1, 2	A85-009
		COLUMN PINS	ONE TWO TWO THREE	2 2 8 4	2 2 8 4	COLUMN 1 COLUMN 2 COLUMN 1-4 TOP & BOTTOM COLUMN 3 & 4	77-130 79-132, 133 80A-86, 95 83C-136, 139

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 1

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE SB
PAGE 2 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	(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	8	TOP OF COLUMN 3&4	83C-125, 129
		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
					12	COLUMN 3 & 4	83C-128, 130
		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	28	PAD 2, 3, & 4	83C-088
		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	4	FIXTURE 3	83C-089
		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

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 1

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE 3 SB
PAGE 3 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	(S.G. NO. 12 CONT'D)					
		UPPER RING GIRDER (SNUBBER WALL BOLTS)	ONE TWO TWO THREE	5 5 15 5	5 5 15 5	TOP ROW CENTER ROW ALL BOLTS BOTTOM ROW	77-4 79-62 80A-135 82-131
		UPPER RING GIRDER (SNUBBER BOLTS)	ONE TWO TWO THREE	8 8 32 16	8 8 32 16	TOP ROW ON GIRDER TOP ROW ON WALL ALL BOLTS BOTTOM ROW ON WALL	77-3 79-65 80A-132, 137 82-104
		UPPER RING GIRDER (WALL BOLTS)	TWO THREE	30 5	30 5	PAD 1 THRU 4 PAD 3	80A-134 82-129
		UPPER RING GIRDER (RING CONNECTING BOLTS)	TWO THREE	40 40	40 40	PAD 1 THRU 4 PAD 1 THRU 4	80A-131, 136, 136R 81-280, 280R
		UPPER RING GIRDER (SPRING HANGER)	TWO THREE	2 2	2 2	SGH-3, SGH-4 SGH-2, SGH-4	80A-138, 139 82-031, 032, 032R
		COLUMN PINS	ONE TWO TWO THREE	2 2 8 4	2 2 8 4	COLUMN 1 COLUMN 2 COLUMN 1 THRU 4 TOP & BOTTOM COLUMN 3 & 4	77-130 79-136, 137 80A-86 83C-131, 142
		BASE ANCHOR BOLTS	ONE TWO TWO THREE	8 8 32 16	8 8 32 16	BASE OF COLUMN 1 BASE OF COLUMN 2 BASE OF COLUMN 1 THRU 4 BASE OF COLUMN 3 AND 4	77-3 79-57 80A-113 82-108

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE 4 SB
PAGE 4 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	(S.G. NO. 12 CONT'D)					
		TOP COLUMN CONNECTING BOLTS	ONE TWO TWO	4 4 16	4 4 16	TOP OF COLUMN 1 TOP OF COLUMN 2 TOP OF COLUMN 1 THRU 4	77-3 79-110 80A-124
			THREE	8	8	TOP OF COLUMN 3&4	83C-126
		SUPPORT PAD HELI-COIL SCREWS	ONE TWO TWO THREE	6 6 24 24	6 12 24 24 12	3)COL.3&3)COL.4 COLUMNS 1 AND 2 ALL HELICOIL SCREWS ALL HELICOIL SCREWS COLUMN 3&4	77-128 79-119, 120 80A-141 81-246 83C-127
		LOWER LATERAL SUPPORT ANCHOR BOLTS TO WALL	ONE TWO TWO THREE	14 14 44 16	14 14 44 16	PAD 1 PAD 2 PAD 1 THRU 5 PAD 3, 4, & 5	77-3 79-112 80A-106 83C-081
		LATERAL SUPPORT WALL BOLTS	ONE TWO TWO THREE	4 4 12 4	4 4 12 4	FIXTURE 1 FIXTURE 2 FIXTURE 1 THRU 3 FIXTURE 3	77-3 79-11 80A-106 83C-080
		CONNECTING BOLTS IN LATERAL BEAM	ONE TWO TWO	5 5 16	16 16 16	16 EXAMINED 16 EXAMINED ALL BOLTS	77-3 79-60 80A-123
			THREE	6	16	(REPEAT INSPECTION) ALL BOLTS	83C-087, 121
		<u>PRESSURIZER</u>					
		BASE ANCHOR	ONE TWO TWO THREE	8 8 24 8	8 8 24 8	1-8 BOLTS 9-16 BOLTS 1-24 BOLTS 17-24 BOLTS	77-6 79-66 80A-107 82-111

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 1

INSERVICE INSPECTION-EXAMINATION SUMMARY

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

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
N/A	N/A	<u>ACCUMULATOR A</u>					
		BASE ANCHOR BOLTS	ONE	8	8	1-8 BOLTS	77-5
			TWO	8	8	9-16 BOLTS	79-67
			TWO	24	24	1-24 BOLTS	80A-96
			THREE	8	8	17-24 BOLTS	83C-057
		<u>ACCUMULATOR B</u>					
		BASE ANCHOR BOLTS	ONE	8	8	1-8 BOLTS	77-5
			TWO	8	8	9-16 BOLTS	79-68
			TWO	24	24	1-24 BOLTS	80A-96
			THREE	8	8	17-24 BOLTS	82-112
		<u>REACTOR COOLANT PUMPS</u>					
		<u>PUMP NO. 11</u>					
		COLUMN PINS	ONE	2	2	COLUMN 1	77-131
			TWO	2	2	COLUMN 2	79-134, 135
			TWO	6	6	COLUMN 1 THRU 3 TOP & BOTTOM	80A-84, 93
			THREE	2	2	COLUMN 3	83C-133, 134
		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

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 1

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE SB
PAGE 6 OF 7

MAJOR ITEM: SEISMIC BOLTING

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
N/A	N/A	(PUMP NO. 11 CONT'D)					
		COLUMN CONNECTING BOLTS	ONE	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	6	TOP OF COLUMN 3	83C-141
		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	1	PAD 3	83C-132
		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	3	PAD 3	83C-056
		<u>PUMP NO. 12</u>					
		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	2	COLUMN 3	83C-138

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	6	TOP OF COLUMN 3	83C-140
		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	1	COLUMN 3	83C-137
		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	1	PAD 1	83C-145
		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	2	PAD 1	83C-054
		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	3	PAD 3	83C-053

COMPONENT/SYSTEM	NSP ISO	NDE METHOD	BASELINE IDENT.	REPORT NO.	BASELINE INDICATIONS	ISI INDICATIONS	EXAMINATION LIMITATIONS
STEAM GENERATORS							
S/G #11							
UPPER RING GIRDER	70	VT	SGH-1	A85-009	NONE	NONE	NONE
SPRING HANGERS	70	VT	SGH-2	A85-009	NONE	NONE	NONE

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

TABLE III

PAGE 1 OF 1

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 D

TABLE I - PERSONNEL LISTING

TABLE II - ULTRASONIC CALIBRATION BLOCKS

TABLE III - PROCEDURE LISTING

TABLE IV - EQUIPMENT AND MATERIALS

NORTHERN STATES POWER COMPANY
PRAIRIE ISLAND
PERSONNEL LISTING

APPENDIX D
TABLE I
PAGE 1 OF 2

EXAMINER	TITLE	ORGANIZATION	ASNT LEVEL					
			UT	PT	MT	VT	ET	RT
Cappel, R M	Technician	LMT (2)	I	II	II	II ^(1a,b)	-	-
Carraher, T G	Technician	LMT	I	II	II	II ^(1a)	-	-
Hall, D A	Technician	LMT	II	-	-	-	-	-
Kellerhall, R A	Supervisor	LMT	III	III	III	III ^(1ab)	-	-
Kimball, T	Technician	LMT	II	II	II	II ^(1a)	-	-
MacGill, D B	Data Mgmt	LMT	III	III	III	III ^(1a)	II	-
Voss, A W	Technician	LMT	I	-	-	-	-	-
Conrad, G E	Technician	W (3)	-	-	-	II	-	-
Enfield, B A	Coordinator	W	III	-	-	-	-	-
Farrell, G	Supervisor	W	-	-	-	-	-	-
Graw, J H	Technician	W	II	-	-	-	-	-
Haines, R A	Technician	W	III	-	-	-	-	-
Hughes, R W	Technician	W	-	-	-	II	-	-
Kurek, D	Supervisor	W	III	III	III	II	-	-
Markle, L E	Technician	W	II	-	-	-	-	-
Pushnik, G	Technician	W	II	-	-	-	-	-
Scroeder, T	Supervisor	W	-	-	-	-	-	-
Walsh, T J	Technician	W	II	-	-	-	-	-
Anderson, M T	M&SP Engr	NSP	III	III	III	III ^(1a)	-	III
Dahlman, L C	M&SP Spec	NSP	II	III	III	III ^(1a,b)	-	III

NORTHERN STATES POWER COMPANY
PRAIRIE ISLAND
PERSONNEL LISTING

APPENDIX D
TABLE I
PAGE 2 OF 2

EXAMINER	TITLE	ORGANIZATION	ASNT LEVEL					
			UT	PT	MT	VT	ET	RT
Hughes, R	ANII	Hartford Steam Boiler						
Brusseau, F	ANII	Hartford Steam Boiler						

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 Qualification were judged to be adequate to perform visual examination in accordance with NSP-VT-1.
- (2) Organization: Lambert, MacGill, Thomas, Inc. (LMT)
515 Aldo Avenue
Santa Clara, CA 95050
- (3) Organization: Westinghouse Electric Corporation (W)
Nuclear Services Division
P.O. Box 2728
Pittsburgh, PA 15230

NORTHERN STATES POWER COMPANY

PRAIRIE ISLAND UNIT I
ULTRASONIC CALIBRATION BLOCKS

APPENDIX D

TABLE II

PAGE 1 of 1

NSP No.	SIZE & DIA.	PIPE SCHEDULE & THICKNESS		MATERIAL	SERIAL OR HEAT NUMBER	CALIBRATION REPORTS	DATE
37	W=6"	L=12"	T=1.5" + Clad	SA 516 GR 70	8733967	DAH-1-1 DAH-1-2 TK-1-1	1-18-85 1-19-85 1-18-85
39	4"		.598"	SA182 F304	M7853	TK-1-2	2-1-85

NORTHERN STATES POWER COMPANY
PRAIRIE ISLAND - UNIT I
PROCEDURE LISTING

APPENDIX D
TABLE III
PAGE 1 of 2

PROCEDURE NUMBER AND REVISION	FIELD CHANGE	PROCEDURE TITLE	PLANT APPROVAL DATE	FIELD CHANGE REMARKS	CHANGE DESCRIPTION
NSP-PT-1, Rev 2	NONE	Liquid Penetrant Examination	6-23-83	NONE	Change thickness from 2.5" to 1.0" for examination of accumulator
NSP-UT-1, Rev 1	NONE	Ultrasonic Examination Of Piping Welds	6-23-83	NONE	
NSP-UT-2, Rev 1	NONE	Automatic Data Recording	6-23-83	NONE	
NSP-UT-3, Rev 1	1	Ultrasonic Examination of Ferritic Vessels	1-29-85	NONE	
NSP-VT-1, Rev 2	NONE	Visual Examination	6-23-83	NONE	
NSP-VT-2, Rev 2	NONE	Visual Examination of Hanger Assemblies	6-23-83	NONE	
NSP-VT-3, Rev 2	NONE	Visual Examination of Pump and Valve Internal Pressure Boundary Surfaces	6-23-83	NONE	
ISI-88, Rev 1	NONE	Remove Visual Examination of Reactor Vessel Internals	1-15-85	NONE	
ISI-154, Rev 3	NONE	Preservice and Inservice Inspection of Reactor Vessels	1-15-85	NONE	
OPS-NSD-101, Rev 5	NONE	Preservice and Inservice Inspection Documentation	1-15-85	NONE	

NORTHERN STATES POWER COMPANY
PRAIRIE ISLAND - UNIT I
PROCEDURE LISTING

APPENDIX D
TABLE III
PAGE 2 of 2

PROCEDURE NUMBER AND REVISION	FIELD CHANGE	PROCEDURE TITLE	PLANT APPROVAL DATE	FIELD CHANGE REMARKS	CHANGE DESCRIPTION
NSD-ISI-10, Rev 6	NONE	Qualification of Ultrasonic Manual Equipment	1-15-85	NONE	
ISI-55, Rev 0	NONE	Manual Ultrasonic Examination of Ligament Areas	1-15-85	NONE	

NORTHERN STATES POWER COMPANY

EQUIPMENT AND MATERIALS

 APPENDIX IV ^D
 TABLE 1
 PAGE OF 3

MATERIAL OR EQUIPMENT	TYPE OR SERIAL NUMBER	CALIBRATION DATE OR BATCH NUMBER	REMARKS
<u>ULTRASONIC:</u>			
NORTEC 131D	s/n 273	cal: 12-05-84	
NORTEC 131D	s/n 111	cal: 12-11-84	
NORTEC 131D	s/n 417	cal: 12-19-84	
<u>RECORDERS:</u>			
GOULD 220	s/n 18940	cal: 12-20-84	
GOULD 220	s/n 19023	cal: 09-06-84	
GOULD 220	s/n 19016	cal: 08-30-84	
<u>TEMP. GAUGES:</u>			
PTC SURFACE THERMOMETERS	s/n 676	cal: 11-26-84	Certified by Manufacturer
	s/n 657	cal: 11-26-84	
	s/n 660	cal: 11-26-84	
<u>ROMPAS BLOCKS:</u>			
4140 CS	s/n 011	cert: 09-08-77	Orla's Machine Shop Earle H Jorgenson Co.
304 SS	s/n 043	cert: 03-20-84	
<u>MATERIALS:</u>			
PENETRANT MAGNAFLUX SPOTCHECK	Penetrant Remover/Cleaner Developer	batch #83M051 batch #82G049 batch #84C057	type: SKL-HF/S type: SKC-NF/ZC-7B type: SKD-NF/ZP-9B
ULTRASONIC COUPLANT	LMT-GEL	batch #61384	
<u>ULTRASONIC TRANSDUCERS:</u>	<u>S/N:</u>	<u>SIZE:</u>	<u>FREQUENCY:</u>
HARISONIC	s/n V6271	3/4" dia	2.25 MHZ
HARISONIC	s/n R3162	1/2" x 1"	2.25 MHZ
HARISONIC	s/n A52	1/2" x 1"	2.25 MHZ
KB AEROTECH	s/n 30122	.375" dia	2.25 MHZ
<u>WESTINGHOUSE VESSEL EQUIPMENT:</u>			
<u>ULTRASONIC</u>			
INTERFACE	s/n 00834	cal: 10-03-84	
MARK IV	s/n 00835	cal: 12-26-84	
RECEIVER	s/n 00849	cal: 11-04-84	
MONITOR GATE	s/n 0243	cal: 11-03-84	
DATA DISPLAY	s/n 02434	cal: 11-06-84	
LCD030585RLA04-LT			

EQUIPMENT AND MATERIALS

MATERIAL OR EQUIPMENT	TYPE OR SERIAL NUMBER	CALIBRATION DATE OR BATCH NUMBER	REMARKS
SERIAL DATA LINK PULSER/PRE AMP EBS	s/n 00860 s/n 05781E s/n 00855	cal: 11-05-84 cal: 11-05-84 cal: 10-03-84	
<u>TRANSDUCERS</u>	<u>S/N</u>	<u>Size</u>	<u>Frequency</u>
HARISONIC	Y6058	1-1/2" dia	2.25 MHZ
HARISONIC	Y6063	1-1/2" dia	2.25 MHZ
HARISONIC	Y6059	1-1/2" dia	2.25 MHZ
HARISONIC	Y6050	1-1/2" dia	2.25 MHZ
HARISONIC	Y6057	1-1/2" dia	2.25 MHZ
HARISONIC	Y6054	1-1/2" dia	2.25 MHZ
TECHNISONIC	T2228	1-1/2" dia	2.25 MHZ
HARISONIC	W4273	1-1/2" dia	2.25 MHZ
HARISONIC	Y6060	1-1/2" dia	2.25 MHZ
HARISONIC	Y6061	1-1/2" dia	2.25 MHZ
HARISONIC	W4271	1-1/2" dia	2.25 MHZ
HARISONIC	Y6064	1-1/2" dia	2.25 MHZ
HARISONIC	Y7424	1-1/2" dia	2.25 MHZ
HARISONIC	W4253	1-1/2" dia	2.25 MHZ
HARISONIC	V6456	1-1/2" dia	2.25 MHZ
HARISONIC	W4378	3/4" dia	1.0 MHZ
TECHNISONIC	T2234	3/4" dia	1.0 MHZ
TECHNISONIC	T2233	3/4" dia	1.0 MHZ
HARISONIC	Y6078	3/4" dia	1.0 MHZ
HARISONIC	Y7425	1-1/2" dia	2.25 MHZ
HARISONIC	Y6066	1-1/2" dia	2.25 MHZ
TECHNISONIC	Y2227	1-1/2" dia	2.25 MHZ
HARISONIC	Y6056	1-1/2" dia	2.25 MHZ
HARISONIC	Y6065	1-1/2" dia	2.25 MHZ
HARISONIC	Y7427	1-1/2" dia	2.25 MHZ
HARISONIC	Y7420	1-1/2" dia	2.25 MHZ
HARISONIC	Y7421	1-1/2" dia	2.25 MHZ
HARISONIC	Y7422	1-1/2" dia	2.25 MHZ
HARISONIC	V6488	3/4" dia	2.25 MHZ
AEROTECH	E21204	1" x .5"	5.0 MHZ
ULTRAN	32704	1" dual	2.25 MHZ
ULTRAN	32701	1" dual	2.25 MHZ
ULTRAN	32702	1" dual	2.25 MHZ
ULTRAN	33101	1" dual	2.25 MHZ
HARISONIC	Y12171	.5" x .5"	2.25 MHZ
HARISONIC	Y12174	.5" x .5"	2.25 MHZ
HARISONIC	Y11564	.5" x .5"	2.25 MHZ
HARISONIC	Y11565	.5" x .5"	2.25 MHZ
LCD030585RLA04-LT			

NORTHERN STATES POWER COMPANY

EQUIPMENT AND MATERIALS

APPENDIX IV ^D
TABLE 3
PAGE 3 OF 3

MATERIAL OR EQUIPMENT	TYPE OR SERIAL NUMBER	CALIBRATION DATE OR BATCH NUMBER	REMARKS
WESTINGHOUSE MANUAL EXAMINATIONS			
MARK I ULTRASONIC COUPLANT	s/n 00869E SONATRAK 40	cal: 2-2-85 batch #8440	
<u>TRANSDUCERS:</u>			
AEROTECH	D17921	1" dia	2.25 MHZ
AEROTECH	S783924	1/2" dia	5.0 MHZ
LCD030585RLA04-LT			

APPENDIX E

FORM NIS-1

OWNERS' DATA REPORT FOR INSERVICE INSPECTION

FORM NIS-1 OWNERS' DATA REPORT FOR INSERVICE INSPECTIONS

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

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

<u>Component or Appurtenance</u>	<u>Manufacturer or Installer</u>	<u>Manufacturer or Installer Serial No.</u>	<u>State or Province No.</u>	<u>National Board No.</u>
B1.0 <u>REACTOR VESSEL</u>	CREUSOT-LOIRE	686	MINN 200-51	---
<u>B1.1 LONGITUDINAL AND CIRCUMFERENTIAL SHELL WELDS IN CORE REGION</u>				
<u>CIRCUMFERENTIAL</u>				
WELD NO. 3				
<u>B1.2 LONGITUDINAL AND CIRCUMFERENTIAL WELDS IN SHELL AND MERIDINAL AND</u>				
<u>CIRCUMFERENTIAL SEAM WELDS IN BOTTOM HEAD</u>				
CIRCUMFERENTIAL CREUSOT-LOIRE		---	---	---
WELD NO. 2				
WELD NO. 4				
WELD NO. 5				
<u>B1.3 VESSEL-TO-FLANGE CIRCUMFERENTIAL WELD</u>				
VESSEL-TO-FLANGE, W-1	CREUSOT-LOIRE	---	---	---
STUD HOLES 15, 18-22, 30-31, and 44-3				
<u>B1.4 PRIMARY NOZZLE-TO-VESSEL WELDS AND NOZZLE INSIDE RADIUS SECTION</u>				
REACTOR CORE COOLANT INLET NOZZLES	CREUSOT-LOIRE	---	---	---
WELD 6, 9				
SAFETY INJECTION NOZZLES	CREUSOT-LOIRE	---	---	---
WELD 8, 11				

FORM NIS-1 OWNERS' DATA REPORT FOR INSERVICE INSPECTIONS

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

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

<u>Component or Appurtenance</u>	<u>Manufacturer or Installer</u>	<u>Manufacturer or Installer Serial No.</u>	<u>State or Province No.</u>	<u>National Board No.</u>
B1.6 NOZZLE-TO-SAFE END WELDS REACTOR CORE COOLANT INLET NOZZLES RCC-A-14 S.E. RCC-B-14 S.E.	CREUSOT-LOIRE	---	---	---
B1.9 LIGAMENTS BETWEEN THREADED STUD HOLES STUD HOLES 15, 18-22, 30-36, and 44-3	CREUSOT-LOIRE	---	---	---
B1.12 INTERNALLY WELDED VESSEL SUPPORTS SUPPORTS A AND B	CREUSOT-LOIRE	---	---	---
B1.4 VESSEL CLADDING CLAD PATCHES VCP-5, VCP-6	CREUSOT-LOIRE	---	---	---
B1.5 VESSEL INTERIOR UPPER AND LOWER INTERNALS	CREUSOT-LOIRE	---	---	---
B1.7 REMOVABLE CORE SUPPORT STRUCTURES CORE SUPPORT AND ASSOCIATED ITEMS	CREUSOT-LOIRE	---	---	---

FORM NIS-1 OWNERS' DATA REPORT FOR INSERVICE INSPECTIONS

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

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B1.8 CONTROL ROD DRIVE HOUSINGS PERIPHERAL CRD HOUSINGS CR - 17, 33	CREUSOT-LOIRE	---	---	---
B5.0 REACTOR COOLANT PUMPS				
B5.6 REACTOR CORE COOLANT PUMP CASING WELDS REACTOR CORE COOLANT PUMP NO. 12	WESTINGHOUSE	W562	---	---
B6.7 VALVE BODIES RESIDUAL HEAT REMOVAL, TAKE OFF A 8701	NAVCO	---	---	---
RESIDUAL HEAT REMOVAL RETURN B 8703	NAVCO	---	---	---
PRESSURIZER SAFETY LINE A 1-8010A	NAVCO	---	---	---

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C1.1 CIRCUMFERENTIAL BUTT WELDS				
ACCUMULATOR	DELTA	41038-70-1	---	2554
NO. 11 W-6	SOUTHERN			

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SEISMIC BOLTING				
STEAM GENERATOR	WESTINGHOUSE	1101	---	68-24
NO. 11				
UPPER RING				
GIRDER SPRING				
HANGERS				
SGH-1, SGH-2				

FORM NIS-1 (back)

- 8.) Examination Dates 1-14-85 to 2-22-85 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 last inservice inspection conducted for inspection period three of the first ten year interval. The examinations completed all items required for the first interval.
- 11.) Abstract of Conditions Noted.
- The only anomalies detected were two linear PT indications on the O.D. surface of reactor coolant pump no. 12.
- 12.) Abstract of Corrective Measures Recommended and Taken.
- The anomalies were accepted based on the acceptance standard of the 1980 edition of ASME Section XI and found to be within the allowable limitations of table 1WB-3518-2.

We certify that the statements made in this report are correct and the examinations and corrective measures taken conform to the rules of the ASME Code, Section XI.

Date May 1 19 85 Signed Arthur States Power Company By Ray C. Sullivan
Owner

Certificate of Authorization No. (if applicable) -- Expiration Date --

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 NATROGAN STEAM BOILER of NATROGAN, CT have in-spected the components described in this Owner's Data Report during the period 1-14-85 to 2-22-85, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owners' Data Report in accordance with the requirements of the ASME Code, Section XI.

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

Date MAY 1 19 85

Ray C. Sullivan
Inspector's Signature

Commissions NB 9904 MN 85-34
National Board, State, Province & No