NSP

MONTICELLO NUCLEAR GENERATING PLANT

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INSERVICE INSPECTION-EXAMINATION SUMMARY
MONTICELLO NUCLEAR GENERATING PLANT - UNIT 1
FEBRUARY 21 TO MARCH 28, 1980

REFUELING OUTAGE NO. 7
INSPECTION PERIOD 3

NORTHERN STATES POWER COMPANY

REPORT DATE:
April 23, 1980

MINNEAPOLIS, MINNESOTA

COMMERCIAL SERVICE
DATE: JUNE 30, 1971

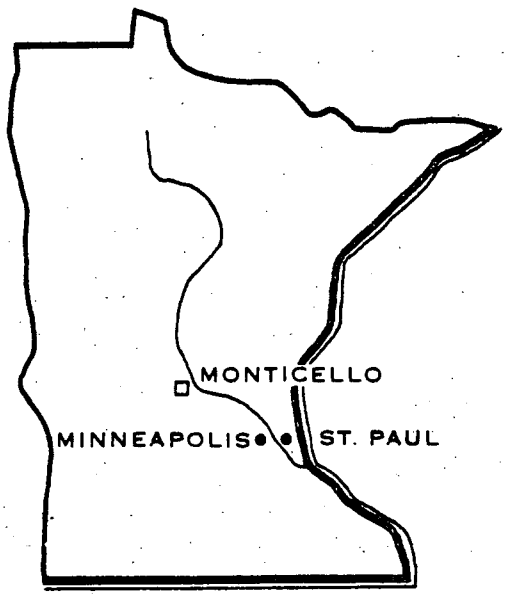
8005230267

NSP

MONTICELLO NUCLEAR GENERATING PLANT

Monticello, Minnesota

UNIT I



INSERVICE INSPECTION-EXAMINATION SUMMARY
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MONTICELLO NUCLEAR GENERATION PLANT - UNIT I

INSERVICE INSPECTION-EXAMINATION SUMMARY
MONTICELLO NUCLEAR GENERATING PLANT - UNIT 1
FEBRUARY 21 TO MARCH 28, 1980

REFUELING OUTAGE NO. 7
INSPECTION PERIOD 3

April 23, 1980

Commercial Service
Date: June 30, 1971

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INSERVICE INSPECTION - EXAMINATION SUMMARY

MONTICELLO NUCLEAR GENERATING PLANT - UNIT 1

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INSERVICE INSPECTION-EXAMINATION SUMMARY
MONTICELLO NUCLEAR GENERATING PLANT - UNIT 1
February 21 to March 28, 1980

1.0 INTRODUCTION

This report is a summary of the Monticello Nuclear Generating Plant's seventh inservice inspection. This was the second inservice inspection conducted in inspection period three. The examinations were preformed during the seventh refueling outage from February 21 to March 28, 1980. The Monticello Nuclear Generating Plant began commercial operation on June 30, 1971.

The examinations were preformed on pressure retaining components and their supports of the reactor coolant and associated auxiliary systems classified as ASME Class 1 and ASME Class 2. In addition, a visual examination was preformed on portions of the reactor vessel internal components.

Northern States Power Company contracted General Electric Company to perform the reactor vessel visual examination and Lambert, MacGill, Thomas, Inc. to preform the balance of plant examinations. Hartford Steam Boiler Inspection and Insurance Company, representing ANI, provided the Authorized Inspection.

2.0 DISCUSSION OF EXAMINATION PLAN

2.1 INSPECTION BOUNDARY

The examination plan focused on the pressure retaining components and their supports of the reactor coolant systems, portions of the emergency core coolant systems, and portions of the reactor coolant associated systems that are classified as ASME Class 1 and ASME Class 2.

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 Monticello's Technical Specification, Section TS4.6.1. The examination plan is in accordance with the program submitted to the United States Nuclear Regulatory Commission on March 15, 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".

2.2 EXAMINATION PROCEDURES

A listing of the procedures used for the examinations is shown in Table III of Appendix C. 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 the other examination procedures

complied with the requirements of the 1974 Edition through and including the Summer 1975 Addenda of ASME Section XI.

2.3 EXAMINATION METHODS

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

Surface examinations were performed by liquid penetrant or magnetic particle techniques. The liquid penetrant examinations were performed using the color contrast-solvent removable method, Magnetic Particle examinations were performed using a yoke and dry magnetic 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. Both hot and cold hanger load settings were visually verified (when applicable) and recorded on the report along with the piping system temperature.

2.4 EQUIPMENT AND MATERIALS

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

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

2.5 PERSONNEL

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 C.

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

2.6 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 and 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.

2.7 EXAMINATION REPORTS AND DOCUMENTATION

All examination reports and documentation are maintained on file by Northern States Power Company. Table I of Appendices A and B 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 examination performed on the item.

Table I of Appendix A and B 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 requirement. 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 "80-".

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

2.8 SUMMARY OF RESULTS

There were no signs of degradation to the systems scheduled for examination. The only anomalies detected were: two linear MT indications on Feedwater A base metal adjacent to weld FWAJ-40, two linear PT indications, one on Core Spray A weld CSAF-2, and one on Control Rod Drive Nozzle to Cap weld CRAF-2; loose bolts on hangers RBAK-10 on Recirculation Bypass A, and MSAK-45 on Mainsteam A; loose nuts on hangers MSBK-17 on Mainsteam B, CSBK-6 on Core Spray B, RBBK-14 on Recirculation Bypass B, CDAK-37 on CRD Scram Header A, and CWAK-15 on Reactor Water Clean Up; one missing support block on hanger SWAK-54 RHR Service Water; and two hangers that did not conform with the hanger drawings; RWAK-14 on Reactor Water Skimmer line that also had a loose nut, and RHAK-22 on Residual Heat Removal Suction line.

All anomalies were corrected. The linear MT indications on Feedwater A base metal were removed by lightly grinding the surface. The two linear PT indications on Core Spray A and Control Rod Drive were removed by lightly buffing the surface. The loose nuts on Mainsteam B, Core Spray B, Reactor Water Clean Up, Recirculation Bypass B and CRD Scram Header A hangers were tightened. The loose bolts on Recirculation Bypass A and Mainsteam A hangers were tightened. The missing support block

on RHR Service Water hanger was replaced. The non-conforming hanger on Residual Heat Removal suction line was reviewed and the hanger drawings and hanger Mark No. were found to be out of sequence. The hanger drawings will be revised to reference the correct hanger Mark No. The non-conforming hanger on Reactor Water Skimmer was reevaluated and found adequate for the designed load, and the loose nut was tightened. All indications were corrected and re-examined with the same method that originally located them.

3.0 VISUAL EXAMINATION OF THE REACTOR VESSEL INTERNALS

A visual examination was performed on portions of the reactor vessel internal components using an underwater TV camera and a video recording system. The examinations were performed in accordance with Northern States Power Company Procedure No. NSP-VT-4, Revision 0.

The examination procedure delineated the scope of the program and contained a separate appendix for each area to be examined. Each of the appendices contained check off lists that the examiners used during the examinations to identify each area examined and, if any, the abnormal conditions that were found.

The examination program focused on the Core Spray and Feedwater sparger systems, and the Jet Pump upper assembly. The Core Spray sparger examinations included the tee junction box, piping, header brackets and reclad areas, sparger piping and nozzles, mounting brackets, and the shroud penetrations. The Feedwater sparger examinations consisted of the sparger piping and welds, end brackets and reclad areas, bearing bar brackets and bolting, and the inner radius of the vessel at each nozzle location. The examination area on each jet pump included the beam bolt keeper and tack welds, lock plate, hold down beam, inlet and the upper section of the transition piece.

General Electric Company was contracted to supply personnel to perform the examinations. There were two certified Level II visual inspectors on each shift. One of the inspectors was on the refueling bridge and the other was at the recording station. The video recording system was used to permanently document any abnormalities noted during the examination and also to record the calibrations.

The only abnormality detected during the examinations was one end bracket pin on Feedwater sparger B was found to be not properly seated and the keeper bar was bent. A thorough examination of this area revealed no apparent signs of wear or damage to any portion of the end bracket or pin. The pin was reseated against the end bracket, and the keeper bar was repositioned in place. A tape

recording was made during the reseating process and after to verify that the pin and keeper bar was seated properly and to examine the keeper bar weld.

All examination reports and documentation are maintained on file by Northern States Power Company in a separate report.

APPENDIX A

ASME CLASS 1 - EXAMINATION

NORTHERN STATES POWER CO.
MONTICELLO NUCLEAR GENERATING PLANT
INSERVICE INSPECTION–EXAMINATION SUMMARY

TABLE S1.1
PAGE 1 OF 12
MAJOR ITEM: REACTOR VESSEL

SUB ITEM	EXAM CATE-GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
B1.1	B-A	LONGITUDINAL AND CIRCUM-FERENTIAL WELDS IN CORE REGION					
		LONGITUDINAL WELDS VLAA-1 VLAA-2 VLBA-1 VLBA-2	–	–	–	-RELIEF NO. 15-	
		CIRCUMFERENTIAL WELDS VCBA-2	–	–	–	-RELIEF NO. 15-	
B1.2	B-B	LONGITUDINAL AND CIRCUM-FERENTIAL 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)					
		SHELL					
		LONGITUDINAL WELDS VLAA-1 VLAA-2	–	–	–	-RELIEF NO. 15-	
		VLCB-1 VLCB-2	–	–	–	-RELIEF NO. 16-	
		VLBA-1 VLBA-2	–	–	–	-RELIEF NO. 16-	TOP 15" OF WELD NOT IN CORE REGION

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TABLE S1.1
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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.
B1.2	B-B	(CONT'D)					
		VLDB-1	ONE	18%	18%	VLDB-1 (TOP 24")	74-136
			TWO	-	-		
			THREE	25%	-		
		VLDB-2	ONE	-	-		
			TWO	43%	43%	VLDB-2 (TOP 57")	75B-87,88,109
			THREE	-	-		
		CIRCUMFERENTIAL WELDS					
		VCBB-1	-	-	-	-RELIEF NO. 15-	
		VCBB-3	-	-	-	-RELIEF NO. 15-	
		VCBB-4	-	-	-	-RELIEF NO. 16-	
		CLOSURE HEAD					
		MERIONAL WELDS					
		HMCB-1	ONE	21%	21%	HMCB-1 (1.5')	74-30
			TWO	100%	100%	HMCB-1 (7.0')	75B-30,72,75
			THREE	-	-		
		HMCB-2	ONE	21%	21%	HMCB-2 (1.5')	74-81
			TWO	-	-		
			THREE	-	-		
		HMCB-3	ONE	-	-		
			TWO	100%	100%	HMCB-3 (7.0')	75B-31,71,78
			THREE	-	-		
		HMCB-4	ONE	-	-		
			TWO	-	-		
			THREE	100%	-		

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B1.2	B-B	(CONT'D)					
		HMCB-5	ONE	-	-		
			TWO	100%	100%	HMCB-5 (7.0')	75B-32,70,77
			THREE	-	-		
		HMCB-6	ONE	-	-		
			TWO	-	-		
			THREE	100%	-		
		CIRCUMFERENTIAL WELD HCCB-2	ONE	-	-		
			TWO	100%	100%	HCCB-2 (25')	75B-68,74,76
			THREE	-	-		
		BOTTOM HEAD					
		MERIONAL WELDS					
		HMAB-1	-	-	-	-RELIEF NO. 16-	
		HMAB-2	-	-	-	-	
		HMAB-3	-	-	-	-	
		HMAB-4	-	-	-	-	
		HMAB-5	-	-	-	-	
		HMAB-6	-	-	-	-	
		HMAB-7	-	-	-	-	
		HMAB-8	-	-	-	-	
		MERIONAL WELDS THRU DOLLAR PLATE ASSEMBLY					
		HMAB-9	-	-	-	-RELIEF NO. 16-	
		HMAB-10	-	-	-	-	

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B1.2	B-B	(CONT'D)					
		CIRCUMFERENTIAL WELD - DOLLAR PLATE HCAB-1	ONE	5%	5%	2.2', 0-18°	74-67
			TWO	-	-		
			THREE	5%	-		
B1.3	B-C	VESSEL-TO-FLANGE AND HEAD-TO-FLANGE CIRCUM-FERENTIAL WELDS					
		VESSEL TO FLANGE VCBC-5	ONE	33%	40%	STUD HOLE, 64-14 & STUD HOLE, 12-22	73-126 74-146
			TWO	34%	36%	STUD HOLE, 21-36 & STUD HOLE, 36-43	75B-16 77-159
			THREE	33%	-		
		HEAD TO FLANGE HCCC-1	ONE	33%	37%	STUD HOLE, 64-13 & STUD HOLE, 13-22	73-47 74-18
			TWO	67%	67%	STUD HOLE, 22-1 & STUD HOLE, 36-43	75B-29,73,79 77-92,93
			THREE	33%	-		
B1.4	B-D	PRIMARY NOZZLE-TO-VESSEL WELDS AND NOZZLE INSIDE RADIUSED SECTION					
		-CLOSURE HEAD- HEAD VENT (N7)	ONE	100%	100%	HVAD-1	73-049,050
		HEAD SPRAY (N6A)	ONE	100%	100%	RHDD-1	73-051,054
		HEAD SPARE (N6B)	THREE	100%	-		
		-BOTTOM HEAD- STANDBY LIQUID CONTROL (N10)	TWO	*-	PARTIAL	-RELIEF NO. 15-	75A-10B *To extent possible

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B1.4	B-D	(CONT'D)					
		-VESSEL SHELL-					
		MAIN STEAM A (N3A)	ONE	100%	100%	MSAD-1	74-77,78
		MAIN STEAM B (N3B)	THREE	100%	100%	MSBD-1	80-118,121,123,138,141
		MAIN STEAM C (N3C)	TWO	100%	100%	MSCD-1	75B-89,90,105,111
		MAIN STEAM D (N3D)	THREE	100%	100%	MSDD-1	80-191,122,124,139,140
		FEEDWATER A (N4A)	ONE	100%	100%	FWAD-1	74-91,92
		FEEDWATER B (N4B)	TWO	100%	100%	FWBD-1	75B-122
		FEEDWATER C (N4C)	TWO	100%	100%	FWCD-1	75B-91,92,93,110
		FEEDWATER D (N4D)	THREE	100%	100%	FWDD-1	80-74,77,85,93,95
							AUGMENTED EXAMS (75B) (77) (80)
						FWAD-1	123 222,221 177,178
						FWBD-1	122 217,218 69,78
						FWCD-1	121 214,215, 216 154,155
						FWDD-1	120 219,220 –
		CORE SPRAY A (N5A)	THREE	100%	100%	CSAD-1	80-73,76,86,92,94
		CORE SPRAY B (N5B)	TWO	100%	100%	CSBD-1	75A-85,109
		CONTROL ROD DRIVE HYDRAULIC RETURN (N9)	ONE	100%	100%	CRAD-1	74-79,80
			TWO	100%	100%	CRAD-1	77-223
		RECIRCULATION OUTLET A (N1A)	ONE	100%	100%	RCAD-1	73-69,70
		RECIRCULATION OUTLET B (N1B)	ONE	100%	100%	RCBD-1	74-69,74
			THREE	100%	–		

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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.
B1.4	B-D	(CONT'D)					
		RECIRCULATION INLET NOZZLES					
		INLET A (N2A)	ONE	100%	100%	RRAD-1	74-76,109
		INLET D (N2D)	ONE	100%	100%	RRDD-1	73-71,76
		INLET J (N2J)	ONE	100%	100%	RRJD-1	73-80,81
		INLET C (N2C)	TWO	100%	100%	RRCD-1	75A-98,110
		INLET E (N2E)	TWO	100%	100%	RRED-1	77-205,207
		INLET G (N2G)	TWO	100%	100%	RRGD-1	75A-99,107,123
		INLET B (N2B)	THREE	100%	100%	RRBD-1	78-88,94,99,103
		INLET F (N2F)	THREE	100%	100%	RRFD-1	78-90,97,98,101
		INLET H (N2H)	THREE	100%	100%	RRHD-1	78-89,96,100,106
	-	INLET K (N2K)	THREE	100%	100%	RRKD-1	78-91,95,102,107
		JET PUMP INSTRUMENT NOZZLES					
		NOZZLE A (N8A)	ONE	100%	100%	JPAD-1	74-70,75
		NOZZLE B (N8B)	THREE	100%	-		
B1.5	B-E	VESSEL PENETRATIONS, INCLUDING CONTROL ROD DRIVE AND INSTRUMENTATION PENETRATIONS					
		CONTROL ROD DRIVE PENETRATIONS (TOTAL 121)	-	-	-	*-RELIEF NO. 17-	*INSPECTED BY PLANT PERSONNEL DURING EACH REACTOR VESSEL LEAKAGE TEST

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TABLE S1.1
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MAJOR ITEM: REACTOR VESSEL

SUB ITEM	EXAM CATE-GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
B1.5	B-E	(CONT'D)					
		INSTRUMENTATION PENETRATIONS	ONE	–			
		(TOTAL 4)	TWO	–	–		
			THREE	25%	–		
		REACTOR VESSEL BOTTOM HEAD DRAIN (N15)	–	–	–	-RELIEF NO. 17-	
		REACTOR VESSEL CLOSURE HEAD FLANGE LEAKAGE SENSORS					
		(N-13)	–	–	–	-RELIEF NO. 18-	
		(N-14)	–	–	–		
B1.6	B-F	NOZZLE TO SAFE END WELDS					
		-CLOSURE HEAD-					
		HEAD VENT (N7)	ONE	100%	100%	HVAF-2	73-053,057
		HEAD SPRAY (N6A)	ONE	100%	100%	RHDF-2	73-052,056
		HEAD SPARE (N6B)	ONE	100%	PARTIAL	HSBF-2	73-055
		HEAD SPARE (N6B)	THREE	100%	–		
		-BOTTOM HEAD-					
		STANDBY LIQUID CONTROL (N10)	THREE	100%	–		*BEST EFFORT -RELIEF NO. 19-
		-VESSEL SHELL-					
		CORE SPRAY A (N5A)	TWO	100%	100%	CSAF-2	77-299,128
			THREE	100%	100%	CSAF-2	80-64,64R,175,175A
		CORE SPRAY B (N5B)	TWO	100%	100%	CSBF-2	75A-104/77-137,139
			THREE	100%	100%	CSBF-2	80-56, 176, 76A

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MAJOR ITEM: REACTOR VESSEL

SUB ITEM	EXAM CATE-GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
B1.6	B-F	(CONT'D)					
		CONTROL ROD HYDRAULIC RETURN (N9)	TWO	100%	100%	CRAF-2	74-90,93
			TWO	100%	100%	BASELINE (CAPPED)	77-224
			THREE	100%	100%	CRAF-2	80-167,167R,181
		RECIRCULATION OUTLET A (N1A)	ONE	100%	100%	RCAF-2	73-72,78
		RECIRCULATION OUTLET B (N1B)	ONE	100%	100%	RCBF-2	74-71,73
			THREE	100%	-		
		RECIRCULATION INLET					
		INLET A (N2A)	ONE	100%	100%	RRAF-2	74-89,116
		INLET D (N2D)	ONE	100%	100%	RRDF-2	73-75,77
		INLET J (N2J)	ONE	100%	100%	RRJF-2	73-74,82
		INLET C (N2C)	TWO	100%	100%	RRCF-2	75A-102/75B-105
		INLET E (N2E)	TWO	100%	100%	RREF-2	77-204,209
		INLET G (N2G)	TWO	100%	100%	RRGF-2	75A-103/75B-112
		INLET B (N2B)	THREE	100%	100%	RRBF-2*	78-75,123
		INLET F (N2F)	THREE	100%	100%	RRFF-2*	78-79,121
		INLET H (N2H)	THREE	100%	100%	RRHF-2*	78-78,122
		INLET K (N2K)	THREE	100%	100%	RRKF-2*	78-76,124
							*NOTE: THE ENTIRE SAFE END WAS UT EXAMINED IN 1978; INCLUDING THE SAFE END TO PIPE WELD.
		JET PUMP INSTRUMENTATION					
		NOZZLE A (N8A)	ONE	100%	100%	JPAF-2	74-84,88
		NOZZLE B (N8B)	THREE	100%	-		

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MAJOR ITEM: REACTOR VESSEL

SUB ITEM	EXAM CATE-GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
B1.6	B-F	(CONT'D)					
		INSTRUMENTATION					
		LINES					
		V1AF-2 (N11A)	THREE	100%	-		
		V1BF-2 (N11B)	THREE	100%	-		
		V1CF-2 (N12A)	THREE	100%	-		
		V1DF-2 (N12B)	THREE	100%	-		
B1.7 AND B1.8	B-G-1	CLOSURE STUDS	ONE	33%	36%	STUDS, 1 THRU 13	73-123,124 (VT) (UT)
	B-G-2					STUDS, NO. 64,1, 16,17,32,33,47, 48,49,50	74-63,64 (UT) (PT)
			TWO	33%	36%	STUDS, NO. 14,15, 18,19,31,45 THRU 52,54,62,63	75A-61,88 (MT) (UT)
						STUDS, NO. 36 THRU 42	77-81,110 (MT) (UT)
			THREE	34%	-		
		AND NUTS	ONE	33%	36%	NUTS, 1 THRU 13	73-61,66 (VT) (UT)
						NUTS, NO. 64,1, 16,17,32,33,47, 48,49,50	
			TWO	33%	100%	NUTS, 1 THRU 64	77-158,94 (MT) (UT)
			THREE	34%	-		

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MAJOR ITEM: REACTOR VESSEL

SUB ITEM	EXAM CATE-GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
B1.9	B-G-1	LIGAMENTS BETWEEN THREADED STUD HOLES				AT STUDS HOLES:	
			ONE	33%	37%	1 THRU 13 (AND) 12 THRU 22	73-48,125 74-66
			TWO	33%	36%	21 THRU 35 (AND) 36 THRU 43	75B-15 77-160
			THREE	34%	-		
B1.10	B-G-1	CLOSURE WASHERS				WASHER PAIRS:	
			ONE	33%	100%	1 THRU 64	73-61,67/74-62
			TWO	33%	100%	1 THRU 64	77-82
			THREE	34%	-		
B1.11	B-G-2	PRESSURE-RETAINING BOLTING*					(FLANGE BROKEN WHEN CLOSURE HEAD REMOVED)
		HEAD VENT (N7)	ONE	8	100%		74-142
			THREE	8	-		
		HEAD SPARY (N6A)	TWO	8	100%		74-142
			THREE	8	-		
		HEAD SPARE (N6B)	THREE	8	-		
B1.12	B-H	INTEGRALLY WELDED VESSEL SUPPORTS					
		SUPPORT SKIRT HCAH-2	ONE	5%	5%	HCAH-2 (5'8")	74-65
			THREE	5%	-	-	
		VESSEL STABILIZER LUGS	THREE	*	-	-RELIEF NO. 16-	*ACCESSIBLE AREAS WITH SURFACE EXAM
B1.13	B-I-1	CLOSURE HEAD CLADDING					
			ONE	33%	33%	2-36 IN^2 PATCHES	73-INVESSEL RPT
			ONE	-	33%	2-36 IN^2 PATCHES	74-RPV INTERNALS RPT
			TWO	33%	100%	ALL HEAD CLADING VISUAL ONLY	77-RPV INTERIOR RPT
		2-36 Square Inch Patches	THREE	33%	-	-	-RELIEF NO. 20-

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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.
B1.14	B-I-1	VESSEL CLADDING 2-36 Square Inch Patches	ONE ONE TWO THREE	33% 33% 33% 33%	33% 33% 33% –	2-36 IN^2 PATCHES 2-36 IN^2 PATCHES (SEE RPT FOR AREA)	73-INVESSEL RPT 74-RPV INTERNALS RPT 77-RPV INTERIOR RPT
B1.15	B-N-1	VESSEL INTERIOR	ONE ONE TWO THREE	* * * *	* * * –	*SPACE ABOVE AND BELOW THE REACTOR CORE THAT IS MADE ACCESSIBLE FOR EXAMINATION BY THE REMOVAL OF COMPONENTS DURING NORMAL REFUELING OUTAGE	73-INVESSEL RPT 74-RPV INTERNALS RPT 77-RPV INTERIOR RPT 80-RPV INTERNALS RPT (PARTIAL)
B1.16	B-N-2	INTERIOR ATTACHMENTS AND CORE SUPPORT STRUCTURES	ONE ONE TWO THREE	* * * *	* * * –	*VISUALLY ACCES-SIBLE ATTACHMENTS AND SUPPORTS	73-INVESSEL RPT 74-INTERNALS RPT 77-RPV INTERIOR RPT 80-RPV INTERNALS RPT (PARTIAL)
B1.17	B-N-3	CORE SUPPORT STRUCTURES	–	–	–	NOT APPLICABLE	–
B1.18	B-0	CONTROL ROD DRIVE HOUSINGS (24 PERIPHERAL HOUSING WELDS)	ONE	10%	*	CRD NO.* 02-23 10-43 22-27 22-31 26-27 14-27 38-23 14-15 34-11	 73-085 73-086 73-108 73-109 73-110 73-121 74-102 74-103 74,108

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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.
B1.18	B-O	(CONT'D)				CRD NO.*	
			TWO		*	38-19	75A-91
				-		34-33	75A-92
						38-35	75A-93
						18-39	75A-94
						14-19	75A-95
						22-19	75A-96
			THREE	3	-		
B1.19	B-P	EXEMPTED COMPONENTS					
		CLOSURE FLANGE SENSORS VFAE-1 VABE-1	THREE	*	-	*HYDROSTATICALLY PRESSURE TESTED TO IWA-5000 AND IWB-5000 AT END OF TEN YEAR PERIOD PLUS SYSTEM LEAKAGE EXAM EACH SCHEDULED RE-FUELING OUTAGE	-PLANT PERSONNEL--RELIEF NO. 18-

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MAJOR ITEM: PRESSURIZERS

SUB ITEM	EXAM CATE-GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
B2.0	-	PRESSURIZER	-	-	-	-NOT APPLICABLE-	

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TABLE S1.3
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MAJOR ITEM: HEAT EXCHANGER/STM. GEN.

SUB ITEM	EXAM CATE-GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO
B3.0	-	HEAT EXCHANGERS AND STEAM GENERATORS	-	-	-	-NOT APPLICABLE-	

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FORM 17-25A

PP12-A-15

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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	SAFE END TO PIPING AND SAFE END IN BRANCH PIPING WELDS					-RELIEF NO. 21-
		CORE SPRAY A					*REPORT NUMBERS
		CSAF-10	ONE	1	1*		(73-)(75A-)(75B-)(77-) (80-)
		CSAF-14	TWO	3	3*	CSAF-10	95 70 24 131,178 71,103
		CSAF-18	THREE	3	3*	CSAF-14	74 25 132,178 72,88
						CSAF-18	76 28 134,135, 178 70,89
		CORE SPRAY B					*REPORT NUMBERS
		CSBF-9	ONE	–	–		(75A-)(75B-)(77-) (80)
		CSBF-12	TWO	3	*	CSBF-9	81 6 144 59,66
		CSBF-16	THREE	1	*	CSBF-12	80 7 145
						CSBF-16	79 10 167,149
		HIGH PRESSURE COOLANT INJECTION-STEAM	ONE	1	2	PSAF-2B,2C (UT)	74-15,16
			TWO	–	–		
		PSAF-2B	THREE	1	1	PSAF-2B	78-29,55
		PSAF-2C	THREE	1	1	PSAF-2C	78-29,53
		REACTOR WATER CLEAN UP	ONE	–	–		
		CWAF-2	TWO	1	1	CWAF-2 (2)	75A-60,66/77-36,58
			THREE	–	–		
		RESIDUAL HEAT REMOVAL	ONE	1	1	RHAF-4	73-63
		REW-10	TWO	1	1	RHAF-4(REPEAT)	77-171,176
		RHAF-4	THREE	–	–		

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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)					
		RESIDUAL HEAT REMOVAL TW-20					
		RHBF-4	TWO	1	1	RHBF-4	77-175/187
		RHBF-20	THREE	1	1	RHBF-20	80-79,106
		RHBF-24	THREE	1	1	RHBF-24	80-82,105
		RESIDUAL HEAT REMOVAL TW-30					
		RHCF-20	ONE	1	1	RHCF-20 (2)	73-87/74-96,110,119
		RHCF-23	ONE	1	1	RHCF-23 (2)	73-88/74-97,111,120
		RHCF-4	TWO	1	1	RHCF-4	77-184,188
		RHCF-20	THREE	1	1	RHCF-20(REPEAT)	80-81,104
B4.2 B4.3 B4.4	B-G-1	PRESSURE RETAINING BOLTS AND STUDS	-	-	-	-NONE-	-
B4.5	B-J	CIRCUMFERENTIAL AND LONGITUDINAL WELDS					-RELIEF NO.21
		LONGITUDINAL WELDS	-	-	-	AS REQUIRED, IN CONJUNCTION WITH CIRCUMFERENTIAL WELDS	
		CIRCUMFERENTIAL WELDS					
		MAIN STEAM A, (18")	ONE	4	4	MSAJ-43,36,34/12	73-2,28,29/74-43
			TWO	2	2	MSAJ-2,3	77-74,75
			THREE	2	-		
		(6")	ONE	3	3	MSAJ-20,27,16	74-7,9,10
			TWO	-	-		
			THREE	1	1	MSAJ-24	80-198

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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)					
		MAIN STEAM B (18")	ONE	5	5	MSBJ-40,31,33	73-1,20,21
						MSBJ-25,9	74-49,52
			TWO	2	2	MSBJ-4,12	77-76,70,68
			THREE	3	1	MSBJ-30	80-107
		(6")	ONE	2	2	MSBJ-15,21	74-8,11
			TWO	-	-		
			THREE	-	-		
		MAIN STEAM C (18")	ONE	8	8	MSCJ-41,31,33, 13,36,38	73-4,17,19,105,23,22
						MSCJ-25,12,33	74,41,42,51
			TWO	2	2	MSCJ-3,2	75B-94,95
			THREE	3	3	MSCJ-4,11,23	80-131,109,108
		(6")	ONE	2	2	MSCJ-21,16	74-2,4
			TWO	-	-		
			THREE	-	-		
		MAIN STEAM D (18")	ONE	5	5	MSDJ-45,38,36	73-3,22,23
						MSDJ-12,30	74-31,37
			TWO	2	2	MSDJ-9,11	77-77,69
			THREE	2	2	MSDJ-3,10	80-125,113
		(6")	ONE	3	3	MSDJ-28,21,17	74-3,5,12
			TWO	1	1	MSDJ-23	77-80
			THREE	1	-	MSDJ-28(REPEAT)	80-199
		FEEDWATER A (10")	ONE	1	1	FWAJ-16	74-101
			TWO	1	1	FWAJ-11	77-95
			THREE	1	-		

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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)					
		FEEDWATER B (10")	ONE	–	–		
			TWO	3	3	FWBJ-2	77-154,208
						FWBJ-9,12	77-84,96
			THREE	1	–		
		FEEDWATER A (14")	ONE	5	5	FWAJ-35,27,25,30	73-13,26,27,30
						FWAJ-24	74-28
			TWO	1	1	FWAJ-19	77-180
			THREE	1	–		
		FEEDWATER C (10")	ONE	–	–		
			TWO	2	2	FWCJ-2,3	75B-96,97
			THREE	1	–		
		FEEDWATER D (10")	ONE	1	1	FWDJ-16	74-27
			TWO	1	1	FWDJ-18	77-97
			THREE	1	–		
		FEEDWATER D (14")	ONE	5	5	FWDJ-35,25,26, 30,24	73-14,24,25,33,89
						FWDJ-24,25,26	74-24A,25,26
			TWO	1	1	FWDJ-22	77-181
			THREE	1	–		

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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)										
										*REPORT NUMBERS		
							(73)	(74)	(75A)	(75B)	(77)	(80)
						CSAJ-2A			73	11	129,200	168,168A
						CSAJ-3			72	19,82	138	87
		CORE SPRAY A	ONE	5	5*	CSAJ-4			69	20	124	90
						CSAJ-5			64	21	164	91
			TWO	6	8*	CSAJ-8			66	22	123	67
			THREE	1	7*	CSAJ-9			75	23	125	68
						CSAJ-11	96					
						CSAJ-12	97					
						CSAJ-13						83
						CSAJ-16	98		18	26	165	
						CSAJ-17	99		71	27	134	
						CSAJ-26	106		82			
										*REPORT NUMBERS		
							(73)		(75A)	(75B)	(77)	(80)
		CORE SPRAY B*	ONE	4	4*	CSBJ-2A			67,104	1	37,140	170,170A
			TWO	5	7*	CSBJ-3			65	3,84	141	55
			THREE	1	6*	CSBJ-4			77	4	121	53
						CSBJ-5			83	17	166	65
						CSBJ-8			84	5	122	54
						CSBJ-10						84
						CSBJ-11	94					
						CSBJ-13	92		82	8,83	146	
						CSBJ-14	93		78	9	147	
						CSBJ-23	107					
		HIGH PRESSURE COOLANT INJECTION -STEAM-	ONE	4	4	PSAJ-19,3,4,2A				73-12,43,130,44		
						PSAJ-2A.4				74-13,14, (REPEAT)		
			TWO	1	1	PSAJ-1				77-54		
			THREE	1	1	PSAJ-15				78-54		

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B4.5	B-J	(CONT'D)					
		REACTOR WATER CLEAN UP	ONE	–	–		
			TWO	5	5	CWAJ-2,1,2A CWAJ-17,1,2A,3	75A-57,58,97,59 77-83,59,56,61,44
			THREE	2	2	CWAJ-4,5	78-71,70
							*CRD LINE REROUTED AND CAPPED
		CONTROL ROD* HYDRAULIC RETURN	ONE	–	–		
			TWO	11	11	CRAJ-10,11 CRAJ-30,32,33,34 CRAJ-4,5,8 CRAJ-12,13	75A,101,100 75A,52,53,54,55 75B-99,100,101 75B,102,103
		RESIDUAL HEAT REMOVAL REW 10 (18")	ONE	1	1	RHAJ-7 (2) RHAJ-1	73-62/74-115 74,126(IDENTIFIED RCAJ-7)
			TWO	7	7	RHAJ-9,10,15,1 RHAJ-2,3,6	77-151,152,153,168 77-169,170,172
			THREE	2	2	RHAJ-21 RHAJ-20	80-115 80-112
		RESIDUAL HEAT REMOVAL TW 20 (16")	ONE	2	2	RHBJ-21,22	73-58,59
			TWO	3	3	RHBJ-31,28 RHBJ-19	75A-47,125 77-161
			THREE	2	–		
		TW 20 (18")	ONE	–	–		
			TWO	2	2	RHBJ-1,3	77-173,174
			THREE	–	–		

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B4.5	B-J	(CONT'D)					
		RESIDUAL HEAT REMOVAL TW 30 (16")	ONE	8	8	RHCJ-18,26,28 RHCJ-29,32,34 RHCJ-21,22,32	74-95,98,99 74-100,104,105,112,113 75A-46,90,127
			TWO	-	-		
			THREE	2	-		
		TW 30 (18")	ONE	-	-		
			TWO	2	4	RHCJ-3,1/1,3	75A-86,87/77-182,183
			THREE	-	1	RHCJ-1	80-148
		RESIDUAL HEAT REMOVAL TW 36 (4")	ONE	1	1	RHDJ-3	73-068
			TWO	4	4	RHDJ-4,5,6,7	75A-51,50,49,48
			THREE	2	-		
		REACTOR CORE INJECTION COOLANT STEAM (3")	ONE	-	-		
			TWO	2	2	RSAJ-1,2	77-62,63
			THREE	2	2	RSAJ-11,12	78-86,86E,87,87E
		RECIRCULATION A REW 13 A-28"	ONE	1	1	RCAJ-3	73-073,79
			TWO	1	1	RCAJ-17	75B-033,59
			THREE	6	6	RCAJ-5,15 RCAJ-4,6,9,35	78-73,77 80-164,174,171,179
		RECIRCULATION B REW 13 B-28"	ONE	1	1	RCBJ-3	74-68,72
			TWO	1	1	RCBJ-28	75B-65
			THREE	4	4	RCBJ-5 RCBJ-4,31,34	78-72 80-173,180,180A,172

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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)								
								*REPORT NUMBERS		
		RECIRCULATION BYPASS LINE A REW 24-4"	ONE	–	–		(75A)	(75A)	(75B)	(77)
			TWO	12	12	BASELINE		BASELINE		
						RBAJ-M3	113	13,31	137	3
						RBAJ-M4		11	135	4
						RBAJ-M5		12,31	136	5
						RBAJ-M6	114	10,33A	134	6
						RBAJ-M7		133	133	7
						RBAJ-M8	116	8,133	132	8
						RBAJ-M9	120	7	131	9
						RBAJ-M11		6	130	10
						RBAJ-M12		1	129	11
						RBAJ-M13		2	128	12
						RBAJ-M14		3	127	13
						RBAJ-M15		4	126	14
			THREE	2	2	RBAJ-M3,M15		80,160,153		
		RECIRCULATION BYPASS LINE B REW 25-4"						*REPORT NUMBERS		
			ONE	–	–		(75A)	(75A)	(75B)	(77)
			TWO	13	13*	BASELINE		BASELINE		
						RBBJ-M3		19	150	19
						RBBJ-M5		20,105	149	20
						RBBJ-M6		18	148	21
						RBBJ-M7		16	147	22
						RBBJ-M8		106,27	146	23
						RBBJ-M9	118	26	145	24
						RBBJ-M10	112	133,29	144	25
						RBBJ-M12	111	–	143	26
						RBBJ-M13	121	25	142	27
						RBBJ-M15		15,7	141	28
						RBBJ-M16		28	140	29
						RBBJ-M17		24	139	30

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						BASELINE (75A)	(75A)	BASELINE (75B)	(77)
B4.5	B-J	(CONT'D)							
		REW 25-4"							
						RBBJ-M18	22	138	31
			THREE	2	2	RBBJ-M3,M18	80-162,152		
		RECIRCULATION MANIFOLD REW 32-22"	ONE	1	1	RMBJ-15	73-045		
			TWO	1	1	RMBJ-12	75B-64		
			THREE	6	6	RMBJ-2,RMAJ-15,16	78-92/78,81,93		
						RMAJ-7,8,10	80-133,149,134		
		RECIRCULATION RISERS RISER F REW 14-12"	ONE	-	-				
			TWO	-	-				
			THREE	2	2	RRFJ-3/RRFJ-7	78-121/80-166		
		RISER G REW 15-12"	ONE	-	-				
			TWO	4	4	RRGJ-4,5,7	75A-39,44,45		
						RRGJ-7,3	75B,49,108		
			THREE	-	-				
		RISER H REW 16-12"	ONE	-	-				
			TWO	-	-				
			THREE	2	2	RRHJ-3/RRHJ-7	78-122/80-135,158		
		RISER J REW 17-12"	ONE	1	1	RRJJ-3	73-74,83		
			TWO	3	3	RRJJ-4,5,7	75B-50,51,52		
			THREE	-	-				
		RISER K REW 18-12"	ONE	1	1	RRKJ-7 (2)	73-46/74-114		
			TWO	-	-				
			THREE	1	1	RRKJ-3	78-124		
		RISER A REW 23-12"	ONE	1	1	RRAJ-3	74-117		
			TWO	3	3	RRAJ-4,5,7	75B-53,54,55		
			THREE	-	-				

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B4.5	B-J	(CONT'D)					
		RISER B REW 22-12"	ONE	–	–		
			TWO	–	–		
			THREE	1	1	RRBJ-3	78-123
		RISER C REW 21-12"	ONE	–	–		
			TWO	4	4	RRCJ-4,5,7 (2) RRCJ-3	75A-42,43,(40,41) 75B-98,107
			THREE	–	–		
		RISER D REW 20-12"	ONE	1	1	RRDJ-3	73-75,84
			TWO	3	3	RRDJ-4,5,7	75B-58,57,56
			THREE	–	–		
		RISER E REW 19-12"	ONE	–	–		
			TWO	4	4	RREJ-3,4 RREJ-5,7	77-203,202 77-201,162
			THREE	–	–		
		HEAD SPARE (N6B)	ONE	–	–		
			TWO	–	–		
			THREE	1	–		
		HEAD VENT (N7)	ONE	–	–		
			TWO	–	–		
			THREE	1	–		
		JET PUMP INSTRUMENT NOZZLES 4" N 8A 4" N 8B	ONE	2	2	JPAJ-3 JPBJ-3	74-83,85 74-86,87
			TWO	–	–		
			THREE	–	–		
		MAIN STEAM CONDENSATE LEAK OFF	ONE	–	–		
			TWO	–	–		
			THREE	1	1	CLAJ-10	78-110

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B4.5	B-J	(CONT'D)					
						*NOT REQUIRED IN PERIOD ONE OR TWO	
		CRD SCRAM HEADER	*				
		CRD 26A-8" DB	THREE	1	–		
		CRD 26B-8" DB	THREE	1	–		
		CRD 13A-4" DB	THREE	1	–		
		CRD 13B-4" DB	THREE	1	–		
		CRD 15A-4" DB	THREE	1	–		
		CRD 15B-4" DB	THREE	1	–		
		CRD 14A-6" DB	THREE	1	–		
		CRD 14B-6" DB	THREE	1	–		
		SCRAM DISCHARGE VOLUME TANK	*				
		CRD 18-12" DB	THREE	1	–		
B4.6	B-J	BRANCH PIPE CONNECTIONS EXCEEDING SIX INCH DIAMETER					
		MAIN STEAM B (18")	TWO	1	1	MSBJ-22	77-71,150,39
		RECIRCULATION MANIFOLD					
		A RISER F (RMAJ-3)	THREE	1	1	RMAJ-3	80-165
		RISER G (RMAJ-5)	–	–	–		
		RISER J (RMAJ-12)	–	–	–		
		RISER K (RMAJ-14)	–	–	–		
		B RISER A (RMBJ-14)	–	–	–		
		RISER B (RMBJ-12)	TWO	1	1	RMBJ-12	75B-63
		RISER D (RMBJ-5)	–	–	–		
		RISER E (RMBJ-3)	TWO	1	1	RMBJ-3	77-210,185

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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	BRANCH PIPE CONNECTION WELDS SIX INCH DIAMETER AND SMALLER					
		MAIN STEAM A (6")	ONE	3	3	MSAJ-15,19,26	74-44-45-48
			TWO	1	1	MSAJ-21	77-79,186
			THREE	1	1	MSAJ-23	80-183
		MAIN STEAM B 6"	ONE	2	2	MSBJ-16,20	74-46,47
			TWO	–	–		
			THREE	–	–		
		MAIN STEAM C (6")	ONE	2	2	MSCJ-15,20	74-1,40
			TWO	–	–		
			THREE	1	–	MSCJ-18	80-182
		MAIN STEAM D (6")	ONE	4	4	MSDJ-22,16,20,27	74-6,32,34,35
			TWO	–	–		
			THREE	–	–		
		REACTOR WATER CLEANUP	ONE	–	–		
			TWO	2	2	CWAJ-1	77-38(IDENTIFIED AS RCBJ-7)
			THREE	–	–	CWAJ-7	77-41,44
		RECIRCULATION A	ONE	–	–		
			TWO	–	–		
			THREE	–	–		
		RECIRCULATION B	ONE	–	–		
			TWO	–	–		
			THREE	1	–		
		RECIRCULATION BYPASS A	ONE	–	–		
			TWO	2	2	RBAJ-2	75A-115,14,31/75B-39 77-2 77-17,192,37(IDENTIFIED AS RCAJ-26)

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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)					
						RBAJ-16	75A-5/77-15 75A-32,35/77-16,191,37 (IDENTIFIED AS RBAJ-17)
			THREE	2	2	RBAJ-2,16 RBAJ-2,16	78-109,105 80-163,169,151,157
		RECIRCULATION BYPASS B	ONE	–	–		
			TWO	2	2	RBBJ-2	75A-1,21/77-18 77-47,190,34(IDENTI-FIED AS RBBJ-1
						RBBJ-19	75A-30/77-32 77-33,47,189,34(IDEN-ATIFIED AS RBBJ-20)
			THREE	2	2	RBBJ-2,19 RBBJ-2,19	78-104,108 80-159,161,150,156
		CRD SCRAM HEADER	ONE	–	–		
		CRD 18-12" DB	TWO	–	–		
			THREE	1	1	SDAJ-5	78-25
B4.8	B-J	SOCKET WELDS					
		MAIN STEAM A	ONE	1	1	MSAJ-35	73-035
			TWO	–	–		
			THREE	–	–		
		MAIN STEAM B	ONE	1	1	MSBJ-32	73-036
			TWO	–	–		
			THREE	–	–		
		MAIN STEAM C	ONE	1	1	MSCJ-32	73-037
			TWO	–	–		
			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.
B4.8	B-J	(CONT'D)					
		MAIN STEAM D	ONE	1	1	MSDJ-37	73-038
			TWO	–	–		
			THREE	–	–		
		REACTOR VESSEL BOTTOM HEAD DRAIN	ONE	–	–		
			TWO	1	1	HDAJ-47	77-45,35
			THREE	9	3	HDAJ-41,45,46	80-100
		STANDBY LIQUID CONTROL N10	ONE	–	–	*108 SOCKET WELDS	
			TWO	15	15	EXAMINED PERIOD 2	75B-113
							*SBCJ-54
							THRU-69, (CLASS 1)
							SBCJ-53 (CLASS 2)
						1978 IDENTIFICA-	SBCJ-47 THRU 50
						TION CHANGED FROM	SBCJ-4A THRU 44
						"SBCJ" TO "CPAJ"	SBCJ-1 THRU 4A
							SBBJ-1 THRU 20
							SBAJ-1 THRU 20
			THREE	2	–		
		RECIRCULATION A:	–	–	–	-RELIEF NO. 22-	
		RECIRCULATION B	–	–	–	-RELIEF NO. 22-	
		(DRAIN TO CRW)	–	–	–		
		RECIRCULATION:					
		MANIFOLD A	ONE	–	–		
		BYPASS OF MO2-65A	TWO	2	2	VBAJ-13,14	77-195
			THREE	2	2	VBAJ-3,12	78-40
		MANIFOLD B	ONE	–	–		
		BYPASS OF MO2-65B	TWO	2	2	VBBJ-4,14	77-195
			THREE	2	–		

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B4.8	B-J	(CONT'D)					
		CRD SCRAM HEADER DISCHARGE					
		CRD 16A-2" DB	ONE	–	–		
			TWO	–	–		
			THREE	1	1	CDAJ-45	78-24
		CRD 16B-2" DB	ONE	–	–		
			TWO	–	–		
			THREE	3	3	CDBJ-45,66,68	78-60,27,28
		CRD SCRAM HEADER DRAIN					
		CRD 18-2" DB	ONE	–	–		
			TWO	–	–		
			THREE	1	1	SDDJ-8	78-26
		INSTRUMENT LINES					
		-N11A- VIAJ-3	–	–	–		
		-N11B- VIBJ-3	–	–	–		
		-N12A- VICJ-3	–	–	–		
		-N12B- VIDJ-3	–	–	–		
B4.9	B-K-1	INTEGRALLY WELDED SUPPORTS					
		MAIN STEAM A	ONE	–	–		
			TWO	–	–	MSAK-31	77-49
			THREE	–	–		
		MAIN STEAM B	ONE	–	–		
			TWO	–	–		
			THREE	–	–		
		MAIN STEAM C	ONE	–	–		
			TWO	–	–		
			THREE	1	1	MSCK-7	80-128,130,132

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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)					
		MAIN STEAM D	ONE	–	–		
			TWO	–	–		
			THREE	1	1	MSDK-32	80-101,110,127
		FEEDWATER A (10")	ONE	1	1	FWAK-13	74-53
			TWO	–	–		
			THREE	–	–		
		FEEDWATER B (10")	ONE	–	–		
			TWO	–	–		
			THREE	–	–		
		FEEDWATER C (10")	ONE	–	–		
			TWO	–	–		
			THREE	–	–		
		FEEDWATER D (10")	ONE	1	1	FWDK-13	74-59
			TWO	–	–		
			THREE	–	–		
		FEEDWATER A (14")	ONE	1	1	FWAK-29	73-32
			TWO	–	–		
			THREE	–	–		
		FEEDWATER D (14")	ONE	–	–		
			TWO	–	–		
			THREE	–	–		
		HIGH PRESSURE COOLANT INJECTION	ONE	–	–		
			TWO	–	–		
			THREE	1	1	PSAK-7	78-23,37,74
		REACTOR WATER CLEAN UP	ONE	–	–		
			TWO	–	–		
			THREE	1	1	CWAK-14	78-41,43,69

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B4.9	B-K-1	(CONT'D)					
		RESIDUAL HEAT REMOVAL TW 36	ONE	-	-		
			TWO	-	-		
			THREE	-	-		
		REACTOR CORE INJECTION COOLANT -STEAM-	ONE	-	-		
			TWO	-	-		
			THREE	-	-		
		RESIDUAL HEAT REMOVAL REW 10	ONE	-	-		
			TWO	-	-		
			THREE	1	1	RHAK-22	80-114,129,136
		RESIDUAL HEAT REMOVAL TW 20	ONE	1	1	RHBK-23 (2)	73-060/74-27
			TWO	-	-		
			THREE	-	-		
		RESIDUAL HEAT REMOVAL TW 30	ONE	1	1	RHCK-24	74-128
			TWO	-	-		
			THREE	-	-		
		RECIRCULATION A (28")	ONE	-	-		
			TWO	1	1	RCAK-33	77-90
			THREE	2	1	RCAK-16	78-58,68,80
		RECIRCULATION B (28")	ONE	-	-		
			TWO	1	1	RCBK-32	77-199
			THREE	2	-		
		RECIRCULATION MANIFOLD A & B	ONE	-	-		
			TWO	1	1	RMBK-6A	77-193,194
			THREE	2	-		
		SCRAM DISCHARGE VOLUME TANK CRD 18-12" DB	ONE	-	-		
			TWO	-	-		
			THREE	1	-		

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B4.10	B-K-2	SUPPORT COMPONENTS					
		MAIN STEAM A	ONE	3	3	MSAK-1,25,30	74-17,23,50
			TWO	–	–		
			THREE	–	–		
		MAIN STEAM B	ONE	2	2	MSBK-14,17	74-22,19
			TWO	–	–		
			THREE	2	2	MSBK-14/MSBK-17	78-44/80-46,46R
		MAIN STEAM C	ONE	2	2	MSCK-17,14	74-39,38
			TWO	–	–		
			THREE	–	–		
		MAIN STEAM D	ONE	2	2	MSDK-31,14	74-21,36
			TWO	1	1	MSDK-15	77-50
			THREE	1	1	MSDK-15	80-47
		FEEDWATER A (10")	ONE	3	3	FWAK-14,15,17	74-54,55,56
			TWO	–	–		
			THREE	–	–		
		FEEDWATER A (14")	ONE	2	2	FWAK-26,31 (2)	73-40,31/74-24
			TWO		–		
			THREE	1	1	FWAK-26	80-44
		FEEDWATER D (10")	ONE	3	3	FWDK-17,15,14	74-57,58,60
			TWO	1	1	FWDK-17	77-98
			THREE	1	1	FWDK-14	80-45
		FEEDWATER D (14")	ONE	2	2	FWDK-31,27	73-34,41
			TWO	–	–		
			THREE	–	–		
		CORE SPRAY A	ONE	2	2	CSAK-7,15	74-133,134
			TWO	–	–		
			THREE	–	–		

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B4.10	B-K-2	(CONT'D)					
		CORE SPRAY B	ONE	-	-		
			TWO	1	1	CSBK-15	77-136
			THREE	1	1	CSBK-6	80-62,62R
		REACTOR WATER CLEAN UP	ONE	-	-		
			TWO	1	1	CWAK-11	77-196
			THREE	1	1	CWAK-15	80-63,63R
		RESIDUAL HEAT REMOVAL REW 10	ONE	-	-		
			TWO	2	2	RHAK-13,14	77-155
			THREE	2	-		
		RESIDUAL HEAT REMOVAL TW 20	ONE	-	-		
			TWO	1	1	RHBK-9	77-197
			THREE	2	2	RHBK-10,12	78-31,32
		RESIDUAL HEAT REMOVAL TW 30	ONE	-	-		
			TWO	-	-		
			THREE	2	2	RHCK-9,10	80-39,38
		REACTOR CORE INJECTION COOLANT - STEAM	ONE	-	-		
			TWO	1	1	RSAK-9	77-48
			THREE	1	1	RSAK-13	78-33
		RECIRCULATION A (28")	ONE	-	-		
			TWO	3	3	RCAK-6,31,34	77-090,199
			THREE	9	5	RCAK-12,14	78-57,56
						RCAK-29,22A,PSSA-5	80-146,147,137
		RECIRCULATION B (28")	ONE	-	-		
			TWO	3	3	RCBK-27,30,33	77-089
			THREE	7	4	RCBK-8,10/RCBK-12,	78-51,52
						RCBK-12,20A	80-144,143

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B4.10	B-K-2	(CONT'D)					
		RECIRCULATION BY-PASS (A&B)	ONE	–	–		
			TWO	–	–		
			THREE	2	2	RBAK-10(2)	78-45/80-145,145R
						RBBK-14(2)	78-46/80-142,142R
		RECIRCULATION MANIFOLD A	ONE	–	–		
			TWO	2	2	RMAK-11,13A	77-88
			THREE	4	4	RMAK-4A,VBAK-6A	78-59,30
						RMAK-6A,17	80-48,49
		MANIFOLD B	ONE	–	–		
			TWO	–	–		
			THREE	6	5	RMBK-13A,13B	78-65,66
						RMBK-4A,6,17	80-42,43,41
		RECIRCULATION A (12")					
		RISER F	TWO	1	1	RRFK-6	77-43
		G	THREE	1	1	RRGK-6	78-36
		H	TWO	1	1	RRHK-6	77-43
		J	THREE	1	1	RRJK-6	78-35
		K	TWO	1	1	RRKK-6	77-43
		RECIRCULATION RISER A	TWO	1	1	RRAK-6	77-42
		B	TWO	1	1	RRBK-6	77-42
		C	THREE	1	1	RRCK-6	78-34
		RISER D	THREE	1	1	RRDK-6(2)	78-38/80-40
		E	TWO	1	1	RRAK-6	77-42
		REACTOR VESSEL BOTTOM HEAD DRAIN	THREE	3	–		
		STANDBY LIQUID CONTROL	THREE	2	–		

NORTHERN STATES POWER CO.
MONTICELLO NUCLEAR GENERATING PLANT
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MAJOR ITEM: PIPING PRESSURE BOUNDARY

SUB ITEM	EXAM CATE-GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
B4.10	B-K-2	(CONT'D)					
		CRD SCRAM HEADER	*				*ONLY PERIOD 3 REQ.
		HEADER A					
		CRD 26A-8" DB	THREE	1	1	CDAK-6	78-67
		CRD 13A-4" DB	THREE	1	1	CDAK-12(2)	78-48,48R/80-20
		CRD 14A-6" DB	THREE	1	1	CDAK-24(2)	78-49,49R/80-21
		CRD 15A-4" DB	THREE	1	1	CDAK-37(2)	78-47,47R/80-19,19R
		HEADER B	*				
		CRD 26B-8" DB	THREE	1	–		
		CRD 13B-4" DB	THREE	1	–		
		CRD 14B-6" DB	THREE	1	–		
		CRD 15B-4" DB	THREE	1	–		
		CRD SCRAM HEADER DISCHARGES					
	–	CRD16A-2"DB A	THREE	1	–		
		CRD16B-2"DB B	THREE	6	–		
		CRD SCRAM HEADER DRAIN					
		CRD18-2" B	THREE	1	–		
		SCRAM DISCHARGE VOLUME TANK					
		CRD18-12"DB	THREE	1	–		
B4.11	B-P	EXEMPTED COMPONENTS				ONE INCH AND LESS PRIMARY SYSTEM LINES THAT ARE EXEMPTED BY IWB-1220 (b)	-PLANT PERSONNEL- IWA-5000 AND IWB-5000
		VENT LINE	—	—	—	V15-1" ED	
		INSTRUMENT LINES A				1" DC	
		B				1" DC	
		C				1" DC	
		D				1" DC	

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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.
B4.11	B-P	(CONT'D)					
		CRD SYSTEM	—	—	—	1" LINES FROM CRD HYDRAULIC UNITS AND RECIRC RISERS	
		RECIRCULATION STANDBY LIQUID CONTROL	—	—	—	1" LINES FROM N10	
		RELIEF REQUEST LINES	—	—	—	LINES EXEMPTED FROM EXAMINATION BY RELIEF REQUEST AND EXCLUSION CRITERIA	
B4.12	B-G-2	PRESSURE RETAINING BOLTING				-FLANGES LOCATED BY NEAREST WELD JOINT-	
		MAIN STEAM A	ONE	3	3	MSAJ-18,20,24	74-123,124,125
			TWO	4	4	MSAJ-18,20,24,27	77-49(4) (REPEATED)
			THREE	4	4	MSAJ-18,22,24,27	78-62(4) (REPEATED)
		MAIN STEAM B	ONE	-	-		
			TWO	1	1	MSBJ-15	77-49
			THREE	1	1	MSBJ-19	78-63
		MAIN STEAM C	ONE	-	-		
			TWO	1	1	MSCJ-19	77-55
			THREE	1	1	MSCJ-19	80-188
		MAIN STEAM D	ONE	-	-		
			TWO	4	4	MSDJ-19,23,25,28	77-50
			THREE	4	4	MSDJ-19,23,25,28	80-187,186,185,184

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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.
B4.12	B-G-2	(CONT'D)					
		RESIDUAL HEAT REMOVAL TW 36	ONE	–	–		
			TWO	2	2	RHDJ-7,3	77-65
			THREE	2	–		
		RECIRCULATION A REW 26-4"	ONE	–	–		
			TWO	–	–		
			THREE	1	1	RCAJ-20	80-190
		RECIRCULATION B REW 27-4"	ONE	–	–		
			TWO	–	–		
			THREE	1	–		
		RECIRCULATION A BY-PASS, REW 24-4"	ONE	1	1	RBAJ-5	74-129
			TWO	–	–		
			THREE	1	1	RBAJ-5	78-50
		RECIRCULATION B BY-PASS, REW 25-4"	ONE	–	–		
			TWO	1	1	RBBJ-5	74-130
			THREE	1	1	RBBJ-M5	80-189

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MONTICELLO NUCLEAR GENERATING PLANT
INSERVICE INSPECTION–EXAMINATION SUMMARY

TABLE S1.5
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MAJOR ITEM: PUMP PRESSURE BOUNDARY

SUB ITEM	EXAM CATE-GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
B5.1 AND B5.3	B-G-1	PRESSURE RETAINING BOLTS AND STUDS, INPLACE					
		RECIRCULATION FLANGE BOLTS					
		PUMP A	ONE	16	16	BOLTS, 1-16	74-139
			TWO	10	10	BOLTS, 1-10	77-115
			THREE	6	–		
		PUMP B	ONE	16	16	BOLTS, 1-16	74-138
			TWO	9	9	BOLTS, 1-9	75B-114
				–	10	BOLTS, 1-10	77-116
			THREE	7	–		
B5.2	B-G-1	PRESSURE RETAINING* BOLTS AND STUDS WHEN REMOVED				(NOTE B5.7)	*RELIEF NO. 41
		RECIRCULATION FLANGE BOLTS					
		PUMP A OR B	THREE	16	–		
B5.4	B-K-1	INTEGRALLY WELDED SUPPORTS	–	–	–	*	*INCLUDED UNDER TABLE S4.1
B5.5	B-K-2	SUPPORT COMPONENTS	–	–	–	*	*INCLUDED UNDER TABLE S4.1
B5.6	B-L-1	PUMP CASING WELDS	–	–	–	-NONE-	
B5.7	B-L-2	PUMP CASINGS*				(NOTE B5.2)	*RELIEF NO. 41
		RECIRCULATION PUMP A OR B	THREE	1	–		

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MAJOR ITEM: PUMP PRESSURE BOUNDARY

SUB ITEM	EXAM CATE-GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
B5.8	B-P	EXEMPTED COMPONENTS	–	–	–	*	*INCLUDED IN SYSTEMS LISTED IN B4.11 OF TABLE S4.1
B5.9	B-G-2	PRESSURE RETAINING BOLTING					
		RECIRCULATION GLAND BOLTS					
		PUMP A	ONE	10	10	BOLTS, 1-10 (2)	74-118,135,137 REPL'D
			TWO	10	10	BOLTS, 1-10	77-118
			THREE	10	–		
		PUMP B	ONE	10	10	BOLTS, 1-10 (2)	74-106,107 REPL'D
			TWO	10	10	BOLTS, 1-10	77-118
			THREE	10	–		

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TABLE S1.6
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MAJOR ITEM: VALVE PRESSURE BOUNDARY

SUB ITEM	EXAM CATE-GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
B6.1 AND B6.3	B-G-1	PRESSURE RETAINING BOLTS AND STUDS, IN PLACE					RELIEF NO. 24
		RECIRCULATION A MO2-53A	ONE	–	–		
			TWO	12	12	BOLTS, 1-12	77-112
			THREE	12	–		(NOTE B6.2)
		MO2-43A	ONE	–	–		
			TWO	12	12	BOLTS, 1-12	77-111
			THREE	12	–		
		RECIRCULATION B MO2-53B	ONE	–	–		
			TWO	12	12	BOLTS, 1-12	77-114
			THREE	12	–		
		MO2-43B	ONE	–	–		
			TWO	12	12	BOLTS, 1-12	77-113
			THREE	12	–		
B6.2 AND B6.3	B-G-1	PRESSURE RETAINING * BOLTS AND STUDS, WHEN REMOVED					RELIEF NO. 42
		RECIRCULATION A MO2-53A MO2-43A MO2-53B MO2-43B	THREE	24	–		(NOTE B6.7)
B6.4	B-K-1	INTEGRALLY WELDED SUPPORTS	–	–	–	*	*INCLUDED UNDER TABLE S4.1
B6.5	B-K-2	SUPPORT COMPONENTS	–	–	–	*	*INCLUDED UNDER TABLE S4.1

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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.
B6.6	B-M-1	VALVE BODY WELDS	–	–	–	–NONE–	
B6.7	B-M-2	VALVE BODIES*					*EXAMINE THE INTERNALS OF ONE VALVE UNDER EACH TYPE
		ATWOOD MORRILL GLOBE VALVES	THREE	1	–		
		MAIN STEAM A A02-80A A02-86A	THREE	1	1		80-126
		MAIN STEAM B A02-80B A02-86B					
		MAIN STEAM C A02-80C A02-86C					
		MAIN STEAM D A02-80D A02-86D					
		TARGET ROCK RELIEF VALVES	THREE	1	–		
		MAIN STEAM A RV2-71A RV2-71E					
		MAIN STEAM B RV2-71B RV2-71G					
		MAIN STEAM C RV2-71C RV2-71H					
		MAIN STEAM D RV2-71D RV2-71F					

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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.
		ANCHOR CHECK VALVE	THREE	1	-		
		FEEDWATER A FW-97-2 FW-94-2					
		FEEDWATER B FW-97-1 FW-94-1					
		ATWOOD MORRILL CHECK VALVE	THREE	1	-		
		RHR-TW20 A010-46B RHR-TW-30 A010-46A					
		ROCKWELL CHECK VALVE	THREE	1	-		
		CORE SPRAY A A014-13B					
		CORE SPRAY B A014-13A					
		ANCHOR CHECK VALVE					
		CORE SPRAY A POS-175B MO-1754					
		CORE SPRAY B POS-1757 MO-1753					

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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.
B6.7	B-M-2	HPCI-STEAM MO-2034 MO-2035					
		RHR-REW10 MO-2029 MO-2030 POS-2028					
		FEEDWATER A FW-98-2					
		FEEDWATER B FW-98-1					
		RHR-TW20 POS-2019 MO-2015					
		RHR-TW30 POS-2018 M-2014					
		CRANE CHAPMAN GATE VALVE	THREE	1	-		
		RECIRCULATION MANIFOLD MO2-65A MO2-65B					
		RECIRCULATION A MO2-53A MO2-43A					
		RECIRCULATION B MO2-53B MO2-43B					

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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.
B6.8	B-P	EXEMPTED COMPONENTS	—	—		*	*INCLUDED IN SYSTEMS LISTED IN B4.11 OF TABLE S4.1
B6.9	B-G-2	PRESSURE RETAINING BOLTING		*			*REQUIRED AMOUNT INDICATED REFLECTS ALL BOLTING FOR EACH RESPECTIVE VALVE SCHEDULED
		MAIN STEAM A					
		PS 1-18" ED					
		A02-80 A	ONE	1	1	A02-80 A	73-119
		A02-86 A	THREE	1	1	A02-86 A	78-125
		MAIN STEAM B					
		PS2-18" ED					
		A02-80 B	TWO	1	1	A02-80 B	77-49
		A02-86 B	THREE	1	1	A02-86 B	78-126
		MAIN STEAM C					
		PS3-18" ED					
		A02-86 C	TWO	1	1	A02-86 C	77-87
		A02-80C	THREE	1	1	A02-80C	80-99
		MAIN STEAM D					
		PS4-18" ED					
		A02-80 D	TWO	1	1	A02-80D	77-50
		A02-86 D	THREE	1	1	A02-86D	80-26
		MAIN STEAM -RELIEF VALVES-					
		MAIN STEAM A					
		RV2-71 E	ONE	1	1	RV2-71 E (2)	73-129/77-177R
		RV2-71A	THREE	1	1	RV2-71 A	78-62 (REPEAT)

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MONTICELLO NUCLEAR GENERATING PLANT
INSERVICE INSPECTION–EXAMINATION SUMMARY

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MAJOR ITEM: VALVE PRESSURE BOUNDARY

SUB ITEM	EXAM CATE-GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
B6.9	B-G-2	(CONT'D)					
		MAIN STEAM B					
		RV2-71 B	ONE	1	1	RV2-71 B	73-115 (REPEAT)
		RV2-71 G	THREE	1	2	RV2-71B, RV2-71G	78-63
		MAIN STEAM C					
		RV2-71 C	ONE	1	1	RV2-71C	73-113, 114
		RV2-71 H	THREE	1	–		
		MAIN STEAM D					
		RV2-71 F	ONE	1	1	RV2-71 F	73-112, 116 (REPEAT)
		RV2-71 D	THREE	1	–		
		FEEDWATER A					
		FW-98-2	ONE	1	1	FW-98-2	73-104
		FW-97-2	ONE	1	1	FW-97-2	73-118
		FW-94-2	THREE	1	1	FW-94-2	78-64
		FEEDWATER B					
		FW-94-1	TWO	1	1	FW-94-1	77-85
		FW-97-1	TWO	1	1	FW-97-1	73-102/77-85
		FW-98-1	THREE	1	1	FW-98-1	78-61 (REPEAT)
		HPCI - STEAM					
		MO-2034	TWO	1	1	MO-2034	77-107
		MO-2035	THREE	1	–		
		CORE SPRAY A					
		MO-1754	TWO	1	1	MO-1754	77-109
		AO14-13 B	TWO	1	1	AO14-13 B	77-109
		POS-1758	THREE	1	1	POS-1758	80-102

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MAJOR ITEM: VALVE PRESSURE BOUNDARY

SUB ITEM	EXAM CATE-GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
B6.9	B-G-2	(CONT'D)					
		CORE SPRAY B					
		MO-1753	TWO	1	1	MO-1753	77-108
		AO14-13 A	THREE	1	–		
		POS-1757	THREE	1	–		
		REACTOR WATER CLEAN UP					
		MO-2398	TWO	1	1	MO-2398	77-91
		RC-1	TWO	1	1	RC-1	77-91
		MO-2397	THREE	1	1	MO-2397	80-98
		RESIDUAL HEAT REMOVAL					
		REW10-18" ED					
		POS-2028	TWO	1	1	POS-2028	77-106
		MO-2030	TWO	1	1	MO-2030	77-157
		MO-2029	THREE	1	–		
		TW20-16" DB					
		POS-2019	TWO	1	1	POS-2019	77-105
		AO10-46 B	TWO	1	1	AO10-46B	77-105
		MO-2015	THREE	1	1	MO-2015	80-80
		TW30-16" DB					
		MO-2014	TWO	1	1	MO-2014	77-104
		POS-2018	TWO	1	1	POS-2018	77-104
		AO10-46 A	THREE	1	–		
		TW36-4" ED					
		RHR-21	TWO	1	1	RHR-21	77-100
		MO-2027	THREE	1	–		
		REACTOR CORE INJECTION COOLANT -STEAM-					
		MO-2076	TWO	1	1	MO-2076	77-101
		MO-2075	THREE	1	1	MO-2075	80-96

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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.
B6.9	B-G-2	(CONT'D)					
		RECIRCULATION A BYPASS REW 24-4"					
		MO2-54 A	TWO	1	1	MO2-54 A	77-52
			THREE	–	–		
		RECIRCULATION B BYPASS REW 25-4"					
		MO2-54 B	THREE	1	1	MO2-54 B	78-42
		RECIRCULATION MANIFOLD A REW 32-22"					
		MO2-65 A	TWO	1	1	MO2-65 A	77-102
		MO2-66 A	THREE	1	1	MO2-66 A	78-39
		B REW 32-22"					
		MO2-66 B	TWO	1	1	MO2-66 B	77-103
		MO2-65 B	THREE	1	–		
		BOTTOM HEAD DRAIN REW 31-2" ED					
		XDV-4	THREE	1	1	XDV-4	80-97
		STANDBY LIQUID CONTROL CH2-1 1/2 DC					
		XP-6	–	–	–		
		XP-7	THREE	1	–		
		XP-8	–	–	–		
		MAIN STEAM DRAIN PS15-3" ED					
		MO-2374	TWO	1	1	MO-2374	77-86
		MO-2373	THREE	1	–		

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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.
B6.9	B-G-2	(CONT'D)					
		RECIRCULATION A DRAIN REW 28-2"	-	-	-	-RELIEF NO. 22-	XR-6-1 XR-7-1
		RECIRCULATION B DRAIN REW 29-2"	-	-	-	-RELIEF NO. 22-	XR-6-2 XR-7-2
		CRD SCRAM HEADER DRAIN LINE CRD18-2" DB	-	-	-		

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MONTICELLO NUCLEAR GENERATING PLANT
BASELINE COMPARISON CLASS I

COMPONENT/SYSTEM	NSP ISO	NDE METHOD	BASELINE IDENT.	REPORT NO.	BASELINE INDICATIONS	ISI INDICATIONS	EXAMINATION LIMITATIONS
B1.4 PRIMARY NOZZLE TO VESSEL WELDS AND INSIDE RADIUSED SECTION							
MAINSTEAM B N3B MSBD-1	2	UT	MSBD-1	80-118	NONE	NONE	NONE
		UT		80-121	NONE	NONE	NONE
		UT		80-123	NONE	NONE	INSULATION 3:00 to 6:00 ALL SCANS
		UT		80-138	NONE	NONE	INSULATION 5:30 to 6:30 ALL SCANS
		UT		80-141	NONE	NONE	INSULATION 5:30 to 6:30 ALL SCANS
MAINSTEAM D N3D MSDD-1	4	UT	MSDD-1	80-119	NONE	NONE	NONE
		UT		80-122	NONE	NONE	NONE
		UT		80-124	NONE	NONE	NONE
		UT		80-139	NONE	NONE	INSULATION 5:30 to 6:30 ALL SCANS
		UT		80-140	NONE	NONE	INSULATION 5:30 to 6:30 ALL SCANS

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BASELINE COMPARISON CLASS I

COMPONENT/SYSTEM	NSP ISO	NDE METHOD	BASELINE IDENT.	REPORT NO.	BASELINE INDICATIONS	ISI INDICATIONS	EXAMINATION LIMITATIONS
B1.4 Continued							
FEEDWATER A N4A FWAD-1	5A	UT	FWAD-1	80-177	NONE	NONE	NONE
		UT		80-178	NONE	BORE REFLECTORS	NONE
FEEDWATER B N4B FWBD-1	5A	UT	FWBD-1	80-69	NONE	NONE	HEAT SENSOR 7:00 TO 9:00 & @ 11:00
		UT		80-78	NONE	NONE	HEAT SENSOR 7:00 TO 9:00
FEEDWATER C N4C FWCD-1	5B	UT	FWCD-1	80-154	NONE	NONE	HEAT SENSOR 7:00 TO 9:00
		UT		80-155	NONE	NONE	NONE
FEEDWATER D N4D FWDD-1	5B	UT	FWDD-1	80-74	NONE	NONE	INSULATION 2:30 TO 3:30 8:00 TO 10:00
		UT		80-77	NONE	NONE	HEAT SENSOR @ 12:00
		UT		80-85	NONE	NONE	NONE
		UT		80-93	NONE	NONE	NONE
		UT		80-95	NONE	NONE	NONE

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MONTICELLO NUCLEAR GENERATING PLANT
BASELINE COMPARISON CLASS I

COMPONENT/SYSTEM	NSP ISO	NDE METHOD	BASELINE IDENT.	REPORT NO.	BASELINE INDICATIONS	ISI INDICATIONS	EXAMINATION LIMITATIONS
B1.4 Continued							
CORE SPRAY A N5A CSAD-1	6A	UT	CSAD-1	80-73	NONE	NONE	INSULATION 2:00 TO 4:00 & 8:00 TO 10:00
		UT		80-76	NONE	NONE	NONE
		UT		80-86	NONE	SPOT 56%, 1/2" LONG 75%	NONE
		UT		80-92	NONE	NONE	NONE
		UT		80-94	NONE	NONE	NONE

NORTHERN STATES POWER COMPANY
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COMPONENT/SYSTEM	NSP ISO	NDE METHOD	BASELINE IDENT.	REPORT NO.	BASELINE INDICATIONS	ISI INDICATIONS	EXAMINATION LIMITATIONS
B1.6 NOZZLE TO SAFE END WELDS							
CORE SPRAY A CSAF-2	6A	UT	CSAF-2	80-175,	NONE	S-1, ID SPOT 20% S-2, ID GEO 50%, 60%	NONE
			SAFE END	80-175A	--	NONE	NONE
		PT	CSAF-2	80-64	NONE	1/4" linear	NONE
				80-64R	NONE	NONE-INDICATION BLENDED OUT	NONE
CORE SPRAY B CSBF-2	6B	UT	CSBF-2	80-176,	NONE	NONE	NONE
			SAFE END	80-176A	NONE	NONE	NONE
		PT	CSAF-2	80-56	NONE	NONE	NONE
CONTROL ROD HYDRAULIC RETURNS CRAF-2	10	UT	CRAF-2	80-181	NONE	NONE	NONE
		PT		80-167	--	1/8" LINEAR	NONE
				80-167R	--	NONE-INDICATION BLENDED OUT	NONE

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COMPONENT/SYSTEM	NSP ISO	NDE METHOD	BASELINE IDENT.	REPORT NO.	BASELINE INDICATIONS	ISI INDICATIONS	EXAMINATION LIMITATIONS
B4.1 SAFE END TO PIPING AND SAFE END IN BRANCH IN PIPING WELDS							
CORE SPRAY A CSAF-10	6A	UT	CSAF-10	80-103	NONE	S-2, ID GEO, 30%	NONE
		PT		80-71	--	NONE	NONE
CSAF-14	6A	UT	CSAF-14	80-88	NONE	NONE	NONE
		PT		80-72	--	NONE	NONE
CSAF-18	6A	UT	CSAF-18	80-89	NONE	NONE	NONE
		PT		80-70	--	NONE	NONE
CORE SPRAY B CSBF-9	6B	UT	CSBF-9	80-66	NONE	NONE	S-2,11:00 to 1:00, RESTRAINT, 4:00 TO 8:00, E.I.R.
		PT		80-59	--	NONE	NONE
RESIDUAL HEAT REMOVAL RHBF-20	11B	UT	RHBF-20	80-106	--	S-1, ID GEO, 45%	NONE
		PT		80-79	--	NONE	NONE
RHBF-24	11B	UT	RHBF-24	80-105	--	S-2, ID GEO, 40%	S-2, LIMITED 4:00 TO 6:00, HANGER
		PT		80-82	--	NONE	NONE

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COMPONENT/SYSTEM	NSP ISO	NDE METHOD	BASELINE IDENT.	REPORT NO.	BASELINE INDICATIONS	ISI INDICATIONS	EXAMINATION LIMITATIONS
B4.1 Continued							
RHCF-20	11C	UT	RHCF-20	80-104	NONE	S-2, ID & OD GEO, 40%	NONE
		PT		80-81	--	NONE	NONE
B4.5 CIRCUMFERENTIAL AND LONGITUDINAL WELDS							
MAINSTEAM A MSAJ-24	1	UT	MSAJ-24	80-198	NONE	NONE	NO S-2, FLANGE
MAINSTEAM B MSBJ-30	2	UT	MSBJ-30	80-107	PROBABLE MISMATCH	S-1, ID GEO, 30% S-2, ID GEO, 50%	NONE
MAINSTEAM C MSCJ-4	3	UT	MSCJ-4	80-131	PROBABLE MISMATCH	S-2, ID GEO, 50%	NONE
MSCJ-11	3	UT	MSCJ-11	80-109	NONE	S-2, ID GEO, 35%	NONE
MSCJ-23	3	UT	MSCJ-23	80-108	PROBABLE MISMATCH	NONE	NONE
MAINSTEAM D MSDJ-3	4	UT	MSDJ-3	80-125	PROBABLE MISMATCH & WELD PREP	S-2, ID GEO, 25%	NONE
MSDJ-10	4	UT	MSDJ-10	80-113	NONE	NONE	S-1, 11:00 TO 1:00, ELBOW I. R.

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COMPONENT/SYSTEM	NSP ISO	NDE METHOD	BASELINE IDENT.	REPORT NO.	BASELINE INDICATIONS	ISI INDICATIONS	EXAMINATION LIMITATIONS
B4.5 Continued							
MSDJ-28	4	UT	MSDJ-28	80-199	NONE	S-1, OD GEO, 55%, 360° INTERMITTENT S-2, OD GEO, 50%, 360° INTERMITTENT	NONE
CORE SPRAY A CSAJ-2A	6A	UT	CSAJ-2A	80-168	S-1, ID GEO 100% DAC, 8" S-2, ID GEO 50% S-3, ID GEO 50%	S-1, 2:00 TO 3:00 3-1/2" LONG, 150%, 9:00, SPOT, 150%	NONE
		UT	SAFE END	80-168A	--	S-1, 2, THREADS 70%	NONE
CSAJ-3	6A	UT	CSAJ-3	80-87	S-2, 100% DAC/GEO	S-1, ID GEO, 90% S-2, ID GEO, 75%	S-2, REDUCER
CSAJ-4	6A	UT	CSAJ-4	80-90	NONE	NONE	NO S-2, HANGER
CSAJ-5	6A	UT	CSAJ-5	80-91	NONE	NONE	S-1, 2, 3, 4 HANGER
CSAJ-8	6A	UT	CSAJ-8	80-67	NONE	S-1, OD GEO, 46%	S-1, 4:00 to 8:00, IR S-2, 12:00, BRANCH CONNECTION
CSAJ-9	6A	UT	CSAJ-9	80-68	NONE	NONE	S-2, 4:30 TO 7:30, HANGER
CSAJ-13	6A	UT	CSAJ-13	80-83	NONE	S-1, ID GEO, 60%	NO S-2, ADJACENT WELD

NORTHERN STATES POWER COMPANY
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COMPONENT/SYSTEM	NSP ISO	NDE METHOD	BASELINE IDENT.	REPORT NO.	BASELINE INDICATIONS	ISI INDICATIONS	EXAMINATION LIMITATIONS
B4.5 Continued							
CORE SPRAY B CSBJ-2A	6B	UT	CSBJ-2A	80-170	NONE	S-1, IMPEDANCE MISMATCH, 30% S-2, THREADS, 40%	NONE
		UT	SAFE END	80-170A	NONE	S-1, 2 THREADS, 45%	NONE
CSBJ-3	6B	UT	CSBJ-3	80-55	S-4, 40% DAC/SPOT	NONE	S-2, REDUCER
CSBJ-4	6B	UT	CSBJ-4	80-53	S-1, 50% DAC/SPOT	NONE	NONE
CSBJ-5	6B	UT	CSBJ-5	80-65	NONE	NONE	S-1, 2, 3, 4,HANGER ON WELD
CSBJ-8	6B	UT	CSBJ-8	80-54	NONE	NONE	NONE
CSBJ-10	6B	UT	CSBJ-10	80-84	NONE	NONE	NO S-1, VALVE
RESIDUAL HEAT REMOVAL RHAJ-20	11A	UT	RHAJ-20	80-112	NONE	NONE	NO S-1, VALVE
RHAJ-21	11A	UT	RHAJ-21	80-115	NONE	NONE	NONE
RHCJ-1	11C	UT	RHCJ-1	80-148	NONE	NONE	S-1, 11:00 TO 1:00, ELBOW I. R. NO S-2, TEE

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COMPONENT/SYSTEM	NSP ISO	NDE METHOD	BASELINE IDENT.	REPORT NO.	BASELINE INDICATIONS	ISI INDICATIONS	EXAMINATION LIMITATIONS
B4.5 Continued							
RECIRCULATION A							
RCAJ-4	13A	UT	RCAJ-4	80-164	NONE	S-1, ID & OD GEO, <50%	NONE
RCAJ-6	13A	UT	RCAJ-6	80-174	NONE	S-1, ID GEO, 50%	S-2, CONFIGURATION
RCAJ-9	13A	UT	RCAJ-9	80-171	NONE	NONE	S-1, CONFIGURATION NO S-2, METAL BAND
RCAJ-35	13A	UT	RCAJ-35	80-179	NONE	NONE	NO S-1, METAL BAND
RECIRCULATION B							
RCBJ-4	13B	UT	RCBJ-4	80-173	NONE	NONE	NONE
RCBJ-31	13B	UT	RCBJ-31	80-180	NONE	NONE	NONE
		UT		80-180A	NONE	S-12, ID GEO,40%	NO SCAN 6:00 TO 8:00 INSULATION BAND
RCBJ-34	13B	UT	RCBJ-34	80-172	NONE	NONE	S-1, BAND 4" BELOW WELD S-2, CONFIGURATION
RECIRCULATION BYPASS A							
RBAJ-M3	13AA	UT	RBAJ-M3	80-160	NONE	NONE	S-2, 11:00 TO 1:00, TEE
RBAJ-M15	13AA	UT	RBAJ-M15	80-153	NONE	NONE	S-1, 2:00 TO 4:00, ELBOW I. R.

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COMPONENT/SYSTEM	NSP ISO	NDE METHOD	BASELINE IDENT.	REPORT NO.	BASELINE INDICATIONS	ISI INDICATIONS	EXAMINATION LIMITATIONS
B4.5 Continued							
RECIRCULATION BYPASS B							
RBBJ-M3	13BB	UT	RBBJ-M3	80-162	NONE	NONE	S-2, 10:30 TO 1:30, TEE
RBBJ-M18	13BB	UT	RBBJ-M18	80-152	NONE	NONE	NONE
RECIRCULATION MANIFOLD							
RMAJ-7	13C	UT	RMAJ-7	80-133	NONE	NONE	NO S-1, TEE
RMAJ-8	13C	UT	RMAJ-8	80-149	NONE	NONE	S-1, 2, 3, 4, WELD CONFIGURATION
RMAJ-10	13C	UT	RMAJ-10	80-134	NONE	S-2, ID GEO 360°, 50% S-5, ID GEO SPOT, 30%	NO S-1, TEE
RECIRCULATION RISERS							
RISER F							
RRFJ-7	13C	UT	RRFJ-7	80-166	NONE	S-2, ID GEO, 80% OD GEO, 70% S-5, 6, ID GEO, 70%, OD GEO, 100%	NO S-1, CONFIGURATION
RISER H							
RRHJ-7	13C	UT	RRHJ-7	80-135	NONE	S-1, ID GEO, 360°, 50% S-2, OD GEO, 360°, 80% S-4, OD GEO SPOT, 40%	NONE
		UT		80-158	--	NONE	NONE

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BASELINE COMPARISON CLASS I

COMPONENT/SYSTEM	NSP ISO	NDE METHOD	BASELINE IDENT.	REPORT NO.	BASELINE INDICATIONS	ISI INDICATIONS	EXAMINATION LIMITATIONS
B4.6 BRANCH PIPE CONNECTIONS EXCEEDING SIX INCH DIAMETER							
RECIRCULATION MANIFOLD RMAJ-3	13C	UT	RMAJ-3	80-165	NONE	NONE	NO S-2, CONFIGURATION
B4.7 BRANCH PIPE CONNECTION WELDS SIX INCH DIAMETER AND SMALLER							
MAINSTEAM A MSAJ-23	1	MT	MSAJ-23	80-183	--	NONE	NONE
MAINSTEAM C MSCJ-18	3	MT	MSCJ-18	80-182	--	NONE	NONE
RECIRCULATION A RBAJ-2	13AA	UT	RBAJ-2	80-163	NONE	NONE	NO S-1, CONFIGURATION
		PT		80-169	--	NONE	NONE
RBAJ-16	13AA	UT	RBAJ-16	80-151	NONE	NONE	NO S-2, CONFIGURATION
		PT		80-157	--	NONE	NONE
RECIRCULATION B RBBJ-2	13BB	UT	RBBJ-2	80-161	NONE	NONE	NO S-1, CONFIGURATION
		PT		80-159	--	NONE	NONE

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COMPONENT/SYSTEM	NSP ISO	NDE METHOD	BASELINE IDENT.	REPORT NO.	BASELINE INDICATIONS	ISI INDICATIONS	EXAMINATION LIMITATIONS
B4.7 Continued							
RBBJ-19	13BB	UT	RBBJ-19	80-150	NONE	NONE	NO S-2, CONFIGURATION
		PT		80-156	--	NONE	NONE
B4.8 SOCKET WELDS							
REACTOR VESSEL BOTTOM HEAD DRAIN							
HDAJ-41	21	MT	HDAJ-41	80-100	--	NONE	NONE
HDAJ-45	21	MT	HDAJ-45	80-100	--	NONE	NONE
HDAJ-46	21	MT	HDAJ-46	80-100	--	NONE	NONE
B4.9 INTEGRALLY WELDED SUPPORTS							
MAINSTEAM C							
MSCK-7	3	UT	MSCK-7	80-132	--	NONE	NONE
		MT		80-130	--	NONE	NONE
		VT		80-128	--	NONE	NONE
MAINSTEAM D							
MSDK-32	4	UT	MSDK-32	80-110	--	NONE	2 LUGS INSULATED
		MT		80-101	--	NONE	2 LUGS INSULATED
		VT		80-127	--	NONE	2 LUGS INSULATED

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COMPONENT/SYSTEM	NSP ISO	NDE METHOD	BASELINE IDENT.	REPORT NO.	BASELINE INDICATIONS	ISI INDICATIONS	EXAMINATION LIMITATIONS
B4.9 Continued							
RESIDUAL HEAT REMOVAL RHAK-22	11A	UT	RHAK-22	80-114	--	NONE	NONE
		MT		80-136	--	NONE	NONE
		VT		80-129	--	NON-CONFORMING HANGER	NONE
		VT		80-129R		HANGER DESIGN RE-EVALUATED	NONE
RECIRCULATION A PSSA-5	13A	VT	PSSA-5	80-137	--	NONE	NONE
B4.10 SUPPORT COMPONENTS							
MAINSTEAM B - MSBK-17	2	VT	MSBK-17	80-46	--	LOOSE NUT	NONE
		VT		80-46R		NONE; NUT TIGHTENED	NONE
MAINSTEAM D MSDK-15	4	VT	MSDK-15	80-47	--	NONE	NONE
FEED WATER A FWAK-26	5A	VT	FWAK-26	80-44	--	NONE	NONE
FEED WATER D FWDK-14	14	VT	FWDK-14	80-45	--	NONE	BOTTOM BOLTS INSULATED
CORE SPRAY B CSBK-6	6B	VT	CSBK-6	80-62	--	LOOSE NUT	NONE
		VT		80-62R	--	NONE; NUT TIGHTENED	NONE

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COMPONENT/SYSTEM	NSP ISO	NDE METHOD	BASELINE IDENT.	REPORT NO.	BASELINE INDICATIONS	ISI INDICATIONS	EXAMINATION LIMITATIONS
B4.10 Continued							
REACTOR WATER CLEAN UP							
CWAK-15	9	VT	CWAK-15	80-63	--	LOOSE NUT	NONE
		VT		80-63R	--	NONE-NUT TIGHTENED	NONE
RESIDUAL HEAT REMOVAL							
RHCK-9	11C	VT	RHCK-9	80-39	--	NONE	NONE
RHCK-10	11C	VT	RHCK-10	80-38	--	NONE	NONE
RECIRCULATION A							
RCAK-29	13A	VT	RCAK-29	80-146	--	NONE	NONE
RCAK-22A	13A	VT	RCAK-22A	80-147	--	NONE	NONE
RECIRCULATION B							
RCBK-12	13B	VT	RCBK-12	80-144	--	NONE	NONE
RCBK-20A	13B	VT	RCBK-20A	80-143	--	NONE	NONE
RECIRCULATION BYPASS (A&B)							
RBAK-10	13AA	VT	RBAK-10	80-145	--	LOOSE BOLT	NONE
		VT		80-145R	--	NONE-BOLT TIGHTENED	NONE
RBBK-14	13BB	VT	RBBK-14	80-142	--	LOOSE NUT	NONE
		VT		80-142R	--	NONE-NUT TIGHTENED	NONE

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COMPONENT/SYSTEM	NSP ISO	NDE METHOD	BASELINE IDENT.	REPORT NO.	BASELINE INDICATIONS	ISI INDICATIONS	EXAMINATION LIMITATIONS
B4.10 Continued							
RECIRCULATION MANIFOLD A							
RMAK-6A	13C	VT	RMAK-6A	80-48	--	NONE	NONE
RMAK-17	13C	VT	RMAK-17	80-49	--	NONE	NONE
RECIRCULATION MANIFOLD B							
RMBK-4A	13D	VT	RMBK-4A	80-42	--	NONE	NONE
RMBK-6	13D	VT	RMBK-6	80-43	--	NONE	NONE
RMBK-17	13D	VT	RMBK-17	80-41	--	NONE	NONE
RECIRCULATION B RISER D							
RRDK-6	13D	VT	RRDK-6	80-40	--	NONE	NONE
CRD SCRAM HEADER							
CDAK-12	24A	VT	CDAK-12	80-20	--	NONE	NONE
CDAK-24	24A	VT	CDAK-24	80-21	--	NONE	NONE
CDAK-37	24A	VT	CDAK-37	80-19	--	LOOSE NUT	NONE
		VT		80-19R	--	NONE; NUT TIGHTENED	NONE
B4.12 PRESSURE RETAINING BOLTING							
MAINSTEAM C							
MSCJ-19	3	VT	MSCJ-19	80-188	--	NONE	NONE
MAINSTEAM D							
MSDJ-19	4	VT	MSDJ-19	80-187	--	NONE	NONE

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COMPONENT/SYSTEM	NSP ISO	NDE METHOD	BASELINE IDENT.	REPORT NO.	BASELINE INDICATIONS	ISI INDICATIONS	EXAMINATION LIMITATIONS
B4.12 Continued							
MSDJ-23	4	VT	MSDJ-23	80-186	--	NONE	NONE
MSDJ-25	4	VT	MSDJ-25	80-185	--	NONE	NONE
MSDJ-28	4	VT	MSDJ-28	80-184	--	NONE	NONE
RECIRCULATION A RCAJ-20	13A	VT	RCAJ-20	80-190	--	NONE	NONE
RECIRCULATION BYPASS B RBBJ-M5	13BB	VT	RBBJ-M5	80-189	--	NONE	NONE
B6.7 VALVE BODIES							
MAINSTEAM A - A02-86A	1	VT	A02-86A	80-126	--	NONE	NONE
B6.9 PRESSURE RETAINING BOLTING							
MAINSTEAM C A02-80C	3	VT	A02-80C	80-99	--	NONE	NONE
MAINSTEAM D A02-86D	4	VT	A02-86D	80-26	--	NONE	NONE
CORE SPRAY A POS-1758	6A	VT	POS-1758	80-102	--	NONE	NONE

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COMPONENT/SYSTEM	NSP ISO	NDE METHOD	BASELINE IDENT.	REPORT NO.	BASELINE INDICATIONS	ISI INDICATIONS	EXAMINATION LIMITATIONS
B6.9 Continued							
REACTOR WATER CLEAN UP MO-2397	9	VT	MO-2397	80-98	--	NONE	NONE
RESIDUAL HEAT REMOVAL MO-2015	11B	VT	MO-2015	80-80	--	NONE	NONE
REACTOR CORE INJECTION COOLANT MO-2075	12	VT	MO-2075	80-96	--	NONE	NONE
BOTTOM HEAD DRAIN XDV-4	21	VT	XDV-4	80-97	--	NONE	NONE

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ISOMETRIC SUMMARY CLASS 1

NSP ISO NUMBER	REVISION	COMPONENT OR SYSTEM	LOOP	LINE SIZE	LINE NUMBER	UT - CAL. STANDARD
ISI-1	0	MAIN STEAM	A	18"	PS1-18" ED	8
			A	2"	PS15A-2" ED	-
			A	6"	PSI-6" ED	6
ISI-2	0	MAIN STEAM	B	18"	PS2-18" ED	8
			B	2"	PS15B-2" ED	-
			B	6"	PS2-6" ED	6
ISI-3	0	MAIN STEAM	C	18"	PS3-18" ED	8
			C	2"	PS15-C-2" ED	-
			C	6"	PS3-6" ED	6
ISI-4	0	MAIN STEAM	D	18"	PS4-18" ED	8
			D	2"	PS15D-2" ED	-
			D	6"	PS4-6" ED	6
ISI-5A	0	FEEDWATER	A&B	10"	FW2B-10" ED	28
			A&B	14"	FW2B-14" ED	23
ISI-5B	0	FEEDWATER	C&D	10"	FW2A-10" ED	28
			C&D	14"	FW2A-14" ED	23
ISI-6A	0	CORE SPRAY	A	8"	TW7-8" ED	5
			A	8"	TW7-8" EF	11/36
ISI-6B	0	CORE SPRAY	B	8"	TW11-8" ED	5
			B	8"	TW11-8" EF	11/36
ISI-7	0	HIGH PRESSURE COOLANT INJECTION-STEAM	-	8"	PS18-8" ED	5/11
ISI-9	0	REACTOR WATER CLEANUP	-	4"	REW3-4" ED	4
					REW3-4" EF	12-2
ISI-10	0	REACTOR VESSEL NOZZLE #9 (CRD7-3" EF REROUTED AND N9 CAPPED)	-	3"	CAPPED	18

NORTHERN STATES POWER CO.
MONTICELLO NUCLEAR GENERATING PLANT
ISOMETRIC SUMMARY CLASS 1

TABLE III

NSP ISO NUMBER	REVISION	COMPONENT OR SYSTEM	LOOP	LINE SIZE	LINE NUMBER	UT - CAL. STANDARD
ISI-11A	0	RESIDUAL HEAT REMOVAL	A	18"	REW10-18" ED	8
			A	18"	REW10-18" EF	25
ISI-11B	0	RESIDUAL HEAT REMOVAL	B	16"	TW20-16" DB	10
			B	16"	TW20-16" DC	24
			B	18"	TW20-18" DC	25
ISI-11C	0	RESIDUAL HEAT REMOVAL	A	16"	TW30-16" DB	10
			A	16"	TW30-16" DC	24
			A	18"	TW30-18" DC	25
ISI-11D	0	RESIDUAL HEAT REMOVAL	-	4"	TW36-4" ED	4
ISI-12	0	REACTOR CORE INJECTION COOLANT-STEAM	-	3"	PS17-3" ED	1
ISI-13A	0	RECIRCULATION	A	28"	REW13A-28"	27
ISI-13A-	0	(RECIRCULATION PUMP A SUPPORTS)	A	4"	REW26-4"	12-2
SHT.2			A	2"	REW28-2" EF	-
ISI-13AA	0	RECIRCULATION A BYPASS	A	4"	REW24-4"	12-2
ISI-13B	0	RECIRCULATION	B	28"	REW13B-28"	27
ISI-13B-	0	(RECIRCULATION PUMP B SUPPORTS)	B	4"	REW27-4"	12-2
SHT.2			B	2"	REW29-2" EF	-
ISI-13BB	0	RECIRCULATION B BYPASS	B	4"	REW25-4"	12-2
ISI-13C	0	RECIRCULATION MANIFOLD	A	22"	REW32-22"	26
		RISER F		12"	REW14-12"	22
		RISER G		12"	REW15-12"	22
		RISER H		12"	REW16-12"	22
		RISER J		12"	REW17-12"	22
		RISER K		12"	REW18-12"	22

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NSP ISO NUMBER	REVISION	COMPONENT OR SYSTEM	LOOP	LINE SIZE	LINE NUMBER	UT - CAL. STANDARD
ISI-13D	0	RECIRCULATION MANIFOLD	B	22"	REW32-22"	26
		RISER A		12"	REW23-12"	22
		RISER B		12"	REW22-12"	22
		RISER C		12"	REW21-12"	22
		RISER D		12"	REW20-12"	22
		RISER E		12"	REW19-12"	22
ISI-14	0	HEAD SPARE	-	-	N6B	3
ISI-15	0	HEAD VENT	-	-	N7	3
ISI-16	0	JET PUMP INSTRUMENTATION	A&B	-	N8A & N8B	-
ISI-17	0	STANDBY LIQUID CONTROL	-	2"	N10	-
ISI-18	0	INSTRUMENT NOZZLES	A&B	-	N11A & N11B	-
ISI-19	0	INSTRUMENT NOZZLES	A&B	-	N12A & N12B	-
ISI-21	0	BOTTOM HEAD DRAIN	-	2"	REW31-2" ED	16
ISI-22	0	STANDBY LIQUID CONTROL	-	1½"	CH2-1½" DC	17
				1½"	CH2-1½" EF	
ISI-23	0	MAIN STREAM CONDENSATE LEAKOFF	-	3"	PS15-3" EB	1
			-	3"	PS15-3" ED	1
ISI-24A	0	CRD SCRAM HEADER	A	8"	CRD26A-8" DB	5
				4"	CRD15A-4" DB	4
				6"	CRD14A-6" DB	6
				4"	CRD13A-4" DB	4

NORTHERN STATES POWER CO.
MONTICELLO NUCLEAR GENERATING PLANT
ISOMETRIC SUMMARY CLASS 1

NSP ISO NUMBER	REVISION	COMPONENT OR SYSTEM	LOOP	LINE SIZE	LINE NUMBER	UT - CAL. STANDARD
ISI-24B	0	CRD SCRAM HEADER	B	8"	CRD26B-8" DB	5
				4"	CRD15B-4" DB	4
				6"	CRD14B-6" DB	6
				4"	CRD13B-4" DB	4
ISI-24C	0	CRD SCRAM HEADER DISCHARGES	-	12"	CRD18-12" DB	29
				2"	CRD18-2" DB	-
				2"	CRD16B-2" DB	-
				2"	CRD16A-2" DB	-
ISI-25	0	VALVE BYPASS LINES	A	2"	VB5-2"	-
			B	2"	VB6-2"	-
FIGURE 1	0	CONTROL ROD DRIVE LOCATION AND HOUSING WELD	-	-	-	-
FIGURE 2	0	CIRCUMFERENTIAL AND LONGITUDINAL VESSEL WELDS	-	-	-	RPV #1
FIGURE 3	0	REACTOR VESSEL STUD, WASHER AND LIGAMENT LOCATION	-	-	-	STUD-14
FIGURE 4	0	REACTOR VESSEL NOZZLE LOCATIONS AND IDENTIFICATION	-	-	-	RPV#1/30
FIGURE 5	0	REACTOR VESSEL HEAD WELDS	-	-	-	-
FIGURE 6	0	REACTOR VESSEL CIRCUMFERENTIAL SEAM WELDS	-	-	-	RPV#1
FIGURE 7	0	REACTOR VESSEL BOTTOM HEAD NOZZLE LOCATION	-	-	-	-

APPENDIX B

ASME CLASS 2 - EXAMINATION

NORTH...N STATES POWER CO.
MONTICELLO NUCLEAR GENERATING PLANT
INSERVICE INSPECTION–EXAMINATION SUMMARY

TABLE S2.1
PAGE 1 OF 1
MAJOR ITEM: PRESSURE 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.
C1.1	C-A	CIRCUMFERENTIAL BUTT WELDS	-	-	-		THREE ARE NO ITEMS INVOLVED IN CLASS 2 SYSTEMS REQUIRED FOR SCHEDULING TO 1WC-2600 UNDER PRESSURE VESSELS
C1.2	C-B	NOZZLE TO VESSEL WELDS	-	-	-		
C1.3	C-C	INTEGRALLY WELDED SUPPORTS	-	-	-		
C1.4	C-D	PRESSURE RETAINING BOLTING	-	-	-		

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NORTHERN STATES POWER CO.
MONTICELLO NUCLEAR GENERATING PLANT
INSERVICE INSPECTION–EXAMINATION SUMMARY

TABLE S2.2.1
PAGE 1 OF 3
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	CIRCUMFERENTIAL BUTT WELDS					
		HIGH PRESSURE COOLANT INJECTION-WATER SIDE					
		TW3-12" ED	THREE	1	1	CIAJ-63	80-36-51,52
		HIGH PRESSURE COOLANT INJECTION-STEAM SIDE					
		PS18-8" ED	THREE	1	1	TDAJ-1	80-37
		PS18-6" ED	–	–	–		
		-STEAM DISCHARGE					
		RS2-18" HE	–	–	–		
		RS2-16" HE	THREE	1	1	TDBJ-9	80-75
		RS2-20" HE	–	–	–		
		CORE SPRAY A					
		TW7-8" ED	–	–	–		
		TW7-10" GE	THREE	1	1	CSAJ-39	80-34
		CORE SPRAY B					
		TW11-8" ED	–	–	–		
		TW11-10" GE	–	–	–		
		CONTAINMENT PURGE					
		CP1-18" HE	–	–	–		
		CP2-18" HE	–	–	–		
		RHR SERVICE WATER					
		SW9-8" GE	THREE	2	2	SWAJ-1,2	80-27,28
C2.1	C-F	CIRCUMFERENTIAL BUTT WELDS					
		MAIN STEAM A				*1978 BASELINE	
		PS1-18" ED	THREE	4	4*	MSAJ-R54A,R54B	78-119,6
						MSAJ-R54C,R54D	78-8,114
			THREE	1	1	MSAJ-46	80-57

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PP12-B-20

NORTHERN STATES POWER CO.
MONTICELLO NUCLEAR GENERATING PLANT
INSERVICE INSPECTION–EXAMINATION SUMMARY

TABLE S2.2.1
PAGE 2 OF 3
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-F	(CONT'D)					
		MAIN STEAM B				*1978 BASELINE	
		PS2-18" ED	THREE	2	2*	MSBJ-R52A,R52B	78-117,117R,116
			THREE	1	1	MSBJ-45	80-58
		MAIN STEAM C					
		PS3-18" ED	THREE	2	2*	MSCJ-R52A,R52B	78-113,115
		MAIN STEAM D					
		PS4-18" ED	THREE	2	2*	MSDJ-R54A,R54B	78-111,112
		SUPPLY TO STEAM SEAL SYSTEM					
		PS11-6" ED	THREE	–	3*	SSAJ-R1,R2,R3	78-14,19,120
		PS12-6" ED			–		
		PS13-6" ED	–	–	–		
		PS14-6" ED	THREE	1	1	SSDJ-6	80-204
		SUPPLY TO STEAM SEAL SYSTEM					
		PS10-5"	THREE	2	2	SSAJ-43,44,46	80-200,197,203
		PS7-10" ED	THREE	1	1	SSAJ-42	80-205
		PS7-8" ED	–	–	–		
		HIGH PRESSURE COOLANT INJECTION-WATER SIDE					
		TW3-12" ED	–	–	–		
		FEEDWATER A					
		FW2A-14" ED	THREE	1	1	FWAJ-40	80-35,35A,35B 35C,35D,50,50R 111,120,120A,120B, 120C

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NORTHERN STATES POWER CO.
MONTICELLO NUCLEAR GENERATING PLANT
INSERVICE INSPECTION–EXAMINATION SUMMARY

TABLE S2.2.1
PAGE 3 OF 3
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-F	(CONT'D)					
		FEEDWATER B					
		FW2B-14" ED	–	–	–		
		REACTOR WATER FROM SKIMMER SYSTEM					
		REW11-8" HE	THREE	2	2	RWAJ-5,6	80-29,30
		MAIN STEAM EQUALIZER				*1978 BASELINE	
		PS30-18" EDB	THREE	21	21	MSEJ-1,2	78-4,118
						MSEJ-3,4	78-1,2
						MSEJ-7,8	78-7,82
						MSEJ-10,11	78-12,10
						MSEJ-12,13	78-13,11
						MSEJ-14,15	78-85,85R,9
						MSEJ-16,17	78-16,15
						MSEJ-18,19	78-18,83
						MSEJ-20,21	78-17,20
						MSEJ-22,25,26	78-84,5,3
			THREE	2	2	MSEJ-14,16	80-202,201
		10" DRIP LEG	THREE	2	2	MSEJ-5,6	78-22,21

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NORTHERN STATES POWER CO.
MONTICELLO NUCLEAR GENERATING PLANT
INSERVICE INSPECTION—EXAMINATION SUMMARY

TABLE S2.2.2
PAGE 1 OF 1
MAJOR ITEM: PIPING-LONGITUDINAL 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.
C2.2	C-G	LONGITUDINAL WELD JOINTS IN FITTINGS	-	-	-	-	THERE ARE NO ITEMS IN CLASS 2 SYSTEMS
C2.2	C-F						

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TM12-R-23

NORTH. .N STATES POWER CO.
MONTICELLO NUCLEAR GENERATING PLANT
INSERVICE INSPECTION—EXAMINATION SUMMARY

TABLE S2.2.3
PAGE 1 OF 1
MAJOR ITEM: PIPING-BRANCH 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.
C2.3	C-G	BRANCH PIPE TO PIPE WELD JOINTS	-	-	-	-	THERE ARE NO ITEMS IN CLASS 2 SYSTEMS
C2.3	C-F	(SWEEPOLETS)					

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MONTICELLO NUCLEAR GENERATING PLANT
INSERVICE INSPECTION—EXAMINATION SUMMARY

TABLE S2.2.4
PAGE 1 OF 1
MAJOR ITEM: PIPING-PRESSURE RETAINING BOLTIN

SUB ITEM	EXAM 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	-	-	-	-	THERE ARE NO ITEMS IN CLASS 2 SYSTEMS REQUIRED FOR SCHEDULING

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MONTICELLO NUCLEAR GENERATING PLANT
INSERVICE INSPECTION—EXAMINATION SUMMARY

TABLE S2.2.5
PAGE 1 OF 2
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	INTEGRALLY WELDED SUPPORTS					
		MAIN STEAM A PS1-18" ED	THREE	1	1	MSAK-59A	80-116,192
		MAIN STEAM B PS2-18" ED	-	-	-		
		MAIN STEAM C PS3-18" ED	-	-	-		
		MAIN STEAM D PS4-18" ED	-	-	-		
		SUPPLY TO STEAM SEAL SYSTEM PS14-6" ED	-	-	-		
		HIGH PRESSURE COOLANT INJECTION-WATER SIDE TW3-12" ED	THREE	1	1	CIAK-31	80-5,32
		HIGH PRESSURE COOLANT INJECTION-STEAM SIDE PS18-8" ED	-	-	-		
		HIGH PRESSURE COOLANT INJECTION -STEAM DISCHARGE- RS2-16" HE	THREE	1	1	TDBK-11	80-117,196
		CORE SPRAY A TW7-8" GE	-	-	-		
		TW7-10" GE	THREE	1	1	CSAK-52	80-4,31

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NORTHERN STATES POWER CO.
MONTICELLO NUCLEAR GENERATING PLANT
INSERVICE INSPECTION–EXAMINATION SUMMARY

TABLE S2.2.5
PAGE 2 OF 2
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)					
		CORE SPRAY B					
		TW11-8" GE	-	-	-		
		TW11-10" GE	-	-	-		
		REACTOR WATER FROM SKIMMER SYSTEM					
		REW11-8" HE	THREE	2	2	RWAK-8,11	80-10,33,23,25
		RESIDUAL HEAT REMOVAL SERVICE WATER					
		SW9-8" GE	-	-	-		

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NORTHERN STATES POWER CO.
MONTICELLO NUCLEAR GENERATING PLANT
INSERVICE INSPECTION—EXAMINATION SUMMARY

TABLE S2.2.6
PAGE 1 OF 2
MAJOR ITEM: PIPING-SUPPORT COMPONENTS

SUB ITEM	EXAM 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 A PS1-18" ED	THREE	1	1	MSAK-45	80-17-17R
		MAIN STEAM B PS2-18" ED	-	-	-		
		MAIN STEAM C PS3-18" ED	-	-	-		
		MAIN STEAM D PS4-18" ED	THREE	1	1	MSDK-47	80-16
		SUPPLY TO STEAM SEAL SYSTEM					
		PS11-6" ED	THREE	1	1	SSAK-9	80-194
		PS12-6" ED	-	-	-		
		PS13-6" ED	-	-	-		
		PS14-6" ED	-	-	-		
		PS7-10" ED	THREE	2	2	SSAK-25,40	80-195,193
		PS7-8" ED	-	-	-		
		HIGH PRESSURE COOLANT INJECTION-WATER SIDE TW3-12" ED	THREE	3	3	CIAK-40,48A,50	80-11,61,8
		HIGH PRESSURE COOLANT INJECTION-STEAM SIDE PS18-8" ED	THREE	4	4	TDAK-5,11,33,34	80-15,18,6,60
		HIGH PRESSURE COOLANT INJECTION-STEAM DISCHARGE RS2-16" HE	THREE	2	2	TDBK-7,8	80-2,1

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NORTHERN STATES POWER CO.
MONTICELLO NUCLEAR GENERATING PLANT
INSERVICE INSPECTION—EXAMINATION SUMMARY

TABLE S2.2.6
PAGE 2 OF 2
MAJOR ITEM: PIPING-SUPPORT COMPONENTS

SUB ITEM	EXAM 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)					
		CORE SPRAY A					
		TW7-10" GE	THREE	1	1	CSAK-47	80-24
		TW7-8" ED	-	-	-		
		CORE SPRAY B					
		TW11-10" GE	-	-	-		
		TW11-8" ED	THREE	1	1	CSBK-29A	80-14
		REACTOR WATER FROM SKIMMER SYSTEM					
		REW11-8" HE	THREE	1	1	RWAK-14	80-22,22R
		CONTAINMENT PURGE					
		(A) CP1-18" HE	THREE	1	1	PCAK-2	80-7
		CONTAINMENT PURGE					
		(B) CP2-18" HE	-	-	-		
		RHR SERVICE WATER					
		SW9-8" GE	THREE	4	4	SWAK-31,34,54,57	80-12,9,13,13R,3
		MAIN STEAM EQUALIZER					
		PS30-18" EDB	THREE	1	1	MSEK-9	80-191

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NORTHERN STATES POWER CO.
MONTICELLO NUCLEAR GENERATING PLANT
INSERVICE INSPECTION–EXAMINATION SUMMARY

TABLE S2.3
PAGE 1 OF 1
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 AND	PUMPS	–	–	–		THERE ARE NO ITEMS WITH SEAMED CASTINGS
C3.1	C-F	PUMP CASING WELDS	–	–	–		
C3.2	C-D	PRESSURE RETAINING BOLTING	–	–	–		THERE IS NO BOLTING GREATER THAN 1" DIA.
C3.3	C-E-1	INTEGRALLY WELDED SUPPORTS	–	–	–		SUPPORTS UNDER S2.2.5
C3.4	C-E-2	SUPPORT COMPONENTS	–	–	–		SUPPORTS UNDER S2.2.6

NORTHERN STATES POWER CO.
MONTICELLO NUCLEAR GENERATING PLANT
INSERVICE INSPECTION—EXAMINATION SUMMARY

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

SUB ITEM	EXAM CATE-GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
C4.1	C-G AND	VALVES	-	-	-		THERE ARE NO ITEMS WITH SEAMED CASINGS
C4.1	C-F	VALVE BODY WELDS	-	-	-		
C4.2	C-D	PRESSURE RETAINING BOLTING					
		MAIN STEAM					
		STOP VALVE A	THREE	100%	-	(V)	
		PS1-18" ED	-	-	-	(UT)	
		STOP VALVE B	-	-	-	(V)	
		PS2-18" ED	THREE	10%	-	(UT)	
		STOP VALVE C	-	-	-	(V)	
		PS3-18" ED	-	-	-	(UT)	
		STOP VALVE D	-	-	-	(V)	
		PS4-18" ED	-	-	-	(UT)	
	-	BYPASS CONTROL VALVES					
		PS7-8" ED					
		NO. 11	THREE	100%	-	(V)	
		NO. 12	THREE	100%	-	(UT)	
C4.3	C-E-1	INTEGRALLY WELDED SUPPORTS	-	-	-		SUPPORTS UNDER S2.2.5
C4.4	C-E-2	SUPPORT COMPONENTS	-	-	-		SUPPORTS UNDER S2.2.5

NORTHERN STATES POWER COMPANY
MONTICELLO NUCLEAR GENERATING PLANT
BASELINE COMPARISON CLASS II

COMPONENT/SYSTEM	NSP ISO	NDE METHOD	BASELINE IDENT.	REPORT NO.	BASELINE INDICATIONS	ISI INDICATIONS	EXAMINATION LIMITATIONS
C2.1 CIRCUMFERENTIAL BUTT WELDS							
HIGH PRESSURE COOLANT INJECTION-WATER SIDE CIAJ-63	31	UT	CIAJ-63	80-51	--	NONE	NO S-2, TEE
BASE METAL		UT		80-52	--	NONE	NONE
		MT		80-36	--	NONE	NONE
HIGH PRESSURE COOLANT INJECTION-STEAM SIDE TDAJ-1	32	UT	TDAJ-1	80-37	NONE	S-2, GEO, < 50%, GEO, 60%	NO S-1, VALVE
-STEAM DISCHARGE TDBJ-9	33	UT	TDBJ-9	80-75	--	S-2, GEO 360°, 50%	NO S-1, HANGER
CORE SPRAY A CSAJ-39	34	UT	CSAJ-39	80-34	--	NONE	NONE
RHR SERVICE WATER SWAJ-1	39	UT	SWAJ-1	80-27	--	NONE	NO S-1, VALVE S-2, ELBOW I. R.
SWAJ-2	39	UT	SWAJ-2	80-28	--	NONE	S-1, ELBOW I. R.
MAINSTEAM A MSAJ-46	26	UT	MSAJ-46	80-57	--	S-2, ID GEO, 40%	NONE

NORTHERN STATES POWER COMPANY
MONTICELLO NUCLEAR GENERATING PLANT
BASELINE COMPARISON CLASS II

COMPONENT/SYSTEM	NSP ISO	NDE METHOD	BASELINE IDENT.	REPORT NO.	BASELINE INDICATIONS	ISI INDICATIONS	EXAMINATION LIMITATIONS
C2.1 Continued							
MAINSTEAM B MSBJ-45	27	UI	MSBJ-45	80-58	--	S-1, ID GEO, 80% S-2, ID GEO, 100	NONE
SUPPLY TO STEAM SEAL SYSTEM SSAJ-42	30	UT	SSAJ-42	80-205	--	S-1, GEO @ 10:00 40% S-2, ID & OD GEO @ 9:00 TO 11:00, 30%/40%	S-2, REDUCER
SSAJ-43	30	UT	SSAJ-43	80-200	--	NONE	NO S-1, FLANGE
SSAJ-44	30	UT	SSAJ-44	80-197	--	S-4, @ 9:30, 125%	S-2, 7:00 TO 10:00, ELBOW I. R.
SSAJ-46	30	UT	SSAJ-46	80-203	--	NONE	NO S-2, REDUCER
SSDJ-6	30	UT	SSDJ-6	80-204	--	NONE	NONE
FEEDWATER B FWAJ-40 & BASE METAL	37	UT	FWAJ-40	80-50	--	S-1, O.D 2-1/2" LONG, 130%	NONE
		UT		80-50R	--	S-1, GEO FROM WELD	NONE
BASE METAL		UT		80-111	--	NONE	S-1, 2, 3, 4, 11:30 TO 12:30, BEAM

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NORTHERN STATES POWER COMPANY
MONTICELLO NUCLEAR GENERATING PLANT
BASELINE COMPARISON CLASS II

COMPONENT/SYSTEM	NSP ISO	NDE METHOD	BASELINE IDENT.	REPORT NO.	BASELINE INDICATIONS	ISI INDICATIONS	EXAMINATION LIMITATIONS
C2.1 Continued							
BASE METAL		MT		80-35	--	NONE	5" INSULATED
BASE METAL		MT		80-35A	--	2-7/8" LINEAR	5" INSULATED
BASE METAL		MT		80-35D	--	NONE; INDICATION BLENDED OUT	NONE
BASE METAL		MT		80-120	--	1" LINEAR	BEAM INTERFERENCE
BASE METAL		MT		80-120B	--	NONE; INDICATION BLENDED OUT	NONE
BASE METAL		PT		80-35B	--	2-7/8" LINEAR	NONE
BASE METAL		PT		80-35C	--	NONE; INDICATION BLENDED OUT	NONE
BASE METAL		PT		80-120A	--	1" LINEAR	BEAM INTERFERENCE
BASE METAL		PT		80-120C	--	NONE; INDICATION BLENDED OUT	NONE
REACTOR WATER FROM SKIMMER SYSTEM							
RWAJ-5	36	UT	RWAJ-5	80-29	--	NONE	NO S-1, FLANGE
RWAJ-6	36	UT	RWAJ-6	80-30	--	NONE	NONE
MAINSTEAM EQUALIZER							
MSEJ-14	40	UT	MSEJ-14	80-202	NONE	S-1, ID GEO 360°, < 20%	NO S-2, TEE
MSEJ-16	40	UT	MSEJ-16	80-201	NONE	NONE	NO S-2, TEE

NORTHERN STATES POWER COMPANY
MONTICELLO NUCLEAR GENERATING PLANT
BASELINE COMPARISON CLASS II

COMPONENT/SYSTEM	NSP ISO	NDE METHOD	BASELINE IDENT.	REPORT NO.	BASELINE INDICATIONS	ISI INDICATIONS	EXAMINATION LIMITATIONS
C2.5 INTEGRALLY WELDED SUPPORTS							
MAINSTEAM A MSAK-59A	26	MT	MSAK-59A	80-116	--	NONE	NONE
		VT		80-192	--	NONE	NONE
HIGH PRESSURE COOLANT INJECTION-WATER SIDE CIAK-31	31	MT	CIAK-31	80-32	--	NONE	16" NO EXAM, NEXT TO PENETRATION
		VT		80-5	--	NONE	NONE
-STEAM DISCHARGE TDBK-11	33	MT	TDBK-11	80-196	--	NONE	NONE
		VT		80-117	--	NONE	NONE
CORE SPRAY A CSAK-52	34	MT	CSAK-52	80-31	--	NONE	NONE
		VT		80-4	--	NONE	NONE
REACTOR WATER FROM SKIMMER SYSTEM RWAK-8	36	MT	RWAK-8	80-33	--	NONE	NONE
		VT		80-10	--	NONE	NONE
RWAK-11	36	MT	RWAK-11	80-25	--	NONE	NONE
		VT		80-23	--	NONE	NONE

NORTHERN STATES POWER COMPANY
MONTICELLO NUCLEAR GENERATING PLANT
BASELINE COMPARISON CLASS II

COMPONENT/SYSTEM	NSP ISO	NDE METHOD	BASELINE IDENT.	REPORT NO.	BASELINE INDICATIONS	ISI INDICATIONS	EXAMINATION LIMITATIONS
C2.6 SUPPORT COMPONENTS							
MAINSTEAM A MSAK-45	26	VT	MSAK-45	80-17	--	LOOSE BOLT	NONE
		VT		80-17R	--	NONE; BOLT TIGHTENED	NONE
MAINSTEAM D MSDK-47	29	VT	MSDK-47	80-16	--	NONE	NONE
SUPPLY TO STEAM SEAL SYSTEM SSAK-9	30	VT	SSAK-9	80-194	--	NONE	NONE
SSAK-25	30	VT	SSAK-25	80-195	--	NONE	NONE
SSAK-40	30	VT	SSAK-40	80-193	--	NONE	NONE
HIGH PRESSURE COOLANT INJECTION-WATER SIDE CIAK-40	31	VT	CIAK-40	80-11	--	NONE	NONE
CIAK-48A	31	VT	CIAK-48A	80-61	--	NONE	NONE
CIAK-50	31	VT	CIAK-50	80-8	--	NONE	NONE
-STEAM SIDE TDAK-5	32	VT	TDAK-5	80-15	--	NONE	NONE
TDAK-11	32	VT	TDAK-11	80-18	--	NONE	NONE
TDAK-33	32	VT	TDAK-33	80-6	--	NONE	NONE
TDAK-34	32	VT	TDAK-34	80-60	--	NONE	NONE

NORTHERN STATES POWER COMPANY
MONTICELLO NUCLEAR GENERATING PLANT
BASELINE COMPARISON CLASS II

COMPONENT/SYSTEM	NSP ISO	NDE METHOD	BASELINE IDENT.	REPORT NO.	BASELINE INDICATIONS	ISI INDICATIONS	EXAMINATION LIMITATIONS
C2.6 Continued							
-STEAM DISCHARGE							
TDBK-7	33	VT	TDBK-7	80-2	--	NONE	NONE
TDBK-8	33	VT	TDBK-8	80-1	--	NONE	NONE
CORE SPRAY A							
CSAK-47	34	VT	CSAK-47	80-24	--	NONE	NONE
CORE SPRAY B							
CSBK-29A	35	VT	CSBK-29A	80-14	--	NONE	NONE
REACTOR WATER FROM SKIMMER SYSTEM							
RWAK-14	36	VT	RWAK-14	80-22	--	LOOSE NUT & DWG. COMPLIANCE	NONE
		VT		80-22R	--	NONE; NUT TIGHTENED. HANGER RE-EVALUATED	NONE
CONTAINMENT PURGE							
PCAK-2	38	VT	PCAK-2	80-7	--	NONE	NONE
RHR SERVICE WATER							
SWAK-31	39	VT	SWAK-31	80-12	--	NONE	NONE
SWAK-34	39	VT	SWAK-34	80-9	--	NONE	NONE
SWAK-54	39	VT	SWAK-54	80-13	--	MISSING SUPPORT BLOCK	NONE
		VT		80-13R	--	NONE; SUPPORT BLOCK REPLACED	NONE

NORTHERN STATES POWER COMPANY
MONTICELLO NUCLEAR GENERATING PLANT
BASELINE COMPARISON CLASS II

COMPONENT/SYSTEM	NSP ISO	NDE METHOD	BASELINE IDENT.	REPORT NO.	BASELINE INDICATIONS	ISI INDICATIONS	EXAMINATION LIMITATIONS
C2.6 Continued							
SWAK-57	39	VT	SWAK-57	80-3	--	NONE	NONE
MAINSTEAM EQUALIZER MSEK-9	40	VT	MSEK-9	80-191	--	NONE	NONE

NORTHERN STATES POWER CO.
MONTICELLO NUCLEAR GENERATING PLANT
ISOMETRIC SUMMARY CLASS 2

TABLE III

NSP ISO NUMBER	REVISION	COMPONENT OR SYSTEM	LOOP	LINE SIZE	LINE NUMBER	UT - CAL. STANDARD
ISI-26	1	MAIN STEAM	A	18"	PSI-18" ED	8
ISI-27	1	MAIN STEAM	B	18"	PS2-18" ED	8
ISI-28	1	MAIN STEAM	C	18"	PS3-18" ED	8
ISI-29	1	MAIN STEAM	D	18"	PS4-18" ED	8
ISI-30	1	SUPPLY TO STEAM SEAL SYSTEM	-	6"	PS14-6" ED	6
				6"	PS13-6" ED	6
				6"	PS12-6" ED	6
				6"	PS11-6" ED	6
				5"	PS10-5"	34
				10"	PS7-10" ED	28
				8"	PS7-8" ED	21
ISI-31	0	HIGH PRESSURE COOLANT INJECTION - WATER SIDE	-	12"	TW3-12" ED	29/NO___
ISI-32	0	HIGH PRESSURE COOLANT INJECTION - STEAM SIDE	-	8"	PS18-8" ED	5
				6"	PS18-8" ED	6
ISI-33	0	HIGH PRESSURE COOLANT INJECTION STEAM SIDE DISCHARGE	-	20"	RS2-20" HE	NO___
				18"	RS2-18" HE	NO___
				16"	RS2-16" HE	31
ISI-34	0	CORE SPRAY	A	8"	TW7-8" ED	5
			A	10"	TW7-10" GE	32
ISI-35	0	CORE SPRAY	B	8"	TW11-8" ED	5
			B	10"	TW11-10" GE	32
ISI-36	0	REACTOR WATER FROM SKIMMER SYSTEM	-	8"	REW11-8" HE	33

NORTHERN STATES POWER CO.
MONTICELLO NUCLEAR GENERATING PLANT
ISOMETRIC SUMMARY CLASS 2

NSP ISO NUMBER	REVISION	COMPONENT OR SYSTEM	LOOP	LINE SIZE	LINE NUMBER	UT - CAL. STANDARD
ISI-37	0	FEEDWATER	A	14"	FW2A-14" ED	23
			B	14"	FW2B-14" ED	23
ISI-38	0	CONTAINMENT PURGE LINES	A	18"	CPI-18" HE	NO
			B	18"	CP2-18" HE	NO
ISI-39	0	RHR SERVICE WATER	-	8"	SW9-8" GE	33
ISI-40	0	MAIN STEAM EQUALIZING HEADER	-	18"	PS30-18" EDB	8
				10"	DRIPLEG	28

APPENDIX C

TABLE I - PERSONNEL LISTING

TABLE II - ULTRASONIC CALIBRATION BLOCKS

TABLE III - PROCEDURE LISTING

TABLE IV - EQUIPMENT AND MATERIALS

NORTHERN STATES POWER COMPANY
MONTICELLO NUCLEAR GENERATING PLANT
PERSONNEL LISTING

APPENDIX C
TABLE I

EXAMINER	TITLE	ORGANIZATION	CERTIFICATION LEVEL UT	PT	MT	VT	ET
T. J. Boyers	Technician	LMT (4)	I	-	-	-	-
G. M. Bratton	Technician	LMT	II	-	-	-	-
D. A. Gonzalez	Technician	LMT	II	II	-	II(2b)	-
M. E. Gustely	Technician	LMT	-	II	II	II(2b)	-
R. A. Kellerhall	Technician	LMT	II	II	II	II(2b)	-
E. L. Lake	Technician	LMT	II	-	-	-	-
R. W. Pechacek	Technician	LMT	II	II	II	II(2b)	-
E. L. Thomas	Supervisor	LMT	III	III	III	II(2a, b)	I
W. M. Tighe	Technician	LMT	I	-	-	-	-
A. S. Whealdon	Technician	LMT	II	II	II	II(2b)	-
R. D. Ballou	Technician	G. E. (3)	-	-	-	II	-
J. A. McGee	Technician	G. E.	-	-	-	II	-
S. R. Radebaugh	Technician	G. E.	-	-	-	II	-
H. P. Smith	Technician	G. E.	-	-	-	II	-
L. C. Dahlman	M&SP Specialist	NSP					
D. B. Hansen	Asst M&SP Eng.	NSP	III	II	II	II(2a, b)	-
P. J. Krumpos	Supt M&SP	NSP					
F. Brusseau	ANII	Hartford Steam Boiler Inspection & Insurance Co.					

FOOTNOTES:
(1) Level I Trainee
(2a) Certified by NSP to preform visual determination of structural integrity for hanger assemblies in accordance with NSP-VT-2.
(2b) Inspection experience and NDE qualifications were judged to be adequate to preform visual examinations in accordance with NSP-VT-1.
(3) Organization: General Electric (G. E.)
1500 Lilac Drive So.
Minneapolis, MN 55416
(4) Organization: Lambert, McGill, Thomas, Inc. (LMT)
771 East Brokaw Rd.
San Jose, CA 95112

NORTHERN STATES POWER COMPANY
MONTICELLO NUCLEAR GENERATING PLANT
ULTRASONIC CALBRATION BLOCKS

NSP NO.	SIZE & DIA.	PIPE SCHEDULE & THICKNESS		MATERIAL	SERIAL OR HEAT NUMBER	CALIBRATION REPORTS	DATE
5	8"	SCH. 80	.500"	A 106B C/S	N53114	RK-2	2-25-80
						RK-7	2-29-80
6	6"	SCH. 80	.432"	A 53B C/S	(40IN-1726)	ELL-4	3-15-80
						ELL-7	3-17-80
8	18"	SCH. 80		A 106B C/S	(122491)	AW-3	3-4-80
						AW-4	3-5-80
						AW-5	3-6-80
						ELL-5	3-18-80
						MB-2	3-3-80
						RK-4	2-26-80
11	8"	SCH. 80	.500"	304 S/S	15885	AW-1	2-27-80
						RK-3	2-26-80
						RK-5	2-27-80
						RK-6	2-28-80
12-2	4"	SCH. 80	.337"	304 S/S	7-73280	AW-10	3-10-80
						AW-11	3-11-80
18	3"	SCH. 160	.438"	A 312 S/S	01598	BP-9	3-14-80
22	12"	SCH. 80	.688"	304 S/S	658905	BP-5	3-11-80
						DAG-2	3-10-80
						MB-6	3-7-80
23	14"	SCH. 100	.937"	A106B C/S	7137	BP-3	3-11-80
						ELT-2	2-26-80
						MB-3	3-4-80
24	16"	SCH. 80	.843"	304 S/S	27DH136	MB-1	3-3-80
25	18"	SCH. 80	.937"	304 S/S	27DH136	AW-8	3-8-80
26	22"	SCH. 80	1.125"	304 S/S	10093	MB-5	3-7-80
27	28"	SCH. 80	1.187"	304 S/S	10093	AW-9	3-8-80
						AW-12	3-11-80
						AW-13	3-13-80
						AW-14	3-12-80
						AW-15	3-14-80
						BP-4	3-11-80
						ELL-1	3-15-80

NORTHERN STATES POWER COMPANY
MONTICELLO NUCLEAR GENERATING PLANT
ULTRASONIC CALBRATION BLOCKS

NSP NO.	SIZE AND DIA.	PIPE SCHEDULE & THICKNESS		MATERIAL	SERIAL OR HEAT NUMBER	CALIBRATION REPORTS	DATE
28	10"	SCH. 80	.593"	A 106B C/S	N35898	BP-10	3-17-80
29	12"	SCH. 80	.687"	A 106B C/S	L24489	ELT-3	2-26-80
30	5 -5/16"	-	-	A 533B C/S	C5571	BP-1	3-10-80
						BP-2	3-10-80
						BP-7	3-13-80
						BP-8	3-12-80
						ELT-4	2-29-80
						ELT-6	3-1-80
						ELT-7	3-5-80
						ELT-8	3-6-80
31	16"	SCH. 30	.375"	A 106B C/S	L80611	ELT-5	2-28-80
32	10"	SCH. 40	.365"	A 106B C/S	8024	ELT-1	2-23-80
33	8"	SCH. 40	.322"	A 106B C/S	L62508	RK-1	2-23-80
34	5"	SCH. 80	.375"	A 106B C/S	N72615	ELL-3	3-17-80
						ELL-6	3-18-80
36	SAFE END	SAFE END	STANDARD	B 166 INCONEL 600	BGM	BP-6	3-13-80
						ELT-9	3-13-80
RPV #1	5 -5/16" + CLAD	-	-	A 533 B C/S	C2220/1	AW-2	3-3-80
						AW-6	3-7-80
						AW-7	3-7-80
						MB-4	3-6-80
						RK-8	2-29-80
						RK-9	3-1-80

NORTHERN STATES POWER COMPANY
MONTICELLO NUCLEAR GENERATING PLANT
PROCEDURE LISTING

PROCEDURE NUMBER AND REVISION	FIELD CHANGE	PROCEDURE TITLE	PLANT APPROVAL DATE	FIELD CHANGE REMARKS	CHANGE DESCRIPTION
NSP-VT-1, REV. 1	NONE	VISUAL EXAMINATION	2-18-80	NONE	
NSP-VT-2, REV. 1	NONE	VISUAL EXAMINATION OF ASSEMBLED HANGER ASSEMBLIES	2-18-80	NONE	
NSP-VT-3, REV. 0	NONE	VISUAL EXAMINATION OF PUMP AND VALVE INTERNAL PRESSURE BOUNDARY SURFACES	2-25-80	NONE	
NSP-VT-4, REV. 0	1	VISUAL EXAMINATION OF MONTICELLO REACTOR VESSEL INTERIOR	2-25-80	NONE	TO REFERENCE ANSI N45.2.6 AS A DOCUMENT FOR PERSONNEL CERTIFICATION
NSP-PT-1, REV. 1	NONE	LIQUID PENETRANT EXAMINATION	2-18-80	NONE	
NSP-MT-1, REV. 1	NONE	MAGNETIC PARTICLE EXAMINATION, YOKE METHOD	2-18-80	NONE	
NSP-UT-1, REV. 0	NONE	ULTRASONIC EXAMINATION OF PIPE WELDS	2-18-80	NONE	
NSP-UT-2, REV. 0	NONE	AUTOMATIC DATA RECORDING	2-18-80	NONE	
NSP-UT-3, REV. 0	NONE	ULTRASONIC EXAMINATION OF FERRITIC VESSEL WITH WALL THICKNESS 2.5" AND GREATER	2-18-80	NONE	

NORTHERN STATES POWER COMPANY
MONTICELLO NUCLEAR GENERATING PLANT
PROCEDURE LISTING

PROCEDURE NUMBER AND REVISION	FIELD CHANGE	PROCEDURE TITLE	PLANT APPROVAL DATE	FIELD CHANGE REMARKS	CHANGE DESCRIPTION
NSP-UT-4, REV. 0	NONE	ULTRASONIC EXAMINATION OF STUDS AND BOLTS	2-18-80	NONE	
NSP-UT-5, REV. 1	NONE	ULTRASONIC EXAMINATION OF REACTOR VESSEL NOZZLE FORGING INNER RADIUS	2-25-80	NONE	
NSP-UT-6, REV. 1	NONE	ULTRASONIC EXAMINATION OF REACTOR VESSEL NOZZLE BORE	2-25-80	NONE	

NORTHERN STATES POWER COMPANY
MONTICELLO NUCLEAR GENERATING PLANT
EQUIPMENT AND MATERIALS

MATERIAL OR EQUIPMENT	TYPE OR SERIAL NUMBER	CALIBRATION DATE OR BATCH NUMBER	REMARKS
ULTRASONIC:			
NORTEC 130 D	S/N 130-63-D	CAL: 12-27-79	
NORTEC 131 D	S/N 111	CAL: 12-19-79	
NORTEC 131 D	S/N 269	CAL: 2-19-80	
NORTEC 131 D	S/N 291	CAL: 1-31-80	
RECORDERS:			
GOULD 220	S/N 3018	CAL: 10-15-79	
GOULD 220	S/N 14012	CAL: 12-07-79	
GOULD 220	S/N 14596	CAL: 12-03-79	
GOULD 220	S/N 14642	CAL: 2-14-80	
TEMPERATURE GAUGES:			
PTC SURFACE THERMOMETERS	S/N 205	CAL: 10-22-79	CERTIFIED BY MANUFACTURER
	S/N 206	CAL: 10-22-79	
	S/N 207	CAL: 10-22-79	
	S/N 208	CAL: 10-22-79	
	S/N 209	CAL: 10-22-79	
	S/N 212	CAL: 10-22-79	
	S/N 215	CAL: 11-14-79	
	S/N 219	CAL: 11-14-79	
MAGNETIC PARTICLE:			
MAGNAFLUX YOKE	S/N LMT-100	CAL: 2-22-80	ON SITE QUALIFICATION
ROMPAS BLOCKS:			
4140 C. S.	S/N 018	*CERT. 1-03-79	*BY ORLAS MACHINE SHOP
4140 C. S.	S/N 019	*CERT. 1-03-79	
304 S. S.	S/N 022	CERT. 9-13-79	
304 S. S.	S/N 023	CERT. 9-13-79	
304 S. S.	S/N 025	CERT. 9-13-79	
IIW	S/N 01	CERT. 6-19-78	
MATERIALS:			
ULTRASONIC COUPLANT	LMT-GEL	BATCH NO. LMT 111778	
PENETRANT MAGNAFLUX SPOTCHECK	PENETRANT	BATCH NO. 5F086	TYPE: SKL-HF/S
	DEVELOPER	BATCH NO. 78H032	TYPE: SKD-NF
	CLEANER	BATCH NO. 5D044	TYPE: SKC-NF

NORTHERN STATES POWER COMPANY
MONTICELLO NUCLEAR GENERATING PLANT
EQUIPMENT AND MATERIALS

MATERIAL OR EQUIPMENT	TYPE OR SERIAL NUMBER	CALIBRATION DATE OR BATCH NUMBER	REMARKS
ULTRASONIC TRANSDUCERS:		SIZE	FREQUENCY
AERO TECH	A18	.5" x 1"	2.25 MHZ
AERO TECH	L22501	1.5"	1.0 MHZ
HARISONICS	P360	.5" DIA.	2.25 MHZ
HARISONICS	P362	1" DIA.	2.25 MHZ
HARISONICS	P377	.5" x .5"	2.25 MHZ
HARISONICS	P921	.5" x .5"	2.25 MHZ
HARISONICS	P927	1.5" DIA.	1.0 MHZ
HARISONICS	P928	1" x 1"	1.0 MHZ
HARISONICS	P1104	.25" x .25"	5.0 MHZ
HARISONICS	P3108	.750 DIA.	2.25 MHZ
HARISONICS	Q412	1.0" x 1.0"	1.0 MHZ
HARISONICS	Q603	.25" DIA.	5.0 MHZ
HARISONICS	Q1032	.5" x .5" DUAL	1.5 MHZ
HARISONICS	Q11113	.375" x .375"	3.5 MHZ
HARISONICS	Q11123	.5" DIA.	2.25 MHZ
HARISONICS	R1150	.25" x .25"	2.25 MHZ
HARISONICS	R10021	.5" DIA.	2.25 MHZ
HARISONICS	R12200	.25" x .25"	2.25 MHZ
HARISONICS	R12347	.25" x .25"	5.0 MHZ
HARISONICS	R30103	.375 x .375"	3.5 MHZ
MEGASONICS	71095	.5" DIA.	1.0 MHZ

APPENDIX D

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 Monticello Nuclear Generating Plant

Address Monticello, Minnesota

3.) Plant Unit 1 4.) Owner (Certificate of Authorization) ---

5.) Commercial Service Date 6-30-71 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	CB&I	B-4697		
B1.4 PRIMARY NOZZLE TO VESSEL WELD AND INNER RADIUS				
NOZZLE (N3B) MSBD-1	CB&I	---	---	---
NOZZLE (N3D) MSDD-1	CB&I	---	---	---
NOZZLE (N4A) FWAD-1	CB&I	---	---	---
NOZZLE (N4B) FWBD-1	CB&I	---	---	---
NOZZLE (N4C) FWCD-1	CB&I	---	---	---
NOZZLE (N4D) FWDD-1	CB&I	---	---	---
NOZZLE (N5A) CSAD-1	CB&I	---	---	---
B1.6 NOZZLE TO SAFE END WELDS				
CORE SPRAY A CSAF-2	CB&I	---	---	---
CORE SPRAY B CSBF-2	CB&I	---	---	---
CONTROL ROD (N9) HYDRAULIC RETURN CRAF-2	BECHTEL	---	---	---

FORM NIS-1 OWNERS' DATA REPORT FOR INSERVICE INSPECTIONS

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

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2.) Plant Monticello Nuclear Generating Plant

Address Monticello, Minnesota

3.) Plant Unit 1 4.) Owner (Certificate of Authorization) ----

5.) Commercial Service Date 6-30-71 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.
B1.15 & B1.16 VESSEL INTERIOR INTERIOR ATTACHMENTS AND CORE SUPPORT STRUCTURES				
JET PUMP TOP ASSEMBLIES (20)	GENERAL ELECTRIC	----	----	----
BEAM BOLT KEEPER & TACH WELDS				
LOCK PLATE				
HOLD DOWN BEAM				
INLET				
UPPER SECTION OF TRANSITION PIECE				
CORE SPRAY SPARGER SYSTEM (2)	GENERAL ELECTRIC	----	----	----
TEE JUNCTION BOX				
PIPING AND WELDS				
HEADER BRACKETS AND RECLAD AREAS				
SPARGER PIPING, NOZZLES AND BRACKETS				
FEEDWATER SPARGER SYSTEM	GENERAL ELECTRIC	----	----	----
SPARGER PIPING AND WELDS				
END BRACKETS, BOLTING, AND RECLAD AREAS				
BEARING BAR BRACKETS AND BOLTING				
INNER RADIUS OF VESSEL AT NOZZLES				

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 Monticello Nuclear Generapiny Plant

Address Monticello, Minnesota

3.) Plant Unit 1 4.) Owner (Certificate of Authorization) ---

5.) Commercial Service Date 6-30-71 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.
B4.1 SAFE END TO PIPING AND SAFE END IN BRANCH PIPING WELDS				
CORE SPRAY A CSAF-10, 14, 18	BECHTEL	---	---	---
CORE SPRAY B CSAF-9	BECHTEL	---	---	---
RESIDUAL HEAT REMOVAL TW20-16" DB RHBF-20, 24	BECHTEL	---	---	---
TW30-16" DB RHCF-20	BECHTEL	---	---	---
B4.5 CIRCUMFERENTIAL AND LONGITUDINAL WELDS				
MAINSTEAM A PS1-6" ED MSAJ-24	BECHTEL	---	---	---
MAINSTEAM B PS2-18" ED MSBJ-30	BECHTEL	---	---	---
MAINSTEAM C PS3-18" ED MSCJ-4, 11,23	BECHTEL	---	---	---
MAINSTEAM D PS4-18" ED MSDJ-3, 10	BECHTEL	---	---	---
PS4-6" ED MSDJ-28	BECHTEL	---	---	---

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 Monticello Nuclear Generating Plant

Address Monticello, Minnesota

3.) Plant Unit 1 4.) Owner (Certificate of Authorization) ---

5.) Commercial Service Date 6-30-71 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 Continued				
CORE SPRAY A TW7-8" ED CSAJ-2A, 3, 4, 5, 8, 9, 13	BECHTEL	---	---	---
CORE SPRAY B TW11-8" ED CSBJ-2A, 3, 4, 5, 8, 10	BECHTEL	---	---	---
RESIDUAL HEAT REMOVAL REW10-18" ED RHAJ-20, 21	BECHTEL	---	---	---
TW30-16" DB RHCJ-1	BECHTEL	---	---	---
RECIRCULATION A REW13A-28" RCAJ-4, 6, 9, 35	BECHTEL	---	---	---
RECIRCULATION B REW13B-28" RCBJ-4, 31, 34	BECHTEL	---	---	---
RECIRCULATION BYPASS REW24-4" A RBAJ- M3, M15	CHERNE	---	---	---
REW25-4" B RBBJ- M3, M18	CHERNE	---	---	---
RECIRCULATION MANIFOLD REW 32-22" RMAJ-7, 8, 10	BECHTEL	---	---	---

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 Monticello Nuclear Generating Plant

Address Monticello, Minnesota

3.) Plant Unit 1 4.) Owner (Certificate of Authorization) ---

5.) Commercial Service Date 6-30-71 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 Continued				
RECIRCULATION RISERS				
RISER F RRFJ-7	BECHTEL	---	---	---
RISER H RRHJ-7	BECHTEL	---	---	---
B4.6 BRANCH PIPE CONNECTION WELDS EXCEEDING SIX INCH DIAMETER				
RECIRCULATION MANIFOLD A				
RISER F, REW 32-22" RMAJ-3	BECHTEL	---	---	---
B4.7 BRANCH PIPE CONNECTION WELDS SIX INCH DIAMETER AND SMALLER				
MAINSTEAM A (6") PS1-18" ED MSAJ-23	BECHTEL	---	---	---
MAINSTEAM C (6") PS3-18" ED MSCJ-18	BECHTEL	---	---	---
RECIRCULATION BYPASS A RBAJ-2, 16	BECHTEL	---	---	---
RECIRCULATION BYPASS B RBBJ-2, 19	BECHTEL	---	---	---
B4.8 SOCKET WELDS				
REACTOR VESSEL BOTTOM HEAD DRAIN (N15) REW31-2" ED HDAJ-41, 45, 46	BECHTEL	---	---	---

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2.) Plant Monticello Nuclear Generating Plant

Address Monticello, Minnesota

3.) Plant Unit 1 4.) Owner (Certificate of Authorization) ---

5.) Commercial Service Date 6-30-71 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.
B4.9 INTEGRALLY WELDED SUPPORTS				
MAINSTEAM C PS3-18" ED MSCK-7	BECHTEL	---	---	---
MAINSTEAM D PS4-18" ED MSDK-32	BECHTEL	---	---	---
RESIDUAL HEAT REMOVAL REW10-18" ED RHAK-22	BECHTEL	---	---	---
RECIRCULATION A REW13A-28" PSSA-5	BECHTEL	---	---	---
B4.10 SUPPORT COMPONENTS				
MAINSTEAM B PS2-18" ED MSBK-17	BECHTEL	---	---	---
MAINSTEAM D PS4-18" ED MSDK-15	BECHTEL	---	---	---
FEEDWATER A FW2B-14" ED FWAK-26	BECHTEL	---	---	---
FEEDWATER D FW2A-10" ED FWDK-14	BECHTEL	---	---	---

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Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
B4.10 Continued				
CORE SPRAY B TW11-8" EF CSBK-6	BECHTEL	---	---	---
REACTOR WATER CLEAN UP REW3-4" EF CWAK-15	BECHTEL	---	---	---
RESIDUAL HEAT REMOVAL TW30-16" DB RHCK-9, 10	BECHTEL	---	---	---
RECIRCULATION A REW13A-28" RCAK-22A, 29	BECHTEL	---	---	---
RECIRCULATION B REW13B-28" RCBK-12,20A	BECHTEL	---	---	---
RECIRCULATION BYPASS (A & B) REW24-4" RBAK-10	BECHTEL	---	---	---
REW25-4" RBBK-14	BECHTEL	---	---	---
RECIRCULATION MANIFOLD A REW32-22" RMAK-6A, 17	BECHTEL	---	---	---

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7.) Components Inspected

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
B4.10 Continued				
RECIRCULATION MANIFOLD B REW32-22" RMBK-4A, 6, 17	BECHTEL	---	---	---
RECIRCULATION RISERS MANIFOLD B RISER D, REW 20-12" RRDK-6	BECHTEL	---	---	---
CRD SCRAM HEADER A CRD 13A-4" DB CDAK-12	BECHTEL	---	---	---
CRD 14A-6" DB CDAK-24	BECHTEL	---	---	---
CRD 15A-4" DB CDAK-37	BECHTEL	---	---	---
B4.12 PRESSURE RETAINING BOLTING				
MAINSTEAM C PS3-18" ED MSCJ-19	BECHTEL	---	---	---
MAINSTEAM D PS4-18" ED MSDJ-19, 23, 25, 28	BECHTEL	---	---	---
RECIRCULATION A REW26-4" RCAJ-20	BECHTEL	---	---	---

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7.) Components Inspected

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
B4.12 Continued				
RECIRCULATION BYPASS B REW-25-4" RBBJ-M5	BECHTEL	---	---	---
B6.7 VALVE BODIES				
MAINSTEAM A A02-86A	BECHTEL	---	---	---
B6.9 PRESSURE RETAINING BOLTING				
MAINSTEAM C PS3-18" ED A02-80C	BECHTEL	---	---	---
MAINSTEAM D PS4-18" ED A02-86D	BECHTEL	---	---	---
CORE SPRAY A TW7-8" EF POS-1758	BECHTEL	---	---	---
REACTOR WATER CLEANUP REW3-4" EF MO-2397	BECHTEL	---	---	---
RESIDUAL HEAT REMOVAL TW20-16" ED MO-2015	BECHTEL	---	---	---

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7.) Components Inspected

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
B6.9 Continued				
REACTOR CORE INJECTION COOLANT-STEAM PS17-3" ED MO-2075	BECHTEL	---	---	---
BOTTOM HEAD DRAIN REW31-2" XDV-4	BECHTEL	---	---	---

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7.) Components Inspected

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
C2.1 CIRCUMFERENTIAL BUTT WELDS				
HIGH PRESSURE COOLANT INJECTION WATER SIDE TW3-12" ED CIAJ-63	BECHTEL	---	---	---
HIGH PRESSURE COOLANT INJECTION STEAM SIDE PS18-8" ED TDAJ-1	BECHTEL	---	---	---
RS2-16" HE TDBJ-9	BECHTEL	---	---	---
CORE SPRAY A TW7-10" GE CSAJ-39	BECHTEL	---	---	---
RHR SERVICE WATER SW9-8" GE SWAJ-1, 2	BECHTEL			
MAINSTEAM A PS1-18" ED MSAJ-46	BECHTEL	---	---	---
MAINSTEAM B PS2-18" ED MSBJ-45	BECHTEL	---	---	---

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7.) Components Inspected

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
C2.1 Continued SUPPLY TO STEAM SEAL INJECTION PS14-6" ED SSDJ-6	BECHTEL	---	---	---
PS10-5" SSAJ-43, 44, 46	BECHTEL	---	---	---
PS7-10" ED SSAJ-42	BECHTEL	---	---	---
FEEDWATER A FW2A-14" ED FWAJ-40	BECHTEL	---	---	---
REACTOR WATER FROM SKIMMER SYSTEM REW11-8" HE RWAJ-5, 6	BECHTEL	---	---	---
MAIN STEAM EQUALIZER HDR. MSEJ-14, 16	BECHTEL	---	---	---

Form No. 3-3048-1

FORM NIS-1 OWNERS' DATA REPORT FOR INSERVICE INSPECTIONS

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7.) Components Inspected

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
C2.5 INTEGRALLY WELDED SUPPORTS				
MAINSTEAM A PS1-18" ED MSAK-59A	BECHTEL	---	---	---
HIGH PRESSURE COOLANT INJECTION-WATER SIDE TW3-12" ED CIAK-31	BECHTEL	---	---	---
HIGH PRESSURE COOLANT INJECTION-STEAM DISCHARGE RS2-16" HE TDBK-11	BECHTEL	---	---	---
CORE SPRAY A TW7-10" GE CSAK-52	BECHTEL	---	---	---
REACTOR WATER FROM SKIMMER SYSTEM REW11-8" HE RWAK-8, 11	BECHTEL	---	---	---
C2.6 SUPPORT COMPONENTS				
MAINSTEAM A PS1-18" ED MSAK-45	BECHTEL	---	---	---

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5.) Commercial Service Date 6-30-71 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.
C2.6 Continued				
MAINSTEAM D PS4-18" ED MSDK-47	BECHTEL	---	---	---
SUPPLY TO STEAM SEAL SYSTEM PS11-6" ED SSAK-9	BECHTEL	---	---	---
PS7-10" ED SSAK-25, 40	BECHTEL	---	---	---
HIGH PRESSURE COOLANT INJECTION-WATER SIDE TW3-12" ED CIAK-40, 48A, 50	BECHTEL	---	---	---
HIGH PRESSURE COOLANT INJECTION-STEAM SIDE PS18-8" ED TDAK-5, 11, 33, 34	BECHTEL	---	---	---
HIGH PRESSURE COOLANT INJECTION-STEAM DISCHARGE RS2-16" HE TDBK-7, 8	BECHTEL	---	---	---

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7.) Components Inspected

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
C2.6 Continued				
CORE SPRAY A TW7-10" GE CSAK-47	BECHTEL	---	---	---
CORE SPRAY B TW11-8" GE CSBK-29A	BECHTEL	---	---	---
REACTOR WATER FROM SKIMMER SYSTEM REW11-8" HE RWAK-14	BECHTEL	---	---	---
CONTAINMENT PURGE LINE A CP1-18" HE PCAK-2	BECHTEL	---	---	---
RESIDUAL HEAT REMOVAL SERVICE WATER SW9-8" GE SWAK 31, 34, 54, 57	BECHTEL	---	---	---
MAINSTEAM EQUALIZING HDR PS30-18" EDB MSEK-9	BECHTEL	---	---	---

8.) Examination Dates 2-21-80 to 3-28-80 9.) Inspection Interval 6-30-71 to 6-30-81

10.) Abstract of Examinations.
This was the Second Inservice Inspection in the Third Inspection Period of the First Inspection Interval. Approximately 2/3 of the required examinations to be performed during the Third Period on the pressure retaining components and supports of the reactor coolant and associated auxiliary systems classified as ASME Class 1 was completed, and 100% of ASME Class 2 was also completed this outage. In addition, a visual examination was preformed on portions of the reactor vessel internal components.

11.) Abstract of Conditions Noted.
The examination results indicated that the integrity of these systems were maintained. The only anomalies detected were: two linear MT indications on Feedwater A base metal adjacent to weld FWAJ-40; two linear PT indications, one on Core Spray A weld CSAF-2, and one on Control Rod Drive nozzle to cap weld CRAF-2; loose bolts on hangers RBAK-10 on Recirculation Bypass A, and MSAK-45 on Mainsteam A; loose nuts on hangers MSBK-17 on Mainsteam B, CSBK-6 on Core Spray B, RBBK-14 on Recirculation Bypass B, CDAK-37 on CRD Scram Header A, and CWAK-15 on Reactor Water Clean Up; one missing support block on hanger SWAK-54 on RHR Service Water; two hangers that did not conform with the hanger drawings, RWAK-14 on Reactor Water Skimmer line, that also had a loose nut, and RHAK-22 on Residual Heat Removal Suction line, and the end bracket pin on Feedwater Sparger B, NW-N end of N4B was not properly seated and the keeper was bent.

12.) Abstract of Corrective Measures Recommended and Taken.
All anomalies were corrected. The linear MT indications on Feedwater A base metal were removed by lightly grinding the surface. The linear PT indications on Core Spray A and Control Rod Drive were removed by lightly buffing the surface. The loose nuts and bolts on Mainsteam A and B, Core Spray B, Reactor Water Clean Up, Recirculation Bypass A and B, and CRD Scram Header A hangers were all tightened. The missing support block on RHR Service Water hanger was replaced and welded in place. The drawings will be revised for the non-conforming hanger on Residual Heat Removal Suction line that was found to have the Mark No.'s and drawing No.'s out of sequence, and Reactor Water Skimmer hanger was reevaluated and found adequate for the design load. The end bracket pin and keeper on Feedwater Sparger B, NW-N end of N4B was repositioned in place. All indications were corrected and reexamined with the same method that originally located them. The above hangers will be reexamined during the next scheduled outage.

(Continued on next page)

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 80 Signed Northern States Power By Douglas B Hansen
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 MINN. and employed by HARTFORD STM BLR INSP & INS. CO of HARTFORD CONN. have inspected the components described in this Owner's Data Report during the period 2/21/80 to 3/28/80, 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 80

Francis P Brusseau Commissions NB 8828 MN 238
Inspector's Signature National Board, State, Province & No.