



MONTICELLO NUCLEAR GENERATING PLANT

Minnesota

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INSERVICE INSPECTION - EXAMINATION SUMMARY

MONTICELLO NUCLEAR GENERATING PLANT - UNIT I

AUGUST 30 to DECEMBER 1, 1982

REFUELING OUTAGE NO. 9

INSPECTION PERIOD 1

INTERVAL 2

N O R T H E R N S T A T E S P O W E R C O M P A N Y

Commercial Service Date:
June 30, 1971

MINNEAPOLIS, MINNESOTA

Report Date:
February 10, 1983

8303010211 830223
PDR ADCK 05000263
Q PDR

NORTHERN STATES POWER COMPANY
MONTICELLO NUCLEAR GENERATION PLANT - UNIT 1

INSERVICE INSPECTION-EXAMINATION SUMMARY
MONTICELLO NUCLEAR GENERATING PLANT - UNIT 1
AUGUST 30 to DECEMBER 1, 1982
REFUELING OUTAGE NO. 9
INSPECTION PERIOD 1
INTERVAL 2

Report date:
February 10, 1983

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Commercial Service Date:
June 30, 1971

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MONTICELLO NUCLEAR GENERATING PLANT - UNIT 1
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INSERVICE INSPECTION - EXAMINATION SUMMARY
MONTICELLO NUCLEAR GENERATING PLANT - UNIT 1
AUGUST 30 to DECEMBER 1, 1982

1.0 INTRODUCTION

This report is a summary of the Monticello Nuclear Generating Plant's tenth inservice inspection. This was the first inservice inspection to be conducted in inspection period one of the plant's second ten year interval. The examinations were performed during the ninth refueling outage from August 30 to December 1, 1982. The Monticello Nuclear Generating Plant began commercial operation on June 30, 1971.

The examinations were performed on pressure-retaining components and their supports of the reactor coolant and associated auxiliary systems classified as ASME Class I and ASME Class II.

2.0 INSPECTION SUMMARY

The evaluation of the results from the inservice examinations revealed several intergranular stress corrosion cracks in the weld heat affected zone of five riser pipes and one manifold end cap weld of the recirculation system. To assure continued integrity of the system, weld overlays were made to repair these welds.

3.0 DISCUSSION OF EXAMINATION PLAN

3.1 Inspection Boundary

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

The examination plan was based on the examination requirements of the ASME Boiler and Pressure Vessel Code Section XI, 1977 Edition through and including the Summer, 1978 Addenda, and complied with Monticello's Technical Specification, Section TS4.15. The examination plan is in accordance with the program submitted to the United States Nuclear Regulatory Commission on March 27, 1981 titled, "ASME Code Section XI, Inservice Inspection and Testing Program".

3.2 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 were issued in the Summer, 1978 addenda. All other examination procedures complied with the requirements of the 1977 Edition through and including the Summer, 1978 Addenda of ASME Section XI.

3.3 Examination Methods

Ultrasonic and radiographic 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.

Radiographic examination was performed using a double wall exposure, single wall viewing technique. An Iridium 192 isotope was used in conjunction with multiple loaded 7" x 17" Kodak "M" and "AA" films. ASME Section III was referenced for the penetrameter selection and essential hole requirements.

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

All visual examinations were aided, when necessary, with artificial lighting and verified for adequacy with an 18% neutral gray card with a 1/32 inch black line. Cold hanger load settings were visually verified (when applicable) and recorded on the report along with the piping system temperature.

3.4 Equipment and Materials

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

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

3.5 Personnel

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

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

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

3.6 Evaluation

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

The Ultrasonic examiner was aided in his evaluation by a calibration performed on a standard reference before each day's examination 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 part of the inspection report and permitted further evaluation.

3.7 Examination Reports and Documentation

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

Table I of Appendices A and B summarizes all the examinations that have been performed to date and identifies the amount that will be performed to complete the Ten Year Examination requirements. For retrieval purposes, the prefix of the inspection report number corresponds with the year that the inspection was performed. The examination report numbers for this outage are prefixed with "82-".

Table II of Appendices A and B compares the baseline examination results with the results obtained during the examinations. Table III of Appendices 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 inspections are identified in the tables of Appendix C. Appendix D contains the Form NIS-1, titled "Owners' Data Report for Inservice Inspections".

3.8 Summary of Results

The following is a list of all anomalies detected:

<u>System</u>	<u>Item ID</u>	<u>Exam Method</u>	<u>Type & Number of Indications</u>
Recirculation Inlet	RRCJ-3	UT & RT	5 linears
	RRDJ-5	UT & RT	1 linear
	RREJ-3	UT & RT	5 linears
	RRFJ-3	UT & RT	2 linears
	RRGJ-4	UT & VT	1 linear
	RRHJ-7	PT	several linears
Recirculation Manifold "A"	RMAJ-2	UT & RT	3 linears
Recirculation "A"	RCAK-33	VT	loose nut
Recirculation "B"	RCSK-10	VT	loose nut
	PHB -6	VT	cotter pin missing
Recirculation Riser	RRJK-6	VT	loose nut
RHR Service Water	SWAK-42	VT	loose nut
RCIC Steam Dis-charge	SS-38A	VT	cotter pin missing
Containment Spray	TWH-140	VT	loose nut

All anomalies were corrected. The loose nuts were tightened; the missing cotter pins were replaced; the PT indications were removed by light hand grinding and blending the surface smooth; the linear UT & RT indications were repaired by the use of weld overlays (see Section 5.0 for details).

4.0 VISUAL EXAMINATION OF THE REACTOR VESSEL

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's Procedure No. NSP-VT-4.0, 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 a check-off list 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 Sparger and the Feedwater Sparger Systems. The examination areas for these systems included the following:

Core Spray: Tee junction box at 90° & 270°; piping and welds; piping brackets and reclad area; sparger piping, nozzles and buckets; and shroud penetrations.

Feedwater: Inner radius of vessel nozzles at 45° & 135°; sparger piping and welds; end brackets, bolting and reclad areas; bearing bar brackets, bolting and welds; and sparger nozzles.

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 service platform and the other was on the refueling bridge, in addition, a Northern States Power Company Level II was at the recording station. The video recording system was used to permanently document, if any, abnormal conditions that were found during the examinations, and also to record the calibrations. There were no abnormal conditions detected during the examinations.

All examination reports and documentation are maintained on file by Northern States Power Company included with the balance of plant records.

5.0 AUGMENTED EXAMINATION OF THE RECIRCULATION SYSTEM

The extensive occurrence of intergranular stress corrosion cracking (IGSCC) of the pipe weld heat affected zones at Nine Mile Point, Unit 1 Nuclear Generating Plant, increased the concern for Monticello and resulted in the inspection of all welds classified as non-conforming welds (as defined by NUREG-0313, Rev.1) within the reactor recirculation system and the attached piping systems.

This refueling outage provided a unique inspection opportunity for these piping systems, in that all of the old piping insulation had been removed for replacement. Thus, an increase inspection sample, based on Stress Rule Index and carbon content, had been initially planned to augment the scheduled inservice inspections.

However, after General Electric's update meeting on Nine Mile Point's pipe cracking problem, NSP's management decided to increase the augmented inspection program to include 100% of the nonconforming welds, as well as some of the solution annealed welds, of the reactor recirculation system and associated attached systems.

The inspection focused on all nonconforming stainless steel circumferential butt welds of the reactor recirculation system and the attaching systems. The inspection also included those few circumferential butt welds and the 10 Sweepolet welds that had been solution annealed.

The 22 inch diameter manifold end cap weld RMAJ-2 was inspected and identified in the first week of the outage as having linear indications in the axial direction of the end cap. After the system was drained, these ultrasonic indications were confirmed by radiography as being three (3) axial intergranular stress corrosion cracks (IGSCCs).

Later in the inspection, five (5) other welds in the 12 inch diameter recirculation riser piping were found to contain IGSCC's. Three welds (RRCJ-3, RREJ-3 and RRFJ-3) were pipe to safe end welds and the fourth and fifth welds (RRDJ-5 and RRGJ-4) were pipe to elbow welds. All five welds were in separate risers.

Any indication that was suspected of being a crack was ultrasonically re-evaluated by at least one senior examiner. Radiography was used to assist in the evaluation process. Computer enhancement of radiographs were used to better define the indication with respect to its' length.

To reduce the overall radiation exposure of examination personnel and to keep the examination under the direct control of the most highly trained and experienced examiners available, a remotely controlled tester was added to the test system. This helped to reduce the radiation exposure to the senior personnel and kept their services available for the direct evaluation of critical indications.

This addition of a remotely controlled tester (Slave unit) permitted the examination to be controlled and the results evaluated out of the high radiation area in a more conducive environment. The slave unit contained a CRT display, pulser circuitry, pre-amplifiers and impedance matching circuits. (The slave is a remotely controlled tester, not a repeater oscilloscope, and thus there is no degradation of the high frequency transducer driving pulse due to long connecting cables.) There were no controls on the slave unit subject to adjustment during the performance of an examination. Changes in sensitivity were made at the master where the senior examiner was in an environment free from distraction.

Because the system was externally powered from the master, it was not subject to changes in sensitivity due to battery variations. A voice communication system was used to keep the senior examiner at the master unit in contact with the examiner using the slave unit.

A dual element 45 degree pitch-catch search unit, designed for the specific thickness range being examined, was used in the scanning of these welds for the detection of indications. The search units used in additional evaluation and in sizing of indications were the typical 45 degree pulse echo type.

In addition, LMT utilized a computer to aid them in sizing of indications. The computer program accurately tracked the beam paths in the material for a distance of one and one half nodes. The beam path was computed on the basis that the angle of reflection was equal to the angle of incidence and the program compensated for counter bore, external taper, weld crown and mismatch. The program also took into account the curvature of the pipe when computing the shape of axial flaws.

The computer then plotted the size and position of the indication by connecting the end points (50% of reference) of the first ray to show the indication, the ray with the maximum amplitude response and the last ray to show the indication. These end points (50% of reference) were determined by the measured transducer position, the measured metal path and beam angles calculated from the standard response.

The computer was then used to express the flaw as a percentage of the wall thickness. This was done by taking the difference of the deepest and shallowest rays and expressing it as a percentage of the wall thickness.

This method provided a more conservative interpretation of the Code. The indication limits at 50% of reference level rather than at the reference level as expressed in the Code will provide larger flaw size values.

Weld overlay repairs of the recirculation system piping were designed to repair piping with intergranular stress corrosion cracks. Each overlay consists of multiple circumferential passes of weld metal fused together to form a "cast-in-place" pressure boundary. The overlays were sized to produce a pressure boundary that meets the piping design requirements. In addition, the welded overlays produce compressive stresses in the pipe which should compress cracks and inhibit crack growth.

In the preparation for the weld overlay of weld RREJ-3, the grinding of the weld crown revealed a very small through-wall leak (1/64 inch long) on the surface adjacent to the weld (1/16 inch from the edge of the weld crown) at 3 o'clock on the safe end side. This through-wall leak had not been detected during the ultrasonic examination. Radiographs taken at several angles revealed that the indication appeared to spiral up the weld heat affected zone thus making it difficult for ultrasonic detection. Also, in buffing weld RRCJ-3 another very small through-wall leak on the surface adjacent to the weld at 8:30 on the safe-end side was found.

During the welding of the first layer of the overlay on welds RRFJ-3 and RRDJ-5 cracks developed and leakage was observed. These cracks were ground into and sound weld metal was obtained to inhibit crack growth. Liquid penetrant examinations were conducted to determine if crack growth had been inhibited prior to starting the remaining passes of the overlay.

After completion of the weld overlays the recirculation system was hydrostatically tested. The hydro test was supplemented with a new material that was applied to the welds to help maximize the inspection. This material, called "By-Lux", reacts with moisture to produce a visible indication for easier detection. This test revealed the evidence of one crack in weld RRGJ-4 at 3:00 position on the pipe side of the weld. This weld was overlayed and the system was hydro tested again.

The following tables give the location, component description and results of overlay defects.

TABLE I

<u>Weld Number</u>	<u>Location</u>
RMAJ-2	End Cap to Ring Header Weld in "A" Loop
RRCJ-3	Safe-end to Pipe Weld in "B" Loop
RRDJ-5	Elbow to Riser Weld in "B" Loop
RREJ-3	Safe-end to Pipe Weld in "B" Loop
RRFJ-3	Safe-end to Pipe Weld in "A" Loop
RRGJ-4	Elbow to Pipe Weld in "A" Loop

TABLE II

SYSTEM	WELD ID	INDICATION DESCRIPTION			
		ORIENTATION	DEPTH	LENGTH	LOCATION
REW 32-22" (MANIFOLD)	RMAJ-2	3-AXIAL	4-11%	1.0" 0.5" 0.5"	12:00-CAP
REW 21-12" (RISER)	RRCJ-3	3-RADIAL	> 50%	0.41 0.20 0.125	7:30-S.E. 8:00-S.E. 8:30 Pipe(Leak)
		2-CIRC.	3.5%	0.25	ROOT-INCOMPLETE FUSION
REW 20-12" (RISER)	RRDJ-5	1-RADIAL	> 50%	0.43	3:30-ELBOW
REW 19-12" (RISER)	RREJ-3	4-RADIAL	> 50%	0.34 0.30 0.28	12:00-PIPE 12:00-PIPE 12:00-S.E.
		1-CIRC.	9%	-	3:00 S.E.(Leak)
				1.06	12:00-ROOT
REW 14-12" (RISER)	RRFJ-3	2-RADIALS	> 50%	0.32	8:00-S.E. 4:00 S.E.(Leak)
REW 15-12"	RRGJ-4	1-CIRC.	22%	SPOT	3:00-PIPE(Leak during Hydro)

6.0 PIPING REPLACEMENTS

During this outage the installation of new piping in the Control Rod Drive Scram Header was performed. Also, new Main Steam Relief Valve sweep-o-lets and flanges were replaced.

A complete baseline examination was conducted on all pressure boundary welds related to the installation. Examinations were conducted utilizing radiography, ultrasonics, dye penetrant or magnetic particle testing. Any indications that were found to exceed code limitations were repaired and re-inspected.

The Control Rod Drive Scram Header was upgraded to increase the volume displacement of the system. The original design for this system utilized 6" header piping, 2" line piping to volume tank and a 12" volume tank to handle both headers. Due to IE Bulletin 80-17 and an NRC Safety Evaluation Report, this system was upgraded. This upgrade included replacement of the 6" header with a 12" header; replacement of the 2" line with 12" line; and replacement of a single 12" volume tank with 2 - 24" volume tanks. This upgrade resulted in 2 separate systems, independent of each other.

The Main Steam Safety Relief sweep-o-lets and flanges were replaced with a heavier wall sweep-o-let and flange. This replacement consisted of removal of the existing sweep-o-let and flanges that are currently being used to mount the safety relief valve. The sweep-o-lets and flanges that were not in use were not replaced.

APPENDIX A
ASME CLASS I - EXAMINATIONS

NORTHERN STATES POWER CO.

MONTICELLO NUCLEAR GENERATING PLANT

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S1.1

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MAJOR ITEM: REACTOR VESSEL 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.
B1.10	B-A	<u>SHELL WELDS</u>					
B1.11	B-A	<u>CIRCUMFERENTIAL</u>	ONE TWO THREE	10' 7' 9'	- - -		
B1.12	B-A	<u>LONGITUDINAL</u>	ONE TWO THREE	8' 9" 4' 12' 9"	- - -		
B1.20	B-A	<u>HEAD WELDS</u>					
B1.21	B-A	<u>CIRCUMFERENTIAL</u>					
		CLOSURE HEAD	ONE TWO THREE	8.5' 8' 8.5'	- - -		
		BOTTOM HEAD	ONE TWO THREE	3' 3' 3'	- - -		
B1.22	B-A	<u>MERIDONAL</u>	ONE TWO THREE	26' 21' 19'	- - -		
B1.30	B-A	<u>SHELL TO FLANGE WELD</u>	ONE TWO THREE	19' 19' 19'	- - -		
B1.40	B-A	<u>HEAD TO FLANGE WELD</u>	ONE TWO THREE	19' 19' 19'	- - -		
B1.50	B-A	<u>REPAIR WELDS</u>	-	-	-		

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INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S2.1

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MAJOR ITEM: VESSELS & HEAT EXCHANGERS

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
B2.10 & B2.20	B-B	<u>PRESSURIZER VESSEL</u>	-	-	-		
B2.30 & B2.40	B-B	<u>STEAM GENERATORS</u>	-	-	-		
B2.50 & B2.60	B-B	<u>HEAT EXCHANGERS</u>	-	-	-		

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INSERVICE INSPECTION—EXAMINATION SUMMARY

TABLE S3.1

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MAJOR ITEM: NOZZLE 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.
B3.10 & B3.20	B-D	<u>NOZZLE-TO-VESSEL WELDS & NOZZLE INSIDE RADIUS SECTION</u>					
		HEAD VENT	ONE	1	-		
		HEAD SPARE	TWO	1	-		
			THREE	1	-		
		STANDBY LIQUID CONTROL	TWO	1	-		
		MAIN STREAM	ONE	1	-		
			TWO	1	-		
			THREE	2	-		
		FEEDWATER	ONE	1	-		
			TWO	2	-		
			THREE	1	-		
		CORE SPRAY	ONE	1	-		
			THREE	1	-		
		CRD RETURN	ONE	1	-		
		RECIR OUTLET	ONE	1	1	RCAD-1	82-195, 255
			THREE	1	-		
		RECIR INLET	ONE	3	3	RRAD-1	82-170, 148
						RRDD-1	82-161, 171
						RRJD-1	82-160, 172
			TWO	3	-		
			THREE	4	-		
		JET PUMP INSTR	ONE	1	-		
			THREE	1	-		

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INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S3.1

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MAJOR ITEM: NOZZLE 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.
B3.30 & B3.40	B-D	<u>PRESSURIZER VESSEL</u>	-	-	-		
B3.50 & B3.60	B-D	<u>STEAM GENERATORS</u>	-	-	-		
B3.70 & B3.80	B-D	<u>HEAT EXCHANGERS</u>	-	-	-		

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INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S4.1

PAGE 1 OF 1

MAJOR ITEM: PARTIAL PENETRATION 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.
B4.10	B-E	<u>REACTOR VESSEL</u>	-	-	-		
B4.11	B-E	<u>PARTIAL PANET WELDS</u>	-	-	-		
B4.12	B-E	<u>VESSEL NOZZLES</u>	THREE	1	-		
B4.13	B-E	<u>CRD PENETRATIONS</u>	ONE	10	-		
			TWO	10	-		
			THREE	11	-		
B4.14	B-E	<u>INSTR PENETRATIONS</u>	THREE	1	-		
B4.20	B-E	<u>PRESSURIZER</u>	-	-	-		

NORTHERN STATES POWER CO.

MONTICELLO NUCLEAR GENERATING PLANT

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S5.1

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MAJOR ITEM: DISSIMILAR METAL 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.
B5.10	B-F	<u>REACTOR VESSEL</u>					
		<u>NOZZLE-TO-SAFE-END-WELDS</u>					
		HEAD VENT	ONE	1	-		
		HEAD SPARE	TWO	1	-		
			THREE	1	-		
		STAND BY LIQUID CONTROL	TWO	1	-		
		CORE SPRAY	ONE	1	-		
			THREE	1	-		
		CRD RETURN	ONE	1	-		
		RECIRC OUTLET	ONE	1	2	RCAF-2	82-177, 196
			THREE	1	-	RCBF-2 (augmented)	82-257
		RECIRC INLET	ONE	3	10	RRAF-2	82-70, 130
						RRDF-2	82-85, 151
						RRJF-2	82-84, 129
						-----AUGMENTED-----	
						RRBF-2	82-293
						RRCF-2	82-260
						RREF-2	82-296
						RRFF-2	82-261
						RRGF-2	82-268
						RRHF-2	82-254
						RRKF-2	82-279
			TWO	3	-		
			THREE	4	-		
		JET PUMP INSTR	ONE	1	-		
			THREE	1	-		

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MONTICELLO NUCLEAR GENERATING PLANT

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE 5.1

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MAJOR ITEM: DISSIMILAR METAL 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.
B5.10	B-F	(CONT'D)					
		INSTRUMENT LINES	ONE	1	-		
			TWO	1	-		
			THREE	2	-		
B5.20	B-F	<u>PRESSURIZER</u>	-	-	-		
B5.30	B-F	<u>STEAM GENERATORS</u>	-	-	-		
B5.40	B-F	<u>HEAT EXCHANGERS</u>	-	-	-		
B5.50	B-F	<u>SAFE END WELDS</u>					
		CORE SPRAY	ONE	2	-		
			THREE	2	-		
		HPCI STEAM	TWO	1	-		
		RHR (REW10)	ONE	-	1	RHAF-4 (Augmented)	82-274
			TWO	1	-		
		RHR (TW20)	ONE	-	3	RHBF-4 (Augmented)	82-241, 273
						RHBF-20 (Augmented)	82-242, 262
						RHBF-24 (Augmented)	82-245, 272
			TWO	1	-		
			THREE	2	-		
		RHR (TW30)	ONE	-	3	RHCF-4 (Augmented)	82-265, 269
						RHCF-20 (Augmented)	82-246, 264
						RHCF-23 (Augmented)	82-247, 263
			TWO	2	-		
			THREE	1	-		
		RWCU	ONE	1	1	CWAF-2	82-27, 28

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MAJOR ITEM: PRESSURE RETAINING BOLTING > 2"

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
B6.10	B-G-1	<u>CLOSURE HEAD NUTS</u>	ONE TWO THREE	22 21 21	- - -		
B6.20	B-G-1	<u>CLOSURE STUDS, IN PLACE</u>	-	-	-		
B6.30	B-G-1	<u>CLOSURE STUDS, WHEN REMOVED</u>	ONE TWO THREE	22 21 21	- - -		
B6.40	B-G-1	<u>LIGAMENTS BETWEEN STUD HOLES</u>	ONE TWO THREE	22 21 21	- - -		
B6.50	B-G-1	<u>CLOSURE WASHERS AND BUSHINGS</u>					
		WASHERS	ONE TWO THREE	22 Prs 21 Prs 21 Prs	- - -		
		BUSHINGS	ONE TWO THREE	22 21 21	- - -		
B6.60	B-G-1	<u>PRESSURIZER</u>	-	-	-		
B6.90	B-G-1	<u>STEAM GENERATORS</u>	-	-	-		
B6.120	B-G-1	<u>HEAT EXCHANGERS</u>	-	-	-		
		<u>PIPING</u>	-	-	-		
		<u>PUMPS</u>	-	-	-		

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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.
B6.180	B-G-1	<u>BOLTS & STUDS, IN PLACE</u>					
		RECIRC PUMP A	ONE	5	5	Bolts, 1 thru 5	82-193 (VT only)
		FLANGE BOLTS	TWO	5	-		
			THREE	6	-		
		RECIRC PUMP B	ONE	5	5	Bolts, 1 thru 5	82-174, 194
		FLANGE BOLTS	TWO	5	-		
			THREE	6	-		
B6.190	B-G-1	<u>BOLTS & STUDS, WHEN REMOVED</u>					
		RECIRC PUMP A & B	-	-	-		
		FLANGE BOLTS	-	-	-		
B6.200	B-G-1	<u>BOLTING</u>					
		RECIRC PUMP A	ONE	5	5	Bolts, 1 thru 5	82-173
		FLANGE BOLTS	TWO	5	-		
			THREE	6	-		
		RECIRC PUMP B	ONE	5	5	Bolts, 1 thru 5	82-192 (VT only)
		FLANGE BOLTS	TWO	5	-		
			THREE	6	-		
B6.210	B-G-1	<u>VALVES</u>					
		<u>BOLTS & STUDS, IN PLACE</u>					
		RECIRC A	ONE	8	8	M02-53A	82-180
			TWO	8	-		
			THREE	8	-		
		RECIRC A	ONE	8	8	M02-43A	82-182
			TWO	8	-		
			THREE	8	-		

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MAJOR ITEM: PRESSURE RETAINING BOLTING > 2"

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
B6.210	B-G-1	(CONT'D)					
		RECIRC B	ONE	8	8	M02-52B	82-179
			TWO	8	-		
			THREE	8	-		
		RECIRC B	ONE	8	8	M02-43B	82-181
			TWO	8	-		
			THREE	8	-		
B6.220	B-G-1	<u>BOLTS, & STUDS, WHEN REMOVED</u>					
		RECIRC A & B	-	-	-		
B6.230	B-G-1	<u>BOLTING</u>					
		RECIRC A	ONE	8	8	M02-53A	82-180
			TWO	8	-		
			THREE	8	-		
		RECIRC A	ONE	8	8	M02-43A	82-182
			TWO	8	-		
			THREE	8	-		
		RECIRC B	ONE	8	8	M02-53B	82-179
			TWO	8	-		
			THREE	8	-		
		RECIRC B	ONE	8	8	M02-43B	82-181
			TWO	8	-		
			THREE	8	-		

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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.
B7.10	B-G-2	<u>REACTOR VESSEL</u>					
		<u>BOLTS, STUDS, AND NUTS</u>					
		HEAD VENT	ONE	8	-		
		HEAD SPRAY	TWO	8	-		
		HEAD SPARE	THREE	8	-		
		CONTROL ROD HOUSINGS	ONE	41	-		
			TWO	40	-		
			THREE	40	-		
B7.20	B-G-2	<u>PRESSURIZER</u>	-	-	-		
B7.30	B-G-2	<u>STEAM GENERATORS</u>	-	-	-		
B7.40	B-G-2	<u>HEAT EXCHANGERS</u>	-	-	-		
		<u>PIPING</u>					
B7.50	B-G-2	<u>BOLTS, STUDS, AND NUTS</u>					
		MAIN STEAM A	ONE	1	-		
			THREE	3	-		
		MAIN STEAM B	TWO	1	-		
		MAIN STEAM C	ONE	1	-		
		MAIN STEAM D	ONE	1	-		
			TWO	1	-		
			THREE	2	-		
		RHR TW36	TWO	2	-		
		RECIRC A	ONE	1	1	Bolts @ RCAJ-20	82-357

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MAJOR ITEM: PRESSURE RETAINING BOLTING < 2"

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
B7.50	B-G-2	(CONT'D)					
		RECIRC B	THREE	1	-		
		RECIRC BYPASS A	TWO	1	-		
		RECIRC BYPASS B	TWO	1	-		
		HEAD VENT LINE	ONE	1	-		
		<u>PUMPS</u>					
B7.60	B-G-2	<u>BOLTS, STUDS, AND NUTS</u>					
		RECIRC PUMP A	ONE	3	-		
		GLAND BOLTS	TWO	3	-		
			THREE	4	-		
		RECIRC PUMP B	ONE	3	-		
		GLAND BOLTS	TWO	3	-		
			THREE	4	-		
		<u>VALVES</u>					
B7.70	B-G-2	<u>BOLTS, STUDS, AND NUTS</u>					
		MAIN STEAM A	ONE	2	-		
			TWO	-	-		
			THREE	2	-		
		MAIN STEAM B	ONE	-	-		
			TWO	2	-		
			THREE	2	-		

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SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
B7.70	B-G-2	(CONT'D)					
		MAIN STEAM C	ONE	2	-		
			TWO	-	-		
			THREE	2	-		
		MAIN STEAM D	ONE	-	-		
			TWO	2	-		
			THREE	2	-		
		FEEDWATER A	ONE	1	-		
			TWO	1	-		
			THREE	1	-		
		FEEDWATER B	ONE	1	-		
			TWO	1	-		
			THREE	1	-		
		CORE SPRAY A	ONE	2	-		
			TWO	1	-		
			THREE	-	-		
		CORE SPRAY B	ONE	1	-		
			TWO	-	-		
			THREE	2	-		
		HPCI STEAM	ONE	1	-		
			TWO	1	-		
		RWCU	ONE	1	-		
			TWO	1	-		
			THREE	1	-		
		RHR REW10	ONE	1	-		
			TWO	2	-		
			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.
B7.70	B-G-2	(CONT'D)					
		RHR TW20	ONE	1	-		
			TWO	2	-		
			THREE	-	-		
		RHR TW30	ONE	1	-		
			TWO	1	-		
			THREE	1	-		
		RHR TW36	ONE	1	-		
			TWO	2	-		
			THREE	-	-		
		RCIC STEAM	TWO	1	-		
			THREE	1	-		
		RECIRC BYPASS A	THREE	1	-		
		RECIRC BYPASS B	THREE	1	-		
		RECIRC MANIFOLD	ONE	2	2	M02-65A	82-178
			THREE	2	-	M02-66A	82-185
		HEAD VENT LINE	TWO	1	-		
			THREE	2	-		
		BOTTOM HEAD DRAIN	THREE	1	-		
		STANDBY LIQUID CONTROL	ONE	1	-		
			TWO	1	-		
			THREE	1	-		
		MAIN STEAM DRAIN	ONE	1	-		
			TWO	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.
B7.70	B-G-2	(CONT'D)					
		CRD SCRAM HEADER DRAIN LINE	ONE	1	-		
		RECIRC A DRAIN	ONE	2	2	XR-6-1 XR-7-1	82-87 82-88
		RECIRC B DRAIN	TWO	2	-		

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MAJOR ITEM: VESSEL SUPPORTS

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
B8.10	B-H	<u>REACTOR VESSEL</u>					
		<u>INTEGRALLY WELDED ATTACHMENTS</u>					
		SUPPORT SKIRT	ONE	17	-		
			TWO	18	-		
			THREE	18	-		
		STABILIZER LUGS	-	-	-		
B8.20	B-H	<u>PRESSURIZER</u>	-	-	-		
B8.30	B-H	<u>STEAM GENERATORS</u>	-	-	-		
B8.40	B-H	<u>HEAT EXCHANGERS</u>	-	-	-		

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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.
B9.10	B-J	<u>NOMINAL PIPE SIZE, 4 IN. AND GREATER</u>	-	-	-		
B9.11 & B9.12	B-J	<u>CIRCUMFERENTIAL AND *LONGITUDINAL WELDS</u>					
		MAIN STEAM A PS1-18"	ONE TWO THREE	3 - 3	- - -		
		PS1-6"	ONE TWO THREE	1 - 1	2 - -	MSAJ-16, 20 (Baseline)	82-311, 312
		MAIN STEAM B PS2-18"	ONE TWO THREE	- 4 3	- - -		
		PS2-6"	ONE TWO THREE	- 1 -	2 - -	MSBJ-15, 21 (Baseline)	82-313, 314
		MAIN STEAM C PS3-18"	ONE TWO THREE	2 2 3	- - -		
		PS3-6"	ONE TWO THREE	1 - -	2 - -	MSCJ-16, 21 (Baseline)	82-315, 318

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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.
B9.11 & B9.12	B-J	(CONT'D)					
		MAIN STEAM D					
		PS4-18"	ONE	2	-		
			TWO	1	-		
			THREE	3	-		
		PS4-6"	ONE	1	2	MSFJ-17, 21 (Baseline)	82-317, 316
			TWO	-	-		
			THREE	1	-		
		FEEDWATER A	ONE	2	-		
			TWO	-	-		
			THREE	1	-		
			ONE	-	-		
			TWO	2	-		
			THREE	1	-		
		FEEDWATER B	ONE	-	-		
			TWO	2	-		
			THREE	1	-		
		FEEDWATER C	ONE	1	-		
			TWO	-	-		
			THREE	1	-		
		FEEDWATER D	ONE	2	-		
			TWO	-	-		
			THREE	1	-		
			ONE	2	-		
			TWO	1	-		
			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.
B9.11 & B9.12	B-J	(CONT'D)					
		CORE SPRAY A	ONE	1	-		
			TWO	2	-		
			THREE	1	-		
		CORE SPRAY B	ONE	2	-		
			TWO	-	-		
			THREE	2	-		
		HPCI-STEAM	ONE	-	-		
			TWO	2	-		
			THREE	2	-		
		RWCU LINE	ONE	-	1	CWAJ-2A	82-320
			TWO	2	-		
			THREE	2	-		
		RHR REW10	ONE	3	3	RHAJ-1, 2, 3	82-252, 253, 275
			TWO	-	-		
			THREE	2	-		
		RHR TW20-16"	ONE	2	4	RHBJ-28, 29	82-31, 53, 32, 52
						RHBJ-1 (Augmented)	82-277
						RHBJ-3 (Augmented)	82-276
			TWO	2	-		
			THREE	1	-		
		RHR TW20-18"	ONE	-	2	RHBJ-21 (Augmented)	82-243
						RHBJ-22 (Augmented)	82-244
			TWO	-	-		
			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.
B9.11 & B9.12	B-J	(CONT'D)					
		RHR TW30-16"	ONE	2	4	RHCJ-7, 8	82-33, 55, 34, 54
						RHCJ-21 (Augmented)	82-248
						RHCJ-22 (Augmented)	82-249
			TWO	2	-		
			THREE	1	-		
		RHR TW30-18"	ONE	-	2	RHCJ-1 (Augmented)	82-250
						RHCJ-3 (Augmented)	82-251
			TWO	1	-		
			THREE	-	-		
		RHR TW36	ONE	-	-		
			TWO	3	-		
			THREE	3	-		
		RECIRC A	ONE	1	17	RCAJ-13	82-071, 074
						-----AUGMENTED-----	
						RCAJ-3	82-225
						RCAJ-4	82-120
						RCAJ-5	82-099
						RCAJ-6	82-121
						RCAJ-9	82-226
						RCAJ-11	82-227
						RCAJ-15	82-080
						RCAJ-17	82-228
						RCAJ-20	82-357
						RCAJ-21	82-081
						RCAJ-23	82-147
						RCAJ-24	82-229
						RCAJ-28	82-230
						RCAJ-30	82-082
						RCAJ-32	82-083
						RCAJ-35	82-256
			TWO	2	-		
			THREE	2	-		

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SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
B9.11 & B9.12	B-J	(CONT'D) RECIRC B	ONE	2	16	RCBJ-11, 13 -----AUGMENTED----- RCBJ-3 RCBJ-4 RCBJ-5 RCBJ-6 RCBJ-9 RCBJ-15 RCBJ-18 RCBJ-19 RCBJ-21 RCBJ-22 RCBJ-26 RCBJ-28 RCBJ-31 RCBJ-34	82-069, 095, 065, 094 82-258 82-231 82-096 82-232 82-231 82-233 82-234 82-098 82-146 82-235 82-236 82-097 82-237 82-240
		 RECIRC BYPASS A	TWO THREE ONE	- 2 2	- - 6	RBAJ-M12, M13 -----AUGMENTED----- RBAJ-2 RBAJ-M3 RBAJ-M15 RBAJ-M16	82-078, 302, 079, 301 82-288 82-289 82-287 82-286
			TWO 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.
B9.11 & B9.12	B-J	(CONT'D)					
		RECIRC BYPASS B	ONE	2	6	RBBJ-M7, M8 -----AU RBBJ-2 RBBJ-M3 RBBJ-M18 RBBJ-19	82-076, 213, 077, 18 MENTED----- 82-282 82-283 82-285 82-284
			TWO THREE	2 -	- -		
		RECIRC MANIFOLD	ONE	2	21	RMAJ-2, 9 -----AU RMAJ-3 RMAJ-5 RMAJ-7 RMAJ-8 RMAJ-10 RMAJ-14 RMAJ-15 RMAJ-16 RMBJ-2 RMBJ-3 RMBJ-5 RMBJ-7 RMBJ-8 RMBJ-9 RMBJ-10 RMBJ-12 RMBJ-14 RMBJ-15 RMBJ-16	82-30, 72, 72A, 72B, 67, 73 MENTED----- 82-214 82-218 82-217 82-270 82-113 82-122 82-216 82-215 82-131 82-219 82-220 82-132 82-271 82-221 82-133 82-222 82-358 82-216 82-224
			TWO THREE	2 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.
9.11 & B9.12	B-J	(CONT'D)					
		RECIRC RISERS				-----AU	MENTED-----
		RISER F	ONE	-	4	RRFJ-3	82-238
						RRFJ-4	82-209
						RRFJ-5	82-119
						RRFJ-7	82-190
			TWO	-	-		
			THREE	2	-		
		RISER G	ONE	-	4	-----AU	ENTED-----
						RRGJ-3	82-267
						RRGJ-4	82-207
						RRGJ-5	82-208
						RRCJ-7	82-280
			TWO	-	-		
			THREE	-	-		
		RISER H	ONE	1	4	RRHJ-7	82-187, 062, 062R
						-----AU	ENTED-----
						RRHJ-3	82-333
						RRHJ-4	82-205
						RRHJ-6	82-206
			TWO	2	-		
			THREE	-	-		
		RISER J	ONE	-	4	-----AUG	ENTED-----
						RRJJ-3	82-266
						RRJJ-4	82-118
						RRJJ-5	82-204
						RRJJ-7	82-188
			TWO	-	-		
			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.
B9.11 & B9.12	B-J	(CONT'D)					
		RISER K	ONE	-	4	-----AUGMENTED----- RRKJ-3	82-278
						RRKJ-4	82-203
						RRKJ-5	82-117
						RRKJ-7	82-189
			TWO	-	-		
			THREE	2	-		
		RISER A	ONE	-	4	-----AUGMENTED----- RRAJ-3	82-295
						RRAJ-4	82-114
						RRAJ-5	82-197
						RRAJ-7	82-191
			TWO	-	-		
			THREE	-	-		
		RISER B	ONE	-	4	-----AUGMENTED----- RRBJ-3	82-239
						RRBJ-4	82-202
						RRBJ-5	82-115
						RRBJ-7	82-212
			TWO	-	-		
			THREE	2	-		
		RISER C	ONE	-	4	-----AUGMENTED----- RRCJ-3	82-259
						RRCJ-4	82-116
						RRCJ-5	82-201
						RRCJ-7	82-297
			TWO	-	-		
			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.
B9.11 & B9.12	B-J	(CONT'D)					
		RISER D	ONE	-	4	RRDJ-3	82-198
			TWO	-	-	RRDJ-4	82-199
			THREE	-	-	RRDJ-5	82-200
						RRDJ-7	82-150
		RISER E	ONE	-	4	RREJ-3	82-294
			TWO	-	-	RREJ-4	82-211
			THREE	-	-	RREJ-5	82-210
						RREJ-7	82-149
		HEAD VENT	ONE	1	-		
		JET PUMP INSTR	ONE	-	-		
			TWO	-	-		
			THREE	1	-		
		INSTRUMENT LINES FROM N11A & N11B	ONE	1	-		
			TWO	-	-		
			THREE	1	-		
		CRD SCRAM HDR 8"	ONE	1	-		
			TWO	1	-		
			THREE	-	-		
		CRD SCRAM HDR 6"	ONE	-	-		
			TWO	2	-		
			THREE	3	-		

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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.
B9.11 & B9.12	B-J	(CONT'D)					
		CRD SCRAM HDR 6" (Cont'd)					
		A LOOP	ONE	-	3	BASELINE EXAMINATIONS CDAJ-24, 18, 27	82-327, 328, 006
		B LOOP	ONE	-	3	CDBJ-21, 20, 15	82-005, 334, 335
		CRD SCRAM HDR 4"	ONE	2	-		
			TWO	2	-		
			THREE	3	-		
		A LOOP	ONE	-	11	BASELINE EXAMINATIONS CDAJ-1, 8, 10, 11 CDAJ-12, 13, 15 CDAJ-16, 36, 42, 43	82-353, 349, 350, 351 82-001, 556, 355, 354 82-020, 352, 348, 003
		B LOOP	ONE	-	9	CDBJ-1, 6, 7, 8 CDBJ-9, 10, 28, 34 CDBJ-37	82-347, 343, 344, 002, 341 82-340, 342, 346, 345 82-004
		SCRAM DISCHARGE VOLUME TANK	ONE	-	-		
			TWO	-	-		
			THREE	1	-		
		A LOOP	ONE	-	2	BASELINE EXAMINATIONS CDAJ-54, 55	82-024, 023
		B LOOP	ONE	-	2	CDBJ-45, 46	82-022, 021
		CRD SCRAM HEADER 12"				BASELINE EXAMINATIONS	
		A LOOP	ONE	-	11	CDAJ-17, 28, 29, 45 CDAJ-33, 46, 49 CDAJ-50, 51, 52, 53	82-323, 012, 016, 010 82-015, 324, 325, 326 82-008, 007, 013, 337
		B LOOP	ONE	-	-	CDBJ-11, 12, 22, 23 CDBJ-39, 26, 40 CDBJ-43, 44	82-014, 332, 011, 018 82-009, 017, 331, 330 82-336, 339

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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.
B9.20	B-J	<u>NOMINAL PIPE SIZE LESS THAN 4 IN.</u>					
B9.21 & B9.22	B-J	<u>CIRCUMFERENTIAL AND *LONGITUDINAL WELDS</u>					
		RCIC-STEAM	ONE TWO THREE	2 - 2	- - -		
		STANDBY LIQUID CONTROL	ONE TWO THREE	- 1 -	- - -		
		MAIN STEAM CONDENSATE LEAKOFF	ONE TWO THREE	2 - 1	- - -		
B9.30	B-J	<u>BRANCH CONNECTION WELDS</u>					
B9.31	B-J	<u>NOMINAL PIPE SIZE GREATER THAN 2 IN.</u>					
		MAIN STEAM A	ONE TWO THREE	1 - 1	2 - -	MSAJ-15, 19 (Baseline)	82-303, 304
		MAIN STEAM B	ONE TWO THREE	- 1 -	2 - -	MSBJ-16, 20 (Baseline)	82-305, 306

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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.
89.31	B-J	<u>(CONT'D)</u>					
B		MAIN STEAM C	ONE	1	2	MSCJ-15, 20 (Baseline)	82-308, 307
		TWO		-	-		
		THREE		-	-		
		MAIN STEAM D	ONE	1	2	MSDJ-16, 20	82-310, 309
		TWO		-	-		
		THREE		1	-		
		RWCU	ONE	1	1	CWAJ-1	82-321
		RECIRC A	-	-	-		
		RECIRC B	THREE	1	-		
		RECIRC BYPASS A	TWO	2	-		
B		RECIRC BYPASS B	TWO	1	-		
		THREE		1	-		
		RECIRC MANIFOLD	ONE	1	1	RMAJ-12	82-29, 123
		TWO		1	-		
89.32	B-J	<u>NOMINAL PIPE SIZE 2 IN. AND LESS</u>					
		MAIN STEAM B	THREE	1	-		
		RWCU	-	-	-		
		MAIN STEAM CONDENSATE LEAKOFF	ONE	1	-		
		THREE		1	-		
		CRD SCRAM HDR	-	-	-		

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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.
B9.32	B-J	(CONT'D)					
		RECIRC DRAIN A & B	TWO	1	-		
B9.40	B-J	SOCKET WELDS					
		HEAT VENT	ONE	4	-		
			TWO	5	-		
			THREE	5	-		
		INSTRUMENT LINES	ONE	3	-		
			TWO	3	-		
			THREE	3	-		
		BOTTOM HEAD DRAIN	ONE	3	-		
			TWO	3	-		
			THREE	4	-		
		STANDBY LIQUID CONTROL	ONE	1	-		
			TWO	1	-		
			THREE	2	-		
		MAIN STEAM CONDENSATE LEAKOFF	ONE	3	-		
			TWO	3	-		
			THREE	3	-		
		CRD SCRAM HDR DISCHARGES	ONE	3	-		
			TWO	3	-		
			THREE	3	-		
		CRD SCRAM HEADER DRAIN	ONE	-	-		
			TWO	1	-		
			THREE	1	-		

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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.
B9.40	B-J	(CONT'D)					
B		RECIRC MANIFOLD BYPASS OF MO2-65A AND MO2-65B	ONE	4	4	VBBJ-8, 9, 10, 11	82-93, 90, 92, 91
			TWO	-	-		
			THREE	3	-		
		RECIRC A & B DRAIN	ONE	2	2	6A, 7A	82-162, 89
			TWO	2	-		
			THREE	3	-		

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MAJOR ITEM: SUPPORT MEMBERS

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
B10.10	B-K-1	<u>INTEGRALLY WELDED ATTACHMENTS AND B11.10 COMPONENT SUPPORTS</u>					
		MAIN STEAM A	ONE	1	-		
			TWO	-	-		
			THREE	1	-		
		MAIN STEAM B	ONE	-	-		
			TWO	2	-		
			THREE	-	-		
		MAIN STEAM C	ONE	-	-		
			TWO	1	-		
			THREE	1	-		
		MAIN STEAM D	ONE	-	-		
			TWO	1	-		
			THREE	1	-		
		FEEDWATER A & B	ONE	-	-		
			TWO	2	-		
			THREE	1	-		
		FEEDWATER A	ONE	1	-		
			TWO	-	-		
			THREE	-	-		
		FEEDWATER C & D	ONE	1	-		
			TWO	2	-		
			THREE	-	-		
		FEEDWATER D	ONE	1	-		
			TWO	-	-		
			THREE	-	-		

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MAJOR ITEM: SUPPORT MEMBERS

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
B10.10	B-K-1	(CONT'D)					
		RWCU	ONE TWO THREE	- - 1	- - -		
		RHR TW36	ONE TWO THREE	- 1 -	- - -		
		RECIRC A	ONE TWO THREE	3 2 3	3 - -	RCAK-16, 18 RCAK-33	82-42, 63, 41, 64 82-40, 40R, 176
		RECIRC B	ONE TWO THREE	2 2 4	2 - -	RCBK-10A, 14	82-36, 66, 35, 68
		RECIRC MANIFOLD	ONE TWO THREE	4 3 3	4 - -	RMAK-13, 13B RMAK-17A, 17B	82-47, 163, 49, 361 82-154, 175, 157, 164
		SCRAM DISCHARGE	ONE TWO THREE	1 - -	- - -		
B10.20	B-K-1	<u>PUMPS</u>	-	-	-		
B10.30	B-K-1	<u>VALVES</u>	-	-	-		

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MAJOR ITEM: COMPONENT SUPPORTS

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
B11.10	B-K-2	<u>COMPONENT SUPPORTS</u>					
		MAIN STEAM A	ONE	2	-		
			TWO	-	-		
			THREE	2	-		
		MAIN STEAM B	ONE	-	-		
			TWO	2	-		
			THREE	-	-		
		MAIN STEAM C	ONE	2	-		
			TWO	-	-		
			THREE	-	-		
		MAIN STEAM D	ONE	1	-		
			TWO	2	-		
			THREE	1	-		
		FEEDWATER A	ONE	2	-		
			TWO	-	-		
			THREE	1	-		
		FEEDWATER A	ONE	1	-		
			TWO	-	-		
			THREE	2	-		
		FEEDWATER D	ONE	1	-		
			TWO	-	-		
			THREE	2	-		
		FEEDWATER D	ONE	1	-		
			TWO	1	-		
			THREE	1	-		
		CORE SPRAY A	ONE	1	-		
			TWO	1	-		
			THREE	-	-		

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MAJOR ITEM: COMPONENT SUPPORTS

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
B11.10	B-K-2	(CONT'D)					
		CORE SPRAY B	ONE	1	-		
			TWO	-	-		
			THREE	1	-		
		HPCI-STEAM	ONE	-	-		
			TWO	-	-		
			THREE	1	-		
		RWCU	ONE	-	-		
			TWO	-	-		
			THREE	2	-		
		RHR REW10	ONE	-	-		
			TWO	4	-		
			THREE	2	-		
		RHR TW20	ONE	-	-		
			TWO	2	-		
			THREE	4	-		
		RHR TW30	ONE	2	-		
			TWO	3	-		
			THREE	-	-		
		RHR TW36	ONE	-	-		
			TWO	1	-		
			THREE	-	-		
		RCIC-STEAM	ONE	1	-		
			TWO	1	-		
			THREE	1	-		

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MAJOR ITEM: COMPONENT SUPPORTS

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
B11.10	B-K-2	(CONT'D)					
		RECIRC A	ONE	4	4	RCBK-6, 34 PHA-5 PSSA-5	82-043, 039 82-44 82-48
			TWO	4	-		
			THREE	4	-		
		RECIRC B	ONE	4	4	RCBK-10, 12 PHB-6 PSSB-5	82-37, 37R, 38 82-360, 360R 82-359
			TWO	4	-		
			THREE	4	-		
		RECIRC BYPASS A & B	ONE	1	1	RBBK-14	82-75
			TWO	-	-		
			THREE	1	-		
		RECIRC MANIFOLD A & B	ONE	4	4	RMAK-11, 13A, 17 RMBK-17	82-45, 46, 159 82-158
			TWO	3	-		
			THREE	3	-		
		RECIRC RISERS MANIFOLD A & B	ONE	3	3	RRJK-6 RRKK-6 RRDK-6	82-50, 50R 82-51 82-155
			TWO	3	-		
			THREE	4	-		
		HEAD VENT LINE	ONE	1	-		
			TWO	-	-		
			THREE	1	-		
		BOTTOM HEAD DRAIN	ONE	3	-		
			TWO	2	-		
			THREE	-	-		

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MAJOR ITEM: COMPONENT SUPPORTS

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
B11.10	B-K-2	(CONT'D)					
		STANDBY LIQUID CONTROL	ONE	1	-		
			TWO	1	-		
			THREE	-	-		
		CRD SCRAM HEADER A	ONE	4	-		
			TWO	5	-		
			THREE	5	-		
		CRD SCRAM HEADER B	ONE	5	-		
			TWO	5	-		
			THREE	5	-		
		CRD SCRAM HEADER DISCHARGES A & B	ONE	4	-		
			TWO	7	-		
			THREE	7	-		
		CRD SCRAM HEADER DRAIN	ONE	1	-		
			TWO	-	-		
			THREE	-	-		
		SCRAM DISCHARGE VOLUME TANK	ONE	1	-		
			TWO	-	-		
			THREE	-	-		
		RECIRC VALVE BYPASS A&B	ONE	1	1	VBBK-6A	82-156
			TWO	1	-		
			THREE	-	-		
B11.20	B-K-2	<u>PUMPS</u>					
		<u>COMPONENT SUPPORTS</u>	-	-	-		

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MAJOR ITEM: COMPONENT SUPPORTS

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
B11.30	B-K-2	<u>VALVES</u> <u>COMPONENT SUPPORTS</u>	-	-	-		

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MAJOR ITEM: PUMP CASING & VALVE BODIES

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
		<u>PUMPS</u>					
B12.10	B-L-1	<u>PUMP CASING WELDS</u>	-	-	-		
B12.20	B-L-1	<u>PUMP CASING</u>					
		RECIRC PUMPS A & B	-	-	-		
		<u>VALVES</u>					
B12.10	B-L-1	<u>VALVE BODY WELDS</u>	-	-	-		
B12.20	B-L-1	<u>VALVES BODY, EXCEEDING 4 IN. NOMINAL PIPE SIZE</u>					
		ATWOOD MORRILL GLOBE VALVES	THREE	-	-		
		TARGET ROCK RELIEF VALVES	THREE	-	-		
		ANCHOR CHECK VALVES	THREE	-	-		
		ATWOOD MORRILL CHECK VALVE	THREE	-	-		
		ROCKWELL CHECK VALVE	THREE	-	-		
		ANCHOR GATE VALVE	THREE	-	-		
		CRANE CHAPMAN GATE VALVE	-	-	-		

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MAJOR ITEM: REACTOR VESSEL INTERIOR

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
B13.10	B-N-1	<u>REACTOR VESSEL</u> <u>VESSEL INTERIOR</u>	ONE TWO THREE	- - -	- - -		
B13.20 & B13.30	B-N-1	<u>INTERIOR ATTACHMENTS & CORE SUPPORT STRUCTURES</u>	ONE TWO THREE	- - -	- - -		
B13.30	B-N-1	<u>REACTOR VESSEL (PWR)</u> <u>CORE SUPPORT STRUCTURES</u>	-	-	-		

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MAJOR ITEM: CONTROL ROD HOUSING 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.
B14.10	B-0	<u>REACTOR VESSEL</u> <u>WELDS IN CRD HOUSING</u>	ONE TWO THREE	1 1 1	- - -		

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MAJOR ITEM: PRESSURE RETAINING 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.
B15.10	B-P	REACTOR VESSEL	-	-	-		
B15.50	B-P	PIPING	-	-	-		
B15.60	B-P	PUMPS	-	-	-		
B15.70	B-P	VALVES	-	-	-		
B15.11	B-P	REACTOR VESSEL	-	-	-		
B15.51	B-P	PIPING	-	-	-		
B15.61	B-P	PUMPS	-	-	-		
B15.71	B-P	VALVES	-	-	-		
B15.20	B-P	<u>PRESSURIZER</u>	-	-	-		
B15.30	B-P	<u>STEAM GENERATORS</u>	-	-	-		
B15.40	B-P	<u>HEAT EXCHANGERS</u>	-	-	-		

COMPONENT/SYSTEM	NSP ISO	NDE METHOD	BASLINE IDENT.	REPORT NO.	BASELINE INDICATIONS	ISI INDICATIONS	EXAMINATION LIMITATIONS
<u>REACTOR VESSEL</u>							
<u>B3.10 NOZZLE-TO-VESSEL</u> & <u>WELDS</u>							
<u>B3.20 NOZZLE INSIDE RADIUS</u> <u>SECTION</u>							
RECIRCULATION OUTLET N1A	13A	UT	RCAD-1	82-195 82-255	NONE NONE	NONE NONE	NONE NONE
RECIRCULATION INLET N2A	13D	UT	RRAD-1	82-170 82-148	NONE NONE	NONE NONE	NONE NONE
N2D	13D	UT	RRDD-1	82-171 82-161	NONE NONE	NONE NONE	NONE NONE
N2J	13C	UT	RRJD-1	82-160 82-172	NONE NONE	NONE NONE	NONE NONE
<u>B5.10 NOZZLE TO SAFE END</u> <u>WELDS</u>							
RECIRCULATION OUTLET N1A	13A	UT PT	RCAF-2	82-196 82-177	NONE NONE	NONE NONE	NONE NONE
N1B	13	UT	RCBF-2	82-257	NONE	NONE	NONE
RECIRCULATION INLET N2A	13	UT	RRAF-2	82-130	NONE	S-1, ID GEO., 25% S-2, ID GEO., 63%	NONE
		PT		82-70	NONE	NONE	NONE

COMPONENT/SYSTEM	NSP ISO	NDE METHOD	BASELINE IDENT.	REPORT NO.	BASELINE INDICATIONS	ISI INDICATIONS	EXAMINATION LIMITATIONS
B5.10 CON'T.							
RECIRCULATION INLET N2B		UT	RRBF-2	82-293	S-1, ID GEO 43% S-2, ID GEO 70%	S-2, ID GEO	NONE
N2C		UT	RRCF-2	82-260	NONE	S-1 ID/OD GEO 25% S-2 ID/OD GEO 25%	NONE
N2D		UT	RRDF-2	82-151	NONE	S-2 ID GEO 25% 10:00 to 2:00	NONE
		PT		82-85	NONE	NONE	NONE
N2E		UT	RREF-2	82-296	NONE	S-1 SPOT 12:00 & 3:00 100% S-2 ID GEO 30%	NONE
N2F		UT	RRFF-2	82-261	S-1, ID GEO 57%, S-2 ID GEO 100%	S-1 ID/OD GEO 50% S-2 ID/OD GEO 100%	ALL SCANS LIMITED ACCESS 3:00 to 6:00
N2G		UT	RRGF-2	82-268	S-2, ID GEO 90%	S-1 ID GEO 40% S-2 ID & INTERFACE S/S to C/S 100%	NONE
N2H		UT	RRHF-2	82-254	S-1, ID GEO 60%, S-1 ID GEO 95%, S-2, ID GEO 85%	S-1 ID GEO 100% S-2 ID GEO 60% S-4 ID GEO 50% 2:30 to 9:00	NONE
N2J		UT	RRJF-2	82-129	NONE	S-1 ID GEO 25% @ 7:00 S-2 ID GEO 45% @ 6:00 S-2 OD GEO 45% 9:00 to 12:00	NONE
		PT		82-84	NONE	NONE	NONE

COMPONENT/SYSTEM	NSP ISO	NDE METHOD	BASLINE IDENT.	REPORT NO.	BASLINE INDICATIONS	ISI INDICATIONS	EXAMINATION LIMITATIONS
<u>B5.10 CON'T.</u>					S-1, ID GEO 33%		
RECIRCULATION INLET N2K		UT	RRKF-2	82-279	S-2, ID GEO 47%	S-2, ID/OD GEO 100%	NONE
<u>B5.50 SAFE END WELDS</u>							
RESIDUAL HEAT REMOVAL	11A	UT	RHAF-4	82-274	NONE	NONE	NONE
	11B	UT	RHBF-4	82-241	NONE	S-1, SPOT 7:30, 28% S-1, ID GEO, 50% S-2, SPOT 2:00, 31% S-2, ID GEO, 50%	NONE
		UT RT		82-273 82-378 82-379	NONE N/A	NONE	NONE
	11B	UT	RHBF-20	82-242	S-1, ID GEO 45%	NONE	NONE
		UT		82-262	S-1, ID GEO 45%	NONE	NONE
	11B	UT	RHBF-24	82-245	S-2, ID GEO 40%	NONE	NONE
		UT		82-272	S-2, ID GEO 40%	NONE	S-1 & 2 LIMITED CONFIG.
	11C	UT	RHCF-4	82-265	NONE	S-2, OD GEO, 90%	NONE
		UT		82-269	NONE	S-2, OD GEO, 90% 12:00 to 6:00.	NONE
	11C	UT	RHCF-20	82-246	S-2 ID/OD GEO, 40%	S-1, ID/OD GEO, 25% S-2, ID/OD GEO, 60%	NONE
		UT		82-264	S-2, ID/OD GEO, 40%	S-1, ID/OD GEO, 25% S-2, ID/OD GEO, 60%	NONE

COMPONENT/SYSTEM	NSP ISO	NDE METHOD	BASELINE IDENT.	REPORT NO.	BASELINE INDICATIONS	ISI INDICATIONS	EXAMINATION LIMITATIONS
<u>B5.50 CON'T.</u>							
	11C	UT	RHCF-23	82-247	NONE	S-1, ID GEO, 100% 12:00 to 3:00 S-1, OD GEO, 100% 6:00 to 9:00 S-2, ID GEO, 40%	NONE
		UT		82-263	NONE	S-1, ID GEO, 100% S-1, ID GEO, 100% S-2, ID GEO, 40%	NONE
REACTOR WATER CLEAN UP	9	UT	CWAF-2	82-027	NONE	NONE	NONE
		PT		82-028	NONE	NONE	NONE
<u>PUMPS</u>							
<u>B6.180 BOLTS AND STUDS IN PLACE</u>							
RECIRCULATION PUMP A	13A	VT	P-200A 1 thru 16	82-193	NONE	NONE	TOPS ONLY
RECIRCULATION PUMP B	13B	UT	P-200B 1 thru 16	82-174	NONE	NONE	TOP ONLY, BEST EFFORT PIPING
		VT		82-194	NONE	NONE	TOPS ONLY
<u>B6.200 BOLTING</u>							
RECIRCULATION PUMP A FLANGE BOLTS	13A	UT	P-200A 1 thru 16	82-173	NONE	NONE	TOPS ONLY
RECIRCULATION PUMP B FLANGE BOLTS	13B	VT	P-200B 1 thru 16	82-192	NONE	NONE	TOPS ONLY

COMPONENT/SYSTEM	NSP ISO	NDE METHOD	BASELINE IDENT.	REPORT NO.	BASELINE INDICATIONS	ISI INDICATIONS	EXAMINATION LIMITATIONS
<u>VALVES</u>							
<u>B6.210 BOLTS AND STUDS, IN PLACE</u>							
RECIRCULATION A	13A	UT	M02-53A BOLTS 1-24	82-180	NONE	NONE	TOPS ONLY
	13A	UT	M02-43A BOLTS 1-24	82-182	NONE	NONE	TOPS ONLY
RECIRCULATION B	13B	UT	M02-53B BOLTS 1-24	82-179	NONE	NONE	B.E. BOLT 20 WELD METAL, TOP ONLY
		UT	M02-43B BOLTS 1-24	82-181	NONE	NONE	TOPS ONLY
<u>B6.230 BOLTING</u>							
RECIRCULATION A	13A	UT	M02-53A	82-180	NONE	NONE	TOPS ONLY
	13A	UT	M02-43B	82-182	NONE	NONE	TOPS ONLY
RECIRCULATION B	13B	UT	M02-53B	82-179	NONE	NONE	B.E. #20 WELD METAL, TOPS ONLY
	13B	UT	M02-43B	82-181	NONE	NONE	TOPS ONLY
<u>PIPING</u>							
<u>B7.50 BOLTS, STUDS AND NUTS</u>							
RECIRCULATION A	13A	VT	FLANGE AT RCAJ-20	82-357	NONE	NONE	NONE

COMPONENT/SYSTEM	NSP ISO	NDE METHOD	BASELINE IDENT.	REPORT NO.	BASELINE INDICATIONS	ISI INDICATIONS	EXAMINATION LIMITATIONS
<u>VALVES</u>							
<u>B7.70 BOLTS, STUDS AND NUTS</u>							
RECIRCULATION MANIFOLD	13C	UT	M02-65A	82-178	NONE	NONE	NONE
	13C	UT	M02-66A	82-185	NONE	NONE	NONE
RECIRCULATION DRAIN A	26	VT	XR -6-1	82-087	NONE	NONE	NONE
	26	VT	XR -7-1	82-088	NONE	NONE	NONE
<u>B9.11 CIRCUMFERENTIAL AND & B9.12 LONGITUDINAL WELDS</u>							
MAIN STEAM A		UT	MSAJ-16	82-311	NONE	N/A	S-1 PARTIAL CONFIG. NO S-2 CONFIG.
		UT	MSAJ-20	82-312	NONE	N/A	S-1 PARTIAL CONFIG. NO S-2 CONFIG.
MAIN STEAM B		UT	MSBJ-15	82-313	NONE	N/A	S-1 PARTIAL CONFIG. NO S-2 CONFIG.
		UT	MSBJ-21	82-314	NONE	N/A	S-1 PARTIAL CONFIG. NO S-2 CONFIG.
MAIN STEAM C		UT	MSCJ-16	82-315	NONE	N/A	S-1 PARTIAL CONFIG. NO S-2 CONFIG.
		UT	MSCJ-21	82-318	NONE	N/A	S-1 PARTIAL CONFIG. NO S-2 CONFIG.
MAIN STEAM D		UT	MSDJ-17	82-317	NONE	N/A	S-1 PARTIAL CONFIG. NO S-2 CONFIG.
		UT	MSDJ-21	82-316	NONE	N/A	S-1 PARTIAL CONFIG. NO S-2 CONFIG.

COMPONENT/SYSTEM	NSP ISO	NDE METHOD	BASELINE IDENT.	REPORT NO.	BASELINE INDICATIONS	ISI INDICATIONS	EXAMINATION LIMITATIONS
B9.11 & 9.12 CON'T.							
REACTOR WATER CLEAN UP	9	UT	CWAJ-2A	82-320	NONE	NONE	NONE
RESIDUAL HEAT REMOVAL "A"	11A	UT	RHAJ-1	82-252	NONE	S-2, GEO, 25%	NO S-1 "T"
	11A	UT	RHAJ-2	82-253	NONE	NONE	ALL SCANS LIMITED 5:30 to 6:30 SUPPORT
	11A	UT	RHAJ-3	82-275	NONE	NONE	NONE
RESIDUAL HEAT REMOVAL "B"	11B	UT	RHBJ-1	82-277	NONE	S-3, ID/OD GEO, 25%	NO S-2 "T"
	11B	UT	RHBJ-3	82-276	NONE	NONE	NONE
	11B	UT	RHBJ-21	82-243	S-1 ID GEO 10% S-3 ID GEO 14%	NONE	NO S-2 CONFIG. S-3&4 PARTIAL CONFIG
	11B	UT	RHBJ-22	82-244	S-3, ID GEO 14%	NONE	NO S-2 CONFIG. S-3&4 PARTIAL CONFIG
	11B	UT	RHBJ-28	82-053	NONE	S-1, ID GEO, 40%	NONE
		PT		82-031	NONE	NONE	NONE
	11B	UT	RHBJ-29	82-052	NONE	NONE	NO S-1 PENETRATION BEST EFFORT (B.E.) S-3&4 PENETRATION
		PT		82-032		NONE	NONE

COMPONENT/SYSTEM	NSP ISO	NDE METHOD	BASELINE IDENT.	REPORT NO.	BASELINE INDICATIONS	ISI INDICATIONS	EXAMINATION LIMITATIONS
<u>B9.11 & 9.12 CON'T.</u>							
RESIDUAL HEAT REMOVAL "C"	11C	UT	RHCJ-1	82-250	NONE	NONE	NO S-2 "T"
	11C	UT	RHCJ-3	82-251	NONE	NONE	NONE
	11C	UT	RHCJ-7	82-055	NONE	S-2, ID GEO, 25% 8:00 to 11:00	NONE
		PT		82-033		NONE	NONE
	11C	UT	RHCJ-8	82-054	NONE	NONE	NONE
		PT		82-034		NONE	NONE
	11C	UT	RHCJ-21	82-248	NONE	NONE	NO S-1 CONFIG. S-3&4 PARTIAL CONFIG
	11C	UT	RHCJ-22	82-249	NONE	S-1 GEO 25%	S-1 PARTIAL SUPPORT
	13A	UT	RCAJ-3	82-225	NONE	NONE	NONE
	13A	UT	RCAJ-4	82-120	S-1 ID/OD GEO < 50%	S-2, OD GEO, 25% @ 10:00 S-2, ID GEO, 25% @ 8:00	NONE
RECIRCULATION A	13A	UT	RCAJ-5	82-099	NONE	S-1, ID/OD GEO, 30% S-2, ID/OD GEO, 30% S-3, SPOT 12:00, 35%	NONE
	13A	UT	RCAJ-6	82-121	S-1 ID GEO 50%	S-1, ID GEO, 25%	NO S-2 CONFIG.
	13A	UT	RCAJ-9	82-226	NONE	NONE	NO S-2 BAND

COMPONENT/SYSTEM	NSP ISO	NDE METHOD	BASELINE IDENT.	REPORT NO.	BASELINE INDICATIONS	ISI INDICATIONS	EXAMINATION LIMITATIONS
<u>B9.11 & 9.12 CON'T.</u>	13A	UT	RCAJ-11	82-227	NONE	NONE	NONE
	13A	UT	RCAJ-13	82-074	NONE	S-1, ID/OD GEO, 50% S-2, ID/OD GEO, 50% S-3, ID/OD GEO, 50% S-4, ID/OD GEO, 50% S-5, ID/OD GEO, 50%	NONE
	13A	UT	RCAJ-15	82-080	NONE	S-1, ID/OD GEO, 30%	NONE
	13A	UT	RCAJ-17	82-228	NONE	NONE	NO S-1 VALVE
	13A	UT	RCAJ-20	82-357	NONE	NONE	NO S-2 CONFIG. S-3 & 4 B.E. CONFIG
	13A	UT	RCAJ-21	2-081	NONE	S-1, ID/OD GEO, 50% S-2, ID/OD GEO, 50%	S-1 LIMITED, BAND
	13A	UT	RCAJ-23	2-147	NONE	NONE	NONE
	13A	UT	RCAJ-24	2-229	NONE	NONE	NO S-1 PUMP
	13A	UT	RCAJ-28	2-230	NONE	NONE	NO S-2 CONFIG. S-3&4 PARTIAL CONF
	13A	UT	RCAJ-30	2-082	NONE	-2, ID/OD GEO, 50%	NO S-1 VALVE
	13A	UT	RCAJ-32	2-083	WELD SUR- FACE NOISE < 50%	-1, ID/OD GEO, 50% -2, ID/OD GEO, 50% -3, ID/OD GEO, 50% -4, ID/OD GEO, 50%	NONE
	3A	UT	RCAJ-35	2-256	NONE	NONE	NO S-1 BAND

COMPONENT/SYSTEM	NSP ISO	NDE METHOD	BASELINE IDENT.	REPORT NO.	BASELINE INDICATIONS	ISI INDICATIONS	EXAMINATION LIMITATIONS
B9.11 & 9.12 CON'T. RECIRCULATION B	13B	UT	RCBJ-3	82-258	NONE	NONE	NONE
	13B	UT	RCBJ-4	82-231	NONE	S-4, ID GEO, 20% LONG. SEAM	NONE
	13B	UT	RCBJ-5	82-096	S-1, ID GEO 60% S-2, ID GEO 60%	S-1, ID/OD GEO, 56% S-2, ID/OD GEO, 56%	NONE
	13B	UT	RCBJ-6	82-232	NONE	NONE	NONE
	13B	UT	RCBJ-9	82-281	NONE	NONE	NONE
	13B	UT	RCBJ-11	82-095	NONE	NONE	S-9, 10, 11, 12 LIMITED SUPPORT
		PT		82-069	NONE	NONE	NONE
	13B	UT	RCBJ-13	82-094	NONE	S-1, ID GEO, 25% 10:00 to 3:00	NO S-2 VALVE
	13B	UT	RCBJ-15	82-233	NONE	NONE	S-2&3 PARTIAL CONFIG NO S-4 CONFIG.
	13B	UT	RCBJ-18	82-234	NONE	NONE	S-2&3 PARTIAL CONFIG NO S-4 CONFIG.
	13B	UT	RCBJ-19	82-098	NONE	S-1, ID/OD GEO, 40% S-2, ID/OD GEO, 30%	S-1 LIMITED BAND NO SCANS 8:00-9:30 BRANCH CONNECTION
	13B	UT	RCBJ-21	82-146	NONE	S-1, ID GEO, 25% @ 4:00	NONE

COMPONENT/SYSTEM	NSP ISO	NDE METHOD	BASELINE IDENT.	REPORT NO.	BASELINE INDICATIONS	ISI INDICATIONS	EXAMINATION LIMITATIONS
<u>B9.11 & 9.12 CON'T.</u>							
RECIRCULATION BYPASS "A"	13B	UT	RCBJ-22	82-235	NONE	NONE	NO S-1 PUMP
	13B	UT	RCBJ-26	82-236	NONE	NONE	S-2 LIMITED VALVE
	13B	UT	RCBJ-28	82-097	NONE	S-1, ID/OD GEO, 25%	NO S-1 VALVE
	13B	UT	RCBJ-31	82-237	NONE	NONE	NONE
	13B	UT	RCBJ-34	82-240	NONE	NONE	NO S-2 CONFIG. S-3&4 PARTIAL CONFIG
	13AA	UT	RBAJ-2	82-288	NONE	NONE	NO S-2 CONFIG.
	13AA	UT	RBAJ-M3	82-289	NONE	S-2, ID GEO, 40% AT 2:00	S-1 B.E. WELD-O-LET
	13AA	UT	RBAJ-B12	82-302	NONE	NONE	NO S-1 CONFIG. S-3&4 PARTIAL CONFIG
		PT		82-078		NONE	NONE
	13AA	UT	RBAJ-M13	82-301	NONE	NONE	NONE
RECIRCULATION BYPASS "B"		PT		82-079		NONE	NONE
	13AA	UT	RBAJ-M15	82-287	NONE	S-2, OD GEO, 45% AT 10:30	S-2, B.E. WELD-O-LET
	13AA	UT	RBAJ-M16	82-286		NONE	NO S-2 CONFIG.
	13BB	UT	RBBJ-2	82-282	NONE	NONE	NO S-1 CONFIG.
	13BB	UT	RBBJ-M3	82-283	NONE	NONE	S-1, B.E. WELD-O-LET

COMPONENT/SYSTEM	NSP ISO	NDE METHOD	BASELINE IDENT.	REPORT NO.	BASELINE INDICATIONS	ISI INDICATIONS	EXAMINATION LIMITATIONS
B9.11 & 9.12 CON'T. RECIRCULATION MANIFOLD "A"	13BB	UT	RBBJ-M7	82-213	NONE	NONE	NONE
		PT		82-076		NONE	NONE
	13BB	UT	RBBJ-M8	82-186	NONE	S-1, ID/OD GEO, 25%	NONE
		PT		82-077		NONE	NONE
	13AA	UT	RBBJ-M18	82-285	NONE	NONE	S-2, B.E. WELD-O-LET
	13AA	UT	RBBJ-19	82-284	NONE	NONE	NO S-2 CONFIG.
	13C	UT	RMAJ-2	82-072	S-1 MISMATCH 360° 100%	S-2, ID/OD GEO, 35% S-3, LINEAR, 95% AT 12:00, S-4, MUL- TIPLE LINEARS AT 12:00 90%	NONE
		UT		82-072A		S-3, LINEAR, 60% AT 12:00, S-4, MUL- TIPLE LINEARS AT 12:00, 110%	NONE
	13C	PT	RMAJ-2 OVERLAY	82-030	S-1, SPOT, 150%	NONE	NONE
		RT		82-367		4 LINEARS	NONE
		UT		82-362		N/A	NONE
		UT		82-363		N/A	NONE
					S-1, SPOT, 75% 12:00-1:30 S-2, SPOT, 60% 10:30-2:00 S-3, SPOT, 100% 9:30-2:00 S-4, SPOT, 100% 10:00-1:00		

COMPONENT/SYSTEM	NSP ISO	NDE METHOD	BASELINE IDENT.	REPORT NO.	BASELINE INDICATIONS	ISI INDICATIONS	EXAMINATION LIMITATIONS
B9.11 & 9.12 CON'T.		UT	RMAJ-2 OVERLAY & WELD	82-364	S-1, LINEAR 50% AT 11:30 S-2, LINEAR 50% AT 11:30 S-3, LINEAR 50% AT 11:30 S-4, LINEAR 50% AT 11:30	N/A	NONE
		RT	RMAJ-2	82-367R	NONE	N/A	NONE
	13C	UT	RMAJ-3	82-214	NONE	NONE	S-1, LIMITED AT 9:00 S-2,3,4 PARTIAL CON- FIG.
	13C	UT	RMAJ-5	82-218	NONE	NONE	S-2,3,4. PARTIAL CON- FIG.
	13C	UT	RMAJ-7	82-217	NONE	NONE	ALL SCANS LIMITED CONFIG.
	13C	UT	RMAJ-8	82-270	NONE	NONE	No S-1,2 CONFIG.
	13C	UT	RMAJ-9	82-073	NONE	NONE	S-1 B.E. "T"
		PT		82-067		NONE	NONE
	13C	UT	RMAJ-10	82-113	S-2, ID GEO 50%	NONE	NO S-2 "T"
	13C	UT	RMAJ-14	82-122	NONE	NONE	NO S-2 CONFIG.
	13C	UT	RMAJ-15	82-216	NONE	NONE	NO S-2 CONFIG. S-3,4 PARTIAL CONFIG

COMPONENT/SYSTEM	NSP ISO	NDE METHOD	BASELINE IDENT.	REPORT NO.	BASELINE INDICATIONS	ISI INDICATIONS	EXAMINATION LIMITATIONS
B9.11 & 9.12 CON'T. RECIRCULATION MANIFOLD "B"	13C	UT	RMAJ-16	82-215	NONE	NONE	NO S-1 CONFIG. S-3,4 PARTIAL CONFIG
	13D	UT	RMBJ-2	82-131	NONE	S-2, ID GEO, 56%	NONE
	13D	UT	RMBJ-3	82-219	NONE	NONE	S-1 LIMITED AT 3:00 S-2,3,4 PARTIAL CON- FIG.
	13D	UT	RMBJ-5	82-220	NONE	NONE	S-2,3,4 PARTIAL CON- FIG.
	13D	UT	RMBJ-7	82-132	NONE	NONE	NO S-1 "T"
	13D	UT	RMBJ-8	82-271	NONE	NONE	NO S-1 CONFIG., S-3,4 PARTIAL CONFIG.
	13D	UT	RMBJ-9	82-221	NONE	NONE	NO S-1 CONFIG., S-3,4 PARTIAL CONFIG.
	13D	UT	RMBJ-10	82-133	NONE	NONE	NO S-2 "T"
	13D	UT	RMBJ-12	82-222	NONE	NONE	S-2,3,4 PARTIAL CON- FIG.
	13D	UT	RMBJ-14	82-358	NONE	NONE	NO S-2, S-1 LIMITED AT 1:00 BRANCH CON- NECTION
	13D	UT	RMBJ-15	82-216	NONE	NONE	NO S-2 CONFIG. S-3,4 PARTIAL CONFIG.
	13D	UT	RMBJ-16	82-224	NONE	NONE	NO S-1 CONFIG. S-3,4 PARTIAL CONFIG.

COMPONENT/SYSTEM	NSP ISO	NDE METHOD	BASELINE IDENT.	REPORT NO.	BASELINE INDICATIONS	ISI INDICATIONS	EXAMINATION LIMITATIONS
<u>B9.11 & 9. 12 CON'T.</u> RECIRCULATION RISERS RISER F		UT	RRFJ-3	82-238	S-1, ID THREADS 56% S-2, ID THREADS 100% WELD CROWN 70%	S-1, OD GEO, 50% S-2, ID GEO, 100% S-3, LINEAR, 80% AT 8:00	NONE
		RT		82-371	LINEARS	NONE	NONE
		UT	RRFJ-3 OVERLAY & WELD	82-238R	S-2, LINEAR 32%	N/A	NONE
		UT	RRFJ-3 OVERLAY	82-238Ra	NONE	N/A	NONE
		UT	RRFJ-3 OVERLAY	82-238Rb	NONE	N/A	NONE
		UT	RRFJ-3 OVERLAY	82-238Rc	NONE	N/A	NONE
		RT		82-371R	LINEARS	N/A	NONE
		UT	RRFJ-4	82-209	NONE	S-1, SPOT 21% S-3, SPOT 45% AT 6:00 S-4, SPOT 41% AT 8:00	NONE
		RT		82-372	NONE	N/A	NONE
				82-373	NONE	N/A	NONE

COMPONENT/SYSTEM	NSP ISO	NDE METHOD	BASLINE IDENT.	REPORT NO.	BASLINE INDICATIONS	ISI INDICATIONS	EXAMINATION LIMITATIONS
B9.11 & 9.12 CON'T.							
RISER G		UT	RRFJ-5	82-119	NONE	S-1, ID/OD GEO, 35% S-2, ID/OD GEO, 30%	NONE
		UT	RRFJ-7	82-190	S-2, ID GEO 80% S-2, OD GEO 70%	S-2, OD GEO, 50%	NO S-1 "T"
		UT	RRGJ-3	82-267	S-1, ID MISMATCH	S-1, OD GEO, 25% S-2, OD GEO, 100%	NONE
		UT	RRGJ-4	82-207	S-2, ID GEO 70%	S-1, SPOT 3:00, 22% S-2, SPOT 5:30, 47%	NONE
		UT	RRGJ-4 OVERLAY	82-207R	S-1, GEO S-2, GEO S-3, GEO S-4, GEO	N/A N/A N/A N/A	NONE
		UT		82-207Ra	NONE	N/A	NONE
		UT		82-207Rb	NONE	N/A	NONE
		UT		82-207Rc	NONE	N/A	NONE
		RT		82-387	NONE	N/A	NONE
		UT	RRGJ-5	82-208	S-1, ID GEO 40% S-2, ID GEO 40%	S-3, SEAM 50% S-4, SEAM 50%	NONE
		UT	RRGJ-7	82-280	S-2 ID GEO 40%	S-1, ID/OD GEO, 25% S-2, ID GEO, 100%	NO S-1 CONFIG.

COMPONENT/SYSTEM	NSP ISO	NDE METHOD	BASELINE IDENT.	REPORT NO.	BASELINE INDICATIONS	ISI INDICATIONS	EXAMINATION LIMITATIONS
B9.11 & 9.12 CON'T.							
RISER H		UT	RRHJ-3	82-333	S-1, ID THREADS 60% WELD CROWN 58% S-2, ID THREADS 130%, ID GEO 100%	S-1, ID GEO, 90% S-2, ID GEO, 100%	NONE
		UT	RRHJ-4	82-205	NONE	S-2, SPOT 6:00, 27% S-3, ID GEO, 27%	NONE
		UT	RRHJ-6	82-206	NONE	S-3, SEAM 25% S-4, SEAM 25%	NONE
		UT	RRHJ-7	82-187	S-1, ID GEO 50% S-2, OD GEO 80% S-4, OD GEO 40%	S-5, OD GEO, 141% S-6, OD GEO, 90%	NONE
		PT		82-062 82-062R	N/A	SEVERAL LINEARS NONE-INDICATIONS BUFFED OUT	NONE NONE
		UT	RRJJ-3	82-266	NONE	S-1, GEO, 30% S-2, GEO, 100%	NONE
		UT	RRJJ-4	82-118	NONE	S-1, ID/OD GEO, 25% S-2, ID/OD GEO, 40%	NONE
RISER J							

COMPONENT/SYSTEM	NSP ISO	NDE METHOD	BASELINE IDENT.	REPORT NO.	BASELINE INDICATIONS	ISI INDICATIONS	EXAMINATION LIMITATIONS
B9.11 & 9.12 CON'T. RISER K		UT	RRJJ-5	82-204	S-2 OD GEO 40%	S-3 SPOT 3:00,23% S-3 SPOT 6:00,23% S-4 SPOT 4:00,31%	NONE
		RT		82-384		NONE	NONE
		UT	RRJJ-7	82-188	S-1, ID GEO 45%, S-2, OD GEO 25%	S-2, OD GEO, 35%	NO S-1 "T"
		UT	RRKJ-3	82-278	S-1, ID THREADS 81% MISMATCH 67% S-2, ID GEO THREADS 70%	S-1, ID/OD GEO, 50% S-2, ID/OD GEO, 50% S-4, SPOT 7:30, 40%	NONE
		RT		82-381	NONE	NONE	NONE
		UT	RRKJ-4	82-203	NONE	S-1, ID GEO, 20% S-2, ID GEO, 25% S-4, ID GEO, 37%	NONE
		RT		82-382	NONE	NONE	NONE
		UT	RRKJ-5	82-117	NONE	S-1, ID GEO, 25% S-2, ID GEO, 30%	NONE
		UT	RRKJ-7	82-189	NONE	S-2, OD GEO, 45%	NO S-1 CONFIG.
		UT	RRAJ-3	82-295	NONE	S-2, ID GEO, 32%	NONE
RISER A		UT	RRAJ-4	82-114	NONE	S-1, ID/OD GEO, 35% S-2, ID/OD GEO, 30%	NONE
		UT	RRAJ-5	82-197	S-1 ID GEO 30% S-2 ID GEO 40%	S-2, ID GEO, 44%	NONE

COMPONENT/SYSTEM	NSP ISO	NDE METHOD	BASLINE IDENT.	REPORT NO.	BASLINE INDICATIONS	ISI INDICATIONS	EXAMINATION LIMITATIONS
B9.11 & 9.12 CON'T.							
RISER B		RT		82-385	NONE	NONE	NONE
		UT	RRAJ-7	82-191	S-1 ID GEO 360°	S-2, OD GEO, 40%	NO S-1 CONFIG.
		UT	RRBJ-3	82-239	S-1, ID THREADS 63% S-2, ID THREADS 100%	S-1, OD GEO, 55% S-2, OD GEO, 60%	NONE
		UT	RRBJ-4	82-202	NONE	S-1, ID GEO, 26% S-2, ID GEO, 28% S-3, ID GEO, 21% S-4, ID GEO, 30%	NONE
		UT	RRBJ-5	82-115	NONE	S-1, ID/OD GEO, 40% S-2, ID/OD GEO, 70%	NONE
RISER C		UT	RRBJ-7	82-212	NONE	S-2, ID GEO, 100%+	NO S-1 CONFIG.
		RT		82-380	NONE	NONE	NONE
		UT	RRCJ-3	82-259	NONE	S-1, ID GEO, 40% S-2, ID GEO, 100%+ S-3, SPOT , 40% S-4, SPOT , 25%	NONE
		RT		82-374	NONE	1 LINEAR	NONE
		RT		82-375	NONE	1 LINEAR	NONE
		UT	RRCJ-3 OVERLAY & WELD	82-259R	S-1, SPOT 30%	N/A	NONE

[illegible]

COMPONENT/SYSTEM	NSP ISO	NDE METHOD	BASELINE IDENT.	REPORT NO.	BASELINE INDICATIONS	ISI INDICATIONS	EXAMINATION LIMITATIONS
B9.11 & 9.12 CON'T.			RRDJ-5				
		UT	OVERLAY	82-200Rb	S-1, SPOT, 18%	N/A	NONE
		UT	OVERLAY	82-200Rc	NONE	N/A	NONE
		UT	OVERLAY	82-200Rd	NONE	N/A	NONE
		RT		82-388		N/A	NONE
		UT	RRDJ-7	82-150	NONE	S-1, ID/OD GEO, 40% S-2, OD GEO, 30%	S-1 LIMITED "T"
RISER E		UT	RREJ-3	82-294	NONE	S-1, SPOT 12:00, 100% S-1, SPOT 3:00, 100% S-2, , 30%	NONE
		RT		82-368 82-369 82-370	NONE NONE NONE	3 LINEARS 3 LINEARS N/A	NONE NONE NONE
		UT	RREJ-3 OVERLAY & WELD	82-294R	S-1, SPOT, 59%	N/A	NONE
		UT	OVERLAY	82-294Ra	NONE	N/A	NONE
		UT	OVERLAY	82-294Rb	NONE	N/A	NONE
		UT	OVERLAY	82-294Rc	NONE	N/A	NONE
		UT	RREJ-4	82-211	NONE	NONE	NONE
		UT	RREJ-5	82-210	NONE	NONE	NONE
		UT	RREJ-7	82-149	NONE	S-1, ID/OD GEO, 30% S-2, ID/OD GEO, 26%	S-1 LIMITED 2:00 TO 4:00 & 8:00 TO 10:00 "T"

COMPONENT/SYSTEM	NSP ISO	NDE METHOD	BASELINE IDENT.	REPORT NO.	BASELINE INDICATIONS	ASSIGNED ISI IDENTIFICATION	EXAMINATION LIMITATIONS
B9.11 & 9.12 CON'T. CRD SCRAM HEADER	24A	UT	FW-14	82-353	S-1, OD GEO 60%	CDAJ-1	S-1, B.E. FLANGE S-2, LIMITED AT 12:00 WELD-O-LET
		UT	FW-37	82-349	S-1, ID GEO 75% S-2, OD GEO 50%	CDAJ-8	NONE
		UT	FW-38	82-350	NONE	CDAJ-10	NONE
		UT	FW-1	82-351	S-2, ID GEO 50%	CDAJ-11	NONE
		UT	897R1#4	82-001	NONE	CDAJ-12	NO S-2, 4 TO 8 AND 10 TO 2, TEE
		UT	897#4	82-356	NONE	CDAJ-12	NO S-1, TEE
		UT	780#1	82-355	S-1, OD GEO 360°	CDAJ-13	S-1, B.E. FLANGE
		UT	780#2	82-354	S-2, ID GEO VARYING AMPLITUDE	CDAJ-15	S-1, B.E. AT 3:00 FLANGE
		UT	780#3	82-020	NONE	CDAJ-16	NONE
		UT	FW-2	82-323	S-2 ID GEO 30%	CDAJ-17	S-2 LIMITED AT 3:00, TEE
		UT	FW-15	82-328	NONE	CDAJ-18	NO S-1, FLANGE S-2 LIMITED AT 12:00 WELD-O-LET
		UT	FW-3	82-327	S-1, ID/OD GEO 50% S-2 OD GEO 60% S-2, ID GEO 35%	CDAJ-24	NONE

COMPONENT/SYSTEM	NSP ISO	NDE METHOD	BASELINE IDENT.	REPORT NO.	BASELINE INDICATIONS	ASSIGNED ISI IDENTIFICATION	EXAMINATION LIMITATIONS
<u>B9.11 & 9.12 CON'T.</u>		UT	781#2	82-006	S-1, ID GEO 50%	CDAJ-27	NO S-2, REDUCER
		UT	782#3	82-012	S-1, ID GEO 60%	CDAJ-28	S-1, BE 9 TO 3:00 REDUCER
		UT	783#1	82-016	S-5, OD GEO 35% S-6, OD GEO 80%	CDAJ-29	S-1, B.E., TEE
		UT	FW-16	82-352	NONE	CDAJ-36	S-1, B.E. FLANGE S-2, LIMITED AT 12:00 WELD-O-LET
		UT	FW-5	82-348	S-1, ID GEO 50%	CDAJ-42	NONE
		UT	784#1	82-003	S-2, ID GEO 50%	CDAJ-43	NONE
		UT	786#3	82-010	NONE	CDAJ-45	NONE
		UT	FW-4	82-015	S-4, OD GEO 35%	CDAJ-33	S-1, B.E. TEE
		UT	FW-4	82-324	NONE	CDAJ-33	NO SCAN UPSTREAM, HANGER
		UT	FW-6	82-325	S-1, OD GEO 40% S-2, ID GEO 25% S-9, ID/OD GEO 25%, 45% S-10, ID/OD GEO 50%	CDAJ-46	SCANS LIMITED TO 1 IN. AT 3:00, BRANCH CONNECTION

COMPONENT/SYSTEM	NSP ISO	NDE METHOD	BASELINE IDENT.	REPORT NO.	BASELINE INDICATIONS	ASSIGNED ISI IDENTIFICATION	EXAMINATION LIMITATIONS
<u>B9.11 & 9.12 CON'T.</u>	24B	UT	FW-7	82-326	S-1, S-2 ID GEO 25%, S-2, S-4 OD GEO 50%, S-5, S-6 OD GEO 60% S-10 OD GEO 30%	CDAJ-49	NONE
		UT	788#1	82-008	S-6 OD GEO 90%	CDAJ-50	NONE
		UT	788#2	82-007	NONE	CDAJ-51	NONE
		UT	788#3	82-013	S-2 ID GEO 25%	CDAJ-52	NONE
		UT	FW-8	82-337	S-1, OD GEO 50%	CDAJ-53	NONE
		UT	776#1	82-024	NONE	CDAJ-54	NONE
		UT	776#6	82-023	NONE	CDAJ-55	NONE
		UT	FW-14	82-347	NONE	CDBJ-1	S-1, B.E., FLANGE S-2, LIMITED AT 2:00 WELD-O-LET
		UT	FW-1	82-343	S-1, ID GEO 100% S-2, ID GEO 100%	CDBJ-6	NONE
		UT	FW-38	82-344	S-1, ID GEO 80%	CDBJ-7	NONE
		UT	899#4	82-002	S-1, ID/OD GEO 50%	CDBJ-8	NO S-1, TEE

COMPONENT/SYSTEM	NSP ISO	NDE METHOD	BASLINE IDENT.	REPORT NO.	BASLINE INDICATIONS	ASSIGNED ISI IDENTIFICATION	EXAMINATION LIMITATIONS
<u>B9.11 & 9.12 CON'T.</u>		UT	899#4	82-341	NONE	CDBJ-8	S-2, B.E. AT 3 & 9:00 TEE
		UT	789#1	82-340	S-1, OD GEO 100%	CDBJ-9	S-1, B.E., FLANGE
		UT	789#2	82-342	NONE	CDBJ-10	S-1, S-2, B.E., REDUCER
		UT	789#3	82-014	S-1, ID GEO 40%	CDBJ-11	NONE
		UT	FW-2	82-332	S-2, ID GEO 40%	CDBJ-12	NO S-2, 8 TO 10:00 PIPE CURVATURE
		UT	FW-15	82-335	S-2, OD GEO 30%	CDBJ-15	NO S-1, FLANGE S-2, B.E. BRANCH CONN.
		UT	FW-3	82-334	S-1, OD GEO 25% S-2, ID/OD GEO INTERMITENT	CDBJ-20	NONE
		UT	790#2	82-005	S-1, ID LINEAR 40%	CDBJ-21	NO S-2, REDUCER
		UT	791#3	82-011	NONE	CDBJ-22	S-1, B.E. 9 TO 3:00 REDUCER
		UT	792#1	82-018	S-1, S-2, ID GEO 25% S-5, S-6 OD GEO 40%	CDBJ-23	S-2, B.E. 10 to 2:00 TEE
		UT	FW-16	82-346	NONE	CDBJ-28	S-1, B.E. FLANGE S-2, LIMITED AT 2:00 WELD-O-LET
		UT	FW-5	82-345	S-1, ID GEO 50% S-2, ID GEO 20%	CDBJ-34	NONE

COMPONENT/SYSTEM	NSP ISO	NDE METHOD	BASELINE IDENT.	REPORT NO.	BASELINE INDICATIONS	ASSIGNED ISI IDENTIFICATION	EXAMINATION LIMITATIONS
<u>B9.11 & 9.12 CON'T.</u>		UT	793#1	82-004	S-2, ID GEO 40%	CDBJ-37	S-3, B.E. 10 TO 2:00 REDUCER
		UT	794#3	82-009	NONE	CDBJ-39	NONE
		UT	FW-4	82-017	NONE	CDBJ-26	S-1, B.E. 10 TO 2:00 TEE
		UT	FW-4	82-331	S-2 ID/OD GEO 35%	CDBJ-26	S-1, B.E. 10 TO 2:00 TEE
		UT	FW-39	82-330	S-2 ID GEO 35%	CDBJ-40	NO S-1 AT 8 TO 10:00 TEE
		UT	FW-6	82-329	S-1, ID GEO 30%	CDBJ-41	NONE
		UT	FW-40	82-019	S-2 OD GEO 40% S-6 OD GEO 45%	CDBJ-42	NONE
		UT	FW-40	82-338	S-2 ID GEO 50%	CDBJ-42	NONE
		UT	FW-7	82-336	S-2 OD GEO 50%	CDBJ-43	NONE
		UT	FW-8	82-339	S-1 OD GEO 35% S-6 OD GEO 45%	CDBJ-44	NONE
		UT	797#1	82-022	NONE	CDBJ-45	NONE
		UT	797#6	82-021	S-1 ID GEO 25%	CDBJ-46	NONE

COMPONENT/SYSTEM	NSP ISO	NDE METHOD	BASELINE IDENT.	REPORT NO.	BASELINE INDICATIONS	ISI INDICATIONS	EXAMINATION LIMITATIONS
<u>B9.30 BRANCH CONNECTION WELDS</u> & <u>B9.31 NOMINAL PIPE SIZE GREATER THAN 2 IN.</u>							
MAIN STEAM A		UT	MSAJ-15	82-303	NONE	S-2, ID GEO, 45% S-2, OD GEO, 25%	S-2, B.E., CONFIG.
		UT	MSAJ-19	82-304	NONE	S-2, ID GEO, 50% S-2, ID GEO, 40%	S-2, B.E., CONFIG.
MAIN STEAM B		UT	MSBJ-16	82-305	NONE	NONE	S-2, B.E., CONFIG. NO S-1 THRU S-4 AT 2-4, HANGER.
		UT	MSBJ-20	82-306	NONE	NONE	S-2, B.E., CONFIG.
MAIN STEAM C		UT	MSCJ-15	82-308	NONE	S-2, ID GEO 90%	S-2, B.E., CONFIG.
			MSCJ-20	82-307	NONE	NONE	S-2, B.E., CONFIG.
MAIN STEAM D		UT	MSDJ-16	82-310	NONE	S-2, ID GEO, 50%	S-2, B.E., CONFIG.
		UT	MSDJ-20	82-309	NONE	NONE	S-2, B.E., CONFIG.
RWCU		UT	CWAJ-1	82-321	NONE	NONE	NO S-1, CONFIG.
RECIRC. MANIFOLD A		UT	RMAJ-12	82-123	NONE	NONE	NO S-2, CONFIG.
		PT		82-029		NONE	NONE
<u>B9.40 SOCKET WELDS</u>							
RECIRC. MANIFOLD BYPASS		PT	VBBJ-8	82-093	N/A	NONE	NONE

COMPONENT/SYSTEM	NSP ISO	NDE METHOD	BASELINE IDENT.	REPORT NO.	BASELINE INDICATIONS	ISI INDICATIONS	EXAMINATION LIMITATIONS
<u>B9.40 CON'T.</u>		PT	VBBJ-9	82-090	N/A	NONE	NONE
		PT	VBBJ-10	82-092	N/A	NONE	NONE
		PT	VBBJ-11	82-091	N/A	NONE	NONE
RECIRC. A & B DRAIN		PT	6A	82-162	N/A	ARC STRIKE IN BASE METAL AT 1:00	NONE
		PT	7A	82-089	N/A	NONE	NONE
<u>PIPING</u>							
<u>B10.10 INTEGRALLY WELDED ATTACHMENTS AND COMPONENT SUPPORTS</u>							
RECIRC. A		PT	RCAK-16	82-063	NONE	NONE	NONE
		VT		82-042	N/A	NONE	NONE
		PT	RCAK-18	82-064	N/A	NONE	NONE
		VT		82-041	N/A	NONE	NONE
		PT	RCAK	82-176	NONE	NONE	NONE
		VT		82-40	N/A	LOOSE NUT	NONE
				82-40R	N/A	NONE, NUT TIGHTENED	NONE
RECIRC. B		PT	RCBK-10A	82-066	1 LINEAR	NONE	NONE
		VT		82-036	LOOSE NUT	NONE	NONE

COMPONENT/SYSTEM	NSP ISO	NDE METHOD	BASELINE IDENT.	REPORT NO.	BASELINE INDICATIONS	ISI INDICATIONS	EXAMINATION LIMITATIONS
<u>B10.10 CON'T.</u>							
		PT	RCBK-14	82-068	NONE	NONE	NONE
		VT		82-035	LOOSE NUTS	NONE	NONE
RECIRC. MANIFOLD A		PT	RMAK-13	82-163	NONE	NONE	NONE
		VT		82-047	NONE	NONE	NONE
		PT	RMAK-13B	82-361	N/A	NONE	NONE
		VT		82-049	N/A	NONE	NONE
		PT	RMAK-17A	82-175	N/A	NONE	NONE
		VT		82-154	N/A	NONE	NONE
		PT	RMAK-17B	82-164	N/A	NONE	COVERAGE LIMITED TO 3/4" FROM WELD DUE TO LUG
		VT		82-157	N/A	NONE	NONE
<u>PIPING</u>							
B11.10 COMPONENT SUPPORTS							
RECIRC. A		VT	RCAK-6	82-043	NONE	NONE	NONE
		VT	RCAK-34	82-039	NONE	NONE	NONE
		VT	PHA-5	82-044	NONE	NONE	NONE
		VT	PSSA-5	82-048	DRAWING COMPLIANCE	NONE	NONE

COMPONENT/SYSTEM	NSP ISO	NDE METHOD	BASELINE IDENT.	REPORT NO.	BASELINE INDICATIONS	ISI INDICATIONS	EXAMINATION LIMITATIONS
<u>B11.10 CON'T.</u>							
RECIRC. B		VT	RCBK-10	82-037	NONE	LOOSE NUTS	NONE
				82-037R		NONE-NUT TIGHTENED	NONE
		VT	RCBK-12	82-038	NONE	NONE	NONE
		VT	PHB-6	82-360	LOOSE NUT	WELD ROD IN PLACE OF COTTER PIN	NONE
				82-360R	NONE	NONE COTTER PIN INSTALLED	NONE
		VT	PSSB-5	82-359	DRAWING COMPLIANCE	NONE	NAD
RECIRC. BYPASS B		VT	RBBK-14	82-075	NONE	NONE	NAD
RECIRC. MANIFOLD A & B		VT	RMAK-11	82-045	N/A	NONE	NONE
		VT	RMAK-13A	82-046	N/A	NONE	NONE
		VT	RMAK-17	82-159	NONE	NONE	NONE
		VT	RMBK-17	82-158	NONE	NONE	NONE
RECIRC. RISERS		VT	RRJK-6	82-50	NONE	LOOSE NUT	NONE
				82-50R		NONE, NUT TIGHTENED	NONE
		VT	RRKK-6	82-051	NONE	NONE	NONE
		VT	RRDK-6	82-155	NONE	NONE	NONE
RECIRC. VALVE BYPASS		VT	VBBK-6A	82-156	NONE	NONE	NONE

APPENDIX B
ASME CLASS II - EXAMINATIONS

NORTHERN STATES POWER CO.

MONTICELLO NUCLEAR GENERATING PLANT

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S1.2PAGE 1 OF 1MAJOR ITEM: VESSEL 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.
C1.10	C-A	<u>SHELL CIRCUMFERENTIAL WELDS</u>					
		RHR HEAT EXCHANGERS	-	(3)	-	-	MULTIPLE VESSELS
		E-200A	ONE	1	-	-	-
			TWO	1	-	-	-
		E-200B	THREE	1	-	-	-
C1.20	C-A	<u>HEAD CIRCUMFERENTIAL WELDS</u>					
		RHR HEAT EXCHANGERS		(1)			
		E-200A	-	-	-	-	-
		E-200B	TWO	1	-	-	-
C1.30	C-A	<u>TUBE SHEET TO SHELL WELDS</u>	-	-	-	-	-

NORTHERN STATES POWER CO.

MONTICELLO NUCLEAR GENERATING PLANT

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S2.2PAGE 1 OF 1

MAJOR ITEM: NOZZLE 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.
C2.10	C-B	<u>NOZZLES IN VESSELS 1/2 IN. OR LESS IN NOMINAL THICKNESS</u>	-	-	-	-	-
C2.20	C-B	<u>NOZZLES IN VESSELS OVER 1/2 in. IN NOMINAL THICKNESS</u>					
		RHR HEAT EXCHANGERS					
		E-200A	ONE	1	-	-	*SUPPLEMENTED BY
			TWO	1	-	-	SURFACE
			TWO	1	-	-	EXAMINATIONS
		E-200B	THREE	1	-	-	-

NORTHERN STATES POWER CO.

MONTICELLO NUCLEAR GENERATING PLANT

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S3.2

PAGE 1 OF 9

MAJOR ITEM: SUPPORT MEMBERS

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
C3.10	C-C	<u>INTEGRALLY WELDED SUPPORT ATTACHMENTS</u>	-	-			
		RHR HEAT EXCHANGERS		(3)			
		E-200A	ONE	1			
			TWO	1			
		E-200B	THREE	1			
C3.20	C-C	<u>COMPONENT SUPPORTS</u>					
		RHR HEAT EXCHANGERS					
		E-200A	ONE	2			
			TWO	1			
		E-200B	TWO	1			
			THREE	2			
C3.30	C-C	<u>SUPPORTS-MECHANICAL AND HYDRAULIC</u>	-	-			
		<u>PIPING</u>	-	-			
C3.40	C-C	<u>*INTEGRALLY WELDED SUPPORT ATTACHMENTS</u>					
		MAIN STEAM A	ONE	1			
			TWO	-			
			THREE	-			
		MAIN STEAM B	ONE	-			
			TWO	1			
			THREE	-			
		MAIN STEAM C	ONE	-			
			TWO	1			
			THREE	-			

MULTIPLE VESSELS

*INCLUDES THE
CORRESPONDING
C3.50 (VT-3) &
C3.60 (VT-4)
EXAMINATIONS
WHERE APPLICABLE

NORTHERN STATES POWER CO.

MONTICELLO NUCLEAR GENERATING PLANT

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S3.2PAGE 2 OF 9MAJOR ITEM: SUPPORT MEMBERS

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
C3.40	C-C	<u>(CONTINUED)</u>					
		MAIN STEAM D	ONE TWO THREE	- - 1			
		SUPPLY TO STEAM SEAL SYSTEM	ONE TWO THREE	- - 1			
		HPCI WATER DISCHARGE	ONE TWO THREE	1 1 -	1	CIAK-31	82-101
		HPCI STEAM	ONE TWO THREE	- 1 1			
		HPCI STEAM DISCHARGE	ONE TWO THREE	- 2 -			
		CORE SPRAY A DISCHARGE	ONE TWO THREE	1 1 -			
		CORE SPRAY B DISCHARGE	ONE TWO THREE	- - 2			
		REACTOR WATER FROM SKIMMER SYSTEM	ONE TWO THREE	1 1 1			

NORTHERN STATES POWER CO.

MONTICELLO NUCLEAR GENERATING PLANT

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S3.2

PAGE 3 OF 9

MAJOR ITEM: SUPPORT MEMBERS

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
C3.40	C-C	(CONTINUED)					
		RHR SERVICE WATER	ONE TWO THREE	1 - -	1	SWAK-42	82-292, 109, 109R
		RHR SUCTION A	ONE TWO THREE	- 2 -			
		RHR DISCHARGE A	ONE TWO THREE	- 1 -			
		RHR SUCTION B	ONE TWO THREE	- - 2			
		RHR DISCHARGE B TW19-10"GE	ONE TWO THREE	- 1 -			
		TW20-16"GE	ONE TWO THREE	- - 1			
		CONTAINMENT SPRAY A & B	ONE TWO THREE	1 1 2			
C3.50	C-C	*COMPONENT SUPPORTS					
		MAIN STEAM A	ONE TWO THREE	2 2 2			*INCLUDES THE CORRESPONDING C3.60 (VT-4) EXAMINATIONS WHERE APPLICABLE

NORTHERN STATES POWER CO.

MONTICELLO NUCLEAR GENERATING PLANT

INSERVICE INSPECTION—EXAMINATION SUMMARY

TABLE S3.2

PAGE 4 OF 9

MAJOR ITEM: SUPPORT MEMBERS

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
C3.50	C-C	(CONTINUED)					
		MAIN STEAM B	ONE	2			
			TWO	2			
			THREE	2			
		MAIN STEAM C	ONE	2			
			TWO	2			
			THREE	2			
		MAIN STEAM D	ONE	2			
			TWO	2			
			THREE	2			
		SUPPLY TO STEAM SEAL SYSTEM					
		PS11-6"ED	ONE	2			
			TWO	2			
		PS14-6"ED	THREE	3			
		PS7-10"ED	ONE	3			
			TWO	3			
			THREE	3			
		PS7-8"ED	THREE	2			
		MAIN STEAM EQUALIZER HDR	ONE	-			
			TWO	2			
			THREE	1			
		HPCI WATER DISCHARGE	ONE	6	2	TWH-38, CIAK-59	82-106, 82-086
			TWO	6			
			THREE	5			
		HPCI WATER SUCTION	ONE	-			
			TWO	2			
			THREE	2			

NORTHERN STATES POWER CO.

MONTICELLO NUCLEAR GENERATING PLANT

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S3.2

PAGE 5 OF 9

MAJOR ITEM: SUPPORT MEMBERS

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
C3.50	C-C	(CONTINUED)					
		HPCI STEAM	ONE TWO THREE	3 5 5	3	TDAK-23, 25, 26	82-108, 107, 103
		HPCI STEAM DISCHARGE	ONE TWO THREE	2 4 -			
		CORE SPRAY A SUCTION	ONE TWO THREE	2 2 1			
		CORE SPRAY A DISCHARGE	ONE TWO THREE	5 6 5			
		CORE SPRAY B SUCTION	ONE TWO THREE	1 - 3			
		CORE SPRAY B DISCHARGE	ONE TWO THREE	3 4 5			
		REACTOR WATER FROM SKIMMER SYSTEM	ONE TWO THREE	2 - 4			

NORTHERN STATES POWER CO.

MONTICELLO NUCLEAR GENERATING PLANT

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S3.2

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MAJOR ITEM: SUPPORT MEMBERS

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
C3.50	C-C	(CONTINUED)					
		RCIC WATER SUCTION	ONE	1			
			TWO	1			
			THREE	-			
		RCIC STEAM DISCHARGE	ONE	2		SS-38A & B, RSH-13	82-102,102R,104,105
			TWO	2			
			THREE	2			
		RHR SERVICE WATER	ONE	5			
			TWO	5			
			THREE	6			
		RHR SUCTION A					
		REW10-18"HE	ONE	2			
			TWO	2			
			THREE	-			
		TW14B-20"HE	ONE	2			
			TWO	1			
			THREE	-			
		TW28-20"HE	ONE	-			
			TWO	-			
			THREE	3			
		RHR DISCHARGE A					
		TW29-10"GE	ONE	1			
			TWO	1			
			THREE	2			
		TW30-14"GE	ONE	3			
			TWO	3			
			THREE	2			

NORTHERN STATES POWER CO.

MONTICELLO NUCLEAR GENERATING PLANT

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S3.2

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MAJOR ITEM: SUPPORT MEMBERS

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
C3.50	C-C	(CONTINUED)					
		RHR DISCHARGE A (CONT'D)					
		TW30-16"GE	ONE	-			
			TWO	1			
			THREE	-			
		TW30-16"DE	ONE	-			
			TWO	1			
			THREE	-			
		RHR SUCTION B					
		REW10-18"HE	ONE	-			
			TWO	-			
			THREE	4			
		TW14A-20"HE	ONE	2	2	TWH-16, TWH-58	82-291, 82-290
			TWO	-			
			THREE	2			
		TW27-20"HE	ONE	-			
			TWO	2			
			THREE	1			
		RHR DISCHARGE B					
		TW29-10"GE	ONE	-			
			TWO	-			
			THREE	2			
		TW19-14"GE	ONE	-			
			TWO	1			
			THREE	-			
		TW20-14"GE	ONE	3			
			TWO	2			
			THREE	4			

NORTHERN STATES POWER CO.

MONTICELLO NUCLEAR GENERATING PLANT

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S3.2

PAGE 8 OF 9

MAJOR ITEM: SUPPORT MEMBERS

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
C3.50	C-C	<u>(CONTINUED)</u> TW22-14"GE CONTAINMENT SPRAY A & B TW23-12"GE TW23-10"GE TW33-12"GE TW33-10"GE	ONE TWO THREE	1 - -			
			ONE TWO THREE	2 1 3	2	SS-30, TWH-140	82-145, 140, 140R
			ONE TWO THREE	2 1 4	2	TWH-74, TWH-75	82-144, 82-143
C3.60	C-C	<u>*SUPPORTS - MECHANICAL AND HYDRAULIC</u> <u>PUMPS</u>	-	-			*INCLUDED UNDER C3.40 & C3.50
C3.70	C-C	<u>*INTEGRALLY WELDED SUPPORT ATTACHMENTS</u> RHR PUMPS CORE SPRAY PUMPS	TWO THREE TWO ONE THREE ONE	1 1 1 1 1 1			*INCLUDES THE CORRESPONDING C3.80 (VT-3) EXAMINATIONS

NORTHERN STATES POWER CO.

MONTICELLO NUCLEAR GENERATING PLANT

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S3.2

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MAJOR ITEM: SUPPORT MEMBERS

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
C3.80	C-C	<u>COMPONENT SUPPORTS</u> HPCI TURBINE & PUMPS RCIC TURBINE & PUMP	ONE TWO THREE	3 3 5	1	Support A	82-110
C3.90	C-C	<u>SUPPORTS - MECHANICAL AND HYDRAULIC</u> <u>VALVES</u>	-	-			
C3.100	C-C	<u>INTEGRALLY WELDED SUPPORT ATTACHMENTS</u>	-	-			*INCLUDED UNDER C3.40, C3.50, & C3.60
C3.110	C-C	<u>COMPONENT SUPPORTS</u>	-	-			
C3.120	C-C	<u>SUPPORTS - MECHANICAL AND HYDRAULIC</u>	-	-			

NORTHERN STATES POWER CO.

MONTICELLO NUCLEAR GENERATING PLANT

INSERVICE INSPECTION--EXAMINATION SUMMARY

TABLE S4.2

PAGE 1 OF 1

MAJOR ITEM: PRESSURE RETAINING BOLTING > 2"

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
C4.10	C-D	<u>BOLTS AND STUDS</u>	-	-			
		<u>PIPING</u>					
C4.20	C-D	<u>BOLTS AND STUDS</u>	-	-			
		<u>PUMPS</u>					
C4.30	C-D	<u>BOLTS AND STUDS</u>	-	-			
		VALVES					
C4.40	C-D	<u>BOLTS AND STUDS</u>	-	-			

NORTHERN STATES POWER CO.

MONTICELLO NUCLEAR GENERATING PLANT

INSERVICE INSPECTION—EXAMINATION SUMMARY

TABLE S5.2

PAGE 1 OF 7

MAJOR ITEM: PIPING PRESSURE BOUNDARY

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
C5.10	C-F	<u>PIPING WELDS 1/2 in. OR LESS NOMINAL WALL THICKNESS</u>					RELIEF NO. 15
C5.11 & C5.12	C-F	<u>CIRCUMFERENTIAL AND *LONGITUDINAL WELDS</u>					*2.5T MIN. FROM EACH SCHEDULED CIRC WELD INTER- SECTION WILL BE EXAMINED
		<u>('75 CATEGORY C-F)</u>					
		SUPPLY TO STEAM SEAL SYSTEM PS10-5"	ONE THREE	3 2			
		PS11-6"ED	ONE	1			
		PS12-6"ED	-	-			
		PS13-6"ED	-	-			
		PS14-6"ED	THREE	1			
		RHR SUCTION A & B REW10-18"HE	ONE TWO THREE	2 2 2	2	32, 403	82-184, 82-183
		TW14B-20"HE	ONE	1	1	355	82-365
		TW14A-20"HE	-	-			
		TW16-14"HE	TWO	1			
		TW18-14"HE	-	-			
		TW15-14"HE	-	-			
		TW17-18"HE	THREE	1			

NORTHERN STATES POWER CO.

MONTICELLO NUCLEAR GENERATING PLANT

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S5.2

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MAJOR ITEM: PIPING PRESSURE BOUNDARY

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
C5.11 & C5.12	C-F	(CONTINUED)					
		RHR DISCHARGE A & B					
		TW29-10"GE	TWO	2			
			TWO	1			
		TW19-10"GE	THREE	2			
		TW29-14"GE	ONE	1			
		TW19-14"GE	TWO	2			
		TW30-14"GE	ONE	2			
			TWO	3			
		TW20-14"GE	TWO	2			
			THREE	2			
		TW30-16"GE	TWO	1			
		TW20-16"GE	ONE	1			
		TW22-14"GE	ONE	1			
		('75 CATEGORY C-G)					
		HPCI WATER SUCTION					
		TW1-14"HE	TWO	2			
		CL6-14"HE	THREE	1			
		HPCI STEAM					
		PS18-8"ED	TWO	2			
			THREE	2			
		HPCI STEAM DISCH					
		RS2-16"HE	TWO	2			
			THREE	1			

NORTHERN STATES POWER CO.

MONTICELLO NUCLEAR GENERATING PLANT

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S5.2

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MAJOR ITEM: PIPING PRESSURE BOUNDARY

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
C5.11 & C5.12	C-F	(CONTINUED)					
		RS2-18"HE	THREE	1			
		RS2-20"HE	-	-			
		CORE SPRAY A & B SUCTION					
		TW6-12"HE	ONE	2			
		TW10-12"HE	THREE	2			
		CORE SPRAY A & B DISCHARGE					
		TW7-10"GE	ONE	2			
			TWO	1			
		TW11-10"GE	THREE	2			
		TW7-8"ED	ONE	1			
		TW11-8"ED	-	-			
		TW8-8"GE	-	-			
		TW12-8"GE	THREE	1			
		REACTOR WATER FROM SKIMMER SYSTEM					
		REW11-8"HE	ONE	1			
			TWO	2			
			THREE	1			
		RCIC WATER SUCTION					
		TW5-6"HE	ONE	1	1	14	82-100
			TWO	1			
		C17-6"HE	THREE	1			

NORTHERN STATES POWER CO.

MONTICELLO NUCLEAR GENERATING PLANT

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S5.2

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MAJOR ITEM: PIPING PRESSURE BOUNDARY

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
C5.11 & C5.12	C-F	(CONTINUED)					
		RCIC STEAM DISCHARGE RS3-8"HE	ONE TWO THREE	1 2 1			
		RHR SERVICE WATER SW9-8"GE	ONE TWO THREE	2 2 2			
		RHR SUCTION A & B TW28-20"HE TW27-20"HE	ONE TWO	1 1			
		CONTAINMENT SPRAY A & B TW23-12"GE TW33-12"GE	ONE TWO THREE	1 1 1	1	22	82-142
		TW23-10"GE TW33-10"GE	ONE THREE	1 1	1	28	82-141
C5.20	C-F	<u>PIPING WELDS OVER 1/2 in. NOMINAL WALL THICKNESS</u>					
C5.21 & C.22	C-F	<u>CIRCUMFERENTIAL AND *LONGITUDINAL WELDS</u>					*2.5TMIN FROM EACH SCHEDULED CIRC WELD INTER- SECTION WILL BE EXAMINED

NORTHERN STATES POWER CO.

MONTICELLO NUCLEAR GENERATING PLANT

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S5.2

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MAJOR ITEM: PIPING PRESSURE BOUNDARY

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
C5.21 & C.22	C-F	(CONTINUED)					
		('75 CATEGORY C-F)					
		MAIN STEAM A,B,C,&D					
		PS1-18"ED	ONE	1			
		PS2-18"ED	TWO	1			
		PS3-18"ED	TWO	1			
		PS4-18"ED	THREE	1			
		SUPPLY TO STEAM SEAL SYSTEM					
		PS7-8"ED	ONE	2	2	SSAJ-35; SSAJ-37	82-142,111; 82-153,112
		PS7-10"ED	TWO	3			
			THREE	2			
		MAIN STEAM EQUALIZER HDR					
		PS30-18"EDB	ONE	2			
			TWO	1			
			THREE	2			
		10"DRIPLEG	-	-			
		FEEDWATER A & B					
		FW2A-14"ED	ONE	1	1	FWDJ-38	82-025, 026
		FW2B-14"ED	-	-			
		RHR DISCHARGE A & B					
		TW30-16"DB	-	-			
		TW20-16"DB	TWO	1			

NORTHERN STATES POWER CO.

MONTICELLO NUCLEAR GENERATING PLANT

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S5.2

PAGE 6 OF 7

MAJOR ITEM: PIPING PRESSURE BOUNDARY

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
C5.21 & C.22	C-F	(CONTINUED) ('75 CATEGORY C-G) HPCI WATER DISCHARGE TW3-12"ED	ONE ONE TWO THREE	1 2 3 1			
C5.30	C-F	<u>PIPE BRANCH CONNECTIONS</u>					
C5.31 & C5.32	C-F	<u>CIRCUMFERENTIAL AND</u> <u>*LONGITUDINAL WELDS</u> ('75 CATEGORY C-F) SUPPLY TO STEAM SEAL SYSTEM PS11-6"ED PS12-6"ED PS13-6"ED PS14-6"ED RHR SUCTION A & B TW16-14"HE TW18-14"HE TW15-14"HE TW17-14"HE RHR DISCHARGE B TW22-14"GE	- - THREE - TWO - - -	- - 1 - 1 - - -			*2.5T MIN FROM EACH SCHEDULED CIRC WELD INTER- SECTION WILL BE EXAMINED MULTIPLE STREAMS MULTIPLE STREAMS MULTIPLE STREAMS

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
C5.31 & C5.32	C-F	<p><u>(CONTINUED)</u></p> <p>(CATEGORY C-G)</p> <p>REACTOR WATER FROM SKIMMER SYSTEM REW11-8"HE</p> <p>RHR SUCTION A & B TW28-20"HE TW27-20"HE</p>	<p>TWO</p> <p>ONE</p> <p>-</p>	<p>1</p> <p>1</p> <p>-</p>			<p>SINGLE STREAMS</p> <p>MULTIPLE STREAMS</p>

NORTHERN STATES POWER CO.

MONTICELLO NUCLEAR GENERATING PLANT

INSERVICE INSPECTION—EXAMINATION SUMMARY

TABLE S6.2

PAGE 1 OF 1

MAJOR ITEM: PUMP CASINGS AND VALVE BODIES

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
C6.10	C-G	<u>PUMP CASING WELDS</u>	-	-			
C6.20	C-G	<u>VALVE BODY WELDS</u>	-	-			

NORTHERN STATES POWER CO.

MONTICELLO NUCLEAR GENERATING PLANT

INSERVICE INSPECTION—EXAMINATION SUMMARY

TABLE S7.2PAGE 1 OF 1MAJOR ITEM: PRESSURE RETAINING 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.
C7.10	C-H	PRESSURE VESSELS	-	-			*SYSTEM PRESSURE TEST PERFORMED BY PLANT EACH INSPECTION PERIOD
C7.20	C-H	PIPING	-	-			
C7.30	C-H	PUMPS	-	-			
C7.40	C-H	VALVES	-	-			
C7.11	C-H	PRESSURE VESSELS	-	-			*SYSTEM HYDRO- STATIC TEST PERFORMED BY PLANT EACH INSPECTION INTERVAL
C7.21	C-H	PIPING	-	-			
C7.31	C-H	PUMPS	-	-			
C7.41	C-H	VALVES	-	-			

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
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EXAMINER	TITLE	ORGANIZATION	ASNT LEVEL				
			UT	PT	MT	VT	RT
G.R. Adams	Technician	LMT ⁽²⁾	II	II	II	II(1b)	-
R.G. Auer	Technician	LMT	II	II	II	II(1b)	-
M.W. Blew	Technician	LMT	II	-	-	-	-
R.D. Burlingame	Technician	LMT	II	-	-	-	-
R.M. Cappel	Technician	LMT	I	II	II	II(1a,b)	-
R. Castellano	Trainee	LMT	-	-	-	-	-
C.J. Frank	Technician	LMT	I	-	-	-	-
J. French	Technician	LMT	I	I	-	-	-
R. Friesner	Technician	LMT	I	-	-	-	-
A.J. Harry	Technician	LMT	I	-	-	-	-
D.E. Harvey	Technician	LMT	III	III	III	II(1a,b)	-
R.L. Hilyard	Technician	LMT	II	II	II	II(1b)	-
R.E. Kellerhall	Technician	LMT	II	II	II	II(1a,b)	-
D.B. MacGill	Technician	LMT	III	III	III	III(1b)	-
M.L. Morris	Technician	LMT	I	II	II	II(1b)	-
R.W. Pechacek	Technician	LMT	II	II	II	II(1a,b)	-
M.A. Sandvig	Technician	LMT	I	-	-	-	-
E.L. Thomas	Supervisor	LMT	III	III	III	III(1a,b)	-
L.G. Vilmer	Technician	LMT	I	-	-	-	-
V.D. Welch	Trainee	LMT	-	-	-	-	-
M.T. Worby	Technician	LMT	I	II	II	II(1b)	-
J.D. Adam	Supervisor	GE ⁽³⁾	-	-	-	II	-
J.E. Burner	Technician	GE	-	-	-	II	-
J.R. Coleman	Supervisor	GE	-	-	-	II	-
A.R. Hoglund	Technician	GE	-	-	-	II	-
O. Neal	Technician	GE	-	-	-	II	-

NORTHERN STATES POWER COMPANY
MONTICELLO NUCLEAR GENERATING PLANT
PERSONNEL LISTING

APPENDIX C
TABLE I
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EXAMINER	TITLE	ORGANIZATION	ASNT LEVEL				
			UT	PT	MT	VT	RT
C.L. Brown	Technician	MQS ⁽⁴⁾	-	-	-	-	III
D.L. Hovde	Technician	MQS	-	-	-	-	II
D.E. Johnson	Technician	MQS	-	-	-	-	II
W. Krebs	Trainee	MQS	-	-	-	-	-
J. Paschen	Technician	MQS	-	-	-	-	II
J. Paukert	Technician	MQS	-	-	-	-	II
M.T. Anderson	Engineer	NSP	I	-	-	-	-
R.J. Coleman	Engineer	NSP	I	-	-	-	-
L.C. Dahlman	Materials and Special Pro- cess Specialist	NSP	II	III	III	II(1a,b)	III
J.F. Schanen	Materials and Special Pro- cess Specialist	NSP	I	II	I	-	-
F. Brusseau	ANII	Hartford Steam Boiler Inspection Insurance Company					
C. Lindstrom	A I	Hartford Steam Boiler Inspection Insurance Company					
J. Williams	ANII	Hartford Steam Boiler Inspection Insurance Company					

Footnotes:

- (1a) Certified by NSP to perform visual determination of structural integrity for hanger assemblies in accordance with NSP-VT-2.
- (1b) Inspection experience and NDE qualifications were judged to be adequate to perform visual examinations in accordance with NSP-VT-1.
- (2) Organization: Lambert, MacGill, Thomas, Inc. (LMT)
515 Aldo Ave. Santa Clara, CA 95050
- (3) Organization: General Electric Company (GE)
5353 Gamble Drive Minneapolis, MN 55416
- (4) Organization: Magnaflux Quality Services (MQS)
1920 Oakcrest, Suite 5 Roseville, MN 55113

NORTHERN STATES POWER COMPANY
MONTICELLO NUCLEAR GENERATING PLANT
ULTRASONIC CALIBRATION BLOCKS

APPENDIX C
TABLE II
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NSP No.	SIZE & DIA.	PIPE SCHEDULE & THICKNESS	MATERIAL	SERIAL OR HEAT NUMBER	CALIBRATION REPORTS	DATE
1	4"	Sch.80 .337"	A106B	L42009	DEH-016 DEH-017 ELT-1 ELT-2 ELT-8	10-12-82 10-13-82 08-31-82 09-01-82 09-07-82
8	18"	Sch.80 .937"	A106B	122491	DEH-009	10-06-82
10	16"	Sch.80 .843"	A106B	N36809	DEH-004 DBM-003 RWP-003	10-03-82 10-03-82 09-09-82
12-2	4"	Sch.80 .337"	304	7-73280	RDB-016 DEH-008 DBM-006 RWP-002 RWP-012	10-05-82 10-04-82 10-05-82 09-09-82 09-21-82
15	3"	Sch.80 .300"	304	0305	RDB-008	09-22-82
19	3"	Sch.160 .438"	A106B	T08300	RDB-007	09-22-82
21	8"	Sch.100 .593"	A106B	L20632	RDB-005	09-14-82
22	12"	Sch.60 .688"	304	6S8905	RDB-003 RDB-004 RDB-009 RDB-010 RDB-015 DEH-003 DEH-005 DBM-002 DBM-005	09-13-82 09-17-82 09-25-82 09-27-82 10-04-82 10-01-82 10-02-82 10-02-82 10-03-82
					con't on next page	con't on next page

NORTHERN STATES POWER COMPANY
MONTICELLO NUCLEAR GENERATING PLANT
ULTRASONIC CALIBRATION BLOCKS

APPENDIX C
TABLE II
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NSP No.	SIZE & DIA.	PIPE SCHEDULE & THICKNESS	MATERIAL	SERIAL OR HEAT NUMBER	CALIBRATION REPORTS	DATE
22 con't	12"	Sch.60 .688"	304	6S8905	RWP-007 RWP-009 RWP-017 ELT-012	09-14-82 09-16-82 09-24-82 09-03-82
23	14"	Sch.100 .937"	A106B	7137	RWP-001	09-08-82
24	16"	Sch.80 .843"	304	27DH136	RDB-013 DEH-006	10-01-82 10-03-82
25	18"	Sch.80 .937"	304	27DH136	DEH-002 DBM-004	10-02-82 10-03-82
26	22"	Sch.80 1.125"	304	10093	RDB-001 RDB-011 RAK-001 RWP-006 RWP-024 ELT- 9	09-13-82 09-29-82 09-10-82 09-15-82 10-16-82 09-10-82
27	28"	Sch.80 1.187"	304	10093	RDB-002 RDB-012 RDB-014 DEH-001 DEH-007 RAK-002 DBM-001 RWP-004 RWP-005 RWP-008 RWP-019 ELT-10 ELT-011	09-16-82 10-01-82 10-04-82 10-01-82 10-03-82 09-11-82 10-02-82 09-10-82 09-12-82 09-15-82 09-23-82 09-30-82 09-30-82

NORTHERN STATES POWER COMPANY
MONTICELLO NUCLEAR GENERATING PLANT
ULTRASONIC CALIBRATION BLOCKS

APPENDIX C
TABLE II
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NSP No.	SIZE & DIA.	PIPE SCHEDULE & THICKNESS	MATERIAL	SERIAL OR HEAT NUMBER	CALIBRATION REPORTS	DATE
30	5 5/16"	- -	A533B	C5571	RDB-006 RWP-010 RWP-011 RWP-018 RWP-020	09-20-82 09-17-82 09-18-82 09-23-82 10-02-82
35	6"	Sch.80 .432"	A106B	27940	DEH-013 RWP-022 ELT-3	10-19-82 10-09-82 09-01-82
46	6.375"	- 1.2745"	A182 RF304	CMB	RWP-023	10-16-82
56	12"	- .591"	304L	31634	DEH-011 DEH-014 RWP-021 ELT- 4 ELT- 5 ELT- 6	10-08-82 10-12-82 10-09-82 09-01-82 09-02-82 09-03-82
57	24"	- 1.027"	304L	12564	ELT- 7	09-03-82
58	4"	Sch.40 .237"		98307	DEH-015 DEH-018	10-12-82 10-13-82
59	8"	Sch.160 -	A105	ACY	RDB-017	10-06-82
60	22"	Sch.80 1.125"	304	10093	DEH-012 ELT-013 ELT-014 ELT-015	10-09-82 10-19-82 10-19-82 10-19-82

NORTHERN STATES POWER COMPANY
MONTICELLO NUCLEAR GENERATING PLANT
ULTRASONIC CALIBRATION BLOCKS

APPENDIX C
TABLE II
PAGE 4 of 4

NSP No.	SIZE & DIA.	PIPE SCHEDULE & THICKNESS	MATERIAL	SERIAL OR HEAT NUMBER	CALIBRATION REPORTS	DATE
61	12"	Sch.80 with Weld Overlay	304L	6S8905	GRA-10 GRA-11 GRA-12 GRA-13 GRA-15 GRA-17 GRA-18 GRA-19 GRA-20 GRA-21 GRA-26 GRA-27 GRA-28 GRA-29	11-14-82 11-13-82 11-13-82 11-13-82 11-17-82 11-17-82 11-17-82 11-17-82 11-17-82 11-17-82 12-01-82 12-01-82 12-01-82 12-01-82

NORTHERN STATES POWER COMPANY
MONTICELLO NUCLEAR GENERATING PLANT
PROCEDURE LISTING

APPENDIX C
TABLE III
PAGE 1 of 2

PROCEDURE NUMBER AND REVISION	FIELD CHANGE	PROCEDURE TITLE	PLANT APPROVAL DATE	FIELD CHANGE REMARKS	CHANGE DESCRIPTION
NSP-MT-1, Rev.3	None	Magnetic Particle Examination	8-26-82	None	
NSP-PT-1, Rev.3	None	Liquid Penetrant Examination	8-26-82	None	
NSP-PT-2, Rev.1	None	High Temperature Liquid Penetrant Examination	8-26-82	None	
NSP-UT-1, Rev.2	None	Ultrasonic Examination of Pipe Welds	8-26-82	None	
NSP-UT-2, Rev.2	None	Automatic Data Recording	8-26-82	None	
NSP-UT-4, Rev.2	None	Ultrasonic Examination of Studs, Bolts & Nuts	8-26-82	None	
NSP-UT-4B, Rev.2	None	Axial Ultrasonic Examination of Studs, Bolts & Nuts	8-26-82	None	
NSP-UT-5, Rev.2	None	Ultrasonic Examination of Reactor Vessel Nozzle Forging Inner Radii	8-26-82	None	
NSP-UT-6, Rev.3	None	Ultrasonic Examination of Reactor Vessel Nozzle Bore	8-26-82	None	
NSP-UT-10, Rev.2	None	Ultrasonic Thickness Measurement	9-10-82	None	

NORTHERN STATES POWER COMPANY
MONTICELLO NUCLEAR GENERATING PLANT
PROCEDURE LISTING

APPENDIX C
TABLE III
PAGE 2 of 2

PROCEDURE NUMBER AND REVISION	FIELD CHANGE	PROCEDURE TITLE	PLANT APPROVAL DATE	FIELD CHANGE REMARKS	CHANGE DESCRIPTION
NSP-UT-15, Rev.0	None	Ultrasonic Examination of Pipe and Fittings Reinforced by the Des- position of Weld Over- lay on Their O.D. Sur- face	10-19-82	None	
NSP-VT-1.0, Rev.0	None	Visual Examination	8-26-82	None	
NSP-VT-2.0, Rev.0	None	Visual Examination of Hanger Assemblies	9-2-82	None	
NSP-VT-4.0, Rev.0	None	Visual Examination of Monticello Reactor Vessel Interior	8-30-82	None	

NORTHERN STATES POWER COMPANY
MONTICELLO NUCLEAR GENERATING PLANT
EQUIPMENT AND MATERIALS

APPENDIX C
TABLE IV
PAGE 1 OF 3

MATERIAL OR EQUIPMENT	TYPE OR SERIAL NUMBER	CALIBRATION DATE OR BATCH NUMBER	REMARKS
<u>ULTRASONIC:</u>			
NORTEC 131D	S/N 322	CAL: 11-10-82	
NORTEC 131D	S/N 291	CAL: 11-08-82	
NORTEC 131D	S/N 126	CAL: 08-09-82	
NORTEC 131D	S/N 410	CAL: 07-29-82	
NORTEC 131D	S/N 111	CAL: 08-05-82	
NORTEC 131D	S/N 129	CAL: 08-30-82	
NORTEC 131D	S/N 167	CAL: 06-21-82	
NORTEC 131D	S/N 273	CAL: 08-09-82	
NORTEC 131D	S/N 311	CAL: 07-10-82	
(MASTER)			
NORTEC 131D	S/N 311/1	CAL: 08-26-82	
(SLAVE)			
NORTEC 131D	S/N 128	CAL: 08-23-82	
(MASTER)			
NORTEC 131D	S/N 146	CAL: 08-26-82	
(SLAVE)			
NORTEC 131D	S/N 409	CAL: 09-10-82	
(MASTER)			
NORTEC 131D	S/N 409/2	CAL: 09-10-82	
(SLAVE)			
NORTEC 131D	S/N 417	CAL: 09-30-82	
(MASTER)			
NORTEC 131D	S/N 417/1	CAL: 09-30-82	
(SLAVE)			
<u>RECORDERS:</u>			
BRUSH 220	S/N 3018	CAL: 04-01-82	
BRUSH 220	S/N 01530	CAL: 08-27-82	
BRUSH 220	S/N 01601	CAL: 08-27-82	
BRUSH 220	S/N 00778	CAL: 08-27-82	
<u>TEMPERATURE GAUGES:</u>			
PTC SURFACE THERMOMETERS	S/N 458	CAL: 06-22-82	CERTIFIED BY MANUFACTURER
	S/N 459	CAL: 06-22-82	
	S/N 463	CAL: 06-22-82	
	S/N 464	CAL: 06-22-82	
	S/N 465	CAL: 06-22-82	
<u>MAGNETIC PARTICLE:</u>			
MAGNAFLUX Y-6 YOKE	S/N LMT-002	CAL: 09-07-82	ON SITE QUALIFICATION

NORTHERN STATES POWER COMPANY
MONTICELLO NUCLEAR GENERATING PLANT
EQUIPMENT AND MATERIALS

APPENDIX C
TABLE IV
PAGE 2 OF 3

MATERIAL OR EQUIPMENT	TYPE OR SERIAL NUMBER	CALIBRATION DATE OR BATCH NUMBER	REMARKS
<u>ROMPAS BLOCKS:</u>			
4140 C.S.	S/N - 012		BY ORLA'S MACHINE SHOP
4140 C.S.	S/N - 402		BY EARLE M. JORGENSEN CO.
304 S/S	S/N - 021		BY ORLA'S MACHINE SHOP
304 S/S	S/N - 304		BY EARLE M. JORGENSEN CO.
<u>IIW BLOCK:</u>			
1018 CF	S/N LMT-1		BY EARLE M. JORGENSEN CO.
<u>MATERIALS:</u>			
ULTRASONIC COUPLANT	LMT - GEL	BATCH NO. 1110812	
PENETRANT			
SPOTCHECK	PENETRANT	BATCH NO. 5F086	TYPE SKL-HF/SKL-S
SPOTCHECK	DEVELOPER	BATCH NO. 82G057	TYPE SKD-NF/ZP-9B
SPOTCHECK	CLEANER	BATCH NO. 82G079	TYPE SKC-NF/ZC-7B
<u>ULTRASONIC:</u>			
<u>TRANSDUCERS:</u>			
		<u>SIZE</u>	<u>FREQUENCY</u>
AEROTECH	B12133	1.0" DIA.	2.25 MHZ
AEROTECH	F13118	.25" DIA.	2.25 MHZ
AEROTECH	F15183	.25" DIA.	5.0 MHZ
AEROTECH	F17104	.25" DIA.	2.25 MHZ
AEROTECH	F18155	.5" DIA.	2.25 MHZ
AEROTECH	K07023	1.0" DIA.	2.25 MHZ
AEROTECH	F26143	.5"	2.25 MHZ
AEROTECH	C29610	.5"	2.25 MHZ
AEROTECH	E30055	.25"	2.25 MHZ
BRANSON	LH6343	.5"	2.25 MHZ
HARISONIC	Q412	1" x 1"	1.0 MHZ
HARISONIC	Q943	.5" x .25"	1.5 MHZ
HARISONIC	Q1032	.5" x .5"	1.5 MHZ
HARISONIC	Q8141R	1.0" DIA.	2.25 MHZ
HARISONIC	R169	.375" x .375"	3.5 MHZ
HARISONIC	R428	.25" DIA.	2.25 MHZ
HARISONIC	R30131	.325" x .325"	3.5 MHZ
HARISONIC	T2347	.5" DIA.	2.25 MHZ
HARISONIC	T3154	.5" DIA.	2.25 MHZ
HARISONIC	T3205	.25" DIA.	5.0 MHZ

NORTHERN STATES POWER COMPANY
MONTICELLO NUCLEAR GENERATING PLANT
EQUIPMENT AND MATERIALS

APPENDIX C
TABLE IV
PAGE 3 OF 3

MATERIAL OR EQUIPMENT	TYPE OR SERIAL NUMBER	CALIBRATION DATE OR BATCH NUMBER	REMARKS
<u>TRANSDUCERS CON'T</u>			
HARISONIC	V 6271	.75" DIA.	2.25 MHZ
HARISONIC	P 927	1.5" DIA.	1.0 MHZ
HARISONIC	P 928	1.0" DIA.	1.0 MHZ
HARISONIC	V 9462	.5" x .5"	1.5 MHZ
HARISONIC	V 9463	.5" x .5"	1.5 MHZ
HARISONIC	V 9464	.5" x .5"	1.5 MHZ
HARISONIC	T 10280	.5"	2.25 MHZ
HARISONIC	V 10599	.25"	5.0 MHZ
HARISONIC	V 10600	.25"	5.0 MHZ
HARISONIC	V 11110	.5" x .5"	1.0 MHZ
HARISONIC	V 11111	.5" x .5"	1.0 MHZ
NORTEC	978	.75" x .75"	2.25 MHZ
NORTEC	979	.75" x .75"	2.25 MHZ
PANAMETRICS	4062	1.0" x 1.0"	1.0 MHZ
PANAMETRICS	10940	.5" DIA.	2.25 MHZ
SUSI	907	.5" x .5"	1.5 MHZ
SUSI	908	.5" x .5"	1.5 MHZ
SUSI	909	.5" x .5"	1.5 MHZ
SUSI	642	.75" x .75"	2.25 MHZ
SUSI	973	.5" x .5"	1.5 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 55401
- 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

<u>Component or Appurtenance</u>	<u>Manufacturer or Installer</u>	<u>Manufacturer or Installer Serial No.</u>	<u>State or Province No.</u>	<u>National Board No.</u>
<u>NOZZLE WELDS</u>				
<u>B3.10 NOZZLE-TO-VESSEL WELDS</u>				
<u>&</u>	<u>&</u>			
<u>B3.20 NOZZLE INSIDE RADIUS SECTION</u>				
RECIRCULATION	CB & I	---	---	---
OUTLET				
RCAD-1				
RECIRCULATION	CB & I	---	---	---
INLET				
RRAD-1, RRDD-1,				
RRJD-1				
<u>B5.10 NOZZLE TO SAFE END WELDS</u>				
RECIRCULATION	CB & I	---	---	---
OUTLET				
RCAF-2, RCBF-2				
RECIRCULATION	CB & I	---	---	---
INLET				
RRAF-2, RRBF-2				
RRCF-2, RRDF-2				
RREF-2, RREF-2				
RRGF-2, RRHF-2				
RRJF-2, RRKF-2				

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

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- 7.) Components Inspected

<u>Component or Appurtenance</u>	<u>Manufacturer or Installer</u>	<u>Manufacturer or Installer Serial No.</u>	<u>State or Province No.</u>	<u>National Board No.</u>
<u>B5.50 SAFE END WELDS</u>				
RESIDUAL HEAT REMOVAL	BECHTEL	---	---	---
RHAF-4, RHBF-4, RHBF-20, RHBF-24, RHCF-4, RHCF-20, RHCF-23,				
REACTOR WATER CLEAN UP CWAFF-2	BECHTEL	---	---	---
<u>PRESSURE RETAINING BOLTING</u>				
<u>B6.180 BOLTS & STUDS, IN PLACE</u>				
RECIRCULATION PUMP A FLANGE BOLTS BOLTS 1-5	BECHTEL	---	---	---
RECIRCULATION PUMP B FLANGE BOLTS BOLTS 1-5	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
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- 5.) Commercial Service Date 6-30-71 6.) National Board Number for Unit ---
- 7.) Components Inspected

<u>Component or Appurtenance</u>	<u>Manufacturer or Installer</u>	<u>Manufacturer or Installer Serial No.</u>	<u>State or Province No.</u>	<u>National Board No.</u>
<u>B6.200 BOLTING</u>				
RECIRCULATION	BECHTEL	---	---	---
PUMP A FLANGE BOLTS BOLTS 1-5				
RECIRCULATION	BECHTEL	---	---	---
PUMP B FLANGE BOLTS BOLTS 1-5				
<u>B6.210 BOLTS & STUDS, IN PLACE</u>				
RECIRCULATION	BECHTEL	---	---	---
A VALVES M02-53A, M02-43A				
RECIRCULATION	BECHTEL	---	---	---
B VALVES M02-53B, M02-43B				

FORM NIS-1 OWNERS' DATA REPORT FOR INSERVICE INSPECTIONS

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- 5.) Commercial Service Date 6-30-71 6.) National Board Number for Unit ---
- 7.) Components Inspected

<u>Component or Appurtenance</u>	<u>Manufacturer or Installer</u>	<u>Manufacturer or Installer Serial No.</u>	<u>State or Province No.</u>	<u>National Board No.</u>
<u>B6.230 BOLTING</u>				
RECIRCULATION	BECHTEL	---	---	---
A VALVES M02-53A, M02-43A				
RECIRCULATION	BECHTEL	---	---	---
B VALVES M02-53B, M02-43B				
<u>PRESSURE RETAINING BOLTING</u>				
<u>B7.50 BOLTS, STUDS & NUTS</u>				
RECIRCULATION	BECHTEL	---	---	---
A FLANGE BOLTS AT RCAJ-20				
<u>B7.70 BOLTS, STUDS & NUTS</u>				
RECIRCULATION	BECHTEL	---	---	---
MANIFOLD VALVES M02-65A M02-66A				

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- 7.) Components Inspected

<u>Component or Appurtenance</u>	<u>Manufacturer or Installer</u>	<u>Manufacturer or Installer Serial No.</u>	<u>State or Province No.</u>	<u>National Board No.</u>
<u>B7.70 CON'T.</u>				
RECIRCULATION	BECHTEL	---	---	---
DRAIN				
XR-6-1				
XR-7-1				
<u>PIPING PRESSURE BOUNDARY</u>				
<u>B9.11 CIRCUMFERENTIAL</u>				
<u>&</u>	<u>&</u>			
<u>B9.12 LONGITUDINAL WELDS</u>				
MAIN STEAM A	CHERNE	---	---	---
MSAJ-16,20				
MAIN STEAM B	CHERNE	---	---	---
MSBJ-15,21				
MAIN STEAM C	CHERNE	---	---	---
MSCJ-16,21				
MAIN STEAM D	CHERNE	---	---	---
MSDJ-17,21				
REACTOR WATER	BECHTEL	---	---	---
CLEAN UP				
CWAJ-2A				

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 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

<u>Component or Appurtenance</u>	<u>Manufacturer or Installer</u>	<u>Manufacturer or Installer Serial No.</u>	<u>State or Province No.</u>	<u>National Board No.</u>
<u>B9.11 & 9.12 CON'T.</u>				
RESIDUAL HEAT REMOVAL A RHAJ-1,2,3	BECHTEL	---	---	---
RESIDUAL HEAT REMOVAL B RHBj-1,3,21 22,28,29	BECHTEL	---	---	---
RESIDUAL HEAT REMOVAL C RHCJ-1,3,7,8, 21,22	BECHTEL	---	---	---
RECIRCULATION A RCAJ-3,4,5,6,9, 11,13,15,17,20, 21,23,24,28,30, 32,35	BECHTEL	---	---	---
RECIRCULATION B RCBJ-3,4,5,6,9, 11,13,15,18,19, 21,22,26,28,31,34	BECHTEL	---	---	---
RECIRCULATION A BYPASS RBAJ-2,M3,M12, M13,M15,M16	BECHTEL	---	---	---

FORM NIS-1 OWNERS' DATA REPORT FOR INSERVICE INSPECTIONS

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

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 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

<u>Component or Appurtenance</u>	<u>Manufacturer or Installer</u>	<u>Manufacturer or Installer Serial No.</u>	<u>State or Province No.</u>	<u>National Board No.</u>
<u>B9.11 & 9.12 CON'T.</u>				
RECIRCULATION B BYPASS RBBJ-2,M3,M7, M8,M18,19	BECHTEL	---	---	---
RECIRCULATION A MANIFOLD RMAJ-2,3,5,7, 8,9,10,14,15,16	BECHTEL	---	---	---
RECIRCULATION B MANIFOLD RMBJ-2,3,5,7,8, 9,10,12,14,15,16	BECHTEL	---	---	---
RECIRCULATION RISERS RISER F RRFJ-3,4,5,7	BECHTEL	---	---	---
RISER G RRGJ-3,4,5,7	BECHTEL	---	---	---
RISER H RRHJ-3,4,5,7	BECHTEL	---	---	---
RISER J RRJJ-3,4,5,7	BECHTEL	---	---	---
RISER K RRKJ-3,4,5,7	BECHTEL	---	---	---

FORM NIS-1 OWNERS' DATA REPORT FOR INSERVICE INSPECTIONS

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

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 Address MONTICELLO, MINNESOTA
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- 5.) Commercial Service Date 6-30-71 6.) National Board Number for Unit ---
- 7.) Components Inspected

<u>Component or Appurtenance</u>	<u>Manufacturer or Installer</u>	<u>Manufacturer or Installer Serial No.</u>	<u>State or Province No.</u>	<u>National Board No.</u>
<u>B9.11 & 9.12 CON'T.</u>				
RISER A RRAJ-3,4,5,7	BECHTEL	---	---	---
RISER B RRBJ-3,4,5,7	BECHTEL	---	---	---
RISER C RRCJ-3,4,5,7	BECHTEL	---	---	---
RISER D RRDJ-3,4,5,7	BECHTEL	---	---	---
RISER E RREJ-3,4,5,7	BECHTEL	---	---	---
CRD SCRAM HEADER "A" LOOP CDAJ-1,8,10,11,12,13, 15,16,17,18,24,27,28, 29,36,42,43,45,33,46, 49,50,51,52,53	NSP	---	---	---
CRD SCRAM DISCHARGE VOLUME TANK CDAJ-54,55	NSP	---	---	---
CRD SCRAM HEADER "B" LOOP CDBJ-1,6,7,8,9,10,11,12, 15,20,21,22,23,28,34,37,39, 26,40,41,42,43,44	NSP	---	---	---
CRD SCRAM DISCHARGE VOLUME TANK CDBJ-45,46	NSP	---	---	---

FORM NIS-1 OWNERS' DATA REPORT FOR INSERVICE INSPECTIONS

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

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 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

<u>Component or Appurtenance</u>	<u>Manufacturer or Installer</u>	<u>Manufacturer or Installer Serial No.</u>	<u>State or Province No.</u>	<u>National Board No.</u>
<u>B9.30 BRANCH CONNECTION WELDS</u>				
<u>B9.31 NOMINAL PIPE SIZE GREATER THAN 2 INCHES</u>				
MAIN STEAM A MSAJ-15,19	CHERNE	---	---	---
MAIN STEAM B MSBJ-16,20	CHERNE	---	---	---
MAIN STEAM C MSCJ-15,20	CHERNE	---	---	---
MAIN STEAM D MSDJ-16,20	CHERNE	---	---	---
REACTOR WATER CLEAN UP CWAJ-1	BECHTEL	---	---	---
RECIRCULATION A MANIFOLD RMAJ-12	BECHTEL	---	---	---
<u>B9.40 SOCKET WELDS</u>				
RECIRCULATION MANIFOLD BYPASS VBBJ-8,9,10,11	BECHTEL	---	---	---
RECIRCULATION DRAINS 6A,7A	BECHTEL	---	---	---

FORM NIS-1 OWNERS' DATA REPORT FOR INSERVICE INSPECTIONS

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

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 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

<u>Component or Appurtenance</u>	<u>Manufacturer or Installer</u>	<u>Manufacturer or Installer Serial No.</u>	<u>State or Province No.</u>	<u>National Board No.</u>
<u>B10.10 INTEGRALLY WELDED ATTACHMENTS</u>				
<u>&</u>	<u>&</u>			
<u>B11.10 COMPONENT SUPPORTS</u>				
RECIRCULATION A RCAK-16,18,33	BECHTEL	---	---	---
RECIRCULATION B RCBK-10A,14	BECHTEL	---	---	---
RECIRCULATION MANIFOLD RMAK-13,13B 17,17B	BECHTEL	---	---	---
<u>B11.10 COMPONENT SUPPORTS</u>				
RECIRCULATION A RCAK-6,34 PHA-5 PSSA-5	BECHTEL	---	---	---
RECIRCULATION B RCBK-10,12 PHB-6 PSSB-5	BECHTEL	---	---	---
RECIRCULATION BYPASS RBBK-14	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 55401
 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

<u>Component or Appurtenance</u>	<u>Manufacturer or Installer</u>	<u>Manufacturer or Installer Serial No.</u>	<u>State or Province No.</u>	<u>National Board No.</u>
<u>B11.10 CON'T.</u>				
RECIRCULATION MANIFOLD RMAK-11,13A,17 RMBK-17	BECHTEL	---	---	---
RECIRCULATION RISERS RRJK-6,RRKK-6, RRDK-6	BECHTEL	---	---	---
RECIRCULATION VALVE BYPASS VBBK-6A	BECHTEL	---	---	---
<u>REACTOR VESSEL</u>	CB & I	B-4697		

B13.10 VESSEL INTERIOR

B13.20 INTERIOR ATTACHMENTS

CORE SPRAY GENERAL ELECTRIC
 SPARGER SYSTEM
 TEE JUNCTION BOX AT 90° & 270°
 PIPING AND WELDS
 PIPING BRACKETS AND RECLAD AREA
 SPARGER PIPING, NOZZLES, AND BRACKETS
 SHROUD PENETRATIONS

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- 7.) Components Inspected

<u>Component or Appurtenance</u>	<u>Manufacturer or Installer</u>	<u>Manufacturer or Installer Serial No.</u>	<u>State or Province No.</u>	<u>National Board No.</u>
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B13.10 & B13.20 CON'T.

FEEDWATER GENERAL ELECTRIC
SPARGER SYSTEM
INNER RADIUS OF VESSEL NOZZLES AT 45° & 135°
SPARGER PIPING AND WELDS
END BRACKETS, BOLTING, RECLAD AREAS,
BEARING BAR BRACKETS, BOLTING AND WELDS

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- 7.) Components Inspected

<u>Component or Appurtenance</u>	<u>Manufacturer or Installer</u>	<u>Manufacturer or Installer Serial No.</u>	<u>State or Province No.</u>	<u>National Board No.</u>
<u>ASME CLASS II</u>				
<u>C3.40 INTEGRALLY WELDED SUPPORT ATTACHMENTS</u>				
HIGH PRESSURE COOLANT INJECTION WATER DISCHARGE CIAK-31	BECHTEL	---	---	---
RESIDUAL HEAT REMOVAL SERVICE WATER SWAK-42	BECHTEL	---	---	---
<u>C3.50 COMPONENT SUPPORTS</u>				
HIGH PRESSURE COOLANT INJECTION WATER DISCHARGE TWH-38, CIAK-59	BECHTEL	---	---	---
HIGH PRESSURE COOLANT INJECTION STEAM TDAK-23,25,26	BECHTEL	---	---	---
RCIC STEAM DISCHARGE SS-38A & B, RSH-13	BECHTEL	---	---	---

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- 7.) Components Inspected

<u>Component or Appurtenance</u>	<u>Manufacturer or Installer</u>	<u>Manufacturer or Installer Serial No.</u>	<u>State or Province No.</u>	<u>National Board No.</u>
<u>C3.50 CON'T.</u>				
RESIDUAL HEAT REMOVAL B SUCTION TWH-16,58	BECHTEL	---	---	---
CONTAINMENT SPRAY A & B SS-30, TWH-140 TWH-74,75	BECHTEL	---	---	---
<u>C3.80 COMPONENT SUPPORTS</u>				
HPCI TURBINE & PUMPS SUPPORT A				
<u>C5.11 CIRCUMFERENTIAL</u>				
&	&			
<u>C5.12 LONGITUDINAL WELDS</u>				
RESIDUAL HEAT REMOVAL SUCTION W-32,403,355	BECHTEL	---	---	---
RCIC WATER SUCTION W-14	BECHTEL	---	---	---

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- 7.) Components Inspected

<u>Component or Appurtenance</u>	<u>Manufacturer or Installer</u>	<u>Manufacturer or Installer Serial No.</u>	<u>State or Province No.</u>	<u>National Board No.</u>
<u>C5.11 & C5.12 CON'T.</u>				
CONTAINMENT SPRAY A & B W-22,28	BECHTEL	---	---	---
<u>C5.21 CIRCUMFERENTIAL</u> <u>& &</u>				
<u>C5.22 LONGITUDINAL WELDS</u>				
SUPPLY TO STEAM SEAL SYSTEM SSAJ-35,37	BECHTEL	---	---	---
FEEDWATER A & B FWDJ-38	BECHTEL	---	---	---

Form NIS-1 (back)

8.) Examination Dates 8-30-82 to 12-1-82. 9.) Inspection Interval 6-30-81 to 6-30-91.

10.) Abstract of Examinations.

This was the first Inservice Inspection to be conducted in Inspection Period One of the Plant's second ten year interval. The examinations were performed on approximately 1/3 of the required examinations scheduled for inspection period one. The examinations were performed on pressure-retaining components and their supports of the reactor coolant and associated auxillary systems classified as ASME Class I and II. In addition, 100% of the reactor recirculation system and attached piping systems were examined for conditions relating to Regulation Guide 0313. Visual examinations were performed on the core spray sparger and feedwater sparger systems. Also, baseline examinations were performed on the main steam safety relief sweep-o-let and flange replacement and control rod drive scram header modification.

11.) Abstract of Conditions Noted.

The following is a list of all anomalies detected.

<u>System</u>	<u>Item ID</u>	<u>Exam Method</u>	<u>Type & Number of Indications</u>
Recirculation Inlet	RRCJ-3	UT & RT	5 linears
	RRDJ-5	UT & RT	1 linear
	RREJ-3	UT & RT	5 linears
	RRFJ-3	UT & RT	2 linears
	RRGJ-4	UT & VT	1 linear
	RRHJ-7	PT	several linears
Recirculation Manifold "A"	RMAJ-2	UT & RT	3 linears
Recirculation "A"	RCAK-33	VT	loose nut
Recirculation "B"	RCBK-10	VT	loose nut
	PHB-6	VT	cotter pin missing
Recirculation Riser	RRJK-6	VT	loose nut
RHR Service Water	SWAK-42	VT	loose nut
RCIC Steam Discharge	SS-38A	VT	cotter pin missing
Containment Spray	TWH-140	VT	loose nut

12.) Abstract of Corrective Measures Recommended and Taken.

All anomalies were corrected. The loose nuts were tightened; the missing cotter pins were replaced; the PT indications were removed by light hand grinding and blending the surface smooth; the linear UT, VT, & RT indications were repaired by the use of weld overlays.

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

Date February 10 1983 Signed Northern States Power By Larry C. Dahlman
Owner

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

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of Minnesota and employed by Hartford Stn. Bldg. Insp. & Ins. Co. of Hartford Conn. have inspected the components described in this Owner's Data Report during the period 8-30-82 to 12-1-82, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owners' Data Report in accordance with the requirements of the ASME Code, Section XI.

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

Date 2-10 1983

Paul R. Lindstrom

Inspector's Signature

Commissions NB 6932 Min. 83-40

National Board, State, Province & No.