

MONTICELLO NUCLEAR GENERATING PLANT
OLD HIGHWAY 152
MONTICELLO, MN 55362

REFUELING OUTAGE NUMBER 16
OUTAGE DATES 1-27-93 TO 3-23-93
COMMERCIAL SERVICE DATE JUNE 30, 1971
INSERVICE INSPECTION INTERVAL 2, PERIOD 3
INSERVICE INSPECTION INTERVAL 3, PERIOD 1

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Report Date: 4/22/93

Prepared By: Monica Vik
Monica Vik

Reviewed By: Chuck Kinney
Chuck Kinney

Approved By: Jeff Ricker
Jeff Ricker

I. Summary

The sixteenth Monticello refueling outage began January 27, 1993 and ended March 23, 1993.

Visual and nondestructive examinations were performed by NSP, Lambert MacGill and Thomas and General Electric. Copies of examination procedures, personnel certifications and equipment records are available at NSP.

Results of the examinations indicate that the integrity of the plant systems has been maintained.

In reference to the NRC letter received August 28, 1991 from Thomas Ippolito on "Implementation of Unresolved Safety Issue A-10, BWR Nozzle Cracking" and NSP's submittal of April 22, 1985 giving supplemental information related to the inservice inspection examination summary for refueling outage No. 10, the following information relating to the feedwater sparger inspection performed during the 1993 Refuel and Maintenance Outage is provided for use by the NRC Staff.

The total number of startup cycles since the last feedwater nozzle surface inspection done during the 1991 refuel outage is five. The total number of shutdown cycles since the 1991 outage is also five.

An on line feedwater nozzle thermal sleeve leak detection system has been used to monitor feedwater nozzle thermal sleeve bypass flow. This system indicates that there is no significant bypass flow and there is no increasing trend on any of the nozzles.

The NRC granted relief from ASME Code Section XI visual examination requirements for Code Item B12.20 for the Recirculation system pumps and Code Item B12.40 for the Recirculation system valves, Request for Relief No. 41 and Request for Relief No. 42, respectively, provided that the last summary report for the second ten year inspection interval noted any disassembly of the recirculation system pumps and valves for maintenance. The recirculation system pumps and valves have not been disassembled for maintenance in the second ten year inspection interval. Pump and valve internal surface examinations were performed in the 1984 Refuel and Maintenance outage when the recirculation system piping was replaced. The pumps and valves were not disassembled for these examinations; examinations were performed from the open pipe connection ends. No signs of erosion, corrosion or degradation were noted.

NORTHERN STATES POWER
INSERVICE INSPECTION

SUMMARY REPORT
MONTICELLO 1993

II. Form NIS-1 Information
Form NIS-1 Owner's Data Report for Inservice Inspections
(As required by the Provision of the ASME Code Rules)

1. Owner: Northern States Power Company
Address: 414 Nicollet Mall; Minneapolis, MN 55401
2. Plant: Monticello Nuclear Generating Plant
Address: Monticello, MN 55362
3. Plant Unit: 1 4. Owner (Certificate of Authorization): ---
5. Commercial Service Date: 6/30/71 6. National Board No. for Unit: NA

7. Components Inspected:

<u>Component or Appurtenance</u>	<u>Manufacturer or Installer</u>	<u>Manufacturer or Installer Serial No.</u>	<u>State or Province No.</u>	<u>National Board No.</u>
Reactor Pressure Vessel	Chicago Bridge & Iron	B-4697	---	---

ASME (See appendices for components inspected this outage.)

8. Examination Dates: 1/27/93 to 3/23/93
- 9a. Inspection Interval from 6/30/81 to 5/31/92
- 9b. Inspection Interval from 6/1/92 to 5/31/02
- 10a. Applicable Edition of Section XI 1977 Addenda Summer 1978
- 10b. Applicable Edition of Section XI 1986 Addenda ---
11. Abstract of Examinations. Include a list of examinations and a statement concerning status of work required for current interval.

See appendices A through I (Attached)

12. Abstract of Conditions Noted.

See appendices A through I (Attached)

13. Abstract of Corrective Measures Recommended and Taken.

See appendices A through I (Attached)

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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.

Certification of Authorization No. (if applicable) NA Expiration Date NA

Date June 22 19 93 Signed NORTHERN STATES By Monica Vite
Owner Power

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Minnesota and employed by Hartford Steam Boiler I&E of Hartford Conn have inspected the components described in this Owner's Report during the period 12/8/92 to 3/23/93, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's 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 Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Lynwood P Dillon Commissions NB 10274, MN 93-174
Inspector's Signature National Board, State, Province,
Endorsements

Date June 22 19 93

III. Repair/Replacement Summary

The following is a summary of ASME Section XI Class 1 and Class 2 components Repair/Replacement information from Cycle 15. The "WRA/Control No." is a reference to plant documents which control the repair/replacement. The plant document provides more information regarding the repair/replacement.

<u>WRA/Control No.</u>	<u>System</u>	<u>Description of Work</u>
WRA 93-01063	HPCI	Repaired MO-2071 internals
WRA 93-00997	RHR	Machine stud holes on AO-10-46A bonnet
WRA 93-00993	RHR	Repair Hanger TWH-102
WRA 93-00990	HPCI	Drill vent hole in MO-2068 disc
WRA 93-00989	HPCI	Drill vent hole in MO-2067 disc
WRA 93-00962	RHR	Repair RV-2025
WRA 93-00828	HPCI	Replace HPCI-71
WRA 93-00711	RHR	Repair RHR-7
WRA 93-00684	RHR	Install seat ring for MO-2009
WRA 93-00673	Recirc	Replaced thermowells
WRA 93-00672	Recirc	Replaced thermowells
WRA 93-00664	RCIC	Repair RCIC-17 plug and seat
WRA 93-00663	RCIC	Repair RCIC-16 plug and seat
WRA 93-00505	RHR	Repair MO-2011
WRA 93-00494	RHR	Flap out surface indication
WRA 93-00464	MST	Flap out surface indication
WRA 93-00298	CSP	Flap out surface indication
WRA 93-00280	CSP	Flap out surface indication
WRA 93-00241	HPCI	Flap out surface indication
WRA 92-06989	RHR	Flap out surface indication
WRA 92-06980	RHR	Flap out surface indication
WRA 92-06957	RHR	Flap out surface indication
WRA 92-06852	RHR	Flap out surface indication
WRA 92-06809	RHR	Flap out surface indication
WRA 92-06467	RHR	Repair MO-2032
WRA 92-06156	RCIC	Replace rupture discs PSD-2089 & 2090
WRA 92-06155	HPCI	Replace rupture discs PSD-2038 & 2039
WRA 92-05790	RHR	Replace bonnet on AO-10-46A
WRA 92-05703	SBLC	Replace plunger on P-203B
WRA 92-05497	RCIC	Replaced RV-2097 stem and spring
WRA 92-05283	RHR	Repair MO-2009
WRA 92-05173	RPV	Replace Rx head studs, nuts and washers

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III. Repair/Replacement Summary

<u>WRA/Control No.</u>	<u>System</u>	<u>Description of Work</u>
WRA 91-50048	RHR	Repair RV-1990
WRA 91-03649	HPCI	Replace missing nut on support PSH-103
MOD 92Q520	RHR	Replaced discs in MO-2014 and 2015
MOD 92Q295	PCT	Install hard pipe vent system and supports

NORTHERN STATES POWER
INSERVICE INSPECTION

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Appendix A

Interval 2, Period 3

Inspections by ISO

Inservice Inspection Report Log
 By ISO
 Commercial Service Date: June 20, 1971

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ISO System	Item Item Description	Report Number Exam Date	Method Results	ASME Section XI Item Remarks
Figure 1 CRD Housings	CRD HSNR Row 2 Bolting	93-155 02/19/93	VT1 NAD	B 7. 10
Figure 3 Reactor Vessel	Bushings RPV Bushings 23-44	93-029 01/28/93	VT1 NAD	B 6. 50
Figure 3 Reactor Vessel	Ligaments RPV Ligaments 23-44	93-036 01/28/93	UT 0 NAD	B 6. 40
Figure 3 Reactor Vessel	Ligaments RPV Ligaments 23-44	93-028 01/28/93	VT1 NAD	B 6. 40
Figure 3 Reactor Vessel	Nuts RVP Nuts 23-44	93-058 02/03/93	MT NAD	B 6. 10
Figure 3 Reactor Vessel	Nuts RVP Nuts 23-44	93-055 02/02/93	VT1 NAD	B 6. 10
Figure 3 Reactor Vessel	Studs RPV Studs 23-44	93-026 01/28/93	UT 0 NAD	B 6. 20
Figure 3 Reactor Vessel	Studs RPV Studs 23-44	93-027 01/28/93	VT1 NAD	B 6. 20
Figure 3 Reactor Vessel	Washers RPV Washers 23-44	93-056 02/02/93	VT1 NAD	B 6. 50
Figure 4 Reactor Vessel	N- 1B IR N- 1B Inner Radius	93-191 02/23/93	UT70 NAD	B 3.100
Figure 4 Reactor Vessel	N- 2B IR N- 2B Inner Radius	93-196 02/25/93	UT70 NAD	B 3.100
Figure 4 Reactor Vessel	N- 2C IR N- 2C Inner Radius	93-211 02/26/93	UT70 NAD	B 3.100
Figure 4 Reactor Vessel	N- 2F IR N- 2F Inner Radius	93-167 02/20/93	UT70 NAD	B 3.100
Figure 4 Reactor Vessel	N- 2K IR N- 2K Inner Radius	93-193 02/24/93	UT70 NAD	B 3.100
Figure 4 Reactor Vessel	N- 4A IR N- 4A Inner Radius	93-067 02/13/93	UT70 NAD	B 3.100
Figure 4 Reactor Vessel	N- 4D IR N- 4D Inner Radius	93-068 02/13/93	UT70 NAD	B 3.100
Figure 4 Reactor Vessel	RCBD- 1 N- 1B Noz/Vsl Weld	93-192 02/23/93	UT 0 NAD	B 3. 90
Figure 4 Reactor Vessel	RCBD- 1 N- 1B Noz/Vsl Weld	93-187 02/23/93	UT45 NAD	B 3. 90
Figure 4 Reactor Vessel	RCBD- 1 N- 1B Noz/Vsl Weld	93-188 02/23/93	UT60 NAD	B 3. 90
Figure 4 Reactor Vessel	RRBD-1 N- 2B Noz Vsl Weld	93-195 02/25/93	UT 0 NAD	B 3. 90
Figure 4 Reactor Vessel	RRBD-1 N- 2B Noz Vsl Weld	93-201 02/25/93	UT45 NAD	B 3. 90
Figure 4 Reactor Vessel	RRBD-1 N- 2B Noz Vsl Weld	93-200 02/25/93	UT60 NAD	B 3. 90

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ISO System	Item Description	Report Number Exam Date	Method Results	ASME Section XI Item Remarks
Figure 4 Reactor Vessel	RRCD-1 N- 2C Noz/Vsl Weld	93-212 02/26/93	UT 0 NAD	B 3. 90
Figure 4 Reactor Vessel	RRCD-1 N- 2C Noz/Vsl Weld	93-214 02/26/93	UT45 NAD	B 3. 90
Figure 4 Reactor Vessel	RRCD-1 N- 2C Noz/Vsl Weld	93-213 02/26/93	UT60 NAD	B 3. 90
Figure 4 Reactor Vessel	RRFD-1 N- 2F Noz/Vsl Weld	93-170 02/20/93	UT 0 NAD	B 3. 90
Figure 4 Reactor Vessel	RRFD-1 N- 2F Noz/Vsl Weld	93-168 02/20/93	UT45 NAD	B 3. 90
Figure 4 Reactor Vessel	RRFD-1 N- 2F Noz/Vsl Weld	93-169 02/20/93	UT60 NAD	B 3. 90
Figure 4 Reactor Vessel	RRKD-1 N- 2K Noz/Vsl Weld	93-194 02/24/93	UT 0 NAD	B 3. 90
Figure 4 Reactor Vessel	RRKD-1 N- 2K Noz/Vsl Weld	93-189 02/24/93	UT45 NAD	B 3. 90
Figure 4 Reactor Vessel	RRKD-1 N- 2K Noz/Vsl Weld	93-190 02/24/93	UT60 NAD	B 3. 90
ISI- 1 Main Steam A	A02- 80A Valve Bolting	93-222 03/04/93	VT1 NAD	B 7. 70
ISI- 1 Main Steam A	A02- 80A Valve Internals	93-127 02/17/93	VT3 NAD	B12. 40
ISI- 1 Main Steam A	MSAJ-39 Pipe-to-Pipe	93-039 02/01/93	MT NAD	B 9. 11
ISI- 1 Main Steam A	MSAJ-39 Pipe-to-Pipe	93-049 02/01/93	UT45 NAD	B 9. 11
ISI- 1 Main Steam A	MSAK-30A Snubber	93-096 02/15/93	VT3 NAD	B11. 10
ISI- 2 Main Steam B	A02- 80B Valve Bolting	93-216 03/02/93	VT1 NAD	B 7. 70
ISI- 2 Main Steam B	A02- 80B Valve Internals	93-128 02/17/93	VT3 NAD	B12. 40
ISI- 3 Main Steam C	MSCJ- 6 Pipe-to-Elbow	93-158 02/20/93	MT NAD	B 9. 11
ISI- 3 Main Steam C	MSCJ- 6 Pipe-to-Elbow	93-144 02/20/93	UT45 NAD	B 9. 11
ISI- 3 Main Steam C	MSCJ-36 Pipe-to-Pipe	93-040R 02/19/93	MT NAD	B 9. 11 Linear. Re-Work SAT.
ISI- 3 Main Steam C	MSCJ-36 Pipe-to-Pipe	93-048 02/01/93	UT45 NAD	B 9. 11
ISI- 4 Main Steam D	MSDJ-41 Pipe-to-Pipe	93-041 02/01/93	MT NAD	B 9. 11
ISI- 4 Main Steam D	MSDJ-41 Pipe-to-Pipe	93-047 02/01/93	UT45 NAD	B 9. 11

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ISO System	Item Item Description	Report Number Exam Date	Method Results	ASME Section XI Item Remarks
ISI- 5A Feedwater	FW- 94-2 Valve Bolts	93-037 01/28/93	VT1 NAD	B 7. 70
ISI- 5A Feedwater	FWAJ-34 Pipe-to-Pipe	93-050 02/02/93	MT NAD	B 9. 11
ISI- 5A Feedwater	FWAJ-34 Pipe-to-Pipe	93-052 02/02/93	UT45 NAD	B 9. 11
ISI- 5A Feedwater	FWP-B- 3 Elbow-to-Pipe	93-095 02/15/93	MT NAD	B 9. 11
ISI- 5A Feedwater	FWP-B- 3 Elbow-to-Pipe	93-109 02/18/93	UT45 GEO	B 9. 11
ISI- 5B Feedwater	FWCJ-10 Pipe-to-Elbow	93-140 02/19/93	MT NAD	B 9. 11
ISI- 5B Feedwater	FWCJ-10 Pipe-to-Elbow	93-164 02/20/93	UT45 GEO	B 9. 11
ISI- 5B Feedwater	FWDJ-10 Elbow-to-Pipe	93-141 02/19/93	MT NAD	B 9. 11
ISI- 5B Feedwater	FWDJ-10 Elbow-to-Pipe	93-163 02/19/93	UT45 GEO	B 9. 11
ISI- 5B Feedwater	FWDJ-34 Pipe-to-Pipe	93-051 02/02/93	MT NAD	B 9. 11
ISI- 5B Feedwater	FWDJ-34 Pipe-to-Pipe	93-053 02/02/93	UT45 NAD	B 9. 11
ISI- 6B Core Spray B	CSBJ-21 Pipe-to-Pipe	93-011 01/22/93	MT NAD	B 9. 11
ISI- 6B Core Spray B	CSBJ-21 Pipe-to-Pipe	93-020 01/25/93	UT45 NAD	B 9. 11
ISI- 6B Core Spray B	CSBK-15 Spring Hanger	93-122 03/03/93	VT3 NAD	B11. 10
ISI- 7 HPCI Steam	PSAJ-16 Pipe-to-Pipe	93-042 02/01/93	MT NAD	B 9. 11
ISI- 7 HPCI Steam	PSAJ-16 Pipe-to-Pipe	93-045 02/01/93	UT45 NAD	B 9. 11
ISI- 9 Reactor Wtr Cleanup	CWAFR- 3 Pipe-to-Elbow	93-121 02/17/93	PT NAD	B 9. 11 Refer to report #93-227.
ISI- 9 Reactor Wtr Cleanup	CWAFR- 3 Pipe-to-Elbow	93-227 03/10/93	PT NAD	B 9. 12 LS U Refer to report #93-121.
ISI- 9 Reactor Wtr Cleanup	CWAFR- 3 Pipe-to-Elbow	93-133 02/18/93	UT45 NAD	B 9. 11 Refer to report #93-228.
ISI- 9 Reactor Wtr Cleanup	CWAFR- 3 Pipe-to-Elbow	93-228 03/10/93	UT45 NAD	B 9. 12 LS U Refer to report #93-133.
ISI- 9 Reactor Wtr Cleanup	CWAJ-21 Pipe-to-Pipe	93-060 02/09/93	MT NAD	B 9. 11
ISI- 9 Reactor Wtr Cleanup	CWAJ-21 Pipe-to-Pipe	93-062 02/09/93	UT45 NAD	B 9. 11

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ISO System	Item Item Description	Report Number Exam Date	Method Results	ASME Section XI Item Remarks
ISI- 9 Reactor Wtr Cleanup	RC-104 Valve Bolting	93-134 02/18/93	VT1 NAD	B 7. 70
ISI-11A Residual Ht Removal	FLG @ RHAJR- 9 Flange Bolting	93-135 02/18/93	VT1 NAD	B 7. 50
ISI-11A Residual Ht Removal	FLG @ RHAJR-14 Flange Bolting	93-112 02/17/93	VT1 NAD	B 7. 50
ISI-11A Residual Ht Removal	RHAJR- 8 Pipe-to-Branch	93-117 02/17/93	MT NAD	B 9. 31
ISI-11A Residual Ht Removal	RHAJR- 8 Pipe-to-Branch	93-184 02/24/93	UT45 NAD	B 9. 31
ISI-11A Residual Ht Removal	RHAJR- 9 Branch-to-Flange	93-118 02/17/93	MT NAD	B 9. 11
ISI-11A Residual Ht Removal	RHAJR- 9 Branch-to-Flange	93-171 02/22/93	UT45 NAD	B 9. 11
ISI-11A Residual Ht Removal	RHAJR-29 Pipe-to-Pipe	92-027 01/07/93	MT NAD	B 9. 11
ISI-11A Residual Ht Removal	RHAJR-29 Pipe-to-Pipe	92-028 01/07/93	UT45 NAD	B 9. 11
ISI-11A Residual Ht Removal	RHAKR-19 Spring Support	93-070 02/14/93	VT3 NAD	B11. 10
ISI-11A Residual Ht Removal	RHAKR-22 Spring Support	93-073 02/14/93	VT3 NAD	B11. 10
ISI-11B Residual Ht Removal	FLG @ RHBJR-10 Flange @ bolting	93-113 02/17/93	VT1 NAD	B 7. 50
ISI-11B Residual Ht Removal	FLG @ RHBJR-21 Flange @ bolting	93-114 02/17/93	VT1 NAD	B 7. 50
ISI-11B Residual Ht Removal	RHBFR-23 Valve-to-Pipe	93-106 02/16/93	PT NAD	B 9. 11
ISI-11B Residual Ht Removal	RHBFR-23 Valve-to-Pipe	93-130 02/17/93	UT45 GEO	B 9. 11
ISI-11B Residual Ht Removal	RHBJ-31 Pipe-to-Pipe	92-029R1 12/29/92	MT NAD	B 9. 11 Linear; Re-Work SAT.
ISI-11B Residual Ht Removal	RHBJ-31 Pipe-to-Pipe	92-030 12/28/92	UT45 NAD	B 9. 11
ISI-11B Residual Ht Removal	RHBJR- 4 Reducer-to-Pipe	93-105 02/16/93	PT NAD	B 9. 11 Refer to report #93-226.
ISI-11B Residual Ht Removal	RHBJR- 4 Reducer-to-Pipe	93-226 03/05/93	PT NAD	B 9. 12 LS U&D Refer to report #93-105.
ISI-11B Residual Ht Removal	RHBJR- 4 Reducer-to-Pipe	93-175 02/22/93	UT45 NAD	B 9. 10 LS U&D
ISI-11B Residual Ht Removal	RHBJR- 9 Pipe-to-Branch	93-097 02/16/93	MT NAD	B 9. 31
ISI-11B Residual Ht Removal	RHBJR- 9 Pipe-to-Branch	93-139 02/18/93	UT45 NAD	B 9. 31

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ISO System	Item Item Description	Report Number Exam Date	Method Results	ASME Section XI Item Remarks
ISI-11B Residual Ht Removal	RHBJR-10 Branch-to-Flange	93-098 02/16/93	MT NAD	B 9. 11
ISI-11B Residual Ht Removal	RHBJR-10 Branch-to-Flange	93-172 02/22/93	UT45 NAD	B 9. 11
ISI-11B Residual Ht Removal	RHBJR-18 Elbow-to-Pipe	93-099 02/16/93	MT NAD	B 9. 11
ISI-11B Residual Ht Removal	RHBJR-18 Elbow-to-Pipe	93-129 02/17/93	UT45 GEO	B 9. 11
ISI-11B Residual Ht Removal	RHBKR-10 Snubber	93-072 02/14/93	VT3 NAD	B11. 10 Refer to report #93-218.
ISI-11B Residual Ht Removal	RHBKR-10 Snubber	93-218 03/02/93	VT3 NAD	B11. 10 Refer to report #93-072.
ISI-11B Residual Ht Removal	RHBKR-12 Snubber	93-221 03/02/93	VT3 NAD	B11. 10
ISI-11C Residual Ht Removal	A010-46A Valve Internals	93-219 03/02/93	VT3 NAD	B12. 40
ISI-11C Residual Ht Removal	FLG @ RHCJR- 9 Flange bolting	93-115 02/17/93	VT1 NAD	B. 7. 50
ISI-11C Residual Ht Removal	FLG @ RHCJR-21 Flange Bolting	93-116R 03/04/93	VT1 NAD	B 7. 50 Loose Bolt; Re-Work SAT.
ISI-11C Residual Ht Removal	MO-2014 Valve Internals	93-215 03/01/93	VT3 NAD	B12. 40
ISI-11C Residual Ht Removal	RHCFR- 6 Pipe-to-Pipe	93-107 02/16/93	PT NAD	B 9. 11
ISI-11C Residual Ht Removal	RHCFR- 6 Pipe-to-Pipe	93-178 02/23/93	UT45 NAD	B 9. 10 LS D
ISI-11C Residual Ht Removal	RHCFR-24 Pipe-to-Valve	93-108 02/16/93	PT NAD	B 9. 11
ISI-11C Residual Ht Removal	RHCFR-24 Pipe-to-Valve	93-138 02/18/93	UT45 NAD	B 9. 11
ISI-11C Residual Ht Removal	RHCJ-32 Pipe-to-Pipe	92-031 01/07/93	MT NAD	B 9. 11
ISI-11C Residual Ht Removal	RHCJ-32 Pipe-to-Pipe	92-032 01/07/93	UT45 GEO	B 9. 11
ISI-11C Residual Ht Removal	RHCJR- 7 Valve-to-Pipe	93-145 02/20/93	MT NAD	B 9. 11
ISI-11C Residual Ht Removal	RHCJR- 7 Valve-to-Pipe	93-162 02/21/93	UT45 NAD	B 9. 11
ISI-11C Residual Ht Removal	RHCKR-17A Spring Support	93-074 02/14/93	VT3 NAD	B11. 10
ISI-11C Residual Ht Removal	RHCKR-24 Spring Support	93-075 02/14/93	VT3 NAD	B11. 10
ISI-11D Residual Ht Removal	RHDJ- 9 Pipe-to-Pipe	93-110 02/15/93	MT NAD	B 9. 11

Monticello Nuclear Generating Plant
 Old Highway 152
 Monticello, MN 55362

Northern States Power Company
 414 Nicollet Mall
 Minneapolis, MN 55401

Inservice Inspection Report Log
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ISO System	Item Item Description	Report Number Exam Date	Method Results	ASME Section XI Item Remarks
ISI-11D Residual Ht Removal	RHDJ- 9 Pipe-to-Pipe	93-119 02/16/93	UT45 NAD	B 9. 11
ISI-11D Residual Ht Removal	RHDJ-13 Pipe-to-Elbow	93-111 02/15/93	MT NAD	B 9. 11
ISI-11D Residual Ht Removal	RHDJ-13 Pipe-to-Elbow	93-120 02/16/93	UT45 GEO	B 9. 11
ISI-11D Residual Ht Removal	RHDJ-18 Valve to Pipe	93-125 02/17/93	MT NAD	B 9. 11
ISI-11D Residual Ht Removal	RHDJ-18 Valve to Pipe	93-126 02/17/93	UT45 NAD	B 9. 11
ISI-11D Residual Ht Removal	RHDJ-26 Pipe-to-Pipe	92-033 12/11/92	MT NAD	B 9. 11
ISI-11D Residual Ht Removal	RHDJ-26 Pipe-to-Pipe	92-034 12/11/92	UT45 GEO	B 9. 11
ISI-11D Residual Ht Removal	RHDK-29 Strut Hanger	92-006 12/11/92	VT3 NAD	B11. 10
ISI-11E RHR Equalizer	RHEJR- 7 Pipe-to-Elbow	93-100 02/16/93	MT NAD	B 9. 11
ISI-11E RHR Equalizer	RHEJR- 7 Pipe-to-Elbow	93-124 02/16/93	UT45 GEO	B 9. 11
ISI-11E RHR Equalizer	RHEJR-10 Elbow-to-Pipe	93-101 02/16/93	MT NAD	B 9. 11
ISI-11E RHR Equalizer	RHEJR-10 Elbow-to-Pipe	93-123 02/16/93	UT45 GEO	B 9. 11
ISI-11E RHR Equalizer	RHEJR-16 Elbow-to-Pipe	93-102 02/16/93	MT NAD	B 9. 11
ISI-11E RHR Equalizer	RHEJR-16 Elbow-to-Pipe	93-132 02/17/93	UT45 NAD	B 9. 11
ISI-11E RHR Equalizer	RHEJR-32 Pipe-to-Elbow	93-103 02/16/93	MT NAD	B 9. 11
ISI-11E RHR Equalizer	RHEJR-32 Pipe-to-Elbow	93-131 02/17/93	UT45 GEO	B 9. 11
ISI-11E RHR Equalizer	RHEKR-23 Spring Hanger	93-086 02/14/93	VT3 NAD	B11. 10
ISI-11E RHR Equalizer	RHEKR-25 Snubber	93-087 02/14/93	VT3 NAD	B11. 10 Refer to report #93-220.
ISI-11E RHR Equalizer	RHEKR-25 Snubber	93-220 03/02/93	VT3 NAD	B11. 10 Refer to report #93-087.
ISI-12 RCIC Steam	RSAJ-17 Pipe-to-Pipe	93-043 02/01/93	MT NAD	B 9. 21
ISI-12 RCIC Steam	RSAJ-17 Pipe-to-Pipe	93-046 02/01/93	UT45 NAD	B 9. 21
ISI-13A Recirculation A	FLG @ RCAJR-18 Flange Bolting @ W18	93-217 03/02/93	VT1 NAD	B 7. 50

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ISI-13A Recirculation A	RCAJR-24 Pipe-to-Tee	93-137 02/18/93	PT NAD	B 9. 10 Long Seam Up & Down
ISI-13A Recirculation A	RCAJR-24 Pipe-to-Tee	93-173 02/19/93	UT45 GEO	B 9. 10 Long Seam Up & Down
ISI-13A Recirculation A	RCAKR-34 Welded Attachment	93-136 02/18/93	PT NAD	B10. 10
ISI-13A Recirculation A	RCAKR-34 Restraint	93-104 02/15/93	VT3 NAD	IWF
ISI-13Ash2 Recirculation A	PSSAR- 4A Snubber	93-088 02/14/93	VT3 NAD	B11. 20
ISI-13Ash2 Recirculation A	PSSAR- 5 Snubber	93-071 02/14/93	VT3 NAD	B11. 20
ISI-13Ash2 Recirculation A	RCAKR-22 Welded Attachment	93-185 02/24/93	PT NAD	B10. 20
ISI-13Ash2 Recirculation A	RCAKR-22 Pump Support-Snubber	93-147 02/19/93	VT3 NAD	B11. 20
ISI-13Ash2 Recirculation A	RCAKR-22A Restraint	93-148 02/19/93	VT3 NAD	B11. 20
ISI-13Ash2 Recirculation A	RCAKR-24A Welded Attachment	93-205 02/26/93	PT NAD	B10. 20
ISI-13Ash2 Recirculation A	RCAKR-24A Pump Support-Snubber	93-149 02/19/93	VT3 NAD	B11. 20
ISI-13Ash2 Recirculation A	RCAKR-24B Pump Support	93-206 02/26/93	PT NAD	B10. 20
ISI-13Ash2 Recirculation A	RCAKR-24B Pump Support-Snubber	93-150 02/19/93	VT3 NAD	B11. 20
ISI-13B Recirculation B	MO2- 43B Valve bolting	93-146 02/19/93	VT1 NAD	B 7. 70
ISI-13B Recirculation B	RCBFR- 2 Nozzle-to-Safe End	93-176 02/23/93	PT NAD	B 5. 10
ISI-13B Recirculation B	RCBFR- 2 Nozzle-to-Safe End	93-179 02/23/93	UT45 NAD	B 5. 10
ISI-13B Recirculation B	RCBJR- 3 Safe End-to-Pipe	93-177 02/23/93	PT NAD	B 5. 50
ISI-13B Recirculation B	RCBJR- 3 Safe End-to-Pipe	93-180 02/23/93	UT45 NAD	B 5. 50
ISI-13B Recirculation B	RCBKR-27 Double Constant Supp	93-174 02/22/93	VT3 NAD	B11. 30
ISI-13BSh2 Recirculation B	PSSBR- 4A Snubbers and Lugs	93-151 02/19/93	VT3 NAD	B11. 20
ISI-13BSh2 Recirculation B	PSSBR- 4B Snubbers and Lugs	93-152 02/19/93	VT3 NAD	B11. 20
ISI-13BSh2 Recirculation B	RCBKR-25 Snubbers and Lugs	93-153 02/19/93	VT3 NAD	B11. 20

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ISI-13C Recirc Manifold A	RMAKR- 6A Snubber	93-091 02/14/93	VT3 NAD	B11. 10
ISI-13C Recirc Manifold A	RMAKR-13 Welded Attachment	93-186 02/24/93	PT NAD	B10. 10
ISI-13C Recirc Manifold A	RMAKR-13B Welded Attachment	93-207 02/26/93	PT NAD	B10. 10
ISI-13C Recirc Manifold A	RMAKR-13B Snubber	93-089 02/14/93	VT3 NAD	B11. 10
ISI-13C Recirc Manifold A	RRFFR- 2 Safe End-to-Nozzle	93-165 02/20/93	PT NAD	B 9. 11
ISI-13C Recirc Manifold A	RRFFR- 2 Safe End-to-Nozzle	93-166 02/21/93	UT45 NAD	B 9. 11
ISI-13C Recirc Manifold A	RRFJR- 4 Pipe-to-Pipe	93-142 02/19/93	PT NAD	B 9. 10 Long Seam Up
ISI-13C Recirc Manifold A	RRFJR- 4 Pipe-to-Pipe	93-157 02/18/93	UT45 NAD	B 9. 10 Long Seam Up
ISI-13C Recirc Manifold A	RRFJR- 5 Elbow-to-Pipe	93-143 02/19/93	PT NAD	B 9. 10 Long Seam Up
ISI-13C Recirc Manifold A	RRFJR- 5 Elbow-to-Pipe	93-156 02/18/93	UT45 NAD	B 9. 10 Long Seam Up
ISI-13C Recirc Manifold A	RRKFR- 2 Safe End-to-Nozzle	93-181 02/23/93	PT NAD	B 9. 11
ISI-13C Recirc Manifold A	RRKFR- 2 Safe End-to-Nozzle	93-197 02/23/93	UT45 NAD	B 9. 11
ISI-13C Recirc Manifold A	RRKJR- 3 Pipe-to-Safe End	93-182 02/23/93	PT NAD	B 9. 11
ISI-13C Recirc Manifold A	RRKJR- 3 Pipe-to-Safe End	93-198 02/23/93	UT45 GEO	B 9. 11
ISI-13C Recirc Manifold A	RRKKR- 6 Restraint	93-090 02/14/93	VT3 NAD	B11. 10
ISI-13D Recirc Manifold B	RMBKR- 6 Restraint	93-093 02/14/93	VT3 NAD	B11. 10
ISI-13D Recirc Manifold B	RMBKR- 6A Snubber	93-094 02/14/93	VT3 NAD	B11. 10
ISI-13D Recirc Manifold B	RRAFR- 2 Safe End-to-Nozzle	93-183 02/23/93	PT NAD	B 5. 10
ISI-13D Recirc Manifold B	RRAFR- 2 Safe End-to-Nozzle	93-199 02/23/93	UT45 NAD	B 5. 10
ISI-13D Recirc Manifold B	RRAKR- 6 Restraint	93-092 02/14/93	VT3 NAD	B11. 10
ISI-13D Recirc Manifold B	RRBFR- 2 Safe-End-to-Nozzle	93-203 02/25/93	PT NAD	B 5. 10
ISI-13D Recirc Manifold B	RRBFR- 2 Safe-End-to-Nozzle	93-208 02/25/93	UT45 NAD	B 5. 10

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ISI-13D Recirc Manifold B	RRBJR- 3 Pipe-to-Safe End	93-204 02/25/93	PT NAD	B 9. 11
ISI-13D Recirc Manifold B	RRBJR- 3 Pipe-to-Safe End	93-210 02/25/93	UT45 GEO	B 9. 11
ISI-13D Recirc Manifold B	RRBJR- 4 Pipe-to-Pipe	93-083 02/15/93	PT NAD	B 9. 10 Long Seam Down
ISI-13D Recirc Manifold B	RRBJR- 4 Pipe-to-Pipe	93-085 02/15/93	UT45 NAD	B 9. 10 Long Seam Down
ISI-13D Recirc Manifold B	RRBJR- 5 Branch-to-Pipe	93-082 02/15/93	PT NAD	B 9. 10 Long Seam Up
ISI-13D Recirc Manifold B	RRBJR- 5 Branch-to-Pipe	93-084 02/15/93	UT45 NAD	B 9. 10 Long Seam Up
ISI-13D Recirc Manifold B	RRCFR- 2 Safe End-to-Nozzle	93-202 02/25/93	PT NAD	B 9. 11
ISI-13D Recirc Manifold B	RRCFR- 2 Safe End-to-Nozzle	93-209 02/25/93	UT45 NAD	B 9. 11
ISI-15 Head Vent	HVAK-38 Clamp	93-154 02/19/93	VT3 NAD	B11. 10
ISI-23 MS Condensate Lkoff	CLAJ- 8 Head-to-Pipe	93-044 02/01/93	MT NAD	B 9. 21
ISI-24A CRD Scram Header A	Bolts @ CDAJ- 1 Flange Bolts	92-002R 03/11/93	VT1 NAD	B 7. 50 Thread Engagement; Re-Work SAT.
ISI-24A CRD Scram Header A	Bolts @ CDAJ-18 Flange Bolts	92-003 12/08/92	VT1 NAD	B 7. 50
ISI-24A CRD Scram Header A	Bolts @ CDAJ-36 Flange Bolts	92-004 12/09/92	VT1 NAD	B 7. 50
ISI-24B CRD Scram Header B	Bolts @ CDBJ- 1 Flange Bolts	92-017 01/07/93	VT1 NAD	B 7. 50
ISI-24B CRD Scram Header B	Bolts @ CDBJ-15 Flange Bolts	92-019R 03/12/93	VT1 NAD	B 7. 50 Thread Engagement; Re-Work SAT.
ISI-24B CRD Scram Header B	Bolts @ CDBJ-28 Flange Bolts	92-018 01/07/93	VT1 NAD	B 7. 50
ISI-31A HPCI Water Side Sctn	239 Elbow-to-Pipe	93-007R 01/21/93	MT NAD	C 5. 11 Linear; Re-Work SAT.
ISI-31A HPCI Water Side Sctn	239 Elbow-to-Pipe	93-063 02/09/93	UT45 NAD	NRC Commitment Linear indication. Accept by Eval.
ISI-34A Core Spray A Disch	676 Flange-to-Reducer	93-002 01/18/93	MT NAD	C 5. 11
ISI-34A Core Spray A Disch	676 Flange-to-Reducer	93-061 02/09/93	UT45 NAD	NRC Commitment
ISI-34A Core Spray A Disch	CSAJ-27 Elbow-to-Valve	93-023 01/26/93	MT NAD	C 5. 11
ISI-34A Core Spray A Disch	CSAJ-27 Elbow-to-Valve	93-035 01/27/93	UT45 NAD	NRC Commitment

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ISI-34A Core Spray A Disch	CSAJ-28 Pipe-to-Elbow	93-017 01/22/93	MT NAD	C 5. 11
ISI-34A Core Spray A Disch	CSAJ-28 Pipe-to-Elbow	93-034 01/27/93	UT45 GEO	NRC Commitment
ISI-34A Core Spray A Disch	CSAJ-29 Elbow-to-Pipe	93-018 01/22/93	MT NAD	C 5. 11
ISI-34A Core Spray A Disch	CSAJ-29 Elbow-to-Pipe	93-033 01/27/93	UT45 NAD	NRC Commitment
ISI-34A Core Spray A Disch	CSAJ-30 Pipe-to-Elbow	93-019R 01/26/93	MT NAD	C 5. 11 Linear; Re-Work SAT.
ISI-34A Core Spray A Disch	CSAJ-30 Pipe-to-Elbow	93-032 01/27/93	UT45 NAD	NRC Commitment
ISI-34A Core Spray A Disch	CSAJ-32 Valve-to-Pipe	93-024 01/26/93	MT NAD	C 5. 11
ISI-34A Core Spray A Disch	CSAJ-32 Valve-to-Pipe	93-031 01/27/93	UT45 GEO	NRC Commitment
ISI-34A Core Spray A Disch	CSAJ-33 Reducer-to-Valve	93-022 01/26/93	MT NAD	C 5. 11
ISI-34A Core Spray A Disch	CSAJ-33 Reducer-to-Valve	93-030 01/27/93	UT45 GEO	NRC Commitment
ISI-35A Core Spray B Disch	CSBJ-24 Elbow-to-Valve	93-012 01/22/93	MT NAD	C 5. 11
ISI-35A Core Spray B Disch	CSBJ-24 Elbow-to-Valve	93-021 01/25/93	UT45 NAD	NRC Commitment Linear indication. Accept by Eval.
ISI-35A Core Spray B Disch	CSBJ-25 Elbow-to-Valve	93-013 01/22/93	MT NAD	C 5. 11
ISI-35A Core Spray B Disch	CSBJ-25 Elbow-to-Valve	93-025 01/26/93	UT45 NAD	NRC Commitment
ISI-35A Core Spray B Disch	CSBJ-26 Elbow-to-Pipe	93-008R 01/21/93	MT NAD	C 5. 11 Linear; Re-Work SAT.
ISI-35A Core Spray B Disch	CSBJ-26 Elbow-to-Pipe	93-016 01/22/93	UT45 GEO	NRC Commitment
ISI-35A Core Spray B Disch	CSBJ-27 Pipe-to-Elbow	93-224 03/05/93	MT NAD	C 5. 11
ISI-35A Core Spray B Disch	CSBJ-27 Pipe-to-Elbow	93-225 03/05/93	UT45 GEO	NRC Commitment
ISI-35A Core Spray B Disch	CSBJ-29 Valve-to-Pipe	93-010 01/21/93	MT NAD	C 5. 11
ISI-35A Core Spray B Disch	CSBJ-29 Valve-to-Pipe	93-015 01/22/93	UT45 NAD	NRC Commitment
ISI-35A Core Spray B Disch	CSBJ-30 Reducer-to-Valve	93-009 01/21/93	MT NAD	C 5. 11
ISI-35A Core Spray B Disch	CSBJ-30 Reducer-to-Valve	93-014 01/22/93	UT45 NAD	NRC Commitment

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ISI-40 RHR Suction A	10 Tee-to-Pipe	92-021 01/11/93	MT NAD	C 5. 11
ISI-40 RHR Suction A	354 Reducer-to-Tee	92-040 03/03/93	MT NAD	C 5. 11
ISI-40 RHR Suction A	931 Elbow-to-Pipe	92-022 01/12/93	MT NAD	C 5. 11
ISI-40 RHR Suction A	931 Elbow-to-Pipe	92-037 02/05/93	UT45 GEO	NRC Commitment
ISI-40 RHR Suction A	TWH- 6A Strut	93-223 03/05/93	VT3 NAD	C 3. 50
ISI-42 RHR Suction B	18 Elbow-to-Pipe	92-035 12/15/92	MT NAD	C 5. 11
ISI-42 RHR Suction B	18 Elbow-to-Pipe	92-036 12/17/92	UT45 NAD	NRC Commitment
ISI-42 RHR Suction B	25 Elbow-to-Pump	93-006 01/19/93	MT NAD	C 5. 11
ISI-42 RHR Suction B	25 Elbow-to-Pump	93-003 01/19/93	UT45 NAD	NRC Commitment
ISI-42 RHR Suction B	307 Elbow-to-Elbow	93-005 01/19/93	MT NAD	C 5. 11
ISI-42 RHR Suction B	307 Elbow-to-Elbow	93-004 01/19/93	UT45 NAD	NRC Commitment
ISI-43 RHR Discharge B	1 Pump-to-Elbow	92-007R 12/16/92	MT NAD	C 5. 11 Linear; Re-Work SAT.
ISI-43 RHR Discharge B	333 Pipe-to-Elbow	92-023 12/17/92	MT NAD	C 5. 11
ISI-43 RHR Discharge B	RHR- 2 Elbow-to-Pipe	92-012R1 02/04/93	MT NAD	C 5. 11 Linear; Re-Work SAT.
ISI-43 RHR Discharge B	RHR- 2 Elbow-to-Pipe	92-039 02/13/93	UT45 NAD	NRC Commitment
ISI-43 RHR Discharge B	RHR- 3 Pipe-to-Elbow	92-011R 12/30/92	MT NAD	C 5. 11 Linear; Re-Work SAT/
ISI-43 RHR Discharge	TWH- 91 Spring Hanger	92-024 12/17/92	VT3 NAD	C 3. 50
ISI-43 RHR Discharge	TWH- 93 Spring Hanger	92-025R 03/18/93	VT3 NAD	C 3. 50 Thread Engagement; Re-Work SAT.
ISI-43 RHR Discharge B	TWH- 95 Spring Hanger	92-014 12/31/92	VT3 NAD	C 3. 50
ISI-43 RHR Discharge B	TWH- 95 Spring Hanger	93-059 02/08/93	VT3 NAD	C 3. 50
ISI-43 RHR Discharge B	TWH- 95A Restraint	92-013 12/31/92	VT3 NAD	C 3. 50
ISI-43 RHR Discharge B	TWH- 96 Hanger	93-001 01/14/93	VT3 NAD	C 3. 50

Monticello Nuclear Generating Plant
 Old Highway 152
 Monticello, MN 55362

Northern States Power Company
 414 Nicollet Mall
 Minneapolis, MN 55401

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ISI-43 RHR Discharge B	TWH- 98A Hanger	92-010 12/28/92	VT3 NAD	C 3. 50 See report. (DRR # MO-93-78)
ISI-43 RHR Discharge B	TWH- 99 Hanger	92-009 12/28/92	VT3 NAD	C 3. 50
ISI-44 Containment Spray	20 Elbow-to-Pipe	92-001R 12/10/92	MT NAD	C 5. 11 Re-examined after rework.
ISI-44 Containment Spray	20 Elbow-to-Pipe	93-069 02/13/93	UT45 GEO	NRC Commitment
ISI-44 Containment Spray	510 Tee-to-Pipe	92-020 01/08/93	MT NAD	C 5. 11
ISI-44 Containment Spray	513 Pipe-to-Reducer	93-054R 02/04/93	MT NAD	C 5. 11 Linear; Re-Work SAT.
ISI-44 Containment Spray	513 Pipe-to-Reducer	93-057 02/03/93	UT45 NAD	NRC Commitment
ISI-44 Containment Spray	711 Elbow-to-Pipe	92-038 02/09/93	MT NAD	C 5. 11
ISI-44 Containment Spray	CS- 6 Tee-to-Pipe	92-008R 12/16/92	MT NAD	C 5. 11 Linear; Re-Work SAT.
ISI-44 Containment Spray	CS- 6 Tee-to-Pipe	93-038 01/28/93	UT45 NAD	NRC Commitment
ISI-44 Containment Spray	CS- 7 Pipe-to-Reducer	92-005 12/09/92	MT NAD	C 5. 11
ISI-44 Containment Spray	CS- 7 Pipe-to-Reducer	92-026 01/26/93	UT45 GEO	NRC Commitment
ISI-50 RHR Heat Exchanger B	SUPP A-B Support A,E200B 0°	92-015 12/31/92	VT3 NAD	C 3. 20 See report. (DRR # MO-93-78)
ISI-50 RHR Heat Exchanger B	SUPP B-B Support B,E200B 180°	92-016 12/31/92	VT3 NAD	C 3. 20 See report. (DRR # MO-93-78)
New Fig 2 CRD Housings	02-27 (Lower) CRD Housing Weld	93-064 02/13/93	PT NAD	B14. 10
New Fig 2 CRD Housings	02-27 (Lower) CRD Housing Weld	93-076 02/13/93	UT45 GEO	B14. 10
New Fig 2 CRD Housings	02-27 (Upper) CRD Housing Weld	93-080 02/15/93	PT NAD	B14. 10
New Fig 2 CRD Housings	02-27 (Upper) CRD Housing Weld	93-161 02/19/93	UT45 NAD	B14. 10
New Fig 2 CRD Housings	02-31 (Lower) CRD Housing Weld	93-065 02/13/93	PT NAD	B14. 10
New Fig 2 CRD Housings	02-31 (Lower) CRD Housing Weld	93-077 02/13/93	UT45 GEO	B14. 10
New Fig 2 CRD Housings	02-31 (Upper) CRD Housing Weld	93-079 02/15/93	PT NAD	B14. 10
New Fig 2 CRD Housings	02-31 (Upper) CRD Housing Weld	93-160 02/19/93	UT45 NAD	B14. 10