

August 7, 2009

L-MT-09-078 10 CFR 50.55a

U.S. Nuclear Regulatory Commission ATTN: Document Control Desk Washington, D.C. 20555

Monticello Nuclear Generating Plant Docket 50-263 Renewed Facility Operating License No. DPR-22

Cycle No. 24 Inservice Inspection Summary Report for Inservice Inspection and ASME Section XI Repairs and Replacements

Pursuant to 10 CFR 50.55a and Subsection IWA, Paragraph IWA-6240 of the American Society of Mechanical Engineers (ASME) Boiler and Pressure Vessel Code, Section XI, 1995 Edition, with the 1996 Addenda, the Northern States Power Company – a Minnesota corporation (NSPM), submits the Cycle No. 24 Inservice Inspection (ISI) Summary Report for ISI and ASME Section XI Repairs and Replacements completed between April 28, 2007, to May 10, 2009.

Pursuant to ASME Section XI, Subsection IWB, Paragraph IWB-3144(b), evaluation analysis results are being submitted for components that were accepted for continued service in accordance with IWB-3142.4.

This summary report also provides amended information to the previously submitted Cycle Nos. 21, 22, and 23 ISI Summary Reports, including supplemental NIS-1 Forms, an NIS-1 attachment, and supplemental NIS-2 Forms.

Enclosure 1 provides a copy of the Cycle No. 24 Inservice Inspection Summary Report, which includes the above discussed changes.

Summary of Commitments

No new commitments or changes to any existing commitments are proposed by this letter.

AD41 NRR

Document Control Desk L-MT-09-078 Page 2 of 2

I declare under penalty of perjury that the foregoing is true and correct. Executed on August ___, 2009.

Timothy J./O Connor

Site Vice President, Monticello Nuclear Generating Plant Northern/States Power Company – Minnesota

Enclosure

 Administrator, Region III, USNRC (2 copies of enclosure) Project Manager, Monticello, USNRC (1 copy of enclosure) Resident Inspector, Monticello, USNRC (1 copy of enclosure) Mr. Joel Amato, Chief Boiler Inspector, State of Minnesota (1 copy of enclosure) Mr. Paul Fisher, Hartford Insurance (1 copy of enclosure) **ENCLOSURE 1**

NORTHERN STATES POWER COMPANY MONTICELLO NUCLEAR GENERATING PLANT DOCKET 50-263

INSERVICE INSPECTION SUMMARY REPORT CYCLE NO. 24 REFUELING OUTAGE



Xcel Energy, Inc. Northern States Power Co. - Minnesota 414 Nicollet Mall Minneapolis, MN 55401

INSERVICE INSPECTION

SUMMARY REPORT

Monticello Nuclear Generating Plant Unit 1 2807 West County Road 75 Monticello, MN 55362

Commercial Service Date: June 30, 1971

 Cycle No. 24 Refueling Outage

 Outage Dates: March 14, 2009 to May 10, 2009

 Inservice Inspection Interval 4. Period 2

 Inservice Inspection Interval 4. Period 3

 Inservice Inspection Interval 4. Period 3

 Inservice Inse

Report Date: August 6, 2009

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I. Summary

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1.0 Introduction

This report encompasses all Inservice Inspection (ISI) activities performed during Unit 1 Cycle 24 of operation at Monticello Nuclear Generating Plant (MNGP). Cycle 24 began April 28, 2007, immediately following completion of the 23rd refueling outage. This report also includes activities performed during the 24th refueling outage that began March 14, 2009 and concluded on May 10, 2009.

All examinations and tests for Cycle 24 were scheduled and conducted in accordance with the 4th Interval ISI Plan. The exams and tests were credited to the 2nd period of the 4th ISI Interval, as applicable.

Also included in this report is supplemental information for the Cycle 23 ISI Summary Report submitted in July 2007, the Cycle 22 ISI Summary Report submitted in July 2005, and the Cycle 21 Summary Report submitted in August 2003.

2.0 Personnel

Visual and nondestructive examinations for inservice inspection (ISI) and preservice inspection (PSI) activities were performed by Nuclear Management Company (NMC) / Northern States Power Company of Minnesota (NSPM), Lambert-MacGill-Thomas (LMT), International Quality Consultants (IQC), Inc., TEAM, and AREVA-NP. Hartford Steam Boiler Inspection & Insurance Co. of Connecticut (HSB-CT) provided the Authorized Inspection. Personnel certification records are maintained by NSPM.

3.0 Examination Reports, Equipment and Materials

The examination reports listed in the attached appendices contain references to procedures, equipment, and materials used to complete specific examinations. Records of the reports and referenced information are maintained by NSPM.

4.0 Inspection Summary

In accordance with the 4th Interval ISI Plan and approved ISI Relief Request #1, Class 1 and 2 piping welds were examined using methodologies applicable to Risk-Informed ISI (RI-ISI). The remainder of the components and their supports were examined per the requirements set forth in American Society of Mechanical Engineers (ASME) Boiler and Pressure Vessel Code, Section XI.

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Page 2 of 5

Comprehensive in-vessel visual inspections (IVVI) of reactor vessel internal components were conducted to ensure continued integrity of the Reactor Pressure Vessel (RPV) internals. Additionally, enhanced visual inspections (EVT-1) were performed per the recommendations set forth in Boiling Water Reactor Vessel Internals Project (BWRVIP) guideline BWRVIP-03.

Examinations performed during Cycle 24 are listed in attached appendices. Code Case N-460, which allows a reduction of examination volume coverage <10% to be considered essentially 100%, was applied to exams where coverage was reduced due to interference or part geometry. These limitations are recorded on the examination reports.

Components with exam limitations that did not meet the required coverage requirements of essentially 100% will be included in a 10CFR50.55a request for relief under separate cover.

Results of the Class 1 and 2 ISI and PSI examinations, identified conditions, and corrective actions are noted and summarized in the attached appendices. Listed anomalies were either corrected, or an engineering evaluation was performed to accept "as-is" conditions.

Results of system pressure tests and snubber functional tests performed during Cycle 24 are summarized in attached appendices.

Repair-replacement activities for Cycle 24 were performed to the requirements of 4th ISI Interval Relief Request #7 which is based on ASME Section XI, 2001 Edition with no Addenda as approved by the Nuclear Regulatory Commission (NRC). A summary of the activities and copies of the NIS-2 forms are attached to this report in the applicable appendix.

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During Cycle 24, an audit of Cycle 23's ANII activities identified an editorial error on an NIS-2 form (2007-23-0070) and an editorial error on the NIS-1 Attachment (Appendix A) submitted previously with the Cycle 23 ISI Summary Report in July 2007. This condition was identified subsequent to submittal of the Cycle 23 ISI Summary Report. As part of the corrective action process, the corrected NIS-2 form and NIS-1 Attachment are included in this Summary Report.

Additionally, a corrective action was written against an installed safety relief valve that was determined to contain a non-conforming weld condition on an internal component (RV-2-71H with topworks s/n 194). The condition was corrected by removal of the valve during the Cycle 24 outage under work order 344394. As part of the corrective action process, the applicable NIS-2 forms from Cycle 21 and 22 are resubmitted referencing the condition.

In conclusion, based on the results of the Cycle 24 ISI activities, the integrity of the plant systems has been adequately maintained.

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5.0 List of Abbreviations

The Summary Report Examination Appendices contains several abbreviations identified below (plant component identifiers, and standard Section XI identifiers are not included in list):

		Augmented Exam Program
		Bolt (plus number identifier)
BWRVIP		e
		Corrective Action
CAP		Corrective Action Process
CE		Condition Evaluation
CRD		Control Rod Drive
CRDMs	=	CRD Mechanisms
		Long Seam Downstream of Circ Weld
DC / EC	=	Design / Engineering Change
DS	=	Downstream
EDG	=	Emergency Diesel Generator
EFT	=	Emergency Filtration Train
EPU	=	Extended Power Uprate
EVT	=	Enhanced Visual Examination
EDG-ESW	=	EDG Emergency Service Water
ESW	=	Emergency Service Water
FSW	=	EFT Emergency Service Water
		Geometry / Geometric Reflector
Н-	=	Hanger (plus number identifier)
HELB	=	
ISO	=	ISI Isometric Drawing
		In-Vessel Visual Inspection
LS	==	Longitudinal Seam
MS	=	Main Steam
MT	=	Magnetic Particle Examination
NC	=	Non-Code Commitment Exam
NRI	=	No Reportable Indications
		Operating Experience
P-	=	Pump (plus number identifier)
PM	=	Preventative Maintenance
PMT	=	Post-Maintenance Testing
PSI	=	Pre-Service Inspection
РТ	=	Liquid Penetrant Examination
PEI		Program Engineering Instruction
RCIC		Reactor Core Isolation Cooling
RF		Refuel
RFO	=	Refueling Outage

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5.0 List of Abbreviations (continued)

RHR = Residual	Heat Removal
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- RHRSW = RHR Service Water (common usage)
 - RI = Reportable Indication
 - RPV = Reactor Pressure Vessel
 - R/R = Repair / Replacement
 - RSW = RHR Service Water
 - Rx = Reactor
 - SW = Service Water
 - U&D = Long Seam Upstream & Downstream of Circ Weld U = Long Seam Upstream of Circ Weld
 - US = Upstream
 - UT = Ultrasonic Examination
 - V- = Valve (plus number identifier)
 - VT = Visual Examination
 - W- = Weld (plus number identifier)
 - WCR = Weld Control Record
 - WO = Work Order

II. Form NIS-1 Information

Page 1 of 2

Form NIS-1 Owner's Data Report for Inservice Inspections As required by the Provisions of the ASME Code Rules

- 1. Owner: Xcel Energy, Inc. / Northern States Power Company Minnesota Address: 414 Nicollet Mall, Mpls, MN 55401
- 2. Plant:
 Monticello Nuclear Generating Plant

 Address:
 Monticello, MN 55362
- 3. Plant Unit: <u>1</u> 4. Owner (Certificate of Authorization): <u>N/A</u>
- 5. Commercial Service Date: <u>6/30/71</u> 6. National Board No. for Unit: <u>N/A</u>
- 7. Components Inspected:

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

(See appendices for components inspected during the cycle)

- 8. Examination Dates: <u>04/28/2007</u> to <u>05/10/2009</u>.
- 9. Inspection Interval: <u>05/01/2003</u> to <u>05/31/2012</u>.
- 10. Applicable Edition of Section XI: <u>1995</u> Addenda: <u>1996</u>.
- 11. Abstract of Examinations. Include a list of examinations and a statement concerning status of work required for current interval.
 - See appendices A through E (Attached)

12. Abstract of Conditions Noted.

- See appendices A through E (Attached)
- 13. Abstract of Corrective Measures Recommended and Taken.
- See appendices A through E (Attached)

II. Form NIS-1 Information

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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) <u>N/A</u> Expiration Date <u>N/A</u>

Date August 6	20 09	Signed	NSPM /	XCEL	ENERGY	By	Findalogen	ŀ
0			Ó	wner		-	Section XI ISI Coordinato	r

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 <u>hightford</u> and employed by <u>Hantford</u> <u>strargouter InJ</u> <u>sf</u> <u>cT</u> of <u>hightford</u> <u>j</u> <u>cT</u> have inspected the components described in this Owner's Report during the period $\frac{4/28}{07}$ to <u>site job</u>, 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.

Inspector's Signature Commissions NB 11863 A NT 14 Hody 28-CO National Roard State Province Endorsem National Board, State, Province, Endorsements

Date <u>Aucusi 6</u> 20 <u>09</u>

III. Form NIS-2 Information

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R/R ITEM NUMBER	WORK DOCUMENT(S)	COMPONENT OR SYSTEM	WORK DESCRIPTION
2007-24-001	WO-141451	RV-1745	Replace existing like for like with new valve
2007-24-002	WO-331287	P-109B	Replace 16 top column flange bolting during pump refurbishment
2007-24-003	WO-331287 EC-11704	P-109B	Machine ID of Stuffing Box during pump refurbishment
2007-24-004	WO-324875	TCV-4030A	Replace existing valve
2007-24-005	WO-293778	P-111A, EDG-ESW Pump #11	Replace P-111A with Rebuilt Spare from stock
2008-24-006	WO-337964	#12 Recirc Pump (P-200B) Stuffing Box Cover	Replacement of stuffing box cover for Recirc Pump #12 due to seal replacement
2008-24-008	WO-354387 EC-12170	A-Loop FSW pipe (Div-1)	Reconfigure piping for future flow meter installation
2008-24-009	WO-354388 EC-12170	B-Loop FSW pipe (Div-2)	Reconfigure piping for future flow meter installation
2008-24-011	WO-354387 EC-12170	A-Loop FSW pipe (Div-1)	Remove temporary blank spool pieces and replace with Krohne 3030 flow meters
2008-24-012	WO-354388 EC-12170	B-Loop FSW pipe (Div-2)	Remove temporary blank spool pieces and replace with Krohne 3030 flow meters
,	WO-326521	SS-PS2-H2	Snubber Changeouts with rebuilt spares from stock
	WO-326522	SS-PS1-H3	
	WO-326527	SS-312-1	
	WO-326528	SS-312-2	-
	WO-326530	SS-PS1-H2	
2008-24-013	WO-326531	SS-6AR	-
	WO-326533	SS-306	
	WO-326577	SS-191	7
	WO-326583	SS-36B	
	WO-326584	SS-36A	
	WO-326592	SS-560	
2008-24-017	WO-140391	FW-97-1	Grind off and restore hinge pin plug seal welds for anti-rotation pin installation

Monticello Nuclear Generating Plant Inservice Inspection

III. Form NIS-2 Information

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R/R ITEM NUMBER	WORK DOCUMENT(S)	COMPONENT OR SYSTEM	WORK DESCRIPTION
	WO-356231	Spare Snubbers (size, s/n)	General R/R Plan to allow replacement of Main Cylinder, Piston, Piston Rings, Piston Rod, Piston Rod Nut, and Manifold. (see NIS-2 for details of components replaced)
		3 Kip, 006A	Mannoid. (see MIS-2 for details of components replaced)
		10 Kip, 403	
		10 Kip, 013	
		10 Kip, 028	
		10 Kip, 033	
		10 Kip, 035	
		10 Kip, 037	
		10 Kip, 040	
		10 Kip, 047	
	Ĩ	10 Kip, 054-1	
		10 Kip, 095	
		10 Kip, 171	-
		10 Kip, 500	
		20 Kip, 021A	
2008-24-019		20 Kip, 099	-
		20 Kip, 105	
		20 Kip, 116	
		20 Kip, 117	
		20 Kip, 119	
		20 Kip, 120	
		20 Kip, 130	ner -
		20 Kip, 152	
		20 Kip, 463	
		30 Kip, 020	
		30 Kip, 005	
		30 Kip, 100	
		30 Kip, 101	
		30 Kip, 468	
		30 Kip, 470	-
		30 Kip, 520	-
		130 Kip, 175	
2008-24-020	WO-319050	P-111D	Replaced existing bowl assembly with new spare; replaced fasteners during refurbishment.

III. Form NIS-2 Information

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R/R ITEM NUMBER	WORK DOCUMENT(S)	COMPONENT OR SYSTEM	WORK DESCRIPTION
2008-24-021	WO-343959	SW-102	Removal and restore disc to nut tackweld to permit disassembly for inspection.
2008-24-022, Rev.1	WO-322606	B Loop FSW Piping	Replace piping and fittings upstream of ESW-31 due to MIC thinning.
2008-24-023	WO-320292	CRDMs	Change out selected drives with refurbished spares
2008-24-024	WO-320292	Cap Screws for CRDMs	Replace 8 cap screws for each drive listed in R/R Plan 2008-24-023.
2008-24-025	WO-343738	CV-1728	Replacement of plug due to integral stem replacement for galling.
2008-24-026	WO-346874	A-Loop, Recirc Piping REW13A- 28"-DCA, 2" DCA branch connection	Replacement of flange associated with Decon coupon removal
2008-24-027	WO-354743	RV-2-71F	Replace Main Stage Disc during refurbishment due to disassembly damage
2008-24-028	WO-355111	MO-1749	Remove tack weld in support of disassembly for stem and actuator replacement
2008-24-029, Rev.1	WO-374028	RHRSW	Replacement of RHRSW piping and associated fittings
2008-24-030	WO-354410	ESW/FSW	Replacement of piping and associated fittings
2008-24-031	WO-364432	Spare MS SRV	Replace Main Stage Disc during refurbishment due to out of spec tolerances
2008-24-032	WO-355111 EC-10869	MO-1749	Replace studs and nuts in support of stem and actuator replacement
2008-24-033	WO-355111 EC-10869	TWH-114	Replace pipe clamp in support of EC-10869 replacement of MO-1749 stem and actuator.
2009-24-035	WO-374028	SR-105 SR-399 SR-469	Support removal / reinstallation associated with piping replacement in R/R Plan 2008-24-029, Rev.1
2009-24-036	WO-362738 EC-11125	TWH-89	Replace existing spring cans in support of EC-11125 for EPU
2009-24-037	WO-362738 EC-11125	SR-113	Modified in support of EC-11125 for EPU. Added bumper plates for additional lateral support.
2009-24-039	WO-362738 EC-11125	TWH-144	Replace existing spring cans in support of EC-11125 for EPU
2009-24-040	WO-380817	RCIC Steam	Temporary removal and installation of pipe due to interference with AO-2-86D work activities.

III. Form NIS-2 Information

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R/R ITEM NUMBER	WORK DOCUMENT(S)	COMPONENT OR SYSTEM	WORK DESCRIPTION
2009-24-041	WO-359136	MO-2036	Replaced bonnet fastener due to disassembly damage
2009-24-042	WO-344367	Primary Containment	Replace 1 nut, (and 15 washer sets) for the Drywell Head due to normal wear.
2009-24-043	WO-381681	ESW	Reroute piping in steam chase and condenser room for HELB.
2009-24-044	WO-380817	AO-2-86D	Replace 3 studs and 20 nuts damaged during disassembly in support of valve maintenance activities
2009-24-045	WO-380817	AO-2-86D	Replace downstream welded seat ring insert due to damage from flow related disc contact
2009-24-046	WO-381724	RHRSW-A SW9-18"-GF	Replace RHRSW-A due to MIC thinning.
2009-24-047	WO-383235 EC-14055	RHRSW-B SW10-18"-GF	Weld overlay (2) defective RHRSW-B in tunnel to intake and turbine building per Code Case N-661 due to MIC thinning
2009-24-048	WO-381679 EC-9174	Main Steam	Replace defective Strain Gauges
2009-24-049	WO-380817	AO-2-86D	Replace disc like-for-like due to flow related damage.
2009-24-050	WO-316178 EC-12841	RHRSW-B BS-1952	Weld buildup and machining of basket strainer flange & cover sealing surfaces due to corrosion.
2009-24-051	WO-326530	Snubber PS1-H2	Replace misplaced snubber attachment bolting
2009-24-052	WO-381679 WO-383608	Main Steam	Removed surface indication identified during strain gauge replacement.
2009-24-053	WO-381707 EC-14055	RHRSW-A SW9-18"-GF	Weld overlay defective RHRSW-A above RCIC room per Code Case N-661 due to MIC thinning.
2009-24-054	WO-381724	SR-451 SR-452 SR-453 SR-454 SR-455	Shim the supports to restore the pipe-to-support clearances required by the design following replacement of pipe due to MIC thinning.
2009-24-055, Rev.1	WO-381724-15/16 EC-14190	SW30A-3"-HF	Class 3 boundary change. Previously abandoned in place piping reclassified as non-safety.
2009-24-056	WO-344364	Rx Vessel Closure Head Washer set	Replace potentially damaged spherical washer set like for like

Monticello Nuclear Generating Plant Inservice Inspection Cycle 24 Summary Report 2009 Refueling Outage

III. Form NIS-2 Information

NIS-2 Forms

(119 pages to follow)

1	Owner NSP-Minnesota, an Xcel Energy Company	Date 7/20/2009
	Name	
<u>41</u>	4 Nicollet Mall, Minneapolis, MN 55401	Sheet <u>1</u> of <u>2</u>
2.	Address Plant <u>Monticello Nuclear Generating Plant</u> Name	Unit <u>1</u>
28	807 West County Road 75, Monticello, MN 55362	WO-141451
	Address	Repair Organization P.O. No., Job No. etc.
3.	Work Performed By <u>NSPM / Xcel Energy</u> Company Name	Type Code Symbol Stamp <u>n/a</u> Authorization No. <i>n/a</i>
	2807 West County Rd. 75, Monticello, MN 55362	Expiration Date <i>n/a</i>
	Address	
4.	Identification of System <u>Core Spray (CSP), Class</u>	2
5.	(a) Applicable Construction Code <u>B31.1</u>	, <u>1977E / W ′78A</u> Edition / Addenda
	(b) Applicable Edition of Section XI Used for Repair/F	Replacement Activity <u>2001 Edition, No Addenda</u>
	(c) Applicable Section XI Code Case(s) <u>n/a</u>	

Repair/Replacement Plan No.: 2007-24-001

6. Identification of Components

ASME Code Corrected. Name of Name of Manufacturer National Other Removed, or Stamped Board No. Identification Installed YES Component Manufacturer Serial No. Year Built NO N89658-00- \boxtimes RV-1745 Crosby n/a UV 2003 Removed 0003 N89658-00-UV \boxtimes RV-1745 Crosby 2009 Installed \Box n/a 0004 \square Π

7. Description of Work Replaced existing valve like-for-like with new valve. Year Built is installation date.

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure \boxtimes °F Exempt Other \square Pressure 295 psi Test Temp n/a

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8-1/2 in x 11 in, (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form. (See 4 AWI-09.04.03 [ASME Section XI Repair/Replacement Program] for further documentation guidance.)

Approval: PCR 01148046

- Repair/Replacement Plan No.: 2007-24-001
- 9. Remarks (Applicable Manufacturer's Data Reports to be Attached)

Accepted valve tests from manufacturer.

CERTIFICATE OF COMPLIANCE				
We certify that the statements made in the report are correct and that this con the ASME Code, Section XI.	forms to the requirements of			
Signed SECTION XI ISI COORD Owner or Owner's Designee, Title	Date 7/20/09			

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 <u>Minnesota</u> and employed by <u>Hartford Steam Boiler</u> Insp & Ins Company of Connecticut of <u>Hartford, Connecticut</u> have inspected the components described in this Owner's Report during the period <u>G/G/07</u> to <u>7/23/09</u>, 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 the Owner's Report. Furthermore, neither the Inspector nor his employer **SHALL** be liable in any manner for any personal injury of property damage or a loss of any kind arising from or connected with this inspection.

Inspector's Signature Commissions <u>NB 11863</u> AJN, S MW 204028-Co National Board, Province and Endorsements National Board, Province and Endorsements Date 7/23/09

1.	Owner	NSP-Minnesota, an Xcel Energy Company Name	Date	7/31/2009
<u>41</u>	4 Nicollet	Mall, Minneapolis, MN 55401 Address	Sheet	<u>1</u> of <u>2</u>
2.	Plant	Monticello Nuclear Generating Plant	Unit <u>1</u>	
28	07 West	County Road 75, Monticello, MN 55362	WO-33	1287
		Address	Rep	air Organization P.O. No., Job No. etc.
3.	Work Pe	erformed By <u>NSPM / Xcel Energy</u> Company Name		ode Symbol Stamp <u>n/a</u>
	00071			zation No. <u>n/a</u>
	2807 V	Vest County Rd. 75, Monticello, MN 55362	Expirat	ion Date <u>n/a</u>
		Address		
4.	Identific	ation of System <u>RHR Service Water (RSW)</u> ,	Class 3	· · · · · · · · · · · · · · · · · · ·
5.	(a) Applio	cable Construction Code <u>B31.1</u>		, <u>1977E / W'78A Edition</u> / Addenda

Repair/Replacement Plan No.: 2007-24-002

(b) Applicable Edition of Section XI Used for Repair/Replacement Activity 2001 Edition, No Addenda

(c) Applicable Section XI Code Case(s) <u>n/a</u>

6. Identification of Components

			N - 4 1	Others		Corrected,		Code
Name of	Name of	Manufacturer	National	Other		Removed, or		nped
Component	Manufacturer	Serial No.	Board No.	Identification	Year Built	Installed	YES	NO
Top Column Bolts	Unknown	n/a	n/a	Pump s/n VTP-24769	1967	removed		\boxtimes
Top Colum Bolts	Cardinal	n/a	n/a	Pump s/n VTP-24769	2007	installed		\boxtimes

7. Description of Work Replaced 16 top column bolts due to normal wear.

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8. Tests C	onducted:	Hydrostatic	Pneumatic	Nomina	I Operating Pressure	
Exempt		Other	Pressure	_psi	Test Temp	_°F

<u>NOTE:</u> Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8-1/2 in x 11 in, (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form. (See 4 AWI-09.04.03 [ASME Section XI Repair/Replacement Program] for further documentation guidance.)

Approval: PCR 01148046

MONTICELLO NUCLEAR GENERATING PLANT 3613 TITLE: FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY Revision 5 Page 2 of 2

- Repair/Replacement Plan No.: 2007-24-002
- 9. Remarks(Applicable Manufacturer's Data Reports to be Attached)Original bolting: "Steel". New bolting: ASTM A-449 (bolts built 1988, installed 2007).

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.

Signed	Duddopmen, SECTION XI ISI COORD	Date 8/2/09
-	Owner or Owner's Designee, Title	

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 <u>Minnesota</u> and employed by <u>Hartford Steam Boiler</u> <u>Insp & Ins Company of Connecticut</u> of <u>Hartford, Connecticut</u> have inspected the components described in this Owner's Report during the period <u>$G/II/dJ$</u> to <u>$8^{-}/L/dg$</u> , 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 the Owner's Report. Furthermore, neither the Inspector nor his employer SHALL be liable in any manner for any personal injury of property damage or a loss of any kind arising from or connected with this inspection.								
Jung A Reclarks Commissions NB 1/863 A, N, J AN 0349028 - CO Inspector's Signature National Board, Province and Endorsements								
Date <u> 後/と/09</u>								

MONTICELLO NUCLEAR GENERATING PLANT 3613 TITLE: FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY Revis

		Repair/I	Replacement Plan No.:2007-24-003				
1.	Owner <u>I</u>	NSP-Minnesota, an Xcel Energy Company Name	Date	7/31/2009)		
<u>41</u>	4 Nicollet N	Aall, Minneapolis, MN 55401	Sheet	1	of		
2.	Plant <u>I</u>	Monticello Nuclear Generating Plant Name	Unit <u>1</u>				
28	07 West Co	Ounty Road 75, Monticello, MN 55362 Address		<u>1287, EC-1</u> air Organiz	ation P.O. No., Job No. etc.		
3.	Work Perf	· · · · · · · · · · · · · · · · · · ·		ode Symbo	ol Stamp <u>n/a</u>		
		Company Name		zation No.	n/a		
	<u>2807 We</u>	est County Rd. 75, Monticello, MN 55362 Address	Expirati	on Date	<u>n/a</u>		
4.	Identificati	ion of System <u>RHR Service Water (RSW)</u> ,	P-109B,	, Class 3			
5.	(a) Applica	able Construction Code <u>B31.1</u>		, <u>1977</u>	<u>E / W'78A</u> Edition / Addenda		
	(b) Applica	able Edition of Section XI Used for Repair/Re	eplaceme	ent Activity	2001 Edition, No Addenda		
	(c) Applica	ble Section XI Code Case(s) <u>n/a</u>					
6.	Identificati	ion of Components					

Name of	Manufacturer	National	Other		Corrected, Removed or	ASME Starr	
Manufacturer	Serial No.	Board No.		Year Built		YES	NO
Worthinton (Sulzer)	Pump VTP-24769	n/a	n/a	2007	Corrected		\boxtimes
	Worthinton	ManufacturerSerial No.WorthintonPump	ManufacturerSerial No.Board No.WorthintonPumpn/a	ManufacturerSerial No.Board No.IdentificationWorthintonPumpn/an/a	ManufacturerSerial No.Board No.IdentificationYear BuiltWorthintonPumpn/a2007	Name of ManufacturerManufacturerNational Board No.Other IdentificationRemoved, or InstalledWorthintonPumpn/an/a2007Corrected	Name of ManufacturerManufacturerNational Board No.OtherRemoved, or InstalledStar YESWorthintonPumpn/an/a2007CorrectedInstalled

7. Description of Work <u>Machine stuffing box ID for defect removal (erosion) and install ID sleeve.</u>

8.	Tests Conducted:	Hydrostatic] Pneum	atic 🗌	Nom	inal Operating Pressure	\boxtimes
Ex	empt	Other	Pressure	230	psi	Test Temp na	°F

<u>NOTE:</u>	Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8-1/2 in x 11 in, (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form. (See 4 AWI-09.04.03 [ASME Section XI Repair/Replacement Program] for further documentation guidance.)
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Approval: PCR 01148046

MONTICELLO NUCLEAR GENERATING PLANT 3613 TITLE: FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY Revision 5 Page 2 of 2

- Repair/Replacement Plan No.: 2007-24-003
- 9. Remarks (Applicable Manufacturer's Data Reports to be Attached)

Existing Stuffing Box (pressure retaining) was machined on the ID to accept a bushing (nonpressure retaining). (reference EC-11074) Stuffing Box re-installed.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.

Signed	Find Depare	SECTION XI ISI	(0000	Date 8/2/09
	Owner or Owner's D			

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 <u>Minnesota</u> and employed by <u>Hartford Steam Boiler</u> Insp & Ins Company of Connecticut of <u>Hartford, Connecticut</u> have inspected the components described in this Owner's Report during the period <u>& /20107</u> to <u>3/2/09</u>, 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 the Owner's Report. Furthermore, neither the Inspector nor his employer *SHALL* be liable in any manner for any personal injury of property damage or a loss of any kind arising from or connected with this inspection.

 King Andrew
 Commissions
 NO 11863 A, W, J MW 004025-C0

 Inspector's Signature
 National Board, Province and Endorsements
 Date _ 8/2/09

Repair/	Replacement Plan No.: <u>2007-24-004</u>
1. Owner <u>NSP-Minnesota, an Xcel Energy Company</u> Name	Date <u>7/29/2009</u>
414 Nicollet Mall, Minneapolis, MN 55401	Sheet <u>1</u> of <u>2</u>
2. Plant <u>Monticello Nuclear Generating Plant</u> _{Name}	Unit <u>1</u>
2807 West County Road 75, Monticello, MN 55362 Address	WO-324875 Repair Organization P.O. No., Job No. etc.
3. Work Performed By <u>NSPM / Xcel Energy</u> Company Name <u>2807 West County Rd. 75, Monticello, MN 55362</u>	Type Code Symbol Stamp <u>n/a</u> Authorization No. <u>n/a</u> Expiration Date <u>n/a</u>
Address 4. Identification of System <u>Emergency Service Water</u>	(FSW), Class 3
5. (a) Applicable Construction Code <u>B31.1</u>	, <u>1973E / W'76A</u> Edition / Addenda
(b) Applicable Edition of Section XI Used for Repair/Re	eplacement Activity 2001 Edition, No Addenda
(c) Applicable Section XI Code Case(s) <i>n/a</i>	

6. Identification of Components

						Corrected,	ASME	Code				
Name of	Name of	Manufacturer	National	Other		Removed, or	Stan	nped				
Component	Manufacturer	Serial No.	Board No.	Identification	Year Built	Installed	YES	NO				
TCV-4030A	Penn	9405	n/a	n/a	2001	Removed		\boxtimes				
TCV-4030A	Johnson Controls/Penn	60-01704-1-2	n/a	n/a	2008	Installed		\boxtimes				
7. Descriptio	. Description of Work Replace Valve Like-for-Like											

8. Tests	Conducted:	Hydros	tatic 🗌] Pneum	atic 🗌	Nomina	I Operating P	ressure	\boxtimes
Exempt		Other		Pressure	68.5	_psi	Test Temp	<u>N/A</u>	_°F
<u>NOTE:</u>	Supplemental she 8-1/2 in x 11 in, (2) and the number of Program] for furth	information information in formation in the second se	on in items recorded a	1 through 6 on this t the top of this for	report is inclu	ided on each s	sheet, and (3) each		

Approval: PCR 01148046

MONTICELLO NUCLEAR GENERATING PLANT FORM NIS-2 OWNER'S REPORT FOR TITLE: **REPAIR/REPLACEMENT ACTIVITY**

Repair/Replacement Plan No.: 2007-24-004

9. Remarks (Applicable Manufacturer's Data Reports to be Attached)

Post R/R pressure test per work order PMT.

CERTIFICATE OF COMPLIANCE	
We certify that the statements made in the report are correct and that this co the ASME Code, Section XI.	nforms to the requirements of
Signed Tooko , Section XI 1SI Cooko Owner or Owner's Designee, Title	Date 7/31/09

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 <u>Minnesota</u> and employed by <u>Hartford Steam Boiler</u> Insp & Ins Company of Connecticut of <u>Hartford, Connecticut</u> have inspected the components described in this Owner's Report during the period 12/1/03 to 7/31/09 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 the Owner's Report. Furthermore, neither the Inspector nor his employer SHALL be liable in any manner for any personal injury of property damage or a loss of any kind arising from or connected with this inspection. Inspector's Signature Commissions <u>IVB 1156 3 , ANJ 144004028-CO</u> National Board, Province and Endorsements

Date 7/31/09

3613 Revision 5 Page 1 of 2

Nominal Operating Pressure

 \boxtimes

	Repair/Replacement Plan No.:2007-24-005								
1.	Owner	er <u>NSP-Minnesota, an Xcel Energy Company</u> Name				31/2009			
414 Nicollet Mall, Minneapolis, MN 55401					Sheet <u>1</u>		of <u>2</u>		
2.	Plant	Ad Monticello Nucle	ldress ear Generating	Plant	Unit 1				
			Name		<u> </u>	· · · ·	· · · · · · · · · · · · · · · · · · ·	·····	······································
28	07 West C	ounty Road 75,	Monticello, MN	55362	WO-29377	8			
		Ac	ldress		Repair (Organizati	on P.O. No., Jo	ob No.	etc.
3.	Work Per	formed By NS	SPM / Xcel Ene	rgy	Type Code	Symbol S	Stamp <i>n/a</i>		-
			Company N	ame	Authorizati	on No.	n/a .		
2807 West County Rd. 75, Monticello, MN 55362			Expiration	Date <u>n/</u>	a				
		Ac	ldress						
4.	Identificat	ion of System	EDG Emerg.	Service Wat	er (EDG-ESW	/),	ŧ11 (P-111A) ,	Class 3	3
						·	· · ·		
5.	(a) Applica	able Constructio	n Code <u>B31.</u>	1 .		, <u>1977E</u> /	W78A Edition	/ Adde	enda
	(b) Applica	able Edition of S	ection XI Used	for Repair/F	Replacement /	Activity 2	001 Edition, N	io Adde	enda
	(c) Applicable Section XI Code Case(s) <i>n/a</i>								
~	.,								
6.	Identificat	ion of Compone	ents						
							Corrected,		Code
	Name of	Name of	Manufacturer	National Board No	Other		Removed, or	Stan	
	omponent	Manufacturer	Serial No.	Board No.	Identification	Year Built		YES	NO
	P-111A	Johnston	QD6701	n/a	n/a	2004	Removed		
	P-111A	Johnston	QD6702	n/a	n/a	2008	Installed		\boxtimes

Exempt		Other		Pressure	48.1	_psi	Test Temp	n/a	°F
<u>NOTE:</u>	8-1/2 in x 11 in, (2) informati of sheets is	on in items recorded a	it the top of this for	s report is incl	uded on ea	l (1) size is ch sheet, and (3) eac ASME Section XI Rep		

Replaced EDG-ESW Pump #11 (P-111A) with rebuilt spare.

Pneumatic

Approval: PCR 01148046

Hydrostatic

7. Description of Work

8. Tests Conducted:

MONTICE	3613	
TITLE:	FORM NIS-2 OWNER'S REPORT FOR	Revision 5
	REPAIR/REPLACEMENT ACTIVITY	Page 2 of 2

	Repair/Replacement Plan No.:	2007-24-005
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9. Remarks (Applicable Manufacturer's Data Reports to be Attached)

System leakage test with VT-2 of discharge flange joint and post maintenance IST was performed per the work order PMT.

This satisfies post-repair/replacement testing for the spare which was rebuilt under WO152929 (ref. R/R Plan 2006-23-0022).

Pumps meet requirements of Design Change 92Q300.

CERTIFICATE OF COMPLIANCE	
We certify that the statements made in the report are correct and that this conf the ASME Code, Section XI.	orms to the requirements of
Signed Downer or Owner's Designee, Title	Date 8/3/09

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 <u>Minnesota</u> and employed by <u>Hartford Steam Boiler</u> Insp & Ins Company of Connecticut of <u>Hartford, Connecticut</u> have inspected the components described in this Owner's Report during the period <u>7//3/27</u> to <u>3/3/21</u>, 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 the Owner's Report. Furthermore, neither the Inspector nor his employer *SHALL* be liable in any manner for any personal injury of property damage or a loss of any kind arising from or connected with this inspection.

Inspector's Signature Commissions NB 11863 AMS MN 204028-CO National Board, Province and Endorsements

Date <u>אר אר</u>

3613 Revision 5 Page 1 of 2

Repair/	Replacement Plan No.: <u>2008-24-006</u>
1. Owner <u>NSP-Minnesota, an Xcel Energy Company</u> Name	Date <u>7/30/2009</u>
414 Nicollet Mall, Minneapolis, MN 55401	Sheet <u>1</u> of <u>2</u>
2. Plant <u>Monticello Nuclear Generating Plant</u> Name	Unit <u>1</u>
2807 West County Road 75, Monticello, MN 55362 Address	WO 337964 Repair Organization P.O. No., Job No. etc.
3. Work Performed By <u>NSPM / Xcel Energy</u> Company Name	Type Code Symbol Stamp <u>n/a</u> Authorization No. <i>n/a</i>
2807 West County Rd. 75, Monticello, MN 55362 Address	Expiration Date <u>n/a</u>
4. Identification of System <u>Reactor Recirculation System</u>	em (REC), P-200B, Class 1

- 5. (a) Applicable Construction Code <u>ASME Section III, Class C</u>, <u>1965E /No Add</u> Edition / Addenda
 - (b) Applicable Edition of Section XI Used for Repair/Replacement Activity 2001 Edition, No Addenda
 - (c) Applicable Section XI Code Case(s) <u>n/a</u>
- 6. Identification of Components

7. Description of Work

Name of	Name of	Manufacturer	National	Other		Corrected, Removed, or		Code
Component	Manufacturer	Serial No.	Board No.	Identification	Year Built	Installed	YES	NO
Stuffing Box Cover	Bingham- Williamette	s/n 11N35-3	n/a	Ht. 83852	2007	Removed		\boxtimes
Stuffing Box Cover	Sulzer	p/n 5122530	n/a	Ht. 238938	2009	Installed		\boxtimes
L.								

Replace stuffing box cover on Recirc Pump 12 (P-200B) as part of seal ass'y. Stuffing box cover made in 2007 and installed in 2009.

8. Tests Cond	ucted: Hydrostat	tic 🗌	Pneuma	atic 🗌	Nomina	al Operating P	ressure	
Exempt	Other [\triangleleft	Pressure	n/a	psi	Test Temp	n/a	°F

 Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8-1/2 in x 11 in, (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form. (See 4 AWI-09.04.03 [ASME Section XI Repair/Replacement Program] for further documentation guidance.)

Approval: PCR 01148046

M/asc

Repair/Replacement Plan No.:	2008-24-006

9. Remarks (Applicable Manufacturer's Data Reports to be Attached)

Pressure testing satisfied per WO 337964, successful completion of 4290-02-OCD. No PSI or IST required.

CERTIFICATE OF COMPLIANCE	
We certify that the statements made in the report are correct and that this c the ASME Code, Section XI.	onforms to the requirements of
Signed Designed Section XI 1SI COORD Owner or Owner's Designee, Title	Date 8/2/09

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 <u>Minnesota</u> and employed by <u>Hartford Steam Boiler</u> Insp & Ins Company of Connecticut of <u>Hartford, Connecticut</u> have inspected the components described in this Owner's Report during the period <u>3/7/3g</u> to <u>s/L/3g</u>, 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.</u>

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

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 A Market
 Commissions
 MP 11863 AJN, J MN 034028-C0

 Inspector's Signature
 National Board, Province and Endorsements

 Date 8/2/09

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		Repair/	r/Replacement Plan No.: <u>2008-24-008</u>			
1.	Owner	NSP-Minnesota, an Xcel Energy Company Name	Date	7/30/200	9	
<u>41</u>	4 Nicollet	Mall, Minneapolis, MN 55401	Sheet	1	of <u>3</u>	
2.	Plant	Address <u>Monticello Nuclear Generating Plant</u> Name	Unit _	1		
<u>28</u>	07 West	County Road 75, Monticello, MN 55362		4387/EC1		
		Address	Rep	air Organi	zation P.O. No., Job No. etc.	
3.	Work Pe	erformed By <u>NSPM / Xcel Energy</u> Company Name	• •	ode Symb zation No	• •	
	2807 V	Vest County Rd. 75, Monticello, MN 55362	Expirat	ion Date	n/a	
		Address	-			
4.	Identifica	ation of System <u>EFT Emergency Service</u> W	/ater (FS	W), Divisio	on 1, Class 3	

- 5. (a) Applicable Construction Code <u>B31.1</u>, <u>1977E / W'78A</u> Edition / Addenda
 - (b) Applicable Edition of Section XI Used for Repair/Replacement Activity 2001 Edition, No Addenda
 - (c) Applicable Section XI Code Case(s) <u>na</u>
- 6. Identification of Components

Corrected, ASME Code National Other Removed, or Stamped Name of Name of Manufacturer Installed Component Manufacturer Serial No. Board No. Identification Year Built YES NO ESW1-4"-HBD NSP \boxtimes 1983 Removed \Box n/a n/a n/a 2008 Installed \Box \boxtimes ESW1-4"-HBD Xcel Energy n/a n/a n/a \boxtimes ESW1-3"-HBD NSP 2008 Removed n/a n/a n/a 2008 \boxtimes ESW1-3"-HBD Installed Xcel Energy n/a n/a n/a additional subsequent sheets for items see

- 7. Description of Work <u>Reconfigured piping components and hangers for future flow meter installation</u>
- 8. Tests Conducted:
 Hydrostatic
 Pneumatic
 Nominal Operating Pressure

 Exempt
 Other
 Pressure
 71.7
 psi
 Test Temp
 n/a

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8-1/2 in x 11 in, (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form. (See 4 AWI-09.04.03 [ASME Section XI Repair/Replacement Program] for further documentation guidance.)

Approval: PCR 01148046

MONTICELLO NUCLEAR GENERATING PLANT				
TITLE:	FORM NIS-2 OWNER'S REPORT FOR	Revision 5		
	REPAIR/REPLACEMENT ACTIVITY	Page 2 of 2		

Sheet 2 of 3

5

Repair/Replacement Plan No.: 2008-24-008

9. Remarks (Applicable Manufacturer's Data Reports to be Attached)

In support of EC-12170, the piping system was reconfigured in the Intake Structure and EFT Room to accept future installation of ultrasonic flow meters. This included associated pipe, fittings, flanges, and one valve a temporary spoolpiece assembly, fasteners, and installation of one support in the intake structure and two supports in the EFT Room. Performed weld visuals and NDE on welds, as applicable. Performed system leakage test with VT-2 at nominal system pressure. Performed a check valve open and close test (CTO/CTC) on replaced valve ESW-18.

CERTIFICATE OF COMPLIANCE
We certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.
Signed SECTION XI ISI COORD Date 8/5/09 Owner or Owner's Designee, Title

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 <u>Minnesota</u> and employed by <u>Hartford Steam Boiler</u> Insp & Ins Company of Connecticut of Hartford, Connecticut have inspected the components described in this Owner's Report during the period 3/2/3 to 8/5/29and 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 the Owner's Report. Furthermore, neither the Inspector nor his employer SHALL be liable in any manner for any personal injury of property damage or a loss of any kind arising from or connected with this inspection.

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 A Andohi
 Commissions
 NB 11863 A, MS MW 00 4328-C0

 Inspector's Signature
 National Board, Province and Endorsement

 National Board, Province and Endorsements

Date 8/5/09

NSP-Minnesota, an Xcel Energy Company 414 Nicollet Mall, Minneapolis, MN 55401 Monticello Nuclear Generating Plant – Unit 1 2807 West County Road 75, Monticello, MN 55362

Work Perfor	med By _.	<u>NSPM / Xcel Energy</u>
System	EFT-ES	W (FSW), Div.1
Construction	Code _	<u>B31.1, 1977E, W'78A</u>

R/R Plan No.	<u>2008-24-008</u>
WO No.	WO 354387
Section XI R/R Code	2001 Ed / No Add
Section XI Code Case	e(s) <u>None</u>

Form NIS-2 Continuation Sheet

Name of	Name of	Manufacturer	National	Other		Corrected, Removed, or	ASME Stan	
Component	Manufacturer	Serial No.	Board No.	Identification	Year Built	Installed	Yes	No
ESW-18	Anchor Darling	E1241-3-5	n/a	n/a	1983	Removed		x
ESW-18	Velan	26020-001- 00001	n/a	n/a	2008	Installed		x
Support H-1 (EFT Room)	Xcel Energy	n/a	n/a	n/a	2008	Installed		x
Support H-2 (EFT Room)	Xcel Energy	n/a	n/a	n/a	2008	Installed		x
Support H-4 (Intake)	Xcel Energy	n/a	n/a	n/a	2008	Installed		x
28 flange studs	Nova	n/a	n/a	n/a	2008	Installed		x
56 flange nuts	Nova	n/a	n/a	n/a	2008	Installed	•	x
				· .				

1. Owner <u>NSP-Minnesota, an Xcel Energy Company</u> Name	Date <u>7/30/2009</u>
414 Nicollet Mall, Minneapolis, MN 55401	Sheet 1 of 3
Address	
2. Plant Monticello Nuclear Generating Plant	Unit <u>1</u>
Name	
2807 West County Road 75, Monticello, MN 55362	WO-354388, EC-12170
Address	Repair Organization P.O. No., Job No. etc.
3. Work Performed By <u>NSPM / Xcel Energy</u>	Type Code Symbol Stamp <u>n/a</u>
Company Name	Authorization No. n/a
2807 West County Rd. 75, Monticello, MN 55362	Expiration Date <u>n/a</u>
Address	
4. Identification of System EFT Emergency Service W	/ater (FSW), Division 2, Class 3

Repair/Replacement Plan No.: 2008-24-009

- 5. (a) Applicable Construction Code <u>B31.1</u>, <u>1977E / W'78A</u> Edition / Addenda
 - (b) Applicable Edition of Section XI Used for Repair/Replacement Activity 2001 Edition, No Addenda
 - (c) Applicable Section XI Code Case(s) <u>na</u>
- 6. Identification of Components

ASME Code Corrected, Name of Name of Manufacturer National Other Removed, or Stamped Component Manufacturer Serial No. Board No. Identification Year Built Installed YES NO ESW5-4"-HBD NSP 1983 \square \boxtimes Removed na na na ESW5-4"-HBD 2008 Installed \boxtimes Xcel Energy na na na ESW5-3"-HBD 1983 \boxtimes Velan Removed na na na ESW5-3"-HBD 2008 \boxtimes Xcel Energy Installed na na na see subsequent sheets for additional items

7. Description of Work Reconfigured piping components and hangers for future flow meter installation

8. Tests Conducted:	Hydrostatic	Pneumatic
Exempt	Other	Pressure 71.9

tic 🗌 Nominal Operating Pressure

psi

 \boxtimes Test Temp n/a °F

Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is
8-1/2 in x 11 in, (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form. (See 4 AWI-09.04.03 [ASME Section XI Repair/Replacement Program] for further documentation guidance.)

Approval: PCR 01148046

MONTICELLO NUCLEAR GENERATING PLANT FORM NIS-2 OWNER'S REPORT FOR TITLE: **REPAIR/REPLACEMENT ACTIVITY**

Sheet 2 of 3

Repair/Replacement Plan No.: 2008-24-009

9. Remarks (Applicable Manufacturer's Data Reports to be Attached)

In support of EC-12170, the piping system was reconfigured in the Intake Structure and EFT Room to accept future installation of ultrasonic flow meters. This included associated pipe, fittings, flanges, and one valve, a temporary spoolpiece assembly, fasteners, installation of one support in the intake structure and one support in the EFT Room, and modification of one existing support in the Intake Structure and one in the EFT Room. Performed weld visuals and NDE on welds, as applicable. Performed system leakage test with VT-2 at nominal system pressure. Performed a check valve open and close test (CTO/CTC) on replaced valve ESW-17.

CERTIFICATE OF COMPLIANCE	
We certify that the statements made in the report are correct and that this cont the ASME Code, Section XI.	forms to the requirements of
Signed Todal Section XI ISI Coord Owner or Owner's Designee, Title	Date 8/5/09

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 <u>Minnesota</u> and employed by <u>Hartford Steam Boiler</u> Insp & Ins Company of Connecticut of <u>Hartford</u>, Connecticut have inspected the components described in this Owner's Report during the period _______ to _____ to ______ to ______ 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 the Owner's Report. Furthermore, neither the Inspector nor his employer SHALL be liable in any manner for any personal injury of property damage or a loss of any kind arising from or connected with this inspection.

Kint A AululuiCommissionsNB 1186] A, N, J 14W 004028-COInspector's SignatureNational Board, Province and Endorsements

Date 5/5/09

M/asc

NSP-Minnesota, an Xcel Energy Company 414 Nicollet Mall, Minneapolis, MN 55401 Monticello Nuclear Generating Plant – Unit 1 2807 West County Road 75, Monticello, MN 55362

Work Performed By <u>NSPM / Xcel Energy</u>				
System EFT-ESW (FSW), Div.2				
Construction Code	B31.1, 1977E, W'78A			

 R/R Plan No.
 2008-24-009

 WO No.
 WO 354388

 Section XI R/R Code
 2001 Ed / No Add

 Section XI Code Case(s)
 None

Name of	Name of	Manufacturer	National	Other		Corrected, Removed, or	ASME Stan	
Component	Manufacturer	Serial No.	Board No.	Identification	Year Built	Installed	Yes	No
ESW-17	Anchor Darling	E1241-3-2	n/a	n/a	1983	Removed		x
ESW-17	Velan	26020-001- 00002	n/a	n/a	2008	Installed		x
Support H-3 (EFT Room)	Xcel Energy	n/a	n/a	n/a	2008	Installed		X
Support H-5 (Intake)	Xcel Energy	n/a	n/a	n/a	2008	Installed		x
Support SW-1008- H201 (Intake)	Xcel Energy	n/a	n/a -	n/a	2008	Corrected		x
Support SW-1010- H208 (EFT Room)	Xcel Energy	n/a	n/a	n/a	2008	Corrected		x
36 flange studs	Nova	n/a	n/a	n/a	2008	Installed		x
72 flange nuts	Nova	n/a	n/a	n/a	2008	Installed		x

Form NIS-2 Continuation Sheet

, 1977E / W'78A Edition / Addenda

1.	Owner <u>NSP-Mi</u>	nnesota, an Xcel Energy Company Name	Date	7/30/2009
414 Nicollet Mall, Minneapolis, MN 55401 Address			Sheet	<u>1</u> of <u>2</u>
2.	Plant Montice	Ilo Nuclear Generating Plant	Unit <u>1</u>	
28	07 West County R	oad 75, Monticello, MN 55362 Address		4387, EC-12170 air Organization P.O. No., Job No. etc.
3.	Work Performed 2807 West Cou	By <u>NSPM / Xcel Energy</u> Company Name nty Rd. 75, Monticello, MN 55362	Authoriz	ode Symbol Stamp <u>n/a</u> zation No. <u>n/a</u> on Date <i>n/a</i>
4.		Address	•	

Repair/Replacement Plan No.: 2008-24-011

(b) Applicable Edition of Section XI Used for Repair/Replacement Activity 2001 Edition, No Addenda

(c) Applicable Section XI Code Case(s) <u>na</u>

5. (a) Applicable Construction Code B31.1

6. Identification of Components

ASME Code Corrected, Name of Manufacturer Removed, or Name of National Other Stamped Component Manufacturer Serial No. Board No. Identification Year Built Installed YES NO ESW1-4"-HBD 2008 \boxtimes Xcel Energy n/a n/a Removed n/a temp spool \boxtimes FE-4230 Krohne A08 71338 n/a 2008 Installed n/a ESW1-3"-HBD **Xcel Energy** 2008 Removed \boxtimes n/a n/a n/a temp spool FE-4232 Krohne A08 71473 n/a 2008 Installed \boxtimes n/a \square

7. Description of Work Replace temporary flanged piping spool pieces with ultrasonic flow meters.

8. Tests Conducted:	Hydrostatic 🗌	Pneumatic 🔲	Nominal Operating Pressure	\boxtimes
Exempt	Other	Pressure 69.7	psi Test Temp <i>n/a</i>	°F

NOTE:	Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is
	8-1/2 in x 11 in, (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form. (See 4 AWI-09.04.03 [ASME Section XI Repair/Replacement Program] for further documentation guidance.)

Approval: PCR 01148046

MONTIC	ELLO NUCLEAR GENERATING PLANT	3613
TITLE:	FORM NIS-2 OWNER'S REPORT FOR	Revision 5
	REPAIR/REPLACEMENT ACTIVITY	Page 2 of 2
·	Repair/Replacement Plan No.:	2008-24-011
0 Rema		

Remarks Applicable Manufacturer's Data Reports to be Attached)

Replaced temporary spool pieces at 2 locations of Division 1 FSW system and installed Krohne UFM 3030 ultrasonic flowmeters. Work was performed in support of EC-12170. Performed a system leakage test with VT-2 at nominal system pressure per work order preoperational testing ...

	CERTIFICATE OF COMPLIANCE	
We certify that tl the ASME Code	ne statements made in the report are correct and that this cor , Section XI.	nforms to the requirements of
Signed _ 🔀	Owner or Owner's Designee, Title	Date 8/5/09

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 <u>Minnesota</u> and employed by <u>Hartford Steam Boiler</u> Insp & Ins Company of Connecticut of Hartford, Connecticut have inspected the components described in this Owner's Report during the period $\frac{\int \sqrt{\int \log x}}{\int \sqrt{\int \log x}}$ to $\frac{\int \sqrt{\int \log x}}{\int \log x}$, 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 the Owner's Report. Furthermore, neither the Inspector nor his employer SHALL be liable in any manner for any personal injury of property damage or a loss of any kind arising from or connected with this inspection.

 Kort A Aululu
 Commissions
 WB 11863 A, MJ MN 00 4028-CO

 Inspector's Signature
 National Board, Province and Endorsements

 Date 8/5-109

MONTICELLO NUCLEAR GENERATING PLANT TITLE: FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

	Repa	/Replacement Plan N	o.: <u>2008-24-012</u>
1.	Owner NSP-Minnesota, an Xcel Energy Company Name	Date <u>7/30/200</u>	9
<u>41</u>	4 Nicollet Mall, Minneapolis, MN 55401	Sheet <u>1</u>	of
2.	Address Plant <u>Monticello Nuclear Generating Plant</u> Name	Unit <u>1</u>	
<u>28</u>	807 West County Road 75, Monticello, MN 55362 Address	<u>WO-354388, EC-</u> Repair Organi	12170 zation P.O. No., Job No. etc.
3.	Work Performed By <u>NSPM / Xcel Energy</u> Company Name <u>2807 West County Rd. 75, Monticello, MN 55362</u> Address	Type Code Symb Authorization No. Expiration Date	•
4.	Identification of System EFT Emergency Service	Vater (FSW), Divisio	on 2, Class 3
5.	 (a) Applicable Construction Code <u>B31.1</u> (b) Applicable Edition of Section XI Used for Repair. 	· · · · · · · · · · · · · · · · · · ·	7 <u>E / W'78A</u> Edition / Addenda 2001 Edition, No Addenda
	(c) Applicable Section XI Code Case(s) <u>na</u>		
6.	Identification of Components		

Name of	Name of	Manufacturer	National	Other		Corrected, Removed, or	ASME Stan	
Component	Manufacturer	Serial No.	Board No.	Identification	Year Built		YES	NO
ESW5-4"-HBD temp spool	Xcel Energy	n/a	n/a	n/a	2008	Removed		\boxtimes
FE-4231	Krohne	A08 71339	n/a	n/a	2008	Installed		\boxtimes
ESW5-3"-HBD temp spool	Xcel Energy	n/a	n/a	n/a	2008	Removed		\boxtimes
FE-4233	Krohne	A08 71475	n/a	n/a	2008	Installed		\boxtimes

7. Description of Work <u>Replace temporary flanged piping spool pieces with ultrasonic flow meters.</u>

8. Tests Conducted:	Hydrostatic	Pneumatic	Nominal Operating Pressure	\boxtimes
Exempt	Other	Pressure 68.9	psi Test Temp <i>n/a</i>	°F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8-1/2 in x 11 in, (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form. (See 4 AWI-09.04.03 [ASME Section XI Repair/Replacement Program] for further documentation guidance.)

Approval: PCR 01148046

MONTICELLO NUCLEAR GENERATING PLANT FORM NIS-2 OWNER'S REPORT FOR TITLE: **REPAIR/REPLACEMENT ACTIVITY**

Repair	/Replacement Plan No.:2008-24-013
1. Owner <u>NSP-Minnesota, an Xcel Energy Company</u> Name	Date <u>7/26/2009</u>
414 Nicollet Mall, Minneapolis, MN 55401 Address	Sheet <u>1</u> of <u>4</u>
2. Plant <u>Monticello Nuclear Generating Plant</u> _{Name}	Unit <u>1</u>
2807 West County Road 75, Monticello, MN 55362 Address	(see attached pages for applicable Work Orders) Repair Organization P.O. No., Job No. etc.
3. Work Performed By <u>NSPM / Xcel Energy</u> Company Name <u>2807 West County Rd. 75, Monticello, MN 55362</u> Address	Type Code Symbol Stamp <u>n/a</u> Authorization No. <u>n/a</u> Expiration Date <u>n/a</u>
4. Identification of System <u>(see attached pages for ap</u>	plicable systems and Class)
 5. (a) Applicable Construction Code <u>USAS B31.1</u> (b) Applicable Edition of Section XI Used for Repair/R (c) Applicable Section XI Code Case(s) <u>n/a</u> 	, <u>1967E /No Add</u> Edition / Addenda eplacement Activity <u>2001 Edition, No Addenda</u>
6. Identification of Components	

						Corrected,	ASME	
Name of	Name of	Manufacturer	National	Other		Removed, or	Starr	nped
Component	Manufacturer	Serial No.	Board No.	Identification	Year Built	Installed	YES	NO
SEE	ATTACHED	PAGES	-	-	-	-		
					-			
7 Description of Work Removed existing snubbers for seal life program replaced with rebuilt spares								

existing seai ille program, replace rebuilt spares

8. Tests Cond	ducted: Hydro	ostatic 🔲	Pneumatic] Nomina	al Operating Pressure	
Exempt] Other	I II	Pressure	psi	Test Temp	°F

<u>NOTE:</u>	Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8-1/2 in x 11 in, (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is number and the number of sheets is recorded at the top of this form. (See 4 AWI-09.04.03 [ASME Section XI Repair/Replacement Program] for further documentation guidance.)

PCR 01148046 Approval:

1

MONTIC	3613	
TITLE:	FORM NIS-2 OWNER'S REPORT FOR	Revision 5
	REPAIR/REPLACEMENT ACTIVITY	Page 2 of 2

		Repair/Replacement Plan No.:	2008-24-012
9.	Remarks	(Applicable Manufacturer's Data Reports to be Atta	ached)

Replaced temporary spool pieces at 2 locations of Division 2 FSW system and installed Krohne UFM 3030 ultrasonic flowmeters. Work was performed in support of EC-12170. Performed a system leakage test with VT-2 at nominal system pressure per work order pre-operational testing..

CERTIFICATE OF COMPLIANCE	
We certify that the statements made in the report are correct and that this cor the ASME Code, Section XI.	forms to the requirements of
Signed 1 Owner or Owner's Designee, Title	Date 8/5/09

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 <u>Minnesota</u> and employed by <u>Hartford Steam Boiler</u> <u>Insp & Ins Company of Connecticut</u> of <u>Hartford, Connecticut</u> have inspected the components described in this Owner's Report during the period <u>5/8/a8</u> to <u>8/5/b9</u>, 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 the Owner's Report. Furthermore, neither the Inspector nor his employer **SHALL** be liable in any manner for any personal injury of property damage or a loss of any kind arising from or connected with this inspection.

 Kint A Suluk
 Commissions
 NB #863 Apr, F 14W 30 4018-CO

 Inspector's Signature
 National Board, Province and Endorsements

 Date 8/5/39

MONTICELLO NUCLEAR GENERATING PLANT TITLE: FORM NIS-2 OWNER'S REPORT FOR **REPAIR/REPLACEMENT ACTIVITY**

Sheet 2 of 4

Repair/Replacement Plan No.: 2008-24-013

(Applicable Manufacturer's Data Reports to be Attached) 9. Remarks

Functional testing per procedure 0251. Preservice VT-3 examination of non-exempt snubbers per procedure 4903.

"Year Built" is the installation date.

CERTIFICATE OF COMPLIANCE	
We certify that the statements made in the report are correct and that this con the ASME Code, Section XI.	forms to the requirements of
Signed SECTION XI ISI COORD Owner or Owner's Designee, Title	Date 7/26/09

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 Insp & Ins Company of Connecticut of Hartford, Connecticut have inspected the components described in this Owner's Report during the period 9/15/08 to 7/27/09 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 the Owner's Report. Furthermore, neither the Inspector nor his employer SHALL be liable in any manner for any personal injury of property damage or a loss of any kind arising from or connected with this inspection.

Commissions 11863 ANJ T MN004028 -CO

Inspector's Signature

National Board, Province and Endorsements

Date 7/27/09

Work Performed ByNSPM / Xcel EnergySystemSNB, SnubbersConstruction CodeUSAS B31.1, 1967

R/R Plan No. <u>2008-24-013</u> WO No. <u>Various (see below)</u> Section XI R/R Code <u>2001 Ed / No Add</u> Section XI Code Case(s) <u>None</u>

Name of Component	Name of	Manufacturer	National	Other Identification		Corrected, Removed, or		E Code nped
(System, Class)	Manufacturer	Serial No.	Board No.	(Work Order)	Year Built	Installed	Yes	No
PS2-H2 (MST, 1)	Bergen Paterson	516	n/a	30 Kip (326521)	2000	removed		
PS2-H2 (MST, 1)	Bergen Paterson	005	n/a	30 Kip (326521)	2009	installed		x
PS1-H3 (MST, 1)	Bergen Paterson	192	∴ n/a	30 Kip (326522)	2000	removed		X
PS1-H3 (MST, 1)	Bergen Paterson	020	n/a	30 Kip (326522)	2009	installed		X
SS-312-1 (RHR, 2)	Bergen Paterson	522	n/a	30 Kip (326527)	2000	removed		X
SS-312-1 (RHR, 2)	Bergen Paterson	100	n/a	30 Kip (326527)	2009	installed		X
SS-312-2 (RHR, 2)	Bergen Paterson	518	n/a	30 Kip (326528)	2000	removed		x
SS-312-2 (RHR, 2)	Bergen Paterson	101	n/a	30 Kip (326528)	2009	installed		X
PS1-H2 (MST, 1)	Bergen Paterson	052	n/a	30 Kip (326530)	2000	removed		X
PS1-H2 (MST, 1)	Bergen Paterson	145	n/a	30 Kip (326530)	2009	installed		· X
SS-6AR (REC, 1)	Bergen Paterson	464	n/a	20 Kip (326531)	2000	removed		* X
SS-6AR (REC, 1)	Bergen Paterson	021A	n/a	20 Kip (326531)	2009	installed		X
SS-306 (RHR, 2)	Bergen Paterson	517	n/a	30 Kip (326533)	2000	removed		X
SS-306 (RHR, 2)	Bergen Paterson	. 468	n/a	30 Kip (326533)	2009	installed		<i>X</i>
SS-191 (PCT, 2)	Bergen Paterson	112	n/a	20 Kip (326577)	2000 -	removed		X
SS-191 (PCT, 2)	Bergen Paterson	099	n/a	20 Kip (326577)	2009	installed		X

Work Perforn	ned By	<u>NSPM / Xcel Energy</u>	
System	SNB,	Snubbers	
Construction	Code _	<u>USAS B31.1, 1967</u>	

R/R Plan No. <u>2008-24-013</u> WO No. <u>Various (see below)</u> Section XI R/R Code <u>2001 Ed / No Add</u> Section XI Code Case(s) <u>None</u>

<u> </u>		-			·			
Name of Component	Name of	Manufacturer	National	Other Identification		Corrected, Removed, or	ASME Stan	
(System, Class)	Manufacturer	Serial No.	Board No.	(Work Order)	Year Built	Installed	Yes	· No
SS-36B (HPC, 2)	Bergen Paterson	508	n/a	10 Kip (326583)	2000	removed		X
SS-36B (HPC, 2)	Bergen Paterson	013	n/a	10 Kip (326583)	2009	installed		Х
SS-36A (HPC, 2)	Bergen Paterson	509	n/a	10 Kip (326584)	2000	removed		Х
SS-36A (HPC, 2)	Bergen Paterson	028	n/a	10 Kip (326584)	2009	installed		X
SS-560 (RHR, 2)	Bergen Paterson	486	n/a	10 Kip (326592)	2000	removed		X
SS-560 (RHR, 2)	Bergen Paterson	047	n/a	10 Kip (326592)	2009	· installed		X
		· · ·				· · · · · ·		
						- <u>-</u>		
						···· · · · · · · · · · · · · · · · ·		
	·····							
	· .					. ·		
					-	· · · · · · · · · · · · · · · · · · ·		
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MONTICELLO NUCLEAR GENERATING PLANT FORM NIS-2 OWNER'S REPORT FOR TITLE: **REPAIR/REPLACEMENT ACTIVITY**

	Repai	r/Replacement Plan No.:2008-24-017		
1.	Owner <u>NSP-Minnesota, an Xcel Energy Company</u> Name	Date 7/20/2009		
<u>41</u>	4 Nicollet Mall, Minneapolis, MN 55401 Address	Sheet <u>1</u> of <u>2</u>		
2.	Plant Monticello Nuclear Generating Plant Name	Unit <u>1</u>		
28	807 West County Road 75, Monticello, MN 55362 Address	WO-140391 Repair Organization P.O. No., Job No. etc.		
Address Repair Organization P.O. No., Job No. etc. 3. Work Performed By <u>NSPM / Xcel Energy</u> Company Name Type Code Symbol Stamp Authorization No. <u>n/a</u> 2807 West County Rd. 75, Monticello, MN 55362 Expiration Date <u>n/a</u>				
4.	Identification of System Condensate and Feedwar	er (CFW), Class 1		
5.	 (a) Applicable Construction Code <u>B31.1</u> (b) Applicable Edition of Section XI Used for Repair/I 	, <u>1977 / '78</u> Edition / Addenda Replacement Activity 2001 Edition, No Addenda		
	· / · · ·	•		

(c) Applicable Section XI Code Case(s) <u>n/a</u>

6. Identification of Components

	Name of	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	Stan	Code	
	Component FW-97-1	Anchor Darling		n/a	none	unknown	Corrected		NO I	
			14-0110-2100	1// 4	none	unknown	Confected			
7.	Description of Work <u>Removed hinge pin plugs to install anti-rotation pin and reinstalled by welding.</u>									
8.	Tests Cor	ducted: Hy	drostatic	Pneum	atic 🗌	Nominal	Operating Pre	ssure		

 \boxtimes Other Exempt Pressure psi

Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is NOTE: 8-1/2 in x 11 in, (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form. (See 4 AWI-09.04.03 [ASME Section XI Repair/Replacement Program] for further documentation guidance.)

Test Temp

°F

Approval: PCR 01148046

MONTIC	IONTICELLO NUCLEAR GENERATING PLANT					
TITLE:	FORM NIS-2 OWNER'S REPORT FOR	Revision 5				
	REPAIR/REPLACEMENT ACTIVITY	Page 2 of 2				
9. Remai <i>None</i>	Repair/Replacement Plan No.: ks (Applicable Manufacturer's Data Reports to be Attacl					

	CERTIFICATE OF COMPLIANCE
	that the statements made in the report are correct and that this conforms to the requirements of Code, Section XI.
Signed _	RICHTARD DEOPERE, SECTION X/ ISI COORD Date 7/20/09 Owner or Owner's Désignee, Title

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 <u>Minnesota</u> and employed by <u>Hartford Steam Boiler</u> <u>Insp & Ins Company of Connecticut</u> of <u>Hartford, Connecticut</u> have inspected the components described in this Owner's Report during the period $\frac{\delta/2I}{\delta g}$ to $\frac{7/23}{\delta g}$, 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 the Owner's Report. Furthermore, neither the Inspector nor his employer *SHALL* be liable in any manner for any personal injury of property damage or a loss of any kind arising from or connected with this inspection.

_/	Inspector's Signature	_ Commissions	NDIIE63 AJXL I4ル あり402 8-CO National Board, Province and Endorsements
Date	7/23/09		

M/asc

MONTICELLO NUCLEAR GENERATING PLANT TITLE: FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

Repair/Replacement	Plan N	lo.:2008-2	24-019

1.	Owner	NSP-Minnesota, an Xcel Energy Company Name	Date <u>7/23/2009</u>
<u>41</u>	4 Nicollet	Mall, Minneapolis, MN 55401 Address	Sheet <u>1</u> of <u>9</u>
2 .	Plant	Monticello Nuclear Generating Plant	Unit <u>1</u>
<u>28</u>	07 W <u>est</u> (County Road 75, Monticello, MN 55362 Address	WO-356231 Repair Organization P.O. No., Job No. etc.
3.	Work Pe	erformed By <u>NSPM / Xcel Energy</u> Company Name	Type Code Symbol Stamp <u>n/a</u> Authorization No. <i>n/a</i>
	<u>2807 N</u>	Vest County Rd. 75, Monticello, MN 55362 Address	Expiration Date <u>n/a</u>
4.	Identifica	ation of System <u>SNB, Spare Snubbers, Cla</u>	ess unassigned
5.	(a) Applic	cable Construction Code USAS B31.1	, 1967E /No Add Edition / Addenda

(b) Applicable Edition of Section XI Used for Repair/Replacement Activity 2001 Edition, No Addenda

(c) Applicable Section XI Code Case(s) <u>n/a</u>

6. Identification of Components

Name of	Name of	Manufacturer	National	Other		Corrected, Removed, or	Stan	Code nped
Component	Manufacturer	Serial No.	Board No.	Identification	Year Built	Installed	YES	NO
Main Cylinder	Bergen Paterson	005A	n/a	3 Kip	unknown	Removed		\boxtimes
Main Cylinder	Anchor/Darling	005A	n/a	3 Kip	2008	Installed		\boxtimes
Valve Assembly	Bergen Paterson	005A	n/a	3 Kip	unknown	Removed		\boxtimes
Valve Assembly	Anchor/Darling	005A	n/a	3 Kip	2008	Installed		\boxtimes
SEE	SUBSEQUENT	SHEETS	FOR	ADDITIONAL	ITEMS			

7.	Descr	ription of Work				nents replaced d 9 RFO.	uring re	build of	spare Bergen-Paterson	
8.	Tests	Conducted:	Hydros	tatic		Pneumatic		Nomi	nal Operating Pressure	
Exe	mpt		Other			Pressure		_psi	Test Temp	_°F
<u>NOT</u>	<u>E:</u>	8-1/2 in x 11 in, (2)) information f sheets is	on in it record	ems 1 t led at tl	ne top of this form. (S	, rt is inclu	ded on eac	(1) size is ch sheet, and (3) each sheet is n NSME Section XI Repair/Replace	
	-	Approval:	PCR (01148	3046	an a				

MONTICELLO NUCLEAR GENERATING PLANT TITLE: FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

3613 Revision 5 Page 2 of 2

Sheet 2 of 9

Repair/Replacement Plan No.: 2008-24-019

9. Remarks (Applicable Manufacturer's Data Reports to be Attached)

Functional test per procedure 0251.

CERTIFICATE OF COMPLIANC	Έ
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We certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.

Signed	Fredda SECTION XI ISI COORD.	Date 7/23/2009
-	Owner or Owner's Designee, Title	

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 <u>Minnesota</u> and employed by <u>Hartford Steam Boiler</u> <u>Insp & Ins Company of Connecticut</u> of <u>Hartford, Connecticut</u> have inspected the components described in this Owner's Report during the period <u>$\delta 122 08$</u> to <u>$7129 09$</u> , 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 the Owner's Report. Furthermore, neither the Inspector nor his employer SHALL be liable in any manner for any personal injury of property damage or a loss of any kind arising from or connected with this inspection.
Kur A Auluk Commissions NB 1186 3 Awit MW 00 4018-CO Inspector's Signature National Board, Province and Endorsements
Date 7/24/09

Work Perform	ied By	<u>NSPM / Xcel Energy</u>
System	SNB,	Spare Snubbers
Construction	Code _	<u>USAS B31.1, 1967</u>

 R/R Plan No.
 2008-24-019

 WO No.
 356231

 Section XI R/R Code
 2001 Ed / No Add

 Section XI Code Case(s)
 None

Name of	Name of	Manufacturer	National	Other		Corrected, Removed, or		E Code
Component	Manufacturer	Serial No.	Board No.	Identification	Year Built	Installed	Yes	No
Valve Assembly	Bergen Paterson	006A	n/a	З Кір	unknown	removed		X
Valve Assembly	Anchor Darling	006A	n/a	3 Kip	2008	installed		X
Valve Assembly	Bergen Paterson	403	n/a	10 Kip	unknown	removed		X
Valve Assembly	Anchor Darling	403	n/a	10 Kip	2008	installed		X
Main Cylinder	Bergen Paterson	013	n/a	10 Kip	unknown	removed		X
Main Cylinder	Anchor Darling	013	n/a	10 Kip	2008	installed		X
Valve Assembly	Bergen Paterson	013	n/a	10 Kip	unknown	removed		X
Valve Assembly	Anchor Darling	013	n/a	10 Kip	2008	installed		X
Valve Assembly	Bergen Paterson	028	n/a	10 Kip	unknown	removed		X
Valve Assembly	Anchor Darling	028	n/a	10 Kip	2008	installed		X
Piston Rod Nut	Bergen Paterson	028	n/a	10 Kip	unknown	removed		X
Piston Rod Nut	Bergen Paterson	028	n/a	10 Kip	2008	installed		X
Piston	Bergen Paterson	028	n/a	10 Kip	unknown	removed		X
Piston	Anchor Darling	028	n/a	10 Kip	2008	installed		X
Piston Rings	Bergen Paterson	028	n/a	10 Kip	unknown	removed		X
Piston Rings	Anchor Darling	028	n/a	10 Kip	2008	installed		X

Work Per	formed By	NSPM / Xcel Energy
System	SNB,	Spare Snubbers
Construc	tion Code _	<u>USAS B31.1, 1967</u>

 R/R Plan No.
 2008-24-019

 WO No.
 356231

 Section XI R/R Code
 2001 Ed / No Add

 Section XI Code Case(s)
 None

Name of	Name of	Manufacturer	National	Other		Corrected, Removed, or		Code
Component	Manufacturer	Serial No.	Board No.	Identification	Year Built	Installed	Yes	No
Main Cylinder	Bergen Paterson	028	n/a	10 Kip	unknown	removed		X
Main Cylinder	Anchor Darling	028	n/a	10 Kip	2008	installed		X
Valve Assembly	Bergen Paterson	033	n/a	10 Kip	unknown	removed		X
Valve Assembly	Anchor Darling	033	n/a	10 Kip	2008	installed		X
Valve Assembly	Bergen Paterson	035	n/a	10 Kip	unknown	removed		X
Valve Assembly	Anchor Darling	035	n/a	10 Kip	2008	installed		X
Valve Assembly	Bergen Paterson	037	n/a	10 Kip	unknown	removed		X
Valve Assembly	Anchor Darling	037	n/a	10 Kip	2008	installed		X
Main Cylinder	Bergen Paterson	037	n/a	10 Kip	unknown	removed		X
Main Cylinder	Anchor Darling	037	n/a	10 Kip	2008	installed		X
Piston Rings	Bergen Paterson	037	n/a	10 Kip	unknown	removed		X
Piston Rings	Anchor Darling	037	n/a	10 Kip	2008	installed	1	X
Piston	Bergen Paterson	037	n/a	10 Kip	unknown	removed		X
Piston	Anchor Darling	037	n/a	10 Kip	2008	installed		X
Piston Rings	Bergen Paterson	040	n/a	10 Kip	unknown	removed		X
Piston Rings	Anchor Darling	040	n/a	10 Kip	2008	installed		X

Work Performed By <u>NSPM / Xcel Energy</u>	R/R Plan No.
System SNB, Spare Snubbers	WO No.
Construction Code USAS B31.1, 1967	Section XI R/R Code

 R/R Plan No.
 2008-24-019

 WO No.
 356231

 Section XI R/R Code
 2001 Ed / No Add

 Section XI Code Case(s)
 None

Name of	Name of	Manufacturer	National	Other		Corrected, Removed, or		Code
Component	Manufacturer	Serial No.	Board No.	Identification	Year Built	Installed	Yes	No
Valve Assembly	Bergen Paterson	040	n/a	10 Kip	unknown	removed		X
Valve Assembly	Anchor Darling	040	n/a	10 Kip	2008	installed		X
Valve Assembly	Bergen Paterson	047	n/a	10 Kip	unknown	removed		x
Valve Assembly	Anchor Darling	047	n/a	10 Kip	2008	installed		X
Valve Assembly	Bergen Paterson	054-1	n/a	10 Kip	unknown	removed		X
Valve Assembly	Anchor Darling	054-1	n/a	10 Kip	2008	installed		X
Main Cylinder	Bergen Paterson	095	n/a	10 Kip	unknown	removed		X
Main Cylinder	Anchor Darling	095	n/a	10 Kip	2008	installed		X
Valve Assembly	Bergen Paterson	095	n/a	10 Kip	unknown	removed		X
Valve Assembly	Anchor Darling	095	n/a	10 Kip	2008	installed		X
Main Cylinder	Bergen Paterson	171	n/a	10 Kip	unknown	removed		x
Main Cylinder	Anchor Darling	171	n/a	10 Kip	2008	installed		X
Piston Rings	Bergen Paterson	171	n/a	10 Kip	unknown	removed		X
Piston Rings	Anchor Darling	171	n/a	10 Kip	2008	installed		X
Main Cylinder	Bergen Paterson	500	n/a	10 Kip	unknown	removed		X
Main Cylinder	Anchor Darling	500	n/a	10 Kip	2008	installed		X

Work Performed By <u>NSPM / Xcel Energy</u>	R/R Plan No. <u>2008-24-019</u>
System <u>SNB, Spare Snubbers</u>	WO No. <u>356231</u>
Construction Code USAS B31.1, 1967	Section XI R/R Code <u>2001 Ed / No Add</u>
	Section XI Code Case(s) <u>None</u>

Name of	Name of	Manufacturer	National	Other		Corrected, Removed, or		E Code
Component	Manufacturer	Serial No.	Board No.	Identification	Year Built	Installed		No
Piston	Bergen Paterson	500	n/a	10 Kip	unknown	removed		X
Piston	Anchor Darling	500	n/a	10 Kip	2008	installed		X
Piston Rod	Bergen Paterson	500	n/a	10 Kip	unknown	removed		X
Piston Rod	Bergen Power	500	n/a	10 Kip	2008	installed		x
Piston Rings	Bergen Paterson	500	n/a	10 Kip	unknown	removed		X
Piston Rings	Anchor Darling	500	n/a	10 Kip	2008	installed		x
Valve Assembly	Bergen Paterson	500	n/a	10 Kip	unknown	removed		x
Valve Assembly	Anchor Darling	500	n/a	10 Kip	2008	installed		x
Valve Assembly	Bergen Paterson	021A	n/a	20 Kip	unknown	removed		X
Valve Assembly	Anchor Darling	021A	n/a	20 Kip	2008	installed		X
Valve Assembly	Bergen Paterson	099	n/a	20 Kip	unknown	removed	1	X
Valve Assembly	Anchor Darling	099	n/a	20 Kip	2008	installed		X
Valve Assembly	Bergen Paterson	105	n/a	20 Kip	unknown	removed		X
Valve Assembly	Anchor Darling	105	n/a	20 Kip	2008	installed		X
Valve Assembly	Bergen Paterson	116	n/a	20 Kip	unknown	removed		X
Valve Assembly	Anchor Darling	116	n/a	20 Kip	2008	installed		X

Work Performed By	NSPM / Xcel Energy		
System <u>SNB</u> ,	Spare Snubbers		
	<u>USAS B31.1, 1967</u>		

 R/R Plan No.
 2008-24-019

 WO No.
 356231

 Section XI R/R Code
 2001 Ed / No Add

 Section XI Code Case(s)
 None

Corrected, ASME Code Name of Name of Manufacturer National Other Removed, or Stamped Year Built Installed Identification Yes Component Manufacturer Serial No. Board No. No Valve 117 20 Kip unknown removed Х Bergen n/a Paterson Assembly 2008 Х Valve Anchor 117 20 Kip installed n/a Assembly Darling Х Valve Bergen 119 n/a 20 Kip unknown removed Assembly Paterson Х Valve Anchor 119 n/a 20 Kip 2008 installed Assembly Darling Valve Bergen 120 n/a 20 Kip unknown removed Х Assembly Paterson 20 Kip 2008 installed Х Valve Anchor 120 n/a Assembly Darling 20 Kip unknown removed Х Piston Bergen 130 n/a Rings Paterson Х Piston Bergen 130 20 Kip 2008 installed n/a Rings Paterson Х Valve 130 20 Kip unknown removed Bergen n/a Assembly Paterson Valve Anchor 130 n/a 20 Kip 2008 installed Х Assembly Darling Main Bergen 152 n/a 20 Kip unknown removed Х Cylinder Paterson 2008 installed Х Main Anchor 152 n/a 20 Kip Cylinder Darling Х Valve Bergen 463 n/a 20 Kip unknown removed Assembly Paterson 2008 installed Х Valve Anchor 463 20 Kip n/a Assembly Darling Piston Bergen 020 30 Kip unknown removed Х n/a Rings Paterson n/a Х Piston Bergen 020 30 Kip 2008 installed Rings Paterson

Work Performed By <u>NSPM / Xcel Energy</u>	R/R Plan No. <u>2008-24-019</u>
System SNB, Spare Snubbers	WO No. <u>356231</u>
Construction Code USAS B31.1, 1967	Section XI R/R Code 2001 Ed / No Add
	Section XI Code Case(s) <u>None</u>

Name of	Name of	Manufacturer	National	Óther		Corrected, Removed, or		Code
Component	Manufacturer	Serial No.	Board No.	Identification	Year Built	Installed	Yes	No
Main Cylinder	Bergen Paterson	. 020	n/a	30 Kip	unknown	removed		X
Main Cylinder	Anchor Darling	020	n/a	30 Kip	2008	installed		X
Valve Assembly	Bergen Paterson	020	n/a	30 Kip	unknown	removed		X
Valve Assembly	Anchor Darling	020	n/a	30 Kip	2008	installed		X
Valve Assembly	Bergen Paterson	005	n/a	30 Kip	unknown	removed		X
Valve Assembly	Anchor Darling	005	n/a	30 Kip	2008	installed		X
Valve Assembly	Bergen Paterson	100	n/a	30 Kip	unknown	removed		X
Valve Assembly	Anchor Darling	100	n/a	30 Kip	2008	installed		X
Main Cylinder	Bergen Paterson	100	n/a	30 Kip	unknown	removed		X
Main Cylinder	Anchor Darling	100	n/a	30 Kip	2008	installed		X
Valve Assembly	Bergen Paterson	101	n/a	30 Kip	unknown	removed		X
Valve Assembly	Anchor Darling	101	n/a	30 Kip	2008	installed		X
Valve Assembly	Bergen Paterson	468	n/a	30 Kip	unknown	removed		X
Valve Assembly	Anchor Darling	468	n/a	30 Kip	2008	installed].	X
Main Cylinder	Bergen Paterson	470	n/a	30 Kip	unknown	removed		X
Maìn Cylinder	Anchor Darling	470	n/a	30 Kip	2008	installed		X

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Work Perform	ned By	<u>NSPM / Xcel Energy</u>	
System	SNB,	Spare Snubbers	•
Construction	Code _	<u>USAS B31.1, 1967</u>	

R/R Plan No.	<u>2008-24-019</u>
WO No.	<u>356231</u>
Section XI R/R Code	2001 Ed / No Add
Section XI Code Case	e(s) <u>None</u>

Form NIS-2 Continuation Sheet

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Name of	Name of	Manufacturer	National	Other		Corrected, Removed, or	ASME Stan	
Component	Manufacturer	Serial No.	Board No.	Identification	Year Built	Installed	Yes	No
Valve Assembly	Bergen Paterson	470	n/a	30 Kip	unknown	removed		X
Valve Assembly	Anchor Darling	470	n/a	30 Kip	2008	installed	,	X
Valve Assembly	Bergen Paterson	520	n/a	30 Kip	unknown	removed		X
Valve Assembly	Anchor Darling	520	n/a	30 Kip	2008	installed		Х
Piston Rings	Bergen Paterson	175	n/a	130 Kip	unknown	removed		Х
Piston Rings	Anchor Darling	175	n/a	130 Kip	2008	installed		X
Main Cylinder	Bergen Paterson	175	n/a	130 Kip	unknown	removed		X
Main Cylinder	Anchor Darling	175	n/a	130 Kip	2008	installed		X
<u> </u>				 				

MONTICELLO NUCLEAR GENERATING PLANT TITLE: FORM NIS-2 OWNER'S REPORT FOR **REPAIR/REPLACEMENT ACTIVITY**

ł	3613
ł	Revision 5
ſ	Page 1 of 2

		Repair/Replacement Plan No.: <u>2008-24-020</u>							
1.	Owner <u>I</u>	NSP-Minnesota, a	an Xcel Energy (Name	Company	Date <u>8</u>	/3/2009			
<u>4</u>	14 Nicollet M	Aall, Minneapoli	s, MN 55401		Sheet <u>1</u>		of <u>2</u>	-	
2.	Plant I	Monticello Nucle		Plant	Unit <u>1</u>	,			
28	307 West Co	ounty Road 75,		55362	<u>WO-3190</u>				
		A	luiess		Repair	Organizat	ion P.O. No., Jo	DD NO.	etc.
3.	Work Perf	ormed By <u>NS</u>	PM / Xcel Ene	rgy	Type Coo	le Symbol :	Stamp <u>N/A</u>		
			Company N	ame	Authoriza	tion No.	N/A		
	<u>2807 We</u>	st County Rd. 7		MN 55362	Expiration Date <u>N/A</u>				
		Ac	ldress						
4.	Identificat	ion of System	RHRSW, P-1	11D, Class 3	3				
5.	(a) Applica	ble Constructio	n Code <u>B31.</u>	1		_, <u>1977E</u> ,	W '78AEdition	/ Adde	enda
	(b) Applica	ble Edition of S	ection XI Used	for Repair/F	Replacemen	t Activity	2001 Edition, N	lo Adde	enda
	(c) Applicable Section XI Code Case(s) <u>N/A</u>								
6.	Identificat	ion of Compone	ents						
		· · · · · · · · · · · · · · · · · · ·					Corrected,	ASME	
	Name of	Name of	Manufacturer	National	Other		Removed, or	Star	
	Component	Manufacturer	Serial No.	Board No.	Identificatio	Year Built	Installed	YES	NO
	Pump Bowl	Johnson Pump	99JC1702S	N/A	None	1999	Removed		\boxtimes

Name of	Name of	Manufacturer	National	Other		Corrected, Removed, or		Code
Component	Manufacturer	Serial No.	Board No.	Identification	Year Built	Installed	YES	NO
Pump Bowl	Johnson Pump	99JC1702S	N/A	None	1999	Removed		\boxtimes
Pump Bowl	Johnson Pump	99JC1407S	N/A	None	1999	Installed		\boxtimes
Fasteners	Sulzer	N/A	N/A	None	2009	Removed		\boxtimes
Fasteners	Sulzer	N/A	N/A	None	2009	Installed		

7. Description of Work <u>Replacement of pump bowl assembly, like for like</u>

8.	Tests	Conducted:	Hydros	tatic	
Ex	empt		Other	\boxtimes	

Pneumatic

N/A

psi

Nominal Operating Pressure Test Temp N/A

°F

NOTE:	Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8-1/2 in x 11 in, (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form. (See 4 AWI-09.04.03 [ASME Section XI Repair/Replacement Program] for further documentation guidance.)
	Frogram for further documentation guidance.)

Pressure

Approval: PCR 01148046

MONTICELLO NUCLEAR GENERATING PLANT TITLE: FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

9.	Remarks	(Applicable Manufacturer's Data Reports to be	Attached)				
	performed to "Year Built" is	The bowl assembly is inaccessible to perform a VT-2 examination. A preservice functional test was performed to verify flow is not impaired and meets system requirements. "Year Built" is the removal and the installation date for fasteners. Mod 99Q050 is applicable.					
		CERTIFICATE OF COMPLIANCE					
	We certify that the the ASME Code	ne statements made in the report are correct and that this cor , Section XI.	forms to the requirements of				
	Signed	Owner or Owner's Designee, Title	Date9/3/09				

Repair/Replacement Plan No.: 2008-24-020

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 <u>Minnesota</u> and employed by <u>Hartford Steam Boiler</u> Insp & Ins Company of Connecticut of <u>Hartford, Connecticut</u> have inspected the components described in this Owner's Report during the period <u> $\frac{9}{16}\frac{1}{168}$ </u> to <u> $\frac{813}{109}$ </u>, 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 the Owner's Report. Furthermore, neither the Inspector nor his employer *SHALL* be liable in any manner for any personal injury of property damage or a loss of any kind arising from or connected with this inspection.

A AutorCommissionsNB // 863A M J // MW 00 4428-CoInspector's SignatureNational Board, Province and Endorsements Date $\frac{\delta}{3}\frac{b9}{5}$

MONTICELLO NUCLEAR GENERATING PLANT TITLE: FORM NIS-2 OWNER'S REPORT FOR **REPAIR/REPLACEMENT ACTIVITY**

°F

N/A

		Repair/	/Replacement Plan No.: <u>2008-24-021</u>			
1.	Owner	NSP-Minnesota, an Xcel Energy Company Name	Date <u>7/29/2009</u>			
<u>41</u>	4 Nicollet	Mall, Minneapolis, MN 55401 Address	Sheet <u>1</u> of <u>2</u>			
2.	Plant	Monticello Nuclear Generating Plant	Unit <u>1</u>			
28	07 West (County Road 75, Monticello, MN 55362 Address	WO 343959 Repair Organization P.O. No., Job No. etc.			
3.	Work Pe	erformed By <u>NSPM / Xcel Energy</u> Company Name	Type Code Symbol Stamp <u>n/a</u> Authorization No. <i>n/a</i>			
	<u>2807 V</u>	Vest County Rd. 75, Monticello, MN 55362 Address	Expiration Date <u>n/a</u>			
4.	Identifica	ation of System EDG Emergency Service V	Vater (EDG-ESW), Valve SW-102, Class 3			

- 5. (a) Applicable Construction Code USAS B31.1 , 1967E /No Add Edition / Addenda
 - (b) Applicable Edition of Section XI Used for Repair/Replacement Activity 2001 Edition, No Addenda
 - (c) Applicable Section XI Code Case(s) n/a
- 6. Identification of Components

N	ame of	Name of	Manufacturer	National	Other		Corrected, Removed, or	ASME Stan	Code
Co	mponent	Manufacturer	Serial No.	Board No.	Identification	Year Built	,	YES	NO
s	W-102	OIC Corp	1573C-61-004	n/a	n/a	1969	Repaired		\boxtimes
			•						\boxtimes
7. C	7. Description of Work Removed / restored disc stem-to-nut tack weld to permit full inspection.								
8. T	Fests Con	ducted: Hyd	ucted: Hydrostatic Pneumatic Nominal Operating Pressure						

Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is NOTE: 8-1/2 in x 11 in, (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form. (See 4 AWI-09.04.03 [ASME Section XI Repair/Replacement Program] for further documentation guidance.)

,

N/A

psi

Test Temp

Pressure

Approval: PCR 01148046

Other

| |

Exempt

MONTICELLO NUCLEAR GENERATING PLANT TITLE: FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

3613 Revision 5 Page 2 of 2

	Repair/Replacement Plan No.: 2008-24-021
9.	Remarks (Applicable Manufacturer's Data Reports to be Attached)
	No PSI or pressure testing required for valve internal components. Check Valve Open/Close Test per 0255-11-IA-7. Existing disc installed in 2005 per WO 307107.
	CERTIFICATE OF COMPLIANCE
	We certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.
	Signed ISI CORDINATOR Date/31/09 Owner or Owner's Designee, Title
	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 <u>Minnesota</u> and employed by <u>Hartford Steam Boiler</u> Insp & Ins Company of Connecticut of <u>Hartford, Connecticut</u> have inspected the components described in this Owner's Report during the period <u>9/15/08</u> to <u>7/31/09</u>, 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 the Owner's Report. Furthermore, neither the Inspector nor his employer *SHALL* be liable in any manner for any personal injury of property damage or a loss of any kind arising from or connected with this inspection.

A Auluk Commissions MB 11863 A, N, J MN 004028- CO Inspector's Signature National Board, Province and Endorsements Date 7/31/04

MONTICELLO NUCLEAR GENERATING PLANT TITLE: FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

Repair/Replacement Plan No.: 2008-24-022, Rev.1

1.	Owner	NSP-Minnesota, an Xcel Energy Company	Date	7/30/200	9		
		Name					
<u>41</u>	4 Nicollet	Mall, Minneapolis, MN 55401	Sheet	1	of	2	
		Address					
2.	Plant	Monticello Nuclear Generating Plant	Unit 1				
		Name	_				
28	07 West	County Road 75, Monticello, MN 55362	WO 32	2606			
		Address	Rep	air Organi.	zation P.O. N	No., Job No. e	etc.
3.	Work Pe	erformed By NSPM / Xcel Energy	Туре С	ode Symb	ol Stamp	/a	
		Company Name	Authori	zation No.	n/a –		
	2807 V	Vest County Rd. 75, Monticello, MN 55362	Expirati	ion Date	n/a		
		Address					
4.	Identifica	ation of System <u>EFT Service Water (FSW),</u>	Class 3				
5.	(a) Applie	cable Construction Code <u>B31.1</u>		, <u>1977</u>	<u>7E / W'78A</u> E	dition / Adde	nda
							-

(b) Applicable Edition of Section XI Used for Repair/Replacement Activity 2001 Edition, No Addenda

(c) Applicable Section XI Code Case(s) <u>na</u>

6. Identification of Components

ASME Code Corrected, National Name of Manufacturer Other Removed, or Stamped Name of Installed Manufacturer Serial No. Board No. Identification Year Built Component YES NO ESW5-3"-HBD NSP n/a 1981 Removed \boxtimes n/a n/a ESW5-3"-HBD 2009 Installed \boxtimes Xcel Energy n/a n/a n/a

7. Description of Work Like for like replacement of piping components due to thinning.

8. Tests Conducted:	Hydrostatic 🔲	Pneumatic 🗌	Nominal Operating Pressure		
Exempt	Other	Pressure 78.5	psi Test Temp <i>n/a</i>	°F	

<u>NOTE:</u>	Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is
	8-1/2 in x 11 in, (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered
	and the number of sheets is recorded at the top of this form. (See 4 AWI-09.04.03 [ASME Section XI Repair/Replacement
	Program] for further documentation guidance.)

Approval: PCR 01148046

MONTICELLO NUCLEAR GENERATING PLANT TITLE: FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

3613 Revision 5 Page 2 of 2

Repair/Replacement Plan No.:	2008-24-022, Rev.1

9. Remarks (Applicable Manufacturer's Data Reports to be Attached)

Welds were examined by MT or PT for construction code. System leakage test with VT-2 at nominal operating pressure. Existing bolting materials were reused.

CERTIFICATE OF COMPLIANC	Έ
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We certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.

Signed	TRILLAS , SECTION XI ISI COORD.	Date 7/31/09
-	Owner or Owner's Designee, Title	

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 <u>Minnesota</u> and employed by <u>Hartford Steam Boiler</u> Insp & Ins Company of Connecticut of <u>Hartford, Connecticut</u> have inspected the components described in this Owner's Report during the period <u>"I'I'I'Og</u> to <u>I'I'I'Og</u>, 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 the Owner's Report. Furthermore, neither the Inspector nor his employer *SHALL* be liable in any manner for any personal injury of property damage or a loss of any kind arising from or connected with this inspection.

Inspector's Signature Commissions MBII 8() A, N, I 19N 00 4328- (d National Board, Province and Endorsements Date 7/31/39

MONTICELLO NUCLEAR GENERATING PLANT TITLE: FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

3613 Revision 5 Page 1 of 2

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	Rep	air/Replacement Plan No.: <u>2008-24-023</u>	
1.	Owner <u>NSP-Minnesota, an Xcel Energy Company</u> Name	Date <u>7/27/2009</u>	
<u>41</u>	14 Nicollet Mall, Minneapolis, MN 55401 Address	Of <u>5</u>	
2.	Plant <u>Monticello Nuclear Generating Plant</u>	Unit	
<u>28</u>	B07 West County Road 75, Monticello, MN 55362	WO-320292	
3.		Repair Organization P.O. No., Job No. etc. Type Code Symbol Stamp <u>n/a</u>	<u> </u>
	2807 West County Rd. 75, Monticello, MN 5536	Authorization No. <u>n/a</u> 2 Expiration Date <u>n/a</u>	_
4.	Address Identification of System <u>Control Rod Drive (CRD</u>), Class 1	
5.	(a) Applicable Construction Code <u>ASME Section</u>	/// , <u>1965 / No</u> Edition / Addenda	
	(b) Applicable Edition of Section XI Used for Repair	r/Replacement Activity 2001 Edition, No Addenda	
	(c) Applicable Section XI Code Case(s) <i>n/a</i>		

6. Identification of Components

Name of	Name of	Manufacturer	National	Other		Corrected, Removed, or		Code
Component	Manufacturer	Serial No.	Board No.	Identification	Year Built	Installed	YES	NO
SEE	SUBSEQUENT	PAGES	-	-	-	-		

7. Description of Work				electe	ed CRDM's a	nd replace	d with pro	eviously in-servi	ce refurbi	shed	
8.	Tests	Conducted:	Hydros	static		Pneum	atic 🔲	Nom	inal Operating P	ressure	
Exe	empt		Other	\boxtimes		Pressure	*1003	psi	Test Temp	*189	_°F
<u>NOTE:</u>		<i>,</i> ,	?) informati of sheets is	ion in ite record	ems 1 t ed at th	hrough 6 on this ne top of this for	s report is inc	luded on ea	(1) size is ch sheet, and (3) eac ASME Section XI Rep		
Γ		Approval:	PCR	01148	3046						7

MONTICELLO NUCLEAR GENERATING PLANT FORM NIS-2 OWNER'S REPORT FOR TITLE: **REPAIR/REPLACEMENT ACTIVITY**

3613 5 Revision Page 2 of 2

Sheet 2 of 5

Repair/Replacement Plan No.: 2008-24-023

9. Remarks

(Applicable Manufacturer's Data Reports to be Attached)

Drives exchanged per procedure 9309 and tested per procedure 9019. *Pressure test not required per 4th Interval ISI Relief Reg. #7, however, verified SAT w/ VT-2 per System Leakage Test 0255-20-IIC-2.

CERTIFICATE OF COMPLIANCE	,
We certify that the statements made in the report are correct and that this c the ASME Code, Section XI.	onforms to the requirements of
Signed Towner or Owner's Designee, Title	Date7/27/09

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 <u>Minnesota</u> and employed by <u>Hartford Steam Boiler</u> Insp & Ins Company of Connecticut of Hartford, Connecticut have inspected the components described in this Owner's Report during the period _______ 16/9/08 to ______ to ______ 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 the Owner's Report. Furthermore, neither the Inspector nor his employer SHALL be liable in any manner for any personal injury of property damage or a loss of any kind arising from or connected with this inspection.

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 K</t National Board, Province and Endorsements

7/28/09 Date

Work Per	formed By _	NSPM / Xcel Energ	<u>IV</u>
System	Control Roc	I Drive (CRD) Class	1
Construc	tion Code _	ASME III, 1965	

R/R Plan No.	<u>2008-24-023</u>
WO No.	320292
Section XI R/R Code	2001 Ed / No Add
Section XI Code Case	e(s) <u>None</u>

Form NIS-2 Continuation Sheet

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Name of	Name of	Manufacturer	National	Other		Corrected, Removed, or		Code
Component	Manufacturer	Serial No.	Board No.	Identification	Year Built	Installed	Yes	No
CRD 06-19	General Electric	411	n/a	n/a	unknown	removed		X
CRD 06-19	General Electric	1484	n/a	n/a	2009	installed		X
CRD 06-27	General Electric	537A	n/a	n/a	unknown	removed		X
CRD 06-27	General Electric	351	n/a	n/a	2009	installed		X
CRD 06-35	General Electric	325	n/a	n/a	unknown	removed		X
CRD 06-35	General Electric	582	n/a	n/a	2009	installed		X
CRD 10-11	General Electric	73	n/a	n/a	unknown	removed		X
CRD 10-11	General Electric	795	n/a	n/a	2009	installed		X
CRD 10-43	General Electric	926	n/a	n/a	unknown	removed		X
CRD 10-43	General Electric	568A	n/a	n/a	2009	installed		X
CRD 14-11	General Electric	459	n/a	n/a	unknown	removed		X
CRD 14-11	General Electric	722	n/a	n/a	2009	installed		X
CRD 14-19	General Electric	536	n/a	n/a	unknown	removed		X
CRD 14-19	General Electric	353	n/a	n/a	2009	installed		X
CRD 14-35	General Electric	793	n/a	n/a	unknown	removed		X
CRD 14-35	General Electric	954	n/a	n/a ·	2009	installed		X

Work Per	formed By _	<u>NSPM / Xcel Energy</u>
System	Control Roc	Drive (CRD) Class 1
Construc	tion Code	ASME III, 1965

R/R Plan No.	<u>2008-24-023</u>
WO No.	<u>320292</u>
Section XI R/R Code	2001 Ed / No Add
Section XI Code Case	e(s) <u>None</u>

ASME Code Corrected, Name of Manufacturer National Other Removed, or Stamped Name of Component Manufacturer Serial No. Board No. Identification Year Built Installed Yes No 695 CRD 18-43 n/a n/a unknown removed Х General Electric CRD 18-43 A6718 2009 Х General n/a n/a installed Electric X 152 CRD 18-31 General n/a n/a unknown removed Electric CRD 18-31 General 613 2009 installed Х n/a n/a Electric CRD 22-03 General 816 n/a unknown removed Х n/a Electric n/a 2009 installed Х CRD 22-03 General 625 n/a Electric CRD 22-07 553 unknown removed Х General n/a n/a Electric CRD 22-07 2009 installed Х General 1547 n/a n/a Electric CRD 22-11 General 388 n/a n/a unknown removed Х Electric Х CRD 22-11 General 603 n/a n/a 2009 installed Electric Х 12 unknown removed CRD 22-43 Géneral n/a n/a Electric CRD 22-43 694 n/a 2009 installed Х General n/a Electric 531 Х CRD 26-03 n/a n/a unknown removed General Electric General 831 2009 installed Х CRD 26-03 n/a n/a Electric Х CRD 26-47 General 871 n/a unknown removed n/a Electric CRD 26-47 General 642 n/a n/a 2009 installed Х Electric

Work Per	formed By _	NSPM / Xcel Energy
System	Control Roc	I Drive (CRD) Class 1
Construc	tion Code _	ASME III, 1965

R/R Plan No.	<u>2008-24-023</u>
WO No.	320292
Section XI R/R Code	2001 Ed / No Add
Section XI Code Case	e(s) <u>None</u>

ASME Code Corrected, Name of Name of Manufacturer National Other Removed, or Stamped Manufacturer Serial No. Board No. Identification Year Built Installed Component Yes No 825 CRD 34-39 General n/a n/a unknown removed Х Electric CRD 34-39 General 756 2009 installed Х n/a n/a Electric Х CRD 34-47 General 512 n/a unknown removed n/a Electric Х CRD 34-47 General 803 n/a n/a 2009 installed Electric Х CRD 38-11 General 521 n/a n/a unknown removed Electric Х CRD 38-11 General 852 n/a n/a 2009 installed Electric

MONTICELLO NUCLEAR GENERATING PLANT TITLE: FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY

	Repair	/Replaceme	ent Plan No.	:2008-24	4-024
1.	Owner <u>NSP-Minnesota, an Xcel Energy Company</u> Name	Date	7/28/2009		
<u>41</u>	4 Nicollet Mall, Minneapolis, MN 55401 Address	Sheet	1		of <u>5</u>
2.	Plant Monticello Nuclear Generating Plant Name	Unit <u>1</u>			
28	07 West County Road 75, Monticello, MN 55362	WO-320	292		
	Address	Repa	ir Organiza	ation P.C	D. No., Job No. etc.
3.	Work Performed By NSPM / Xcel Energy	Туре Со	de Symbo	l Stamp	n/a
	Company Name	Authorization No. n/a			
	2807 West County Rd. 75, Monticello, MN 55362	Expiratio	on Date	n/a	
	Address				
4.	Identification of System <u>Control Rod Drive (CRD)</u>	Class 1			
5.	(a) Applicable Construction Code <u>ASME Section III</u>		, <u>1965</u> ,	/ No	_Edition / Addenda
	(b) Applicable Edition of Section XI Used for Repair/R	eplaceme	nt Activity	<u>2001 Ec</u>	dition, No Addenda
	(c) Applicable Section XI Code Case(s) <u>n/a</u>				
6.	Identification of Components				

Name of	Name of	Manufacturer	National	Other		Corrected, Removed, or		Code
Component	Manufacturer	Serial No.	Board No.	Identification	Year Built	Installed	YES	NO
SEE	SUBSEQUENT	PAGES	-	-	-	· _		
						-		

7. Description of Work Replacement of flange fasteners (8 each) for 19 CRDM's exchanged with refurbished spares during outage.

8.	Tests Conducted:	Hydrostatic 🔲	Pneumatic	Nominal Operating Pressure	
Exe	empt 🗌	Other	Pressure	_psi Test Temp	_°F

 Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8-1/2 in x 11 in, (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form. (See 4 AWI-09.04.03 [ASME Section XI Repair/Replacement
Program] for further documentation guidance.)

Approval:	PCR 01148046		
••			

MONTICELLO NUCLEAR GENERATING PLANT FORM NIS-2 OWNER'S REPORT FOR TITLE: **REPAIR/REPLACEMENT ACTIVITY**

Sheet 2 of 5

Repair/Replacement Plan No.: 2008-24-024

9. Remarks (Applicable Manufacturer's Data Reports to be Attached)

Reference Alt.'s 00A026 and 02A040.

Drives exchanged per procedure 9309 and tested per procedure 9019.

VT-1 PSI performed on replacement capscrews. No pressure testing required.

* Capscrews from PO P007534 were built in 2002. Capscrews from PO 24579 were built in 2008.

CERTIFICATE OF COMPLIANCE
We certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.
Signed SECTION XI ISI CORD. Date 7/28/09 Owner or Owner's Designee, Title

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 <u>Minnesota</u> and employed by <u>Hartford Steam Boiler</u> Insp & Ins Company of Connecticut of <u>Hartford, Connecticut</u> have inspected the components described in this Owner's Report during the period <u>ioly las</u> to <u>7128</u> 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 the Owner's Report. Furthermore, neither the Inspector nor his employer SHALL be liable in any manner for any personal injury of property damage or a loss of any kind arising from or connected with this inspection.

 King D. Subuli
 Commissions
 NO 11863 A Nit HW 00 402 F-00

 Inspector's Signature
 National Board, Province and Endorsements

Date 7/28/09

Work Per	formed By _	NSPM / Xcel Energy	
System	Control Roc	I Drive (CRD) Class 1	
Construc	tion Code _	ASME III, 1965	-

(8) Capscrews

R/R Plan No.	<u>2008-24-024</u>
WO No.	320292
Section XI R/R Code	2001 Ed / No Add
Section XI Code Case	e(s) <u>None</u>

ASME Code Corrected. Name of Name of Manufacturer National Other Removed, or Stamped Manufacturer Serial No. Board No. Identification Year Built Installed Component Yes No CRD 06-19 n/a Х Nova n/a n/a unknown removed (8) Capscrews Х CRD 06-19 Nova n/a 2009 installed n/a n/a (8) Capscrews unknown Х CRD 06-27 Nova n/a n/a n/a removed (8) Capscrews 2009 installed Х CRD 06-27 Nova n/a n/a n/a (8) Capscrews Х CRD 06-35 unknown removed Nova n/a n/a n/a (8) Capscrews Х CRD 06-35 Nova n/a n/a n/a 2009 installed (8) Capscrews CRD 10-11 Nova n/a n/a n/a unknown removed Х (8) Capscrews CRD 10-11 2009 installed Х Nova n/a n/a n/a (8) Capscrews Х CRD 10-43 Nova n/a n/a n/a unknown removed (8) Capscrews CRD 10-43 2009 installed Х Nova n/a n/a n/a (8) Capscrews Х CRD 14-11 Nova n/a n/a n/a unknown removed (8) Capscrews CRD 14-11 2009 installed Х Nova n/a n/a n/a (8) Capscrews CRD 14-19 Х unknown removed Nova n/a n/a n/a (8) Capscrews CRD 14-19 2009 installed Х Nova n/a n/a n/a (8) Capscrews CRD 14-35 unknown removed Х Nova n/a n/a n/a (8) Capscrews Х CRD 14-35 Nova n/a n/a n/a 2009 installed

Work Pe	formed By	NSPM / Xcel Energy
System	Control Roo	Drive (CRD) Class 1
Construc	tion Code _	ASME III, 1965

R/R Plan No.	<u>2008-24-024</u>
WO No.	<u>320292</u>
Section XI R/R Code	2001 Ed / No Add
Section XI Code Case	e(s) <u>None</u>

Name of	Name of	Manufacturer	National	Other		Corrected, Removed, or	ASME Stan	Code
Component	Manufacturer	Serial No.	Board No.	Identification	Year Built	Installed	Yes	No
CRD 18-43 (8) Capscrews	Nova	n/a	n/a	n/a	unknown	removed		X
CRD 18-43 (8) Capscrews	Nova	n/a	n/a	n/a	2009	installed		X
CRD 18-31 (8) Capscrews	Nova	n/a	n/a	n/a	unknown	removed		x
CRD 18-31 (8) Capscrews	Nova	n/a	n/a	n/a	2009	installed		X
CRD 22-03 (8) Capscrews	Nova	n/a	n/a	n/a	unknown	removed		X
CRD 22-03 (8) Capscrews	Nova	n/a	n/a	n/a	2009	installed		X
CRD 22-07 (8) Capscrews	Nova	n/a	n/a	n/a	unknown	removed		x
CRD 22-07 (8) Capscrews	Nova	n/a	n/a	n/a	2009	installed		X
CRD 22-11 (8) Capscrews	Nova	n/a	n/a	n/a	unknown	removed		X
CRD 22-11 (8) Capscrews	Nova	n/a	n/a	ņ/a	2009	installed		x
CRD 22-43 (8) Capscrews	Nova	n/a	n/a	n/a	unknown	removed		x
CRD 22-43 (8) Capscrews	Nova	n/a	n/a	n/a	2009	installed		x
CRD 26-03 (8) Capscrews	Nova	n/a	n/a	n/a	unknown	removed		X
CRD 26-03 (8) Capscrews	Nova	n/a	n/a	n/a	2009	installed		×
CRD 26-47 (8) Capscrews	Nova	n/a	n/a	n/a	unknown	removed		X
CRD 26-47 (8) Capscrews	Nova	n/a	n/a	n/a	2009	installed		X

Work Pe	formed By _	<u>NSPM / Xcel Energy</u>
System	Control Roa	Drive (CRD) Class 1
Construc	tion Code	

R/R Plan No.	2008-24-024
WO No.	320292
Section XI R/R Code	2001 Ed / No Add
Section XI Code Case	e(s) <u>None</u>

Name of	Name of	Manufacturer	National	Other		Corrected, Removed, or	ASME	Code
Component	Manufacturer	Serial No.	Board No.	Identification	Year Built	Installed	Yes	No
CRD 34-39 (8) Capscrews	Nova	n/a	n/a	n/a	unknown	removed		X
CRD 34-39 (8) Capscrews	Nova	n/a	n/a	n/a	2009	installed		X
CRD 34-47 (8) Capscrews	Nova	n/a	n/a	n/a	unknown	removed		X
CRD 34-47 (8) Capscrews	Nova	n/a	n/a	' n/a	2009	installed		X
CRD 38-11 (8) Capscrews	Nova	n/a	n/a	n/a	unknown	removed		X
CRD 38-11 (8) Capscrews	Nova	n/a	n/a	n/a	2009	installed		X
							-	

MONTICELLO NUCLEAR GENERATING PLANT 3613 TITLE: FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY Revision 5 Revision 5 Page 1 of 2

Repair	Replacement Plan No.:2008-24-025
1. Owner <u>NSP-Minnesota, an Xcel Energy Company</u> Name	Date <u>8/3/2009</u>
414 Nicollet Mall, Minneapolis, MN 55401 Address	Sheet <u>1</u> of <u>2</u>
2. Plant Monticello Nuclear Generating Plant Name	Unit <u>1</u>
2807 West County Road 75, Monticello, MN 55362 Address	WO-343738 Repair Organization P.O. No., Job No. etc.
3. Work Performed By <u>NSPM / Xcel Energy</u> Company Name <u>2807 West County Rd. 75, Monticello, MN 55362</u> Address	Type Code Symbol Stamp <u>n/a</u> Authorization No. <u>n/a</u> Expiration Date <u>n/a</u>
4. Identification of System <u>RHR Service Water (RHRS</u>	SW), CV-1728, Class 3
 5. (a) Applicable Construction Code <u>B31.1</u> (b) Applicable Edition of Section XI Used for Repair/R (c) Applicable Section XI Code Case(s) <u>n/a</u> 	, <u>77E / W'78A</u> Edition / Addenda eplacement Activity <u>2001 Edition, No Addenda</u>
6. Identification of Components	

Name of	Name of	Manufacturer	National	Other		Corrected, Removed, or	ASME Starr	
Component	Manufacturer	Serial No.	Board No.	Identification	Year Built	Installed	YES	NO
Plug	Flowserve	47907-001	n/a	n/a	2005	Removed		\boxtimes
Plug	Flowserve	1	n/a	Ht. Code 91772	2009	Installed		\boxtimes
7. Description of Work Like-for-like replacement of plug and the integral stem due to stem galling.								
8. Tests Cor	nducted: Hyd	trostatic 🗌	Pneum	atic 🔲	Nominal	Operating Pre	ssure	

 Exempt
 Other
 Pressure
 n/a
 psi
 Test Temp
 n/a
 °F

 NOTE:
 Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is
 8-1/2 in x 11 in, (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form. (See 4 AWI-09.04.03 [ASME Section XI Repair/Replacement Program] for further documentation guidance.)

Approval: PCR 01148046

MONTICELLO NUCLEAR GENERATING PLANT 361			
TITLE:	FORM NIS-2 OWNER'S REPORT FOR	Revision 5	
	REPAIR/REPLACEMENT ACTIVITY	Page 2 of 2	

		Repair/Replacement Plan No.: 2008-24-025
9.	Remarks	(Applicable Manufacturer's Data Reports to be Attached)
	Alteration 95A0	e 87Z015 is applicable to valve. 011 is applicable to plug. per WO PMT Attachment: Stroke time open (STO) and position indication (PIT).
		CERTIFICATE OF COMPLIANCE
	We certify that the the ASME Code, S	statements made in the report are correct and that this conforms to the requirements of Section XI.
	Signed	Owner or Owner's Designee, Title

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 <u>Minnesota</u> and employed by <u>Hartford Steam Boiler</u> <u>Insp & Ins Company of Connecticut</u> of <u>Hartford, Connecticut</u> have inspected the components described in this Owner's Report during the period <u> $\frac{G}{2}\sqrt{10g}$ </u> to <u> $\frac{\delta}{2}\sqrt{2}\sqrt{10g}$ </u>, 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 the Owner's Report. Furthermore, neither the Inspector nor his employer *SHALL* be liable in any manner for any personal injury of property damage or a loss of any kind arising from or connected with this inspection.

Inspector's Signature Commissions Mg 11863 A.W. MW JU 4028-CO National Board, Province and Endorseme National Board, Province and Endorsements 8/3/89 Date

				Repair/	Replacem	ient Plan N	o.: <u>2008-2</u> 4	4-026	·
1.	Owner	NSP-Minnesota,	an Xcel Energy (_{Name}	Company	Date	7/31/200	9		
<u>41</u>	4 Nicollet	Mall, Minneapol	s, MN 55401		Sheet	1		_of <u>2</u> _	,,,
2.	Plant	Monticello Nucl	ear Generating _{Name}	Plant	Unit 1		<u></u>		
28	07 West (County Road 75,	Monticello MN	55362	WO-34	6874			
			dress				zation P.C	D. No., J	ob No. etc.
3.	Work Pe	erformed By <u>NS</u>	SPM / Xcel Ene Company N		• •	ode Symb zation No.	-	<u>n/a</u>	
	2807 V	Vest County Rd.	75. Monticello.	MN 55362		ion Date	n/a		· · · · · · · · · · · · · · · · · · ·
			dress						
4.	Identific	ation of System	Reactor Recir	culation (RE	C), Class	1			
5.	(a) Applio	cable Constructio	n Code <u>B31.</u>	1		, <u>77E</u>	/ W'78A	Editior	n / Addenda
	(b) Applie	cable Edition of S	ection XI Used	for Repair/R	eplaceme	ent Activity	<u>2001 E</u>	dition, I	Vo Addenda
	(c) Applic	cable Section XI	Code Case(s)	n/a					
6.	Identific	ation of Compone	ents						
—		• T		· · · · · · · · · · · · · · · · · · ·		<u> </u>	Cor	rected	ASME Code

Norma	Nome of	Manufashuran	Matternal	Other		Corrected,		Code
Name of	Name of	Manufacturer	National	Other		Removed, or	Stan	nped
Component	Manufacturer	Serial No.	Board No.	Identification	Year Built	Installed	YES	NO
Decon test assv	Guyon Alloys	1N0177-3	n/a	na	1993	Removed		\boxtimes
Decon flange	Dubose	N090126-1-2	n/a	na	2009	Installed		\boxtimes

7. Description of Work Remove decontamination test assembly and install blind flange.

8. Test	s Conducted:	Hydrost	tatic	Pneuma	atic 🗌	Nom	inal Operating P	ressure	\boxtimes
Exempt		Other		Pressure	1003	psi	Test Temp	189	_°F
<u>NOTE:</u>	Supplemental sł 8-1/2 in x 11 in, ((1) size is ch sheet, and (3) eac	h sheet is n	umbered

and the number of sheets is recorded at the top of this form. (See 4 AWI-09.04.03 [ASME Section XI Repair/Replacement Program] for further documentation guidance.)

MONTICELLO NUCLEAR GENERATING PLANT 3613 TITLE: FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY Revision 5 Page 2 of 2

Repair/Replacement Plan No.:	2008-24-026

9. Remarks (Applicable Manufacturer's Data Reports to be Attached)

The decontamination test assembly installed circa 1993 on P-200A was removed and replaced with a blind flange using the existing bolting materials.

VT-2 exam during Class 1 pressure test 0255-20-IIC-2 per work order PMT (reference WO-344337).

CERTIFICATE OF COMPLIANCE	
We certify that the statements made in the report are correct and that this c the ASME Code, Section XI.	conforms to the requirements of
Signed Towner , Section XI 151 Coord Owner or Owner's Designee, Title	Date7/31/09

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 <u>Minnesota</u> and employed by <u>Hartford Steam Boiler</u> Insp_& Ins Company of Connecticut of <u>Hartford, Connecticut</u> have inspected the components described in this Owner's Report during the period <u>ICICION</u> to <u>ICICION</u>, 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.

A Bulli Commissions <u>NB 11863 A, N, F MW 004028-CO</u> Inspector's Signature National Board Province and Endorsements Date 7/31/29

Repa	ir/Replacen	nent Plan No.:2008-24-027	
	Data	7/24/2000	

1.	Owner	NSP-Minnesola,	an Acel Energy Company	Dale	1/31/200	9	
			Name				
41	4 Nicollet	Mall, Minneapoli	s, MN 55401	Sheet	1	of 2	
		Ad	ddress				
2.	Plant	Monticello Nucl	ear Generating Plant	Unit 1			
			Name				
28	07 West (County Road 75,	Monticello, MN 55362	WO-354	4743		
		Ad	dress	Repa	air Organi	zation P.O. No., Job No. e	tc.
3.	Work Pe	erformed By NS	SPM / Xcel Energy	Туре Со	ode Symb	ol Stamp <i>n/a</i>	
			Company Name	Authoriz	zation No.	n/a	
	2807 V	Vest County Rd. 1	75, Monticello, MN 55362	Expiration	on Date	n/a	
		Ac	ddress				
4.	Identifica	ation of System	Auto Pressure Relief (APR) RV-2-71	F, Class	1	
_	/ \ ^ !!				(

- 5. (a) Applicable Construction Code <u>ASME Section III</u>, <u>1968E / W'68A</u> Edition / Addenda
 - (b) Applicable Edition of Section XI Used for Repair/Replacement Activity 2001 Edition, No Addenda
 - (c) Applicable Section XI Code Case(s) <u>n/a</u>
- 6. Identification of Components

Name of	Name of	Manufacturer	National	Other		Corrected, Removed, or	ASME Stan	Code 1ped
Component	Manufacturer	Serial No.	Board No.	Identification	Year Built	Installed	YES	NO
Main Disc	Target Rock	593	n/a	Body s/n 25	2008	Removed		\boxtimes
Main Disc	Target Rock	605	n/a	Body s/n 25	2008	Installed		\boxtimes

7. Description of Work The main disc replaced like for like with a refurbished spare from stock.

8. Tests C	onducted:	Hydrost	tatic 🗌	Pneuma	atic 🗌	Nomir	al Operating P	ressure	
Exempt		Other		Pressure	n/a	psi	Test Temp	n/a	_°F

NOTE:	Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is
	8-1/2 in x 11 in, (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered
	and the number of sheets is recorded at the top of this form. (See 4 AWI-09.04.03 [ASME Section XI Repair/Replacement
	Program] for further documentation guidance.)

		. Repair/Replacement Plan No.:	2008-24-027
9.	Remark	s (Applicable Manufacturer's Data Reports to be Atta	ached)
	•	ec 21A9206 applies.	
		Ive test requirements were met by set point testing with steam pe	er 4280-03-PM.
		stallation testing performed per procedure 0112.	
		placement disc was originally in valve assembly s/n 122. Built" is the removal and the installation date.	
	rear		
		CERTIFICATE OF COMPLIANCE	
		that the statements made in the report are correct and that this conform Code, Section XI.	ms to the requirements of
	Signed	Owner or Owner's Designee, Title	Date7/31/09

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 <u>Minnesota</u> and employed by <u>Hartford Steam Boiler</u> Insp & Ins Company of Connecticut of <u>Hartford, Connecticut</u> have inspected the components described in this Owner's Report during the period <u>IIICOR</u> to <u>7/3//07</u>, 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.

Inspector's Signature Commissions <u>VB 1186, 3 A WJ HW 004028-CU</u> National Board, Province and Endorsements Date 7/31/de

		•	•	
1.	Owner	NSP-Minnesota, an Xcel Energy Company	Date	7/31/2009
		Name		
<u>41</u>	4 Nicollet	Mall, Minneapolis, MN 55401	Sheet	<u>1</u> of <u>2</u>
		Address		
2.	Plant	Monticello Nuclear Generating Plant	Unit 1	1
		Name	-	
28	07 West	County Road 75, Monticello, MN 55362	WO-35	5111
		Address	Rep	air Organization P.O. No., Job No. etc.
3.	Work Pe	erformed By NSPM / Xcel Energy	Type C	ode Symbol Stamp <i>n/a</i>
		Company Name	• •	zation No. n/a
	2807 W	Vest County Rd. 75, Monticello, MN 55362		ion Date <i>n/a</i>
	2007 1	Address	Expirat	
		7.001000		
4.	Identific	ation of System Core Spray (CSP), MO-174	49. Class	2
5.	(a) Applio	cable Construction Code <u>B31.1</u>		, <u>1977E / W'78A</u> Edition / Addenda
	(b) Applie	cable Edition of Section XI Used for Repair/Re	eplaceme	ent Activity 2001 Edition, No Addenda
	(c) Applic	cable Section XI Code Case(s) n/a		

Repair/Replacement Plan No.: 2008-24-028

6. Identification of Components

Name of	Name of	Manufacturer	National	Other		Corrected, Removed, or		Code
Component	Manufacturer	Serial No.	Board No.	Identification	Year Built	Installed	YES	NO
MO-1749	Anchor Darling	4543-68*	n/a	n/a	1969	Corrected		\boxtimes
	C \ A () \ 14 /			the strength of the		/		

7. Description of Work Welding on MO-1749 disc nut to disc for disassembly / reassembly.

8. Tests C	onducted:	Hydrostatic	Pneumatic	Nomina	I Operating Pressure	
Exempt		Other	Pressure	 psi	Test Temp	°F

NOTE:	Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is
	8-1/2 in x 11 in, (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered
	and the number of sheets is recorded at the top of this form. (See 4 AWI-09.04.03 [ASME Section XI Repair/Replacement
	Program] for further documentation guidance.)

MONTICELLO NUCLEAR GENERATING PLANT FORM NIS-2 OWNER'S REPORT FOR TITLE: **REPAIR/REPLACEMENT ACTIVITY**

reassembly of the valve to accommodate maintenance activities for EC-10869. * Valve serial number retrieved from work plan field observation. Disc markings recorded as HT 5208D. No pressure testing or PSI required. Position indication testing (PIT) was performed per work order preoperational testing instructions.					
CERTIFICATE OF COMPLIANCE					
We certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.					
Signed Date 8/4/09 Owner or Owner's Designee, Title					

(Applicable Manufacturer's Data Reports to be Attached) The disc nut to disc tack weld was required to be removed and rewelded to permit disassembly and

Repair/Replacement Plan No.: 2008-24-028

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 <u>Minnesota</u> and employed by <u>Hartford Steam Boiler</u> Insp & Ins Company of Connecticut of Hartford, Connecticut have inspected the components described in this Owner's Report during the period 3/11/09 to 8/9/39and 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 the Owner's Report. Furthermore, neither the Inspector nor his employer SHALL be liable in any manner for any personal injury of property damage or a loss of any kind arising from or connected with this inspection.

The sector's SignatureCommissionsNB11863 A, NJ 14W 004328-CONational Board, Province and Endorsements Date $\mathcal{E}/4/\mathcal{OG}$

9. Remarks

Repair/Replacement Plan No.: 2008-24-029, Rev.1

	٩			
1.	Owner	NSP-Minnesota, an Xcel Energy Company Name	Date	8/4/2009
<u>41</u>	4 Nicollet	Mall, Minneapolis, MN 55401	Sheet	<u>1</u> of <u>2</u>
		Address		
2.	Plant	Monticello Nuclear Generating Plant	Unit 1	
		Name	_	
28	07 West 0	County Road 75, Monticello, MN 55362	WO-374	4028
		Address	Repa	air Organization P.O. No., Job No. etc.
3.	Work Pe	rformed By NSPM / Xcel Energy	Type Co	ode Symbol Stamp N/A
		Company Name	• •	zation No. N/A
	2807 W	est County Rd. 75, Monticello, MN 55362	Expirati	on Date N/A
		Address		<u></u>
4.	Identifica	ation of System RHR Service Water (RSW/I	ESW), Lo	oop A, Class 3
			, ·	
5.	(a) Applic	able Construction Code <u>B31.1</u>		, <u>1977E / W'78A E</u> dition / Addenda

(b) Applicable Edition of Section XI Used for Repair/Replacement Activity 2001 Edition, No Addenda

(c) Applicable Section XI Code Case(s) <u>N/A</u>

6. Identification of Components

Name of	Name of	Manufacturer	National	Other		Corrected, Removed, or	1	Code
Component	Manufacturer	Serial No.	Board No.	Identification	Year Built	•	YES	NO
SW9-18"-GF	Navco	N/A	N/A	N/A	1969	Removed		\boxtimes
SW9-18"-GF	Dubose	N/A	N/A	N/A	2009	Installed		\boxtimes
SW58-16"-GF	Navco	N/A	N/A	N/A	1969	Removed		
SW58-16"-GF	Dubose	N/A	N/A	N/A	2009	Installed		\boxtimes

7. Description of Work Replace A-Loop RHRSW piping components due to MIC thinning.

8. Tests C	onducted:	Hydrostatio		Pneum	atic 🗌	Nom	inal Operating P	ressure	\boxtimes
Exempt		Other]	Pressure	238	psi	Test Temp	N/A	°F

Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is
8-1/2 in x 11 in, (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered
and the number of sheets is recorded at the top of this form. (See 4 AWI-09.04.03 [ASME Section XI Repair/Replacement
Program] for further documentation guidance.)

MONTIC	3613		
TITLE:	FORM NIS-2 OWNER'S REPORT FOR	Revision	5
	REPAIR/REPLACEMENT ACTIVITY	Page 2 of	2

Sheet 2 of 2 Repair/Replacement Plan No.: 2008-24-029, Rev.1

9. Remarks (Applicable Manufacturer's Data Reports to be Attached)

Approx. 80 feet of pipe and associated fittings and flanges were replaced in the intake structure due to MIC thinning. Associated valves were reused. Post-weld heat treat and construction surface exams were performed, as applicable. System leakage test with VT-2 performed per WO PMT. Check test open and close tests (CTO/CTC) were performed on affected valves RHRSW-48-1 and RHRSW-50-1. Stroke time open and closed tests (STO/STC) were performed on affected valve RHRSW-3-1. Valve testing per WO PMT.

Repair/Replacement to associated supports was performed under a separate R/R Plan.

CERTIFICATE OF COMPLIANCE	
We certify that the statements made in the report are correct and that this c the ASME Code, Section XI.	conforms to the requirements of
Signed Drothinger, SECTION XI ISI COORD Owner or Owner's Designee, Title	Date 8/4/09

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 <u>Minnesota</u> and employed by <u>Hartford Steam Boiler</u> Insp & Ins Company of Connecticut of <u>Hartford</u>, Connecticut have inspected the components described in this Owner's Report during the period 1/28/07 to 8/5/09 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 the Owner's Report. Furthermore, neither the Inspector nor his employer SHALL be liable in any manner for any personal injury of property damage or a loss of any kind arising from or connected with this inspection.

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 Inspector's Signature
 National Board, Province and Endorsements

Date 8/5/09

	Repa	ir/Replacement Plan No.: <u>2008-24-030</u>
1.	Owner <u>NSP-Minnesota, an Xcel Energy Company</u> Name	Date <u>7/29/2009</u>
<u>41</u>	4 Nicollet Mall, Minneapolis, MN 55401 Address	_ Sheet <u>1</u> of <u>2</u>
2.	Plant Monticello Nuclear Generating Plant Name	Unit <u>1</u>
28	07 West County Road 75, Monticello, MN 55362	WO-354410
	Address	Repair Organization P.O. No., Job No. etc.
3.	Work Performed By <u>NSPM / Xcel Energy</u> Company Name <u>2807 West County Rd. 75, Monticello, MN 55362</u> Address	_ Type Code Symbol Stamp <u>n/a</u> Authorization No. <u>n/a</u> 2. Expiration Date <u>n/a</u>
4.	Identification of System <u>Emergency Service Wate</u>	er Loop A
5.	(a) Applicable Construction Code <u>B31.1</u>	, <u>77W78</u> Edition / Addenda
	(b) Applicable Edition of Section XI Used for Repair	Replacement Activity 2001 Edition, No Addenda
	(c) Applicable Section XI Code Case(s) <u>n/a</u>	
~	Identification of Common anto	

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	Code nped NO
ESW1-4"-HBD	na	na	n/a	na	1981	Removed	\boxtimes
ESW1-4"-HBD	Dubose Tioga	na	n/a	na	2008	Installed	\boxtimes
H-215	na	na	n/a	na	1981	Removed	\boxtimes
H-215	Dubose	na	n/a	na	2008	Installed	\boxtimes

Like for like piping replacement and like for like partial replacement of one 7. Description of Work *support.*

		- I - I						
8. Test	s Conducted:	Hydrostatic	Pneuma	atic 🗌	Nomin	al Operating P	ressure	\boxtimes
Exempt		Other	Pressure	81	_psi	Test Temp	n/a	_°F
<u>NOTE:</u>	Supplemental she				•••	I) size is sheet and (3) eac	h sheet is n	umberer

8-1/2 in x 11 in, (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form. (See 4 AWI-09.04.03 [ASME Section XI Repair/Replacement Program] for further documentation guidance.)

Approval: PC	R 01148046
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MONTIC	3613	
TITLE:	FORM NIS-2 OWNER'S REPORT FOR	Revision 5
	REPAIR/REPLACEMENT ACTIVITY	Page 2 of 2

(Applicable Manufacturer's Data Reports to be Attached)

Repair/Replacement Plan No.: 2008-24-030

Piping components and portion of one hanger (H-215) replaced in the intake structure. VT-2 per work order PMT at normal operating pressure (81 psig). STO and STC on ESW-20 per the WO PMT. 92Q610 is applicable.
CERTIFICATE OF COMPLIANCE
We certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.
Signed, SECTION XI ISI COORD Date Date Date

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 <u>Minnesota</u> and employed by <u>Hartford Steam Boiler</u> Insp & Ins Company of Connecticut of <u>Hartford, Connecticut</u> have inspected the components described in this Owner's Report during the period <u>3/19/99</u> to 7/33/09, 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 the Owner's Report. Furthermore, neither the Inspector nor his employer *SHALL* be liable in any manner for any personal injury of property damage or a loss of any kind arising from or connected with this inspection.

 T Alle
 Commissions
 NB // 86-3 Alle
 Commissions

 Inspector's Signature
 National Board, Province and Endorsements

 Date 7/30/09

9. Remarks

MONTICELLO NUCLEAR GENERATING PLANT 3613 FORM NIS-2 OWNER'S REPORT FOR Revision 5 TITLE: **REPAIR/REPLACEMENT ACTIVITY** Page 1 of 2

							_	in the second
		•	Repa	ir/Replacement	Plan No.: <u>2</u>	2008-24-031		
1. Owner					31/2009			
414 Nicollet N	/all, Minneapoli	Name s, MN 55401		Sheet 1		of 2		
	Address						· · · · · · · · · · · · · · · · · · ·	
2. Plant	Monticello Nucl	ear Generating Name	Plant	Unit 1	· · · · · · · · · · · · · · · · · · ·			
2807 West C	ounty Road 75,	Monticello, MN	55362	WO-36443	2			
· ·	A	ddress		Repair (Organizati	ion P.O. No., Jo	ob No.	etc.
3. Work Per	formed By NS	SPM / Xcel Ene	rgy	Type Code	Symbol S	Stamp <i>n/a</i>		
	·	Company N	ame	Authorizatio		n/a		
2807 We	est County Rd.	75, Monticello,	MN 55362	Expiration I	Date n/	′a .		_
		ddress						
4. Identificat	ion of System	Auto Pressure	e Relief (AP	R), SRV-MSB-	-195 / Slav	ve-Spare, Clas	s 1	
	- ,	·····		· · · · ·				
5. (a) Applica	able Constructio	n Code ASM	IE Section II	11	, 1968E /	W'68A Edition	/ Adde	enda
(b) Applica	able Edition of S	ection XI Used	for Repair/I	Replacement A	Activity 2	2001 Edition. N	lo Adde	enda
.,	ble Section XI		•		· -			
.,								
6. Identificat	ion of Compone	ents						
						Corrected,	ASME	Code
Name of	Name of	Manufacturer	National	Other		Removed, or	Stan	
Component	Manufacturer	Serial No.	Board No.	Identification	Year Built	Installed	YES	NO
Main Disc	Target Rock	628	n/a	SRV-MSB-195	2008	Removed		\square
Main Disc	Target Rock	4732	n/a	SRV-MSB-195	2008	Installed		\boxtimes
			· · · ·			· · · · · · · · · · · · · · · · · · ·		
		nlood main d	Lion during	furbiobroost				
7. Descriptio		eplaced main di ave per applica	•		I SIT V-IVIS	D-190 Mairi BC	iay res	si.

Slave per applicable steps of 4280-03-PM

8. Tests Conducted:	Hydrostatic	Pneumatic 🗌	Nominal Operating Pressure	
Exempt	Other	Pressure <i>n/a</i>	psi Test Temp <i>n/a</i>	°F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8-1/2 in x 11 in, (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form. (See 4 AWI-09.04.03 [ASME Section XI Repair/Replacement Program] for further documentation guidance.)

PCR 01148046 Approval:

M/asc

MONTICE	3613	
TITLE:	FORM NIS-2 OWNER'S REPORT FOR	Revision 5
	REPAIR/REPLACEMENT ACTIVITY	Page 2 of 2

Repair/Replacement Plan No.: 2	2008-24-031
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9. Remarks (Applicable Manufacturer's Data Reports to be Attached)

This valve main body #SRV-MSB-195 is for steam testing topworks only, is not being refurbished for plant use at this time, and per the system engineer, does not require post-repair functional testing. GE Spec 21A9206 applies.

"Year Built" is the removal and the installation date. The replacement disc was built in 2003.

CERTIFICATE OF COMPLIANCE	
We certify that the statements made in the report are correct and that this cor the ASME Code, Section XI.	nforms to the requirements of
Signed Dwner or Owner's Designee, Title	Date 8/3/09
	N .

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of <u>Minnesota</u> and employed by <u>Hartford Steam Boiler</u> Insp & Ins Company of Connecticut of <u>Hartford, Connecticut</u> have inspected the components described in this Owner's Report during the period <u>II/(5 / 28</u> to <u>F/3 / 27</u>, 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.

Inspector's Signature Commissions <u>MT 1186 3 A, MA 14 M 00 4028-CO</u> National Board Province and Endorsen National Board, Province and Endorsements 8 13 109 Date

MONTICELLO NUCLEAR GENERATING PLANT FORM NIS-2 OWNER'S REPORT FOR TITLE: **REPAIR/REPLACEMENT ACTIVITY**

3613	
Revision	5
Page 1 of	2

Repai	ir/Replacement Plan No.: <u>2008-24-032</u>
1. Owner <u>NSP-Minnesota, an Xcel Energy Company</u> Name	Date <u>7/31/2009</u>
414 Nicollet Mall, Minneapolis, MN 55401 Address	of <u>2</u>
2. Plant Monticello Nuclear Generating Plant Name	Unit <u>1</u>
2807 West County Road 75, Monticello, MN 55362 Address	WO-355111, EC-10869 Repair Organization P.O. No., Job No. etc.
3. Work Performed By <u>NSPM / Xcel Energy</u> Company Name	_ Type Code Symbol Stamp <u>n/a</u> Authorization No. <i>n/a</i>
2807 West County Rd. 75, Monticello, MN 55362 Address	Expiration Date <u>n/a</u>
4. Identification of System <u>Core Spray (CSP), MO-1</u>	749, Class 2
5. (a) Applicable Construction Code <u>B31.1</u>	, <u>1977E / W′78A</u> Edition / Addenda
(b) Applicable Edition of Section XI Used for Repair/I	Replacement Activity <u>2001 Edition, No Addenda</u>

(c) Applicable Section XI Code Case(s) n/a

Identification of Components

7. Description of Work

Corrected, ASME Code Name of Name of Manufacturer National Other Removed, or Stamped Component Manufacturer Serial No. Board No. Identification Year Built Installed YES NO MO-1749 Anchor Darling n/a n/a n/a 1969 removed \boxtimes Bonnet Studs MO-1749 2009 \boxtimes Nova n/a n/a n/a installed П Bonnet Studs MO-1749 \boxtimes Anchor Darling 1969 П n/a n/a n/a removed <u>Bonnet Nuts</u> MO-1749 2009 installed \boxtimes Nova n/a n/a n/a Bonnet Nuts Π

> Like for like replacement of (10) bonnet studs and (20) nuts (replacement studs/nuts built in 2008, installed in 2009).

8. Tests Conducted:	Hydrostatic	Pneumatic	Nominal Operating Pressure	
Exempt	Other	Pressure	psi Test Temp	°F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8-1/2 in x 11 in, (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form. (See 4 AWI-09.04.03 [ASME Section XI Repair/Replacement Program] for further documentation guidance.)

Approval: PCR 01148046

M/asc

Repair/Replacement Plan No.: 2008-24-032

9. Remarks (Applicable Manufacturer's Data Reports to be Attached)

Like for like replacement of bonnet nuts and studs during disassembly/reassembly for other scheduled valve work (reference EC-10869 for valve actuator replacement). Studs and nuts were preemptively replaced due to possibility of damage. No PMT or PSI required for bolting replacement.

CERTIFICATE OF COMPLIANCE	·
We certify that the statements made in the report are correct and that this con the ASME Code, Section XI.	forms to the requirements of
Signed SECTION XI ISI GORD Owner or Owner's Designee, Title	Date_ 8/4/09

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 <u>Minnesota</u> and employed by <u>Hartford Steam Boiler</u> Insp & Ins Company of Connecticut of <u>Hartford, Connecticut</u> have inspected the components described in this Owner's Report during the period <u>3/2</u> log to <u>8l 4log</u>, 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.

 Kit A Aulah
 Commissions
 NB 11863 A, M, J MN 00 4028-CO

 Inspector's Signature
 National Board, Province and Endorsements

 Date 8/4/09

1.	Owner	NSP-Minnesota, an Xcel Energy Company	Date	7/31/200	9	
		Name				
<u>41</u>	4 Nicollet	Mall, Minneapolis, MN 55401	Sheet	1		of <u>2</u>
		Address				
2.	Plant	Monticello Nuclear Generating Plant	Unit 1	1		
		Name	_			
28	07 West	County Road 75, Monticello, MN 55362	WO-35	5111, EC-	10869	
		Address	Rep	air Organiz	zation P.O	No., Job No. etc.
3.	Work Pe	erformed By NSPM / Xcel Energy	Type C	ode Symb	ol Stamp	n/a
		Company Name	Authori	zation No.	n/a	
	2807 V	Vest County Rd. 75, Monticello, MN 55362	Expirat	ion Date	n/a	
		Address	•			
4.	Identifica	ation of System <u>Core Spray (CSP), Class 2</u>				
5.	(a) Applic	cable Construction Code <u>B31.1</u>		, <u>1977</u>	<u>7E / W'78A</u>	Edition / Addenda

Repair/Replacement Plan No.: 2008-24-033

(b) Applicable Edition of Section XI Used for Repair/Replacement Activity 2001 Edition, No Addenda

(c) Applicable Section XI Code Case(s) <u>n/a</u>

6. Identification of Components

ASME Code Corrected, Name of Name of Manufacturer National Other Removed, or Stamped Component Manufacturer Serial No. Board No. Identification Year Built Installed YES NO Bergen TWH-114 n/a n/a 1969 \boxtimes n/a removed Paterson Bergen \boxtimes TWH-114 2009 installed n/a n/a n/a Paterson \square

Modify hanger TWH-114 by replacing existing clamp with a heavier clamp (new7. Description of Workclamp built in 2008, installed in 2009).

8. Tests	Conducted:	Hydrostatic] Pneumatic	Nominal Operating Pressure	
Exempt		Other	Pressure	psi Test Temp	°F

<u>NOTE:</u>	Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8-1/2 in x 11 in, (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form. (See 4 AWI-09.04.03 [ASME Section XI Repair/Replacement Program] for further documentation guidance.)
	Program for further documentation guidance.)

Approval:	PCR 01148046	

3613 Revision 5 Page 2 of 2

		Repair/Replacement Plan No.: 2008-24-033
9.	Remarks	(Applicable Manufacturer's Data Reports to be Attached)
	PSI VT-3 ex	H-114 was modified due to revised piping loads (Reference EC-10869) am was performed. d 83M026 also applies.
		CERTIFICATE OF COMPLIANCE
	We certify that the ASME Code	the statements made in the report are correct and that this conforms to the requirements of e, Section XI.
	Signed 19	Owner or Owner's Designee, Title

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 <u>Minnesota</u> and employed by <u>Hartford Steam Boiler</u> Insp & Ins Company of Connecticut of <u>Hartford, Connecticut</u> have inspected the components described in this Owner's Report during the period <u>I/30/09</u> to <u>S/9/09</u>, 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.

_7	Inspector's Signature	Commissions	<u> がす II863 へいんし I4んの4のとな Lo</u> National Board, Province and Endorsements
Date	8/4/09		

1.		Date <u>8/4/2009</u>
	Name	
41	4 Nicollet Mall, Minneapolis, MN 55401	Sheet <u>1</u> of <u>3</u>
	Address	
2.	Plant Monticello Nuclear Generating Plant	Unit <u>1</u>
	Name	•
28	07 West County Road 75, Monticello, MN 55362	WO-374028
	Address	Repair Organization P.O. No., Job No. etc.
3.	Work Performed By NSPM / Xcel Energy	Type Code Symbol Stamp N/A
	Company Name	Authorization No. N/A
	2807 West County Rd. 75, Monticello, MN 55362	Expiration Date N/A
	Address	•
4.	Identification of System RHR Service Water (RSW)	/ESW), Loop A, Class 3
	· · · · · · · · · · · · · · · · · · ·	
5.	(a) Applicable Construction Code <u>B31.1</u>	, <u>1977E / W'78A</u> Edition / Addenda
	(b) Applicable Edition of Section XI Used for Repair/R	eplacement Activity 2001 Edition, No Addenda
	(c) Applicable Section XI Code Case(s) N/A	

Repair/Replacement Plan No.: 2009-24-035

6. Identification of Components

Name of	Name of	Manufacturer	National	Other		Corrected, Removed, or	Stan	Code
Component	Manufacturer	Serial No.	Board No.	Identification	Year Built	Installed	YES	NO
SR-399	Navco	n/a	n/a	n/a	1969	removed		\boxtimes
SR-399	Xcel Energy	n/a .	n/a	n/a	2009	installed		\boxtimes
SR-469	Navco	n/a	n/a	n/a	1969	removed		\boxtimes
SR-469	Xcel Energy	n/a	n/a	n/a	2009	installed		\boxtimes
See	subsequent	sheets	for	additional	items			

7.	Descr	iption of Work	Removal an replacemen		replacen	nent of supp	orts by we	elding to facilit	ate piping	'
8.	Tests	Conducted:	Hydrostatic		Pneum	atic 🗌	Nomin	al Operating F	ressure	
Exe	empt		Other	Pi	ressure	n/a	_psi	Test Temp	n/a	_°F
<u>NO</u> 1	<u>re:</u>	Supplemental she 8-1/2 in x 11 in, (2) and the number o Program] for furth) information in ite f sheets is record	ems 1 throu ed at the to	igh 6 on this	s report is inclu	ded on each	sheet, and (3) eac		
Γ		Approval:	PCR 01148	3046						

M/asc

MONTICELLO NUCLEAR GENERATING PLANT TITLE: FORM NIS-2 OWNER'S REPORT FOR **REPAIR/REPLACEMENT ACTIVITY**

Sheet 2 of 3

Repair/Replacement Plan No.: 2009-24-035

9. Remarks (Applicable Manufacturer's Data Reports to be Attached)

Supports were removed and partially replaced by welding (SR-399, SR-469, and SR-105) to facilitate replacement of piping thinned due to MIC. Piping replacement was performed under a separate R/R Plan.

Additional supports (SR-397, SR-456, IS SWH-75, and IS SWH-76) were disassembled and reassembled to facilitate the piping replacement.

Weld Visual performed on welded supports. PSI VT-3 performed on all supports. Additionally, PSI VT-1 was performed on the integrally welded attachment of SR-105.

CERTIFICATE OF COMPLIANCE	
We certify that the statements made in the report are correct and that this co the ASME Code, Section XI.	nforms to the requirements of
Signed Owner or Owner's Designee, Title	Date 8/4/09

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 <u>Minnesota</u> and employed by <u>Hartford Steam Boiler</u> Insp & Ins Company of Connecticut of Hartford, Connecticut have inspected the components described in this Owner's Report during the period 3/16/489 to 8/15/29and 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 the Owner's Report. Furthermore, neither the Inspector nor his employer SHALL be liable in any manner for any personal injury of property damage or a loss of any kind arising from or connected with this inspection.

 Inspector's Signature
 Commissions
 NB 11863 A, N, D MN 90 4028-CU

 National Board, Province and Endorsements

Date <u>815-109</u>

NSP-Minnesota, an Xcel Energy Company 414 Nicollet Mall, Minneapolis, MN 55401 Monticello Nuclear Generating Plant – Unit 1 2807 West County Road 75, Monticello, MN 55362

Work Performed By <u>NSPM / Xcel Energy</u>	R/R Plan No. <u>2009-24-035</u>
System <u>RSW/ESW</u>	WO No. WO 374028
Construction Code _ <u>B31.1, 1977E, W78A</u>	Section XI R/R Code 2001 Ed / No Add
	Section XI Code Case(s) <u>None</u>

Form NIS-2 Continuation Sheet

Name of	Name of	f Name of Manufacturer		National	Other		Corrected, Removed, or Installed	ASME Coo Stamped	
Component	Manufacturer	Serial No.	Board No.	Identification	Year Built	Installed	Yes	No	
SR-105	Navco	N/A	N/A	N/A	1969	Removed		X	
SR-105	Xcel Energy	N/A	N/A	N/A	2009	Installed		X	
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<u> </u>					-				
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		•	•			
1	Owner	NSP-Minnesota, an Xcel Energy Company	Date	7/31/2009	1	
•••	e miei	Name	Duit			
<u>41</u>	4 Nicollet	Mall, Minneapolis, MN 55401	Sheet	1	of	
2.	Plant	Monticello Nuclear Generating Plant	Unit _	1		
28	2807 West County Road 75, Monticello, MN 55362 WO-362738, EC-11125					
		Address	Rep	air Organiz	ation P.O. No., Job No. etc.	
3.	Work Pe	erformed By <u>NSPM / Xcel Energy</u> Company Name	•••	ode Symbo		
	2807 M	Vest County Rd. 75, Monticello, MN 55362		zation No. ion Date	n/a n/a	
	2007 10	Address	Explicit	ion Date	1// d	
4.	4. Identification of System Residual Heat Removal (RHR), Class 2					
				·		
5.	. (a) Applicable Construction Code <u>B31.1</u> , <u>1977E / W'78A</u> Edition / Addenda					
	(b) Applic	cable Edition of Section XI Used for Repair/R	eplaceme	ent Activity	2001 Edition, No Addenda	

Repair/Replacement Plan No.: 2009-24-036

(c) Applicable Section XI Code Case(s) <u>n/a</u>

6. Identification of Components

Name of	Name of	Manufacturer	National	Other		Corrected, Removed, or		Code
Component	Manufacturer	Serial No.	Board No.	Identification	Year Built	Installed	YES	NO
TWH-89	Bergen- Paterson	n/a	n/a	n/a	1969	Removed		\boxtimes
TWH-89	Anvil	n/a	n/a	n/a	2009	Installed		\boxtimes

7. Description of Work Replace spring cans.

8. Tests Conducted:	Hydrostatic	Pneumatic 🔲	Nominal	Operating Pressure	
Exempt	Other	Pressure	psi	Test Temp	_°F

<u>NOTE:</u> Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8-1/2 in x 11 in, (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form. (See 4 AWI-09.04.03 [ASME Section XI Repair/Replacement Program] for further documentation guidance.)

MONTICELLO NUCLEAR GENERATING PLANT FORM NIS-2 OWNER'S REPORT FOR TITLE: **REPAIR/REPLACEMENT ACTIVITY**

3613 Revision 5 Page 2 of 2

Repair/Replacement Plan No.:	2009-24-036

9. Remarks (Applicable Manufacturer's Data Reports to be Attached)

Spring cans were replaced due to change in piping load (ref. EC11125). PSI VT-3 exam was performed.

CERTIFICATE OF COMPLIANCE	
We certify that the statements made in the report are correct and that this cont the ASME Code, Section XI.	forms to the requirements of
Signed, SECTION XI ISI (00 RD Owner or Owner's Designee, Title	Date8/4/09

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 Insp & Ins Company of Connecticut of Hartford, Connecticut have inspected the components described in this Owner's Report during the period $\frac{4}{7}$ by to $\frac{8}{4}$ 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 the Owner's Report. Furthermore, neither the Inspector nor his employer SHALL be liable in any manner for any personal injury of property damage or a loss of any kind arising from or connected with this inspection.

 Inspector's Signature
 Commissions
 MB 11863
 A, M, J
 MN 40 4028-CO

Date ______8/4/08

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	Repair/Replacement Plan No.:2009-24-037								
1.	Owner	NSP-Minnesota,	an Xcel Energy Name	Company	Date	7/31/2009			
<u>41</u>	4 Nicollet N	<u>Mall, Minneapoli</u>			Sheet	1	of		
2.	Plant	Ad Monticello Nucle	ddress ear Generating Name	Plant	Unit 1	<u> </u>			
28	07 West C	ounty Road 75, Ad	Monticello, MN	55362	· ·	WO-362738, EC-11125 Repair Organization P.O. No., Job No. etc.			
Company Name				Authori	ode Symbol : zation No. ion Date <u>n/</u>	n/a			
4.	Identificat	ion of System	Core Spray (C	CSP), Class	2				
5.	5. (a) Applicable Construction Code <u>B31.1</u> , <u>1977E / W'78A</u> Edition / Addenda (b) Applicable Edition of Section XI Used for Repair/Replacement Activity 2001 Edition, No Addenda								
	(c) Applicable Section XI Code Case(s) <i>n/a</i>								
6.	Identificat	ion of Compone	ents						
	Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No	Other Identificat	ion Year Built	Corrected, Removed, or Installed	ASME Code Stamped YES NO	

n/a

7. Description of Work Modified support.

NSP

8. Tests	Conducted:	Hydros	tatic 🔲	Pneumatic	Nomina	I Operating Pressure	
Exempt		Other		Pressure	 _psi	Test Temp	_°F
	• • • • •				 		

n/a

n/a

4

1969

Corrected

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8-1/2 in x 11 in, (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form. (See 4 AWI-09.04.03 [ASME Section XI Repair/Replacement Program] for further documentation guidance.)

Approval: PCR 01148046

SR-113

MONTICELLO NUCLEAR GENERATING PLANT		
TITLE:	FORM NIS-2 OWNER'S REPORT FOR	
· ·	REPAIR/REPLACEMENT ACTIVITY	

3613 Revision 5 Page 2 of 2

Repair/Replacement Plan No.:	2009-24-037

9. Remarks (Applicable Manufacturer's Data Reports to be Attached)

Bumper plates were added to existing support for additional restraint based on EC-11125). Weld visual performed.

	CERTIFICATE OF COMPLIANCE	
We certify that the the ASME Code	he statements made in the report are correct and that this e, Section XI.	conforms to the requirements of
Signed	Owner or Owner's Designee, Title	Date 8/4/09

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 <u>Minnesota</u> and employed by <u>Hartford Steam Boiler</u> Insp & Ins Company of Connecticut of <u>Hartford, Connecticut</u> have inspected the components described in this Owner's Report during the period <u>3/23/39</u> to <u> $\frac{8}{9}/\frac{1}{39}$, 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.</u>

 Kint A Julu Li
 Commissions
 NB 1186 J A, N, I AIN 034328-CO

 Inspector's Signature
 National Board, Province and Endorsements

 Date 8/4/09

Repair/	Replacement Plan No.: <u>2009-24-039</u>				
1. Owner <u>NSP-Minnesota, an Xcel Energy Company</u> Name	Date <u>7/31/2009</u>				
414 Nicollet Mall, Minneapolis, MN 55401 Address	Sheet <u>1</u> of <u>2</u>				
2. Plant Monticello Nuclear Generating Plant Name	Unit <u>1</u>				
2807 West County Road 75, Monticello, MN 55362	WO-362738, EC-11125				
Address	Repair Organization P.O. No., Job No. etc.				
3. Work Performed By NSPM / Xcel Energy	Type Code Symbol Stamp <i>n/a</i>				
Company Name	Authorization No. n/a				
2807 West County Rd. 75, Monticello, MN 55362	Expiration Date <i>n/a</i>				
Address	· · · · · · · · · · · · · · · · · · ·				
4. Identification of System <u>Residual Heat Removal (Residual Heat Re</u>	HR), Class 2				
5. (a) Applicable Construction Code <u>B31.1</u> , <u>1977E / W'78A</u> Edition / Addenda					
(b) Applicable Edition of Section XI Used for Repair/Replacement Activity <u>2001 Edition, No Addenda</u>					
(c) Applicable Section XI Code Case(s) <u>n/a</u>					

6. Identification of Components

Name of	Name of	Manufacturer	National	Other		Corrected, Removed, or		Code
Component	Manufacturer	Serial No.	Board No.	Identification	Year Built	Installed	YES	NO
TWH-144	Bergen- Paterson	n/a	n/a	n/a	1969	Removed		\boxtimes
TWH-144	Anvil	n/a	n/a	n/a	2009	Installed	. 🗆	\boxtimes
		-						

7. Description of Work <u>Replaced spring can.</u>

8. Tests Co	nducted:	Hydrost	atic 🗌	Pneumatic	Nominal	Operating Press	ure 🗌
Exempt		Other		Pressure	psi	Test Temp	°F

NOTE:	Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is
	8-1/2 in x 11 in, (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered
	and the number of sheets is recorded at the top of this form. (See 4 AWI-09.04.03 [ASME Section XI Repair/Replacement
	Program] for further documentation guidance.)

3613 Revision 5 Page 2 of 2

Repair/Replacement Plan No.: 2009-24-03

9. Remarks (Applicable Manufacturer's Data Reports to be Attached)

Spring can was replaced due to change in piping load (ref. EC11125). PSI VT-3 exam was performed.

CERTIFICATE OF COMPLIANCE					
We certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.					
Signed, SECTION XI ISI COORD Owner or Owner's Designee, Title	Date8/4/03				

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 <u>Minnesota</u> and employed by <u>Hartford Steam Boiler</u> Insp & Ins Company of Connecticut of <u>Hartford, Connecticut</u> have inspected the components described in this Owner's Report during the period <u>4/7/34</u> to <u>8/4/34</u>, 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.

 Kurt A Subuli'
 Commissions
 MB 1186 3
 A 1/1 I
 MN 00 402 F-CO

 Inspector's Signature
 National Board, Province and Endorsements
 Date <u>8/4/09</u>

MONTICELLO NUCLEAR GENERATING PLANT 3613 TITLE: FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY Revision 5 Page 1 of 2

	Rep	pair/Replacement Plan No.:2009-24-040
1.	Owner NSP-Minnesota, an Xcel Energy Company Name	Date <u>7/31/2009</u>
41	14 Nicollet Mall, Minneapolis, MN 55401 Address	Sheet <u>1</u> of <u>2</u>
2.	Plant Monticello Nuclear Generating Plant Name	Unit 1
28	807 West County Road 75, Monticello, MN 55362	WO-380817
	Address	Repair Organization P.O. No., Job No. etc.
3.	Work Performed By NSPM / Xcel Energy Company Name	Type Code Symbol Stamp <u>n/a</u> Authorization No. <u>n/a</u>
	2807 West County Rd. 75, Monticello, MN 5536 Address	
4.	Identification of System <u>Reactor Core Isolation</u>	Cooling (RCIC), Steam Supply, Class 2
5.	(a) Applicable Construction Code <u>B31.1</u>	, <u>1977E / W'78A</u> Edition / Addenda
	(b) Applicable Edition of Section XI Used for Repai	ir/Replacement Activity 2001 Edition, No Addenda

(c) Applicable Section XI Code Case(s) n/a

6. Identification of Components

Name of	Name of	Manufacturer	National	Other		Corrected, Removed, or	ASME Stan	Code
Component	Manufacturer	Serial No.	Board No.	Identification	Year Built	Installed	YES	NO
PS-17-3"ED	unknown	n/a	n/a	n/a	2007	Removed		\boxtimes
PS-17-3"ED	unknown	′n/a	n/a	n/a	2009	Installed		\boxtimes

7. Description of Work Removed/reinstalled section of due to interference with adjacent work.

8.	Tests Conducted:	Hydrostatic	Pneumatic	Nom	inal Operating Pressure	\boxtimes
Ex	empt 🗌	Other	Pressure 955	nsi	Test Temp <i>n/a</i>	°F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8-1/2 in x 11 in, (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form. (See 4 AWI-09.04.03 [ASME Section XI Repair/Replacement Program] for further documentation guidance.)

MONTICELLO NUCLEAR GENERATING PLANT 3613						
TITLE:	FORM NIS-2 OWNER'S REPORT FOR	Revision 5				
	REPAIR/REPLACEMENT ACTIVITY	Page 2 of 2				

Repair/Replacement Plan No.: 2009-24-040

Remarks	(Applicable Manufacturer's Data Reports to be Attached)
adjacent MSIV Disassembled a RT performed fo No PSI required	of piping in the steam chase was removed and reinstalled due to interference with AO-2-86D actuator maintenance activities. Pinned support PSH-114 and restored. and reassembled associated support PSH-115. Dilowing reinstallation of piping. I. e test with VT-2 performed during RCIC System Leakage Test 0255-08-IIC-1.
	CERTIFICATE OF COMPLIANCE
-	statements made in the report are correct and that this conforms to the requirements of ection XI.
Signed	Owner or Owner's Designee, Title
	A small section adjacent MSIV / Disassembled a RT performed fo No PSI required System leakage

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of <u>Minnesota</u> and employed by <u>Hartford Steam Boiler</u> Insp & Ins Company of Connecticut of <u>Hartford, Connecticut</u> have inspected the components

described in this Owner's Report during the period $3/2 \gamma/\sigma_1$ to $s/J/\sigma_2$, 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 the Owner's Report. Furthermore, neither the Inspector nor his employer *SHALL* be liable in any manner for any personal injury of property damage or a loss of any kind arising from or connected with this inspection.

TA/Lule L Inspector's Signature Commissions NB 11863 A, N, I AN DU 4028-CU National Board, Province and Endorsements Date 8(3/09

M/asc

Repair/Replacement	Plan	No.:2009-24-041

1.	Owner <u>NSP-Minnesota, an Xcel Energy Company</u> Name	Date 7/30/2009
<u>41</u>	4 Nicollet Mall, Minneapolis, MN 55401 Address	Sheet <u>1</u> of <u>2</u>
2.	Plant Monticello Nuclear Generating Plant	Unit <u>1</u>
<u>28</u>	07 West County Road 75, Monticello, MN 55362 Address	WO-359136 Repair Organization P.O. No., Job No. etc.
3.	Work Performed By <u>NSPM / Xcel Energy</u> Company Name <u>2807 West County Rd. 75, Monticello, MN 55362</u> Address	Type Code Symbol Stamp <u>n/a</u> Authorization No. <u>n/a</u> Expiration Date <u>n/a</u>
4.	Identification of System <u>High Press Coolant Inject</u>	on (HPC), MO-2035, Class 2

- 5. (a) Applicable Construction Code <u>B31.1</u>, <u>1977E / W'78A</u> Edition / Addenda
 - (b) Applicable Edition of Section XI Used for Repair/Replacement Activity 2001 Edition, No Addenda
 - (c) Applicable Section XI Code Case(s) <u>n/a</u>
- 6. Identification of Components

Name of	Name of	Manufacturer	National	Other		Corrected, Removed, or		Code nped
Component	Manufacturer	Serial No.	Board No.	Identification	Year Built	Installed	YES	NO
MO-2036 Bonnet Bolt	unknown	n/a	n/a	n/a	1978	Removed		\square
MO-2036 Bonnet Bolt	Cardinal	n/a	n/a	Ht# 80768	1991	Installed		\boxtimes

7.	Descr	iption of Work	Like for like 2009	replac	cement of one bo	onnet fla	ange bolt	t on MO-2036. Bolt ins	talled	in
8.	Tests	Conducted:	Hydrostatic		Pneumatic		Nomi	nal Operating Pressur	e 🗌]
Exe	empt		Other		Pressure		_psi	Test Temp	°F	-
<u>NOT</u>	<u>E:</u>	8-1/2 in x 11 in, (2)) information in ite f sheets is recorde	ems 1 th ed at th	e top of this form. (S	rt is inclu	ded on eac	1) size is h sheet, and (3) each sheet i SME Section XI Repair/Repla		
		Approval:	PCR 01148	046						

MONTICELLO NUCLEAR GENERATING PLANT 3613 FORM NIS-2 OWNER'S REPORT FOR Revision TITLE: **REPAIR/REPLACEMENT ACTIVITY** Page 2 of 2

5

Repair/Replacement Plan No.: 2009-24-041

9. Remarks (Applicable Manufacturer's Data Reports to be Attached)

Like-for-like replacement of one bonnet bolt (A193 Gr. B7) for MO-2036 due to damage during valve disassembly.

No PMT required for bolting replacement.

We certify that the statements made in the report are correct and that this con- the ASME Code, Section XI.	forms to the requirements of
Signed Torres Owner's Designee, Title	Date 8/2/09

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 <u>Minnesota</u> and employed by <u>Hartford Steam Boiler</u> Insp & Ins Company of Connecticut of Hartford, Connecticut have inspected the components described in this Owner's Report during the period 3/3// and to 8/2/09 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.

 Kint A Anlah.
 Commissions
 WB 11863 A, N, J MN 004028-C0

 Inspector's Signature
 National Board, Province and Endorsements

 Date 8/2/09

			•	•	
1.	Owner	NSP-Minnes	ota, an Xcel Energy Company Name	Date	7/29/2009
<u>41</u>	4 Nicollet	Mall, Minnea	polis, MN 55401	Sheet	<u>1</u> of <u>2</u>
2.	Plant	Monticello N	Address Nuclear Generating Plant Name	Unit _1	1
<u>28</u>	07 West C	County Road	75, Monticello, MN 55362 Address	<u>WO-34</u> Rep	44367 bair Organization P.O. No., Job No. etc.
3.	Work Pe	rformed By	NSPM / Xcel Energy Company Name	• •	Code Symbol Stamp <u>n/a</u> ization No. <i>n/a</i>
	2807 W	est County F	Rd. 75, Monticello, MN 55362 Address		tion Date <u>n/a</u>
4.	Identifica	tion of Syste	m Primary Containment (PCT), Drywei	ell Head, Class MC

Repair/Replacement Plan No.: 2009-24-042

- 5. (a) Applicable Construction Code <u>ASME Section III</u>, <u>1965E / 1967A</u> Edition / Addenda
 - (b) Applicable Edition of Section XI Used for Repair/Replacement Activity 2001 Edition, No Addenda
 - (c) Applicable Section XI Code Case(s) <u>n/a</u>
- 6. Identification of Components

Name of	Name of	Manufacturer	National	Other		Corrected, Removed, or	ASME Starr	
Component	Manufacturer	Serial No.	Board No.	Identification	Year Built	Installed	YES	NO
Drywell Head Flange Nut	Chicago Bridge & Iron		n/a	n/a	1969	Removed		\boxtimes
Drywell Head Flange Nut	Chicago Bridge & Iron		n/a	Ht# 6390344	1975	Installed		
				-				

7. Description of Work Replaced 1 nut at location 55 on drywell head. Installed in 2009.

8.	Tests Conducted:	Hydrostatic [Pneumatic	Nomina	I Operating Pressure	
Ex	empt 🗌	Other	Pressure	psi	Test Temp	°F

- <u>NOTE:</u> Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8-1/2 in x 11 in, (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form. (See 4 AWI-09.04.03 [ASME Section XI Repair/Replacement Program] for further documentation guidance.)
 - Approval: PCR 01148046

MONTICELLO NUCLEAR GENERATING PLANT3613TITLE:FORM NIS-2 OWNER'S REPORT FOR
REPAIR/REPLACEMENT ACTIVITYRevision 5Page 2 of 2

9. Remarks (Applicable Manufacturer's Data Reports to be Attached)

(Applicable Manufacturer's Data Reports to be Attached)

Nut replaced due to a slight protrusion on the nut face that contacts the washer. Preservice VT-1 performed per WO-344367 task 02 (reference ISI report 2009VT103).

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.

Signed	Tind Section XI ISI COORD.	Date 7/29/09
	Owner or Owner's Designee, Title	

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 <u>Minnesota</u> and employed by <u>Hartford Steam Boiler</u> Insp & Ins Company of Connecticut of <u>Hartford, Connecticut</u> have inspected the components described in this Owner's Report during the period <u> $\frac{9/20}{0.94}$ </u> to <u> $\frac{7}{30}\frac{109}{0.94}$ </u>, 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.

 Inspector's Signature
 Commissions
 NB/11863
 A. N.I.
 Multical Signature

 Date 7/30/09

1.	Owner <u>NSF</u>	P-Minnesota, an Xcel Energy Company Name	Date <u>8</u>	3/3/2009
<u>41</u>	4 Nicollet Mall	, Minneapolis, MN 55401 Address	Sheet _	1of <u>3</u> _
2.	Plant <u>Mor</u>	nticello Nuclear Generating Plant	Unit <u>1</u>	
28	07 West Coun	Name Name Nty Road 75, Monticello, MN 55362	WO-381	
		Address	Repai	r Organization P.O. No., Job No. etc.
3.	Work Perforn	ned By <u>NSPM / Xcel Energy</u> Company Name	Type Coo Authoriza	de Symbol Stamp <u>N/A</u> ation No. N/A
	2807 West (County Rd. 75, Monticello, MN 55362 Address	Expiratio	
4.	Identification	of System <u>Emergency Service Water (</u>	FSW), SV	/30B-3"-HF, Class 3
5.	(a) Applicable	Construction Code B31.1		, 1977E / W'78A Edition / Addenda

(b) Applicable Edition of Section XI Used for Repair/Replacement Activity 2001 Edition, No Addenda

(c) Applicable Section XI Code Case(s) N/A

6. Identification of Components

Name of	Name of	Manufacturer	National	Other		Corrected, Removed, or	ASME Stan	Code
Component	Manufacturer	Serial No.	Board No.	Identification	Year Built	Installed	YES	NO
3" Pipe and Fittings	Dubose	N/A	N/A	N/A	2009	Installed		\boxtimes
4" x 4" x 1/2" Tube Steel	Not specified	N/A	N/A	N/A	2009	Installed		\boxtimes
3" x 3" x 1/4" Tube Steel	Dubose	N/A	N/A	N/A	2009	Installed		\boxtimes
1/2" Plate	Dubose	N/A	N/A	N/A	2009	Installed		\boxtimes
1/2" Lug	Dubose	N/A	N/A	N/A	2009	Installed		\boxtimes

7. Description of Work Reroute portion of SW30B-3"-HF line due to HELB effect of FW5-4"-ED

8.	Tests Conducted:	Hydrostatic [Pneuma	atic 🗌	Nomi	nal Operating Pre	essure	\boxtimes
Exe	empt	Other	Pressure	77	psi	Test Temp	N/A	°F

<u>NOTE:</u> Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8-1/2 in x 11 in, (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form. (See 4 AWI-09.04.03 [ASME Section XI Repair/Replacement Program] for further documentation guidance.)

MONTIC	ELLO NUCLEAR GENERATING PLANT	3613
TITLE:	FORM NIS-2 OWNER'S REPORT FOR	Revision 5
	REPAIR/REPLACEMENT ACTIVITY	Page 2 of 2

	Sheet 2 of 3
Repair/Replacement Plan No.:	2009-24-043

9. Remarks

(Applicable Manufacturer's Data Reports to be Attached)

Some of the existing supports, i.e., SR-37, SWH-303, SWH-302, SR-37C, SR-38, SR-13, SR-13A, SWH-218, SR-14, SWH-219, SR-15 and SR-237 were abandoned in place.

Additional supports, i.e., SW30B-H1, SW30B-H2, SW30B-H3, and SW30B-H4, were required to be added for the rerouted pipe.

Tube and plate stock listed was used in fabrication of new supports. EC-14036 applies.

CERTIFICATE OF COMPLIANCE	
We certify that the statements made in the report are correct and that this co the ASME Code, Section XI.	nforms to the requirements of
Signed, SECTION XI ISI COORD Owner or Owner's Designee, Title	Date 8/3/09

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 <u>Hartford Steam Boiler</u> Insp & Ins Company of Connecticut of Hartford, Connecticut have inspected the components 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 the Owner's Report. Furthermore, neither the Inspector nor his employer SHALL be liable in any manner for any personal injury of property damage or a loss of any kind arising from or connected with this inspection.

 King A Aulu
 Commissions
 NO 11863 A, N, J MW 004028-CO

 Inspector's Signature
 National Board, Province and Endorsements

Date 8/3/39

M/asc

NSP-Minnesota, an Xcel Energy Company 414 Nicollet Mall, Minneapolis, MN 55401 Monticello Nuclear Generating Plant – Unit 1 2807 West County Road 75, Monticello, MN 55362

Work Performed By		<u>NSPM / Xcel Energy</u>
System	FSW	
Construc	tion Code _	<u>B31.1, 1977E, W'78A</u>

 R/R Plan No.
 2009-24-043

 WO No.
 WO 381681

 Section XI R/R Code
 2001 Ed / No Add

 Section XI Code Case(s)
 None

Form NIS-2 Continuation Sheet

Name of	Name of	Manufacturer	National	Other		Corrected, Removed, or	ASME Code Stamped	
Component	Manufacturer	Serial No.	Board No.	Identification	Year Built	Installed	Yes	No
W4 x 13 Beam	Dubose	N/A	N/A	N/A	2009	Installed		x
5/8" Stud	Nova	N/A	N/A	N/A	2009	Installed		X
SR-37	NSP	N/A	N/A	N/A	1969	Abandoned in place		x
SWH-303	NSP	N/A	N/A	N/A	1969	Abandoned in place		X,
SWH-302	NSP	N/A	N/A	N/A	1969	Abandoned in place		x
SR-37C	NSP	N/A	N/A	N/A	1969	Abandoned in place		x
SR-38	NSP	N/A	N/A	N/A	1969	Abandoned in place		x
SR-13	NSP	N/A	N/A	N/A	1969	Abandoned in place		x
SR-13A	NSP	N/A	N/A	N/A	1969	Abandoned in place		x
SWH-218	NSP	N/A	N/A	N/A	1969	Abandoned in place		X
SR-14	NSP	N/A	N/A	N/A	1969	Abandoned in place		x
SWH-219	NSP	N/A	N/A	N/A	1969	Abandoned in place		x
SR-15	NSP	N/A	N/A	N/A	1969	Abandoned in place		x
SR-237	NSP	N/A	N/A	N/A	1969	Abandoned in place		x
SW30B-H1	Xcel Energy	N/A	N/A	N/A	2009	Installed		X
SW30B-H2	Xcel Energy	N/A	N/A	N/A	2009	Installed		X
SW30B-H3	Xcel Energy	N/A	N/A	N/A	2009	Installed		X
SW30B-H4	Xcel Energy	N/A	N/A	N/A	2009	Installed		X

MONTICELLO NUCLEAR GENERATING PLANT FORM NIS-2 OWNER'S REPORT FOR TITLE: **REPAIR/REPLACEMENT ACTIVITY**

Repai	r/Replacement Plan No.: <u>2009-24-044</u>
1. Owner <u>NSP-Minnesota, an Xcel Energy Company</u> Name	Date <u>7/31/2009</u>
414 Nicollet Mall, Minneapolis, MN 55401	Sheet <u>1</u> of <u>2</u>
Address 2. Plant <u>Monticello Nuclear Generating Plant</u>	Unit <u>1</u>
Name 2807 West County Road 75, Monticello, MN 55362	WO-380817
Address	Repair Organization P.O. No., Job No. etc.
3. Work Performed By <u>NSPM / Xcel Energy</u>	Type Code Symbol Stamp <u>n/a</u>
Company Name	Authorization No. <u>n/a</u>
2807 West County Rd. 75, Monticello, MN 55362	Expiration Date <i>n/a</i>
Address	
4. Identification of System <u>Main Steam "D" (MST), A</u>	O-2-86D, Class 1
5. (a) Applicable Construction Code <u>B31.1</u>	, <u>1977E / W'78A</u> Edition / Addenda

(b) Applicable Edition of Section XI Used for Repair/Replacement Activity 2001 Edition, No Addenda

(c) Applicable Section XI Code Case(s) n/a

6. Identification of Components

ſ	Name of	Name of	Manufacturer	National	Other		Corrected, Removed, or		Code nped
	Component	Manufacturer	Serial No.	Board No.	Identification	Year Built	Installed	YES	NO
	Studs (3)	Anchor/Darling	n/a	n/a	n/a	various	removed		\boxtimes
	Studs (3)	Anchor/Darling	n/a	n/a	Ht# 25748	2009	installed		\boxtimes
	Nuts (20)	Anchor/Darling	n/a	n/a	n/a	1994	removed		\boxtimes
	Nuts (20)	Nova	n/a	n/a	Ht# 8898297	2009	installed		
ſ									

Replaced fasteners damaged during disassembly for maintenance. Studs: A193 7. Description of Work Gr. B7 built 1994, installed 2009; Nuts: A194 Gr.2H, built 2003, installed 2009.

8. Tests Conducted:	Hydrostatic	Pneumatic	Nominal Operating Pressure	
Exempt	Other	Pressure n/a	psi Test Temp <i>n/a</i>	°F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8-1/2 in x 11 in, (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form. (See 4 AWI-09.04.03 [ASME Section XI Repair/Replacement Program] for further documentation guidance.)

PCR 01148046 Approval:

3613 Revision 5 Page 2 of 2

Repair/Replacement Plan No.: 2009-24-044

9. Remarks (Applicable Manufacturer's Data Reports to be Attached)

Preservice VT-1 performed on replacement fasteners.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.

Signed	From SECTION XI ISI COORD	Date 8/3/09
	Owner or Owner's Designee, Title	

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 <u>Minnesota</u> and employed by <u>Hartford Steam Boiler</u> <u>Insp & Ins Company of Connecticut</u> of <u>Hartford, Connecticut</u> have inspected the components described in this Owner's Report during the period $\frac{\gamma/\gamma}{2}/2q$ to $\frac{\delta/\gamma}{2}/2q$, 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 the Owner's Report. Furthermore, neither the Inspector nor his employer <i>SHALL</i> be liable in any manner for any personal injury of property damage or a loss of any kind arising from or connected with this inspection.
Kur Alulu Commissions NB 11863 A, MI HN 304018-Ed Inspector's Signature National Board, Province and Endorsements
Date $\mathcal{E}(\mathcal{I})$

MONTICELLO NUCLEAR GENERATING PLANT 3613 TITLE: FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY Revis

1.	Owner	NSP-Minnesota, an Xcel Energy Company	Date	7/31/200	<u>)9</u>			
		Name						
41	4 Nicollet	Mall, Minneapolis, MN 55401	Sheet	1		of <u>2</u>		1
		Address						
2.	Plant	Monticello Nuclear Generating Plant	Unit 1	· ·				
		Name						
28	07 West	County Road 75, Monticello, MN 55362	WO-38	0817				
		Address	Rep	air Organ	ization P.	O. No., Job	No. etc.	
3.	Work Pe	erformed By <u>NSPM / Xcel Energy</u>		ode Sym	•	o <u>n/a</u>		
		Company Name	Authorization No. <u>n/a</u>					
	<u>2807 V</u>	Vest County Rd. 75, Monticello, MN 55362	Expiration Date <u>n/a</u>					
		Address						
4.	Identific	ation of System <u>Main Steam "D" (MST), AO</u>	- 2-86 D,	Class 1				
F		apple Construction Code R211		107		24 Edition /	Addonada	_
э.	(a) Applic	cable Construction Code <u>B31.1</u>		,/	/ <u> </u>	<u>BA</u> Edition /	Audenda	1

Repair/Replacement Plan No.: 2009-24-045

(b) Applicable Edition of Section XI Used for Repair/Replacement Activity 2001 Edition, No Addenda

(c) Applicable Section XI Code Case(s) <u>n/a</u>

6. Identification of Components

Name of	Name of	Manufacturer	National	Other		Corrected, Removed, or	ASME Stan	Code
Component	Manufacturer	Serial No.	Board No.	Identification	Year Built	Installed	YES	NO
DS Seat Ring	Anchor Darling	n/a	n/a	n/a	1994	removed		\boxtimes
DS Seat Ring	Anchor Darling	PC #1	n/a	Ht #C8789	2009	installed		
							Π	

7. Description of Work Damaged downstream seat ring replaced with like for like seat ring.

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Exempt Other Pressure n/a psi Test Temp n/a °F

 Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8-1/2 in x 11 in, (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form. (See 4 AWI-09.04.03 [ASME Section XI Repair/Replacement Program] for further documentation guidance.)
Frogram for further documentation guidance.

Approval: PCR 01148046

MONTIC	ELLO NUCLEAR GENERATING PLANT	3613
TITLE:	FORM NIS-2 OWNER'S REPORT FOR	Revision 5
	REPAIR/REPLACEMENT ACTIVITY	Page 2 of 2
ŕ	Repair/Replacement Plan No.: 2009-2	24-045
9. Remar		
	Visual of new seat ring to body weld.	
Valve	functional testing completed: Stroke time open / close (STO/STC), position J / LLRT (LT), Fail Close (FC). Partial Stoke (PS) is satisfied by STO/STC	
	•	
	CERTIFICATE OF COMPLIANCE	
	fy that the statements made in the report are correct and that this conforms to the IE Code, Section XI.	requirements of
Signed	Owner or Owner's Designee, Title	3/3/09
· · · · · · · · · · · · · · · · · · ·		
	CERTIFICATE OF INSERVICE INSPECTION	
Inspecto	ndersigned, holding a valid commission issued by the National Board of Boiler a ors and the State or Province of <u>Minnesota</u> and employed by <u>H</u> Ins Company of Connecticut of <u>Hartford, Connecticut</u> have inspect	artford Steam Boiler
	In this Owner's Report during the period $4/4/39$ to $5/$	ed the components
correctiv	e that to the best of my knowledge and belief, the Owner has performed exar re measures described in this Owner's Report in accordance with the require ection XI.	
concern neither	ng this certificate neither the Inspector nor his employer makes any warranty, ex ing the examinations and corrective measures described in the Owner's Re the Inspector nor his employer SHALL be liable in any manner for any person or a loss of any kind arising from or connected with this inspection.	port. Furthermore,
9	2	
$\underline{-}_{c}$	Inspector's Signature Commissions MB II 863 AIMI MM 813 /09 National Board, Province	004128-00
	Inspector's Signature National Board, Province	and Endorsements
Date	813/09	
	,	

3613 Revision 5 Page 1 of 2

	Repair/Replacement Plan No.:2009-24-046							
1.	Owner <u>NSP-Minnesota, an Xcel Energy Company</u> Name	Date 8/4/2009						
<u>41</u>	4 Nicollet Mall, Minneapolis, MN 55401	Sheet <u>1</u> of <u>2</u>						
~	Address							
۷.	Plant Monticello Nuclear Generating Plant Name	Unit <u>1</u>						
28	07 West County Road 75, Monticello, MN 55362	WO-381724						
	Address	Repair Organization P.O. No., Job No. etc.						
3.	Work Performed By <u>NSPM / Xcel Energy</u>	Type Code Symbol Stamp <u>n/a</u>						
	Company Name	Authorization No. n/a						
	2807 West County Rd. 75, Monticello, MN 55362	Expiration Date <u>n/a</u>						
	Address							
4.	Identification of System <u>RHR Service Water (RHF</u>	SW/ESW), Loop A, Class 3						
5.	(a) Applicable Construction Code <u>B31.1</u>	, <u>1977E / W'78A</u> Edition / Addenda						

(b) Applicable Edition of Section XI Used for Repair/Replacement Activity 2001 Edition, No Addenda

(c) Applicable Section XI Code Case(s) <u>n/a</u>

6. Identification of Components

Name of	Name of	Manufacturer	National	Other		Corrected, Removed, or		Code
Component	Manufacturer	Serial No.	Board No.	Identification	Year Built	Installed	YES	NO
SW9-18"-GF	Navco	n/a	n/a	n/a	1969	Removed		\boxtimes
SW9-18"-GF	Dubose	n/a	n/a	n/a	2009	Installed		\boxtimes
SR-457	NSP	n/a	n/a	n/a	1969	Corrected		\boxtimes

7. Description of Work									to MIC thinning d from, SR-457		
8. Tests Conducted:		Hydros	lydrostatic 📋 Pneumatic 🔲 Nominal Operatin		nal Operating P	ressure	\boxtimes				
Ex	empt		Other			Pressure	245	psi	Test Temp	n/a	_°F
8-1/2 in x 11 and the num) informati of sheets is	ion in it record	ems 1 ti led at th	hrough 6 on this le top of this for	report is incl	uded on eacl	1) size is n sheet, and (3) eac SME Section XI Rep		
Γ		Approval:	PCR	0114	3046	· · · · · · · · · · · · · · · · · · ·					

MONTIC	3613	
TITLE:	FORM NIS-2 OWNER'S REPORT FOR	Revision 5
	Page 2 of 2	

Repair/Replacement Plan No.: 2009-24-046

9. Remarks (Applicable Manufacturer's Data Reports to be Attached)

Approx 100 ft of pipe and the downstream elbow replaced in the tunnel to the intake structure. System leakage test with VT-2 per work order PMT at normal operating pressure. PSI VT-3 performed on affected supports: SR-450, SR-451, SR-452, SR-453, SR-454, SR-455, SR-457, and SWH-8. MT performed on SR-457 temporary padeye installation locations.

CERTIFICATE OF COMPLIANCE						
We certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.						
Signed Torother's Designee, Title	Date 8/4/09					

CERTIFICAT	E 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 <u>Minnesota</u> and employed by <u>Hartford Steam Boiler</u> Insp & Ins Company of Connecticut of <u>Hartford, Connecticut</u> have inspected the components described in this Owner's Report during the period $\frac{9}{4}/\frac{8}{9}$ to $\frac{8}{9}/\frac{9}{2}$, 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 the Owner's Report. Furthermore, neither the Inspector nor his employer SHALL be liable in any manner for any personal injury of property damage or a loss of any kind arising from or connected with this inspection.								
Mui A Duluko Inspector's Signature Date <u>8/4/09</u>	Commissions <u>レタル多しょう A, ル, エーハル ひつ 4028-co</u> National Board, Province and Endorsements							

		Repair/	Replacem	ent Plan No	o.: <u>2009-24-047</u>
1.	Owner	NSP-Minnesota, an Xcel Energy Company Name	Date	7/30/2009) .
<u>41</u>	4 Nicollet	Mall, Minneapolis, MN 55401	Sheet	1	of
2.	Plant	Address <u>Monticello Nuclear Generating Plant</u> Name	Unit <u>1</u>		
<u>28</u>	07 West (County Road 75, Monticello, MN 55362 Address		<u>3235, EC-</u> air Organiz	14055 ation P.O. No., Job No. etc.
3.		erformed By <u>NSPM / Xcel Energy</u> Company Name /est County Rd. 75, Monticello, MN 55362 Address	Authori	ode Symbo zation No. ion Date	ol Stamp <u>n/a</u> <u>n/a</u> n/a
4.	Identifica	ation of System <u>RHR-SW B Loop (RSW), C</u>	Class 3		
5.		cable Construction Code <u>B31.1</u>	eplaceme		<u>E / W'78A</u> Edition / Addenda 2001 Edition, No Addenda
	(c) Applic	cable Section XI Code Case(s) <u>N-661</u>		-	
6.	Identifica	ation of Components			

Name of	Name of	Manufacturer	National	Other		Corrected, Removed, or		Code
Component	Manufacturer	Serial No.	Board No.	Identification	Year Built	Installed	YES	NO
SW10-18"-GF	Navco	n/a	n/a	n/a	1969	Corrected		\boxtimes
						-		

7. Description of Work Weld overlay repair for two MIC thinned areas per Code Case N-661.

8.	Tests Conducted:	Hydrostatic 🗌	Pneumatic	Nominal Operating Pressure	
Exe	mpt 🖂	Other	Pressure n/a	psi Test Temp <i>n/a</i>	°F

<u>NOTE:</u> Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8-1/2 in x 11 in, (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form. (See 4 AWI-09.04.03 [ASME Section XI Repair/Replacement Program] for further documentation guidance.)

Approval: PCR 01148046

MONTICI	ELLO NUCLEAR GENERATING PLANT		3613	
TITLE:	FORM NIS-2 OWNER'S REPORT FOR		Revision 5	
	REPAIR/REPLACEMENT ACTIVITY		Page 2 of 2	
	·			
	Repair/Replacement Plan No.:	2009-2	24-047	

9. Remarks (Applicable Manufacturer's Data Reports to be Attached)

Weld repair of two MIC thinned areas per Code Case N-661. Pre and post overlay MT performed. Post overlay UT thickness testing performed.

CERTIFICATE OF COMPLIANCE								
We certify that the statements made in the report are correct and that this cor the ASME Code, Section XI.	forms to the requirements of							
Signed Towner's Designee, Title	Date 8/3/09							

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 <u>Minnesota</u> and employed by <u>Hartford Steam Boiler</u> Insp & Ins Company of Connecticut of <u>Hartford, Connecticut</u> have inspected the components described in this Owner's Report during the period $\frac{\gamma}{nc}/\frac{\gamma}{rq}$ to $\frac{g}{s}/\frac{1}{3}/\frac{3}{2}$, 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 the Owner's Report. Furthermore, neither the Inspector nor his employer **SHALL** be liable in any manner for any personal injury of property damage or a loss of any kind arising from or connected with this inspection.

 Knot A Auduch
 Commissions
 NB 11863
 A, N, E
 MW 004028-C0

 Inspector's Signature
 National Board, Province and Endorsements

 Date \$ 13/09

MONTICELLO NUCLEAR GENERATING PLANT FORM NIS-2 OWNER'S REPORT FOR TITLE: **REPAIR/REPLACEMENT ACTIVITY**

)

	Repair/Replacement Plan No.: 2009-24-048								
1.	Owner	NSP-Minnesota, an Xcel Energy Company Name	Date	7/30/2009					
41	4 Nicollet	Mall, Minneapolis, MN 55401	Sheet	1	of	3			
2.	Plant	Address <u>Monticello Nuclear Generating Plant</u> Name	Unit <u>1</u>						
28	07 West (County Road 75, Monticello, MN 55362	WO 38	1679, EC 9	174				
		Address				o., Job No. etc.			
3.	Work Pe	rformed By <u>NSPM / Xcel Energy</u>	Туре Со	ode Symbo	ol Stamp <u>n/a</u>	3			
		Company Name	Authoriz	zation No.	<u>n/a</u>				
	<u>2807 N</u>	/est County Rd. 75, Monticello, MN 55362	Expirati	on Date	<u>n/a</u>				
		Address							
4.	Identifica	ation of System <u>Main Steam (MST)); Loops</u>	s A, B, C,	D; Class 1					
5									
0.	5. (a) Applicable Construction Code <u>B31.1</u> , <u>77W78</u> Edition / Addenda								
	(b) Applicable Edition of Section XI Used for Repair/Replacement Activity 2001 Edition, No Addenda								
	(c) Applicable Section XI Code Case(s) <u>n/a</u>								
6.	6. Identification of Components								
		·							

Name of	Name of	Manufacturer	National	Other		Corrected, Removed, or	ASME Stan	Code
Component	Manufacturer	Serial No.	Board No.	Identification	Year Built		YES	NO
Strain Gage PS1-18"-ED	HITEC Product	na	na	na	2007	Removed		\boxtimes
Strain Gage PS2-18"-ED	HITEC Product	na	na	na	2007	Removed		\boxtimes
Strain Gage PS3-18"-ED	HITEC Product	na	na	na	2007	Removed		\boxtimes
Strain Gage PS4-18"-ED	HITEC Product	na	na	na	2007	Removed		\boxtimes

7. Description of Work Install replacements for failed main steam line strain gages. See Remarks

8. Tests	Conducted:	Hydrostatic	Pneumatic	Nomina	I Operating P	ressure	
Exempt		Other	Pressure	_psi	Test Temp	na	_°F

8-1/2 in x 11 in, (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is nur and the number of sheets is recorded at the top of this form. (See 4 AWI-09.04.03 [ASME Section XI Repair/Replacem Program] for further documentation guidance.)	
Program for further documentation guidance.)	

Approval: PCR 01148046

	Sheet 2 of 3
Repair/Replacement Plan No.:	2009-24-048

9. Remarks (Applicable Manufacturer's Data Reports to be Attached)

A number of strain gages installed in 2007 failed and required replacement. MT performed at strain gage removal areas. 21 gages removed (locations MSA-1, 7, 14: MSB-4, 8, 9, 11, 12, 13, 16: MSC-1,

21 gages removed (locations MSA-1, 7, 14; MSB-4, 8, 9, 11, 12, 13, 16; MSC-1, 2, 6, 12, 14, 16; MSC-2, 4, 8, 11, 13). Reference CAP A/R-01178704.

19 gages replaced (MSA-1, 7, 14; MSB-4, 8, 9, 11, 13; MSC-1, 2, 6, 12, 14, 16; MSD-2, 4, 8, 11, 13) MSB-12 and 16 not replaced.

CERTIFICATE OF COMPLIANCE
We certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.
Signed Date 8/3/09 Owner or Owner's Designee, Title

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 <u>Minnesota</u> and employed by <u>Hartford Steam Boiler</u> Insp & Ins Company of Connecticut of <u>Hartford, Connecticut</u> have inspected the components described in this Owner's Report during the period <u> $\gamma/\beta/3/3q$ </u> to <u> $\beta/3/3q$ </u>, 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 the Owner's Report. Furthermore, neither the Inspector nor his employer *SHALL* be liable in any manner for any personal injury of property damage or a loss of any kind arising from or connected with this inspection.

Inspector's Signature Commissions <u>NB 11867 AJNJ Phr 004028-co</u> National Board, Province and Endorsen National Board, Province and Endorsements Date 8/3/09

Work Performed By <u>NSPM / Xcel Energy</u>	R/R Plan No <u>2009-24-048</u>
SystemMain Steam, MST	WO No. WO 381679
Construction Code _ <u>B31.1, 1977E, W78A</u> _	Section XI R/R Code 2001 Ed / No Add
	Section XI Code Case(s) <u>None</u>

Name of	Name of	Manufacturer	National	Other		Corrected, Removed, or	Star	E Code nped
Component	Manufacturer	Serial No.	Board No.	Identification	Year Built	Installed	Yes	No
Strain Gage PS1-18"-ED	HITEC Product	na	na	na	2009	Installed		x
Strain Gage PS2-18"-ED	HITEC Product	na	na	na	2009	Installed		x
Strain Gage PS3-18"-ED	HITEC Product	na	na	na	2009	Installed		x
Strain Gage PS4-18"-ED	HITEC Product	na	na	na	2009	Installed		x
						~		
			-					

3613 Revision 5 Page 1 of 2

Repair/Replacement Plan N							No.: <u>2009-24-049</u>	
<u>1</u> .	Owner <u>r</u>	NSP-Minnesota,	an Xcel Energy (Name	Company	Date	7/31/20	09	
<u>41</u>	4 Nicollet N	Mall, Minneapoli	s, MN 55401		Sheet	1 .	of <u>2</u>	
2.	Plant <u>I</u>	Monticello Nucle	ear Generating	Plant	Unit <u>1</u>			
28	07 West Co	ounty Road 75,		55362	WO-38	0817		
		Ac	dress		Rep	air Orgar	nization P.O. No.,	Job No. etc.
3. Work Performed By <u>NSPM / Xcel Energy</u> Company Name					Type Code Symbol Stamp <u>n/a</u>			
	2807 We	est County Rd. 7		MN 55362		ion Date		
4:	Address 4. Identification of System Main Steam "D", AO-2-86D, Class 1							
5.	(a) Applica	ble Constructio	n Code <u>B31.</u>	1		, <u>197</u>	77E / W'78A Editic	on / Addenda
-	(b) Applica	ble Edition of S	ection XI Used	for Repair/R	eplaceme	ent Activit	ty <u>2001 Edition,</u>	No Addenda
	(c) Applica	ble Section XI (Code Case(s)	n/a				
6.	Identificati	ion of Compone	ents					
	Name of	Name of	Manufacturer	National	Other		Corrected, Removed, or	ASME Code Stamped

Name of	Name of	Manufacturer	National	Other		Removed, or	Stan	nped	
Component	Manufacturer	Serial No.	Board No.	Identification	Year Built	Installed	YES	NO	
DS Disc	Anchor Darling	n/a	n/a	n/a	2001	Removed		\boxtimes	
DS Disc	Anchor Darling	n/a	n/a	n/a	2009	Installed		\boxtimes	
7. Descriptio	7. Description of Work <u>Damaged downstream disc replaced with like for like disc.</u>								
8. Tests Cor	nducted: Hyd	Irostatic 📋	Pneum	atic 🗌	Nominal	Operating Pre	essure		
Exempt [□ Oth	er 🗌	Pressure	n/a r	osi	Test Temp	n/a ·	°F	

<u>NOTE:</u> Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8-1/2 in x 11 in, (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form. (See 4 AWI-09.04.03 [ASME Section XI Repair/Replacement Program] for further documentation guidance.)

Approval: PCR 01148046

MONTICE	3613							
TITLE:	FORM NIS-2 OWNER'S REPORT FOR	Revision 5						
	REPAIR/REPLACEMENT ACTIVITY	Page 2 of 2						
	Repair/Replacement Plan No.: _	2009-24-049						
9. Remark	(Applicable Manufacturer's Data Reports to be Attached)							
but is i	The damaged downstream disc was replaced like for like. The upstream disc was also replaced, but is not pressure retaining. The new disc Heat numbers are 83828-1 and 83539-1. It is not known which disc is upstream or which is downstream.							
Valve functional testing completed: Stroke time open / close (STO/STC), position indi Appx J / LLRT (LT), Fail Close (FC). Partial Stoke (PS) is satisfied by STO/STC.								

	CERTIFICATE OF COMPLIANCE			
We certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.				
Signed	Owner or Owner's Designee, Title			

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 <u>Minnesota</u> and employed by <u>Hartford Steam Boiler</u> Insp & Ins Company of Connecticut of <u>Hartford, Connecticut</u> have inspected the components described in this Owner's Report during the period <u>4/3/09</u> to <u>6/3/09</u>, 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 the Owner's Report. Furthermore, neither the Inspector nor his employer *SHALL* be liable in any manner for any personal injury of property damage or a loss of any kind arising from or connected with this inspection.

Km	+ A Aulili	Commissions	NO 11867 A, N, J MN 004428-CO
	Inspector's Signature		National Board, Province and Endorsements
Date _	813/09		

MONTICELLO NUCLEAR GENERATING PLANT FORM NIS-2 OWNER'S REPORT FOR TITLE: **REPAIR/REPLACEMENT ACTIVITY**

		Repair/Replacement Plan No.:2009-24-050							
1.	1. Owner <u>NSP-Minnesota, an Xcel Energy Company</u> Date <u>7/30/2009</u>								
<u>41</u>	4 Nicollet N	/all, Minneapoli		Sheet 1		of			
			ldress						
2.	Plant I	Monticello Nucle	ear Generating Name	Plant	Unit <u>1</u>				
28	07 West Co	ounty Road 75,	Monticello, MN	55362	WO-31617	8, EC128	341		
			ldress		Repair (Drganizati	on P.O. No., Jo	ob No.	etc.
3.	Work Per	formed By <u>NS</u>	SPM / Xcel Ene		Type Code	Symbol \$	Stamp <u>n/a</u>		
			Company N		Authorizati		n/a		
	2807 We	est County Rd. 7		MN 55362	Expiration	Date <u>n/</u>	'a		
4.	Identificat	ion of System	Idress <u>RHR Service</u>	Water (RSN	/), Class 3				
5.	(a) Applica	ble Constructio	n Code <u>B31</u>	.1		, <u>77W78</u>	Edition	/ Adde	enda
	(b) Applica	ble Edition of S	ection XI [,] Used	for Repair/F	Replacement /	Activity 2	2001 Edition, N	lo Adde	enda
	(c) Applica	ble Section XI (Code Case(s)	n/a					
6.	Identificat	ion of Compone	ents						
							Corrected,		Code
	Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Removed, or Installed	Stan YES	nped NO
\vdash	BS-1952	Zurn	n/a	n/a	n/a	1969	Corrected		

7. Descr	iption of Work	surface	es.				.		
8. Tests	Conducted:	Hydrost	tatic 🗌	Pneum	atic 🗌	Nomi	nal Operating P	ressure	\boxtimes
Exempt		Other		Pressure	230	psi	Test Temp	na	_°F
<u>NOTE:</u>) informatic f sheets is	on in items 1 recorded at	through 6 on this the top of this for	s report is incl	luded on eac	1) size is h sheet, and (3) eac SME Section XI Rep		

Weld buildup and machining of eroded/corroded flange faces to restore sealing

Approval: PCR 01148046

3613 Revision 5 Page 2 of 2

9.	Repair/Replacement Plan No.: 2009-24-050 Remarks (Applicable Manufacturer's Data Reports to be Attached) Weld build up area was magnetic particle examined. A pressure test at normal operating pressure was performed. EC12841 is applicable.
	CERTIFICATE OF COMPLIANCE
	We certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.
	Signed Date 7/30/09 Owner or Owner's Designee, Title
	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 <u>Minnesota</u> and employed by <u>Hartford Steam Boiler</u> <u>Insp & Ins Company of Connecticut</u> of <u>Hartford, Connecticut</u> have inspected the components described in this Owner's Report during the period <u>4/2/aq</u> to <u>7/30/aq</u> }, 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 the Owner's Report. Furthermore, neither the Inspector nor his employer SHALL be liable in any manner for any personal injury of property damage or a loss of any kind arising from or connected with this inspection.

 All Angle
 Commissions
 NB !! 8 (Commissions)
 Angle
 Mational Board, Province and Endorsements

 1/30/09 Date

3613	
Revision 5	
Page 1 of 2	

	Repair/Replacement Plan No.:2009-24-051									
1.	Owner <u>I</u>	NSP-Minnesota,	Date <u>7/2</u>	26/2009						
<u>41</u>	4 Nicollet N	Iall, Minneapoli	Name s, MN 55401	Sheet <u>1</u>		of				
			idress					• .		
2.	2. Plant <u>Monticello Nuclear Generating Plant</u> Unit <u>1</u>									
28	07 West Co	ounty Road 75,	Monticello, MN	55362	WO-32653	0				
Address Repair Organization P.O. N							on P.O. No., Jo	ob No.	etc.	
3.	Work Per	formed By NS	SPM / Xcel Ene	rav	Type Code	Symbol S	Stamp <i>n/a</i>			
		······································	Company N		Authorizati	-	n/a			
	2807 West County Rd. 75, Monticello, MN 55362 Expiration Date n/a									
	Address									
4.	Identificat	ion of System	Snubber (SN	3) / Main Ste	eam (MST), Cl	ass 1				
F	(a) Appliag	ble Constructio		0 024 4		1067		مامام (
ວ.	(a) Applica	ble Constructio		<u>S B31.1</u>		, <u>1967</u>	Edition	/ Adde	enda	
	(b) Applica	ble Edition of S	ection XI Used	for Repair/	Replacement /	Activity 2	001 Edition, N	lo Adde	enda	
	(c) Applica	ble Section XI (Code Case(s)	n/a	:					
-										
6.	Identificat	ion of Compone	ents							
	· · · · ·						Corrected,	ASME		
	Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Voor Built	Removed, or Installed	Stan	· · · · · ·	
\vdash		Bergen						YES	NO	
	PS1-H2	Paterson	'n/a	n/a	Part #942721	unknown	removed		\square	
	PS1-H2	Bergen Paterson	n/a	n/a	Part #942721	1986	installed		\boxtimes	
			,							
— 7.	Descriptio	n of Work Re	placed flange i	mountina bo	blt - lost durind	snubber	removal/reinst	allation		
8.	Tests Cor		Irostatic 🗌	Pneum			Operating Pre			
Ex	empt [_ Oth	er 🗌	Pressure			Test Temp		_°F	

<u>NOTE:</u> Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8-1/2 in x 11 in, (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form. (See 4 AWI-09.04.03 [ASME Section XI Repair/Replacement Program] for further documentation guidance.)

Approval: PCR 01148046

MONTICE	3613	
TITLE:	FORM NIS-2 OWNER'S REPORT FOR	Revision 5
	REPAIR/REPLACEMENT ACTIVITY	Page 2 of 2

(Applicable Manufacturer's Data Reports to be Attached)

Preservice VT-3 examination of snubber following re-installation, as required by procedure 4903.

Repair/Replacement Plan No.: 2009-24-051

· · · · · · · · · · · · · · · · · · ·
 CERTIFICATE OF COMPLIANCE
CERTIFICATE OF COMPLIANCE
We certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.
Signed Debut Depere, SECTION X/ ISI COORD Date 7/26/09
Owner or Owner's Designee, Title
·
CERTIFICATE OF INSERVICE INSPECTION
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 <u>Minnesota</u> and employed by <u>Hartford Steam Boiler</u>
Insp & Ins Company of Connecticut of Hartford, Connecticut have inspected the components

described in this Owner's Report during the period <u>9/10/09</u> to <u>7/27/09</u>, 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 the Owner's Report. Furthermore, neither the Inspector nor his employer *SHALL* be liable in any manner for any personal injury of property damage or a loss of any kind arising from or connected with this inspection.

Inspector's Signature Commissions <u>MB11863</u> <u>A, N, J MW 004028-cu</u> National Board, Province and Endorsements Date 7/27/09

9. Remarks

1.	Owner	NSP-Minnesota, an Xcel Energy Company Name	Date	7/30/2009)			
<u>41</u>	4 Nicollet	Mall, Minneapolis, MN 55401 Address	Sheet	1	of			
2.	Plant	Monticello Nuclear Generating Plant	Unit _1	1				
<u>28</u>	07 West (County Road 75, Monticello, MN 55362	-	1679 and 3	383608 ation P.O. No., Job No. etc.			
3.	Work Pe	erformed By <u>NSPM / Xcel Energy</u> Company Name	Туре С	ode Symbo	ol Stamp <u>n/a</u>			
	<u>2807 V</u>	Vest County Rd. 75, Monticello, MN 55362 Address		zation No. ion Date	n/a			
4.	4. Identification of System Main Steam (MST), ASME Code Class 1							
5.	(a) Applic	cable Construction Code <u>USAS B31.1</u>		, <u>1967</u>	Edition / Addenda			
	(b) Applicable Edition of Section XI Used for Repair/Replacement Activity <u>2001 Edition, No Addenda</u>							
	(c) Applic	cable Section XI Code Case(s) <u>n/a</u>						

Repair/Replacement Plan No 2009-24-052

6. Identification of Components

Name of	Name of	Manufacturer	National	Other		Corrected, Removed, or	ASME Starr	Code nped
Component	Manufacturer	Serial No.	Board No.	Identification	Year Built	Installed	YES	NO
Main Steam C PS3-18"-ED	Bechtel	n/a	n/a	n/a	1967	Corrected		\boxtimes

Removed surface indication on Main Steam C adjacent to strain gage removal7. Description of Workarea (location MSC-12). Indication removed in 2009.

8. Tests Conducted:	Hydrostatic	Pneumatic	Nomi	nal Operating Pressure	
Exempt	Other	Pressure	psi	Test Temp	°F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8-1/2 in x 11 in, (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form. (See 4 AWI-09.04.03 [ASME Section XI Repair/Replacement Program] for further documentation guidance.)

Approval: PCR 01148046

MONTICELLO NUCLEAR GENERATING PLANT TITLE: FORM NIS-2 OWNER'S REP

FORM NIS-2 OWNER'S REPO	JRIFUR
REPAIR/REPLACEMENT A	CTIVITY

Repair/Replacement Plan No.: 2009-24-052

9. Remarks (Applicable Manufacturer's Data Reports to be Attached)

The surface indication was removed by light grinding. Pre and post UT thickness measurements were taken (reference report BOP-VE-09-036). Post removal MT was performed (reference report BOP-MT-09-066). EC-9174 applies to WO-381679 activities.

CERTIFICATE OF COMPLIANCE	
We certify that the statements made in the report are correct and that this cor the ASME Code, Section XI.	forms to the requirements of
Signed, Section XI ISI COORD, Owner or Owner's Designee, Title	Date 8/2/09

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 <u>Minnesota</u> and employed by <u>Hartford Steam Boiler</u> Insp & Ins Company of Connecticut of <u>Hartford, Connecticut</u> have inspected the components described in this Owner's Report during the period <u>9/0/29</u> to <u>8/2/69</u>, 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 the Owner's Report. Furthermore, neither the Inspector nor his employer *SHALL* be liable in any manner for any personal injury of property damage or a loss of any kind arising from or connected with this inspection.

Inspector's Signature Commissions <u>MB 11863 A, M, J 14 Woo 402 & -Co</u> National Board, Province and Endorsements

MONTICELLO NUCLEAR GENERATING PLANT3613TITLE:FORM NIS-2 OWNER'S REPORT FOR
REPAIR/REPLACEMENT ACTIVITYRevision 5Page 1 of 2

	Repa	ir/Replacem	ent Plan No.:2009-24-053
1.	Owner <u>NSP-Minnesota, an Xcel Energy Company</u> Name	Date	7/31/2009
<u>41</u>	4 Nicollet Mall, Minneapolis, MN 55401 Address	Sheet	<u>1</u> of <u>2</u>
2.	Plant Monticello Nuclear Generating Plant Name	Unit 1	
28	07 West County Road 75, Monticello, MN 55362 Address		1707, EC-14055 air Organization P.O. No., Job No. etc.
3.	Work Performed By <u>NSPM / Xcel Energy</u> Company Name <u>2807 West County Rd. 75, Monticello, MN 55362</u> Address	Authori	ode Symbol Stamp <u>n/a</u> zation No. <u>n/a</u> on Date <u>n/a</u>
4.	Identification of System <u>RHR-SW A Loop (RSW)</u> ,	Class 3	
5.	(a) Applicable Construction Code <u>B31.1</u>		, <u>1977E / W'78A</u> Edition / Addenda
	(b) Applicable Edition of Section XI Used for Repair/I	Replaceme	ent Activity 2001 Edition, No Addenda

(c) Applicable Section XI Code Case(s) <u>N-661</u>

6. Identification of Components

Corrected, ASME Code Name of Name of Manufacturer National Other Removed, or Stamped Component Manufacturer Serial No. Board No. Identification Year Built Installed YES NO SW9-18"-GF Navco n/a n/a n/a 1969 Corrected \boxtimes \Box \square \Box \Box \Box \square

7. Description of Work <u>Weld overlay repair for MIC thinned area per Code Case N-661</u>.

Hydrostatic 8. Tests Conducted: Pneumatic Nominal Operating Pressure Exempt \boxtimes Other °F Pressure n/a psi Test Temp n/a

<u>NOTE:</u> Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8-1/2 in x 11 in, (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form. (See 4 AWI-09.04.03 [ASME Section XI Repair/Replacement Program] for further documentation guidance.)

Approval: PCR 01148046

MONTIC	ELLO NUCLEAR GENERATING PLANT	3613
TITLE:	FORM NIS-2 OWNER'S REPORT FOR	Revision 5
	REPAIR/REPLACEMENT ACTIVITY	Page 2 of 2
	Papair/Paplacement Dian No. 200	0 24 052
9. Remar	Repair/Replacement Plan No.: <u>200</u> ks (Applicable Manufacturer's Data Reports to be Attache	
)
	overlay repair of MIC thinned area per Code Case N-661. nd post overlay MT performed.	
	overlay UT thickness performed.	
	CERTIFICATE OF COMPLIANCE	
		· ·
	fy that the statements made in the report are correct and that this conforms to IE Code, Section XI.	the requirements of
Signed	Date , SECTION XI ISI COORD Date	8/3/09
Ū	Owner or Owner's Designee, Title	/
	CERTIFICATE OF INSERVICE INSPECTION	
	dersigned, holding a valid commission issued by the National Board of Boile ors and the State or Province of <u>Minnesota</u> and employed by	Hartford Steam Boiler
Insp &	Ins Company of Connecticut of Hartford, Connecticut have insp	ected the components
	ed in this Owner's Report during the period <u>9/20/39</u> to to to the best of my knowledge and belief, the Owner has performed e	xaminations and taken
correctiv	e measures described in this Owner's Report in accordance with the requ	
Code, S	ection XI.	
	ng this certificate neither the Inspector nor his employer makes any warranty	
	ing the examinations and corrective measures described in the Owner's the Inspector nor his employer SHALL be liable in any manner for any per	
	or a loss of any kind arising from or connected with this inspection.	sonar injury or property
1	Inspector's Signature Commissions <u>LB II86 J AJN, I J</u> National Board, Provin	4400 4028-60
		ce and Endorsements
Date	813/09	
1		

M/asc

MONTICELLO NUCLEAR GENERATING PLANT FORM NIS-2 OWNER'S REPORT FOR TITLE: **REPAIR/REPLACEMENT ACTIVITY**

Repa	ir/Replacement Plan No.:2009-24-054
1. Owner <u>NSP-Minnesota, an Xcel Energy Company</u> Name	Date <u>8/3/2009</u>
414 Nicollet Mall, Minneapolis, MN 55401 Address	Sheet <u>1</u> of <u>2</u>
2. Plant <u>Monticello Nuclear Generating Plant</u> _{Name}	_ Unit _1
2807 West County Road 75, Monticello, MN 55362 Address	WO-381724 Repair Organization P.O. No., Job No. etc.
3. Work Performed By <u>NSPM / Xcel Energy</u> Company Name	_ Type Code Symbol Stamp <u>///A</u> Authorization No. <u>///A</u>
2807 West County Rd. 75, Monticello, MN 55362 Address	Expiration Date <u>N/A</u>
4. Identification of System <u>RHR Service Water (RHF</u>	RSW/ESW), Class 3
5. (a) Applicable Construction Code <u>B31.1</u>	, <u>1977E / W '78A</u> Edition / Addenda

(b) Applicable Edition of Section XI Used for Repair/Replacement Activity 2001 Edition, No Addenda

(c) Applicable Section XI Code Case(s) N/A

6. Identification of Components

Name of	Name of	Manufacturer	National	Other		Corrected, Removed, or		Code
Component	Manufacturer	Serial No.	Board No.	Identification	Year Built	Installed	YES	NO
SR-451 shim	Dubose	N/A	N/A	N/A	2009	Installed		\boxtimes
SR-452 shim	Dubose	N/A	N/A	N/A	2009	Installed		\boxtimes
SR-453 shim	Dubose	N/A	N/A	N/A	2009	Installed		\boxtimes
SR-454 shim	Dubose	N/A	N/A	N/A	2009	Installed		\boxtimes
SR-455 shim	Dubose	N/A	N/A	N/A	2009	Installed		\boxtimes

4 4 4

. . .

7.	Desc	ription of Work	Added <u>replac</u>		,	ipe supports to n	neet re	quirea cie	earances following pipe	9
8.	Test	s Conducted:	Hydros	tatic		Pneumatic		Nomi	nal Operating Pressur	e 🗌
Ex	empt		Other			Pressure		_psi	Test Temp	°F
<u>NO</u>	<u>TE:</u>	8-1/2 in x 11 in, (2) information of sheets is	on in it record	ems 1 ti led at th	e top of this form. (S	rt is inclu	ided on eac	(1) size is h sheet, and (3) each sheet i SME Section XI Repair/Repl	
		Approval:	PCR 0)1.14	8046					

3613 Revision 5 Page 2 of 2

Repair/Replacement Plan No.:	2009-24-054
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9. Remarks (Applicable Manufacturer's Data Reports to be Attached)

Weld Visuals and PSI VT-3 performed.

CERTIFICATE OF COMPLIANCE	
We certify that the statements made in the report are correct and that this co the ASME Code, Section XI.	onforms to the requirements of
Signed, SECTION XI ISI COORD Owner or Owner's Designee, Title	Date 8/4/09

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 <u>Minnesota</u> and employed by <u>Hartford Steam Boiler</u> Insp & Ins Company of Connecticut of <u>Hartford, Connecticut</u> have inspected the components described in this Owner's Report during the period $\frac{9/(25)}{9}$ to $\frac{8/9}{9}$, 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 the Owner's Report. Furthermore, neither the Inspector nor his employer *SHALL* be liable in any manner for any personal injury of property damage or a loss of any kind arising from or connected with this inspection.

_ X	unt A Sulule'	Commissions	NB11863 A, N, I MN 004028-00
	Inspector's Signature		National Board, Province and Endorsements
Date	8/4/09	_	

Repair/Replacement Plan No.:	2009-24-055.	Rev.1
------------------------------	--------------	-------

1.	Owner	NSP-Minnesota, an Xcel Energy Company Name	Date	7/30/2009					
<u>41</u>	4 Nicollet	Mall, Minneapolis, MN 55401 Address	Sheet	<u>1</u> of <u>5</u>					
2.	Plant	Monticello Nuclear Generating Plant	Unit <u>1</u>	1					
28	07 West (County Road 75, Monticello, MN 55362 Address	WO-381724 Tasks 15 & 16, EC-14190 Repair Organization P.O. No., Job No. etc.						
3.		rformed By <u>NSPM / Xcel Energy</u> Company Name /est County Rd. 75, Monticello, MN 55362 Address	Authori	Code Symbol Stamp <u>n/a</u> rization No. <u>n/a</u> ition Date <u>n/a</u>					
4.	4. Identification of System Emergency Service Water (ESW), Class 3								
5.	(a) Applic	cable Construction Code <u>B31.1</u>		. <u>1977 / W'78</u> Edition / Adder	ıda				
	(b) Applic	able Edition of Section XI Used for Repair/Re	eplaceme	nent Activity 2001 Edition, No Adder	ıda				

(c) Applicable Section XI Code Case(s) <u>n/a</u>

6. Identification of Components

ASME Code Corrected, Name of Manufacturer Name of National Other Removed, or Stamped Manufacturer Serial No. Board No. Component Identification Year Built Installed YES NO SW30A-3"-HF NAVCO n/a 1969 \boxtimes n/a n/a removed subsequent sheets for additional items downgraded see \square

7. Description of Work ASME Class 3 boundary moved, components downgraded to non-safety.

8. Tests C	Conducted:	Hydrostat	ic 🗌	Pneum	atic 🗌	Nomi	nal Operating P	ressure	
Exempt		Other		Pressure	n/a	psi	Test Temp	n/a	°F

NOTE:	Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is
	8-1/2 in x 11 in, (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form. (See 4 AWI-09.04.03 [ASME Section XI Repair/Replacement]
	Program] for further documentation guidance.)

Approval: PCR 01148046

3613		
Revision	5	
Page 2 of	2	

Sheet 2 of 5

Repair/Replacement Plan No.: 2009-24-055, Rev.1

9. Remarks (Applicable Manufacturer's Data Reports to be Attached)

All pipe, fittings, and supports located downstream of valve ESW-61-1, which were previously abandoned in-place under mod 87Z028, were downgraded from Class 3 to non-safety. The new Class 3 boundary was moved to ESW-61-1, which is a manual valve that is kept in a "normally closed" position.

No post-maintenance testing was required for this code boundary change.

CERTIFICATE OF COMPLIANCE			
We certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.			
Signed T- Dete 7/30/09 Owner or Owner's Designee, Title			

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 <u>Minnesota</u> and employed by <u>Hartford Steam Boiler</u> Insp & Ins Company of Connecticut of <u>Hartford, Connecticut</u> have inspected the components described in this Owner's Report during the period <u> $\gamma h r / \sigma \gamma$ </u> to <u> $\gamma / 3 \sigma / 6 \gamma$ </u>, 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 the Owner's Report. Furthermore, neither the Inspector nor his employer **SHALL** be liable in any manner for any personal injury of property damage or a loss of any kind arising from or connected with this inspection.

Commissions NB 11863 A. N. J MN 004028-CO Inspector's Signature National Board, Province and Endorsements

Date

Work Performed By <u>NSPM / Xcel Energy</u> System <u>Emergency Service Water (ESW)</u> Construction Code <u>B31.1, 1977 / W'78</u>

R/R Plan No. <u>2009-24-055, Rev.1</u> WO No. <u>381724 Tasks 15 & 16</u> Section XI R/R Code <u>2001 Ed / No Add</u> Section XI Code Case(s) <u>None</u>

Name of	Name of	Manufacturer	National	Other		Corrected, Removed, or	ASME Stan	Code
Component	Manufacturer	Serial No.	Board No.	Identification	Year Built	Installed	Yes	No
SWH-83	NSP and Bechtel	n/a	n/a	n/a	1969	removed		x
SR-26	NSP and Bechtel	n/a	n/a	n/a	1969	removed		X
SWH-85	NSP and Bechtel	n/a	n/a	n/a	1969	removed		X
SWH-86	NSP and Bechtel	n/a	n/a	n/a	1969	removed		X
SR-27	NSP and Bechtel	n/a	n/a	n/a	1969	removed		x
SWH-2B	NSP and Bechtel	n/a	n/a	n/a	1969	removed		X
SWH-2A	NSP and Bechtel	n/a	n/a	n/a	1969	removed		X
SWH-4	NSP and Bechtel	n/a	n/a [·]	n/a	1969	removed		X
SWH-3	NSP and Bechtel	n/a	n/a	n/a	1969	removed		x
SR-293	NSP and Bechtel	n/a	n/a	n/a	1969	removed		X
SR-309	NSP and Bechtel	n/a	n/a	n/a	1969	removed		X
SWH-96	NSP and Bechtel	n/a	n/a	n/a	1969	removed		X
SR-308	NSP and Bechtel	n/a	n/a	n/a	1969	removed		X
SWH-200	NSP and Bechtel	n/a	n/a	n/a	1969	removed		X
SR-1	NSP and Bechtel	n/a	n/a	n/a	1969	removed		X
SR-6	NSP and Bechtel	n/a	n/a	n/a	1969	removed		X

Work Performed By <u>NSPM / Xcel Energy</u> System <u>Emergency Service Water (ESW)</u> Construction Code <u>B31.1, 1977 / W'78</u> R/R Plan No. <u>2009-24-055, Rev.1</u> WO No. <u>381724 Tasks 15 & 16</u> Section XI R/R Code <u>2001 Ed / No Add</u> Section XI Code Case(s) <u>None</u>

Name of	Name of	Manufacturer	National	Other		Corrected, Removed, or	ASME Stan	Code
Component	Manufacturer	Serial No.	Board No.	Identification	Year Built	Installed	Yes	No
SR-269	NSP and Bechtel	n/a	n/a	n/a	1969	removed		X
SWH-199A	NSP and Bechtel	n/a	n/a	n/a	1969	removed		X
SR-3	NSP and Bechtel	n/a	n/a	n/a	1969	removed		X
SWH-201	NSP and Bechtel	n/a	n/a	n/a	1969	removed		X
SR-4	NSP and Bechtel	n/a	n/a	n/a	1969	removed		X
SWH-202	NSP and Bechtel	n/a	n/a	n/a	1969	removed		X
SWH-203	NSP and Bechtel	n/a	n/a	n/a	1969	removed		X
SR-5	NSP and Bechtel	n/a	n/a	n/a	1969	removed		X
SWH-204	NSP and Bechtel	n/a	n/a	n/a	1969	removed		X
SR-280	NSP and Bechtel	n/a	n/a	n/a	1969	removed		X
SWH-205	NSP and Bechtel	n/a	n/a	n/a	1969	removed		X
SWH-205A	NSP and Bechtel	n/a	n/a	n/a	1969	removed		x
SR-8	NSP and Bechtel	n/a	n/a	n/a	1969	removed		X
SWH-206	NSP and Bechtel	n/a	n/a	n/a	1969	removed		X
SWH-207	NSP and Bechtel	n/a	n/a	n/a	1969	removed		X
SR-9	NSP and Bechtel	n/a	n/a	n/a	1969	removed		X

Work Per	formed By	<u>NSPM / Xcel Energy</u>				
System	Emergency	Service Water (ESW)				
Construc	tion Code _	B31.1, 1977 / W'78				

R/R Plan No. <u>2009-24-055, Rev.1</u> WO No. <u>381724 Tasks 15 & 16</u> Section XI R/R Code <u>2001 Ed / No Add</u> Section XI Code Case(s) <u>None</u>

Name of	Name of	Manufacturer	National	Other		Corrected, Removed, or		E Code nped
Component	Manufacturer	Serial No.	Board No.	Identification	Year Built	Installed	Yes	No
SWH-209	NSP and Bechtel	n/a	n/a	n/a	1969	removed		X
SWH-210	NSP and Bechtel	n/a	n/a	n/a	1969	removed		X
SR-10	NSP and Bechtel	n/a	n/a	n/a	1969	removed		X
SWH-211	NSP and Bechtel	n/a	n/a	n/a	1969	removed		X
SWH-212	NSP and Bechtel	n/a	n/a	n/a	1969	removed		X
SWH-213	NSP and Bechtel	n/a	n/a	n/a	1969	removed		X
SR-11	NSP and Bechtel	n/a	n/a	n/a	1969	removed		X
SR-281	NSP and Bechtel	n/a	n/a	n/a	1969	removed		×

3613 Revision 5 Page 1 of 2

				Repai	r/Replacement	Plan No.:2	2009-24-056		
1. (Owner <u>I</u>	NSP-Minnesota, a	an Xcel Energy (Name	Company	Date <u>7/3</u>	30/2009			
<u>414</u>	Nicollet M	/all, Minneapoli	s, MN 55401		Sheet <u>1</u>		of		
2. F	Plant <u>I</u>	Ad Monticello Nucle		Plant	Unit <u>1</u>				
2807	7 West Co	ounty Road 75,	Name Monticello, MN	55362	WO-34436	4			
		F	ldress		Repair (Organizat	ion P.O. No., Jo	ob No.	etc.
3. \	Work Perf	formed By <u>NS</u>			Type Code		-		
	2807 We	est County Rd. 7	Company N 75 Monticello		Authorization		n/a /a		
	2007 110		ldress	1111 00002		<i><u></u></i>	<u>.</u>		
4. I	Identificati	ion of System	Reactor Press	sure Vessel	(RPV), ASME	Class 1			
F (-)	hla Canatavatia		15 Deetier II		40655		مامام /	
•	,	ible Constructio					/S'66A Edition		
()	b) Applica	ble Edition of S	ection XI Used	for Repair/F	Replacement /	Activity $\frac{2}{2}$	2001 Edition, N	lo Adde	enda
(0	c) Applica	ble Section XI	Code Case(s)	<u>n/a</u>					
6. I	Identificat	ion of Compone	ents						
		Nama of	Manufacturan	Netional	Other		Corrected,	ASME	
1 .	lame of mponent	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Removed, or Installed	YES	nped NO
	pherical asher Set	Washer Unknown	n/a	n/a	na	1965	Removed		\boxtimes
S	pherical asher Set	Pipe Machinery Company	2-S	n/a	Ht# 17501	1974	Installed		\boxtimes
		Company							
							!		
7.	Descriptio	on of Work Lik	e-for-like repla	cement of 1	spherical was	her set a	t stud #28. Inst	alled in	2009.
	Tests Cor		Irostatic	Pneum	·		Operating Pre		
Exe	mpt [Oth		Pressure		osi	Test Temp		_°F
NOTE	<u>E:</u> Sup	plemental sheets in	form of lists, skete	ches, or drawing	gs may be used, p	rovided (1) s	size is		
	and	2 in x 11 in, (2) infor the number of shee	ets is recorded at th	ne top of this for	s report is include rm. (See 4 AWI-09	d on each s .04.03 [ASM	heet, and (3) each s E Section XI Repair	heet is n /Replace	umbered ment
	Pro	gram] for further do	cumentation guida	nce.)					
	Δnr	oroval: PC	R 01148046						
	141	<u> </u>							

MONTICELLO NUCLEAR GENERATING PLANT 3613 TITLE: FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY Revision 5 Page 2 of 2

|--|

9. Remarks (Applicable Manufacturer's Data Reports to be Attached)

One spherical washer set replaced like-for-like at stud #28, due to potential damage of the existing set during reassembly.

Stud was retensioned per procedure 9267 on WO 344364.

Preservice VT-1 performed per WO-344364 task 05 (reference ISI report 2009VT134).

CERTIFICATE OF COMPLIANCE	
We certify that the statements made in the report are correct and that this con the ASME Code, Section XI.	forms to the requirements of
Signed SECTION XI ISI COURD Owner or Owner's Designee, Title	Date8/2/09

CERTIFICATE OF INSERVICE INSPECTION

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

 King
 Auduch
 Commissions
 WB 11863 A, N, J MN 004028-CO

 Inspector's Signature
 National Board, Province and Endorsements
 Date 812/49

Cycle 24 Summary Report 2009 Refueling Outage

IV. Form NIS-1 Information

Page 1 of 2

Form NIS-1 Owner's Data Report for Inservice Inspections (**Supplement to Submittal for Cycle 23, 2007 RFO**) As required by the Provisions of the ASME Code Rules

- 1. Owner: Xcel Energy, LLC / Nuclear Management Company, LLC Address: 800 Nicollet Mall, Mpls, MN 55402 / 700 1st St., Hudson WI 54016
- 2. Plant:
 Monticello Nuclear Generating Plant

 Address:
 Monticello, MN 55362
- 3. Plant Unit: 1 4. Owner (Certificate of Authorization): N/A
- 5. Commercial Service Date: <u>6/30/71</u> 6. National Board No. for Unit: <u>N/A</u>

7. Components Inspected:

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

(See appendices for components inspected during the cycle)

- 8. Examination Dates: <u>04/13/05</u> to <u>04/28/07</u>.
- 9. Inspection Interval: <u>05/01/03</u> to <u>05/31/12</u>.
- 10. Applicable Edition of Section XI: <u>1995</u> Addenda: <u>1996</u>.
- 11. Abstract of Examinations. Include a list of examinations and a statement concerning status of work required for current interval.
 - See Sections IV and V for supplemental Cycle 23 Form NIS-2 and NIS-1 Attachment (Appendix A)

12. Abstract of Conditions Noted.

- See Sections IV and V for supplemental Cycle 23 Form NIS-2 and NIS-1 Attachment (Appendix A)
- 14. Abstract of Corrective Measures Recommended and Taken.
 - See Sections IV and V for supplemental Cycle 23 Form NIS-2 and NIS-1 Attachment (Appendix A)

IV. Form NIS-1 Information

Page 2 of 2

(**Supplement to Submittal for Cycle 23, 2007 RFO**)

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) <u>N/A</u> Expiration Date <u>N/A</u>

Date August 6 20 09 Signed NSPM / XCEL ENERGYBy Section XI ISI Coordinator

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 <u> $H_{M/N} \in S \circ TA$ </u> and employed by <u> $H_{N} i F_{\partial} k \partial S^{T} \in A/T B \circ I \in K F + F \circ F \in T$ </u> of <u> $H_{A} K f \in A \partial S = C T$ </u> have inspected the components described in this Owner's Report during the period $\frac{4/13}{35}$ to <u>8/6/8 q</u>, 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.

Kuns A Aclahi

Commissions <u>NBII863 AN</u>, <u>F</u>MN 00 4028-co National Board, State, Province,

Inspector's Signature Endorsements

Date AUGUST 6 20 09

V. Form NIS-1 Information

(**Supplement to Submittal for Cycle 23, 2007 RFO**)

Supplemental NIS-2 Form for Cycle 23 2007 RFO Summary Report

Revised Form NIS-2

R/R ITEM	WORK	COMPONENT	WORK DESCRIPTION
NUMBER	DOCUMENT	OR SYSTEM	
2007-23-0070	WO-325774	ESW1-4"-HBD	Replaced approximately 6" section of pipe and adjacent 90 degree elbow

(2 pages to follow)

MONTICELLO NUCLEAR GENERATING PLANT 3613														
TITLE:		NER'S REP			OR	Revisi	on 4							
	R	Page	1 of 2											
					ITEM	2007-23-0070								
						placement progra further guidance.								
8-1		nformation in ite	ms 1 through	6 on this report	is included	ovided (1) size is d on each sheet, a prm.	ind (3) e	ach						
1. Owner	Xcel Energy C			Date 7	/14/2007									
2. Plant	Monticello Nuc	Name	a Plant	Sheet 1		of 2								
	Monticello Nuc	Name	y Flant			01		<u></u>						
2807 W. Cnt	y. Rd. 75, Mor	nticello, Minnes	ota 55362	WO 325			n							
	Ad	ldress		Repair	Organizat	tion P.O. No., J	ob No.	etc.						
3. Work Per	formed By <u>N</u>	IMC / Xcel Ene	rgy	Type Cod	le Symbo	l Stamp <u>n/a</u>								
		Company		Authoriza										
_2807 W	. Cty Rd 75, M		5362	_ Expiratior	Date _	n/a								
	Ad	dress												
4. Identifica	tion of System	Emergency	Service Wat	er (ESW), Div	I, Class 3	3								
5 (a) Applie	able Constructi	on Codo AN	CI D21 1			1077		dition						
			51 051.1	· · · · · · · · · · · · · · · · · ·	. ,	<u>1977</u> Year	Ľ(
Adden	ida <u>Winter 1</u>	978 Addenda		Code	e Case	n/a								
(b) Applica	able Edition of	Section XI Utili	zed for Repa	airs or Replace	ement	2001 Edition, N	o Adde	enda						
6. Identificat	tion of Compor	ents Repaired	or Replaced	d and Replace	ment Co	mponents								
						1		ME						
Name of	Name of	Manufacturer	National	Other	Year	Repaired, Replaced or	Co Stan							
Component	Manufacturer	Serial No.	Board No.	Identification	Built	Replacement	YES	NO						
ESW1-4"- HBD Pipe	unknown	n/a	n/a	n/a	1981	Replaced		\boxtimes						
ESW1-4"- HBD Pipe	Tioga Pipe	n/a	n/a (Ht# A83222	2007	Replacement								
ESW1-4"- HBD Elbow	unknown	n/a	n/a	n/a	1981	Replaced		\boxtimes						
ESW1-4"- HBD Elbow	Consolidated Power	n/a	n/a	Ht# 7662	2007	Replacement								
7. Description of Work Replaced approx 6 inches of A-106 Gr. B pipe and adjacent A-234 WPB elbow (line designation ESW1-4"-HBD) like-for-like by welding due to localized ID corrosion (replacement pipe built 2000, replacement elbow built 1991, both installed 2007).														
8. Tests Cor	nducted: Hy	drostatic 🔲	Pneun	natic	Nomina	al Operating Pre	essure	\boxtimes						
	-		Pressure	_	psi	Test Temp								

APPROVED (Signatures available in Master File)

* CORRECT HE #: AØ2824 ROD 8/5/09 KAJ SLO /09

MONTIC	ELLO NUCLEAR GENERATING PLANT	3613
TITLE:	OWNER'S REPORT FOR REPAIRS OR	Revision 4
	REPLACEMENTS - FORM NIS-2	Page 320f 2 -//14/01

ITEM 2007-23-0070

9. Remarks (Applicable Manufacturer's Data Reports to be Attached)

System leakage tests in lieu of a hydro per IWA-4540(a)(2) per WO PMT attachments.

CERTIFICATE OF COMPLIAN	CE	
We certify that the statements made in the report are correct and this conforms to the rules on the ASME Code, Section XI.	REPAIR / REPLACEMENT ACTIVITY repair/replacement	
Signed Dehad Deen, SECT XI ISI Coord Owner or Owner's Designee, Title Total Depart, SECT XI ISI COORD	Date July 14, 2007 August 5, 2009	Xa/J RAC
	<u>d</u>	. 97

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boile	r and P	ressure Vesse	el
Inspectors and the State or Province of <u>HIWWESDTA</u>	and	employed b	уy
HARTFORD STEAM BOILER JAJ OF CONNECTICAT OF HARTFORD, CT		hav	e
inspected the components described in this Owner's Report during the period	12010	<u>7 </u>	0
, and state that to the best of my knowledge and belief, the	Owner	has performe	d
examinations and taken corrective measures described in this Owner's Report in	accord	lance with the	е
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 measure described in the Owner's Report. Furthermore, neither the Inspector nor his employer SHALL be liable in any manner for any personal injury of property damage or a loss of any kind arising from or connected with this inspection.

	Inspector's Signature	Commissions	いる Ilg63 A, w, と Aレ 00 4028-co National Board, Province and Endorsements
Date _	JULY 20	, 2007	

APPROVED (Signatures available in Master File)

V. Form NIS-1 Information (continued)

(**Supplement to Submittal for Cycle 23, 2007 RFO**)

NIS-1 Attachment (Appendix A) for Cycle 23 2007 RFO Summary Report

Revised Attachment

(1 page to follow)

NOTE: The header for all pages (1-19) of the NIS-1 Attachment (Appendix A) contained an editorial error. Cycle 22 should be corrected to indicate Cycle 23.

NIS-1 Attachment (Appendix A) Cycle 23 Inservice Inspection Report (2007 RFO) NIS-1 Attachment (Appendix A) Cycle 22 Inservice Inspection Report (2007 RFO) Owner: Xool Energy, LLC, 800 Nicollet Mail, Minneapolis, MN 55402 Owner Certificate of Authorization (If Req.): N/A Operator: Nuclear Management Company, LLC, 700 First Street, Hudson, WI 54016 Commercial Service Date: 6/30/1971 Plant: Monticeto Nuclear Generating Plant, Unit 1, 2807 West County Rd #75, Monticeto, MN 55362 National Board Number for Unit: N/A Summary No. Comp ID Comp Desc. Category Method/Sheet/Results ISO Num Item Procedure System Exam Date

Class 1 Category B-A, EXAMS PERFORMED FOR ISI (4th Interval, Period 2 Credited Exams) and PSI

102643	VLAA-2	Long Seam	181.12 ISI	PEI-02.03.15	UT 2007UT059 NRI	Reactor Vessel	ISI Fig 4	3/22/2007
Comments:	Limited exar	n, Supplemental for future ID exam, n	e beiluper resuper feller o	at this time.		4		

Class: 1 Category B-D, EXAMS PERFORMED FOR ISI (4th Interval, Period 2 Credited Exams) and PSI

102374	N- 6A IR	N- 6A Inner Radius	B3.100 ISI	FP-PE-NDE-UT-03	UΤ	2007UT105	NRI	Reactor Vessel	ISI Fig 1	3/25/2007
102375	N- 6A NV	Nozzie/Head Weld	83.90 ISI	PEI-02.03.15	υT	2007UT104	NRI	Reactor Vossol	ISI Fig 1	3/25/2007
Comments:	Limited exa	m less than 90% coverage - Relief I	Request required							
102657	N- 28 IR	N- 28 Inner Radius	B3.100 ISI	FP-PE-NDE-UT-03	UT	20071/1057	NRI	Reactor Vessel	ISI Fig 5	3/21/2007
102658	N- 28 NV	N- 29 Noz / Vsl Weld	83.90 ISI	PEI-02.03.15	σ	2007UT058	NRI	Reactor Vessel	ISI Fig 5	3/21/2007
Comments:	Limited exa	m less than 90% coverage - Relief I	Request required							
102667	N- 2G IR	N- 2G Inner Radius	B3.100 ISI	FP-PE-NDE-UT-03	υτ	20070/0060	NRI	Reactor Vessel	ISI Fig 5	3/22/2007
102668	N- 20 NV	N- 2G Noz/Vsi Weld	83.90 1Si	PEI-02.03.15	υT	200707081	NRI	Reactor Vossel	ISt Fig 5	3/22/2007
Comments:	Limited exa	m less than 90% coverage - Relief I	Request required							

Page 1 of 19

VI. Form NIS-1 Information

Page 1 of 2

Form NIS-1 Owner's Data Report for Inservice Inspections (**Supplement to Submittal for Cycle 22, 2005 RFO**) As required by the Provisions of the ASME Code Rules

- 1. Owner: Xcel Energy, LLC / Nuclear Management Company, LLC Address: 800 Nicollet Mall, Mpls, MN 55402 / 700 1st St., Hudson WI 54016
- 2. Plant:
 Monticello Nuclear Generating Plant

 Address:
 Monticello, MN 55362
- 3. Plant Unit: 1 4. Owner (Certificate of Authorization): N/A
- 5. Commercial Service Date: <u>6/30/71</u> 6. National Board No. for Unit: <u>N/A</u>
- 7. Components Inspected:

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

(See appendices for components inspected during the cycle)

- 8. **Examination Dates:** <u>05/26/03</u> to <u>04/13/05</u>.
- 9. Inspection Interval: <u>05/01/03</u> to <u>05/31/12</u>.
- 10. Applicable Edition of Section XI: <u>1995</u> Addenda: <u>1996</u>.
- 11. Abstract of Examinations. Include a list of examinations and a statement concerning status of work required for current interval.
 - See Sections VI and VII for supplemental Form NIS-2 Cycle 22 information

12. Abstract of Conditions Noted.

- See Sections VI and VII for supplemental Form NIS-2 Cycle 22 information
- 15. Abstract of Corrective Measures Recommended and Taken.
 - See Sections VI and VII for supplemental Form NIS-2 Cycle 22 information

VI. **Form NIS-1 Information**

Page 2 of 2

(**Supplement to Submittal for Cycle 22, 2005 RFO**)

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) N/A Expiration Date N/A

Date August 6 20 09 Signed NSPM/XCEL ENERGY By Jeros Section XI ISI Coordinator

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 HULK SATA and employed by HARIFURN STEAH ROMER ITS OF CT OF HARTFORN, CT have inspected the components described in this Owner's Report during the period 5/16/3 to 8/6/39, 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.

TA Ruledo Commissions NB 11863 AJN, J 14N 004028-CO

Inspector's Signature Endorsements

National Board, State, Province,

Date <u>AUGUST 6</u> 2009

Monticello Nuclear Generating Plant Inservice Inspection

VII. Form NIS-2 Information

.

Supplemental NIS-2 Form for Cycle 22 2005 RFO Summary Report

Additional comments added for CAP A/R 01107745

R/R ITEM	WORK	COMPONENT	WORK DESCRIPTION
NUMBER	DOCUMENT	OR SYSTEM	
2004-22-0037	WO-0311656	RV-2-71H	Replace SRV Pilot Stage assembly (top works) with refurbished spare

(2 pages to follow)

TITLE: OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS - FORM NIS-2 Revision 4 Page 1 of 2 ITEM 2004-22-0037 NOTE 1: This form may not address all items needed for documentation of a repair/replacement program, see 4 AWI-09.04.03 (ASME SECTION XI REPAIR/REPLACEMENT PROGRAM) for further guidance. NOTE 2: NOTE 2: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8-1/2 in x 11 in, (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form. 1. Owner Xcel Energy Company	
ITEM _2004-22-0037 NOTE 1: This form may not address all items needed for documentation of a repair/replacement program, see 4 AWI-09.04.03 (ASME SECTION XI REPAIR/REPLACEMENT PROGRAM) for further guidance. NOTE 2: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8-1/2 in x 11 in, (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.	
NOTE 1: This form may not address all items needed for documentation of a repair/replacement program, see 4 AWI-09.04.03 (ASME SECTION XI REPAIR/REPLACEMENT PROGRAM) for further guidance. NOTE 2: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8-1/2 in x 11 in, (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.	
 4 AWI-09.04.03 (ASME SECTION XI REPAIR/REPLACEMENT PROGRAM) for further guidance. <u>NOTE 2:</u> Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8-1/2 in x 11 in, (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form. 	
8-1/2 in x 11 in, (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.	
1. Owner Xcel Energy Company Date 7/2/2005	:h
Name 2. Plant Monticello Nuclear Generating Plant Sheet 1 of 2	
Name 2807 W. Cnty. Rd. 75, Monticello, Minnesota 55362 WO-0311656 (see remarks) Address Repair Organization P.O. No., Job No. e	fc.
3. Work Performed By NMC/Xcel Energy Co Type Code Symbol Stamp n/a Company Name Authorization No. n/a 2807 W. Cty Rd 75, Monticello, MN 55362 Expiration Date n/a	
4. Identification of System Main Steam, Safety Relief Valve RV-2-71H, Class 1	
5. (a) Applicable Construction Code <u>ANSI B31.1</u> , <u>1977</u> Edit	ion
Addenda <u>Winter 1978</u> Code Case <u>n/a</u>	
(b) Applicable Edition of Section XI Utilized for Repairs or Replacement2001 Edition, No Adden	da
6. Identification of Components Repaired or Replaced and Replacement Components	,
	Э
Pilot Stage Target Rock 122 n/a n/a 2001 replaced	\boxtimes
Pilot Stage Ass'v Target Rock 194 n/a n/a 2005 replacement	\boxtimes
7. Description of Work Replace SRV Pilot Stage Ass'y (topworks) with a refurbished spare from sto	ock.
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure	
Other I Pressure <u>n/a</u> psi Test Temp <u>n/a</u>	°F
3087 (DOCUMENT CHANGE, HOLD AND COMMENT FORM) incorporated:	-
FOR ADMINISTRATIVE Resp Supy: PRGE Assoc Ref. PRGE SR: N Freg: 0 V USE ONLY ARMS: 3613 Doc Type: REF ONLY Admin initials: Date:	írs

APPROVED (Signatures available in Master File)

MONTICEL	LO NUCLEAR GENERATING PLANT	3613
TITLE:	OWNER'S REPORT FOR REPAIRS OR	Revision 4
	REPLACEMENTS - FORM NIS-2	Page 2 of 2
		·
. Remarks	· · · · · · · · · · · · · · · · · · ·	2004-22-0037
		· · · ·
per proc 3/31/03 Relief F in a new procedu * ToPwor BELIOWS	ec 21A1060 and 21A9206 including applicable referenced codes. cedure 4280-PM (3/17/05). Topworks 194 was previously refurbe per WO 0200996 and 4280-03-PM. No PSI required. No Press Request #7 (rotated spare previously in-service, no new mechanic v flange or installing a new component). Post installation function ire 0112. PKS S/N 194 WAS INSTALLED AT WCATION RV-2-71 H WITH ANO SEAL WELD. THE WELD PROCEDURE USED WAS NOT ADEQUATELY QUI BSEQUENTLY REMOVED DURING THE 2009 RFO PER WORK ORD	ed, tested, and certified on ure testing required per al joints made, e.g. weldin nal testing performed per workforming INTERNAL NIFIED. Topworks 194 ER 344394. (REFERENCE
	CERTIFICATE OF COMPLIANCE	CAPA/R GIIC
	that the statements made in the report are correct and this <u>REPAIR / I</u> o the rules on the ASME Code, Section XI.	REPLACEMENT ACTIVITY epair/replacement
Signed	Owner or Owner's Designee, Title	
	CERTIFICATE OF INSERVICE INSPECTION	,, _,
Inspectors <u>HARTFORD</u> inspected t <u>JULY</u> examinatio	rsigned, holding a valid commission issued by the National Board of E and the State or Province of <u>MINGESTA</u> <u>STEAH BOILTE JTS & COMMETICUE</u> of <u>FART FORM, CT</u> he components described in this Owner's Report during the period <u>J</u> , <u>2005</u> , and state that to the best of my knowledge and belief, ns and taken corrective measures described in this Owner's Report ts of the ASME Code, Section XI.	and employed by have <u>אע کی م</u> to the Owner has performed
concerning the Inspect	this certificate neither the Inspector nor his employer makes any warra the examinations and corrective measure described in the Owner's Re or nor his employer <i>SHALL</i> be liable in any manner for any personal in by kind arising from or connected with this inspection.	port. Furthermore, neither jury of property damage or
	Inspector's Signature Commissions <u>WI7 11863 M, N</u> National Board, Pro	<u>〕 ルル ぴ </u>
Date -	JULY 5, 2005	
	A Aubri ANIE 8/6/09	

*

APPROVED (Signatures available in Master File)

VIII. Form NIS-1 Information

Page 1 of 2

Form NIS-1 Owner's Data Report for Inservice Inspections (**Supplement to Submittal for Cycle 21, 2003 RFO**) As required by the Provisions of the ASME Code Rules

- 1. Owner: Xcel Energy, LLC / Nuclear Management Company, LLC Address: 800 Nicollet Mall, Mpls, MN 55402 / 700 1st St., Hudson WI 54016
- 2. Plant: <u>Monticello Nuclear Generating Plant</u> Address: <u>Monticello, MN 55362</u>
- 3. Plant Unit: 1 4. Owner (Certificate of Authorization): N/A
- 5. Commercial Service Date: <u>6/30/71</u> 6. National Board No. for Unit: <u>N/A</u>
- 7. Components Inspected:

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

(See appendices for components inspected during the cycle)

- 8. **Examination Dates:** <u>12/16/01</u> to <u>05/26/03</u>.
- 9. Inspection Interval: 06/01/92 to 05/31/03. (3rd Interval) 05/01/03 to 05/31/12. (4th Interval)
- 10. Applicable Edition of Section XI: <u>1986</u> Addenda: <u>(none)</u>. (3rd Interval) <u>1995</u> Addenda: <u>1996</u>. (4th Interval)
- 11. Abstract of Examinations. Include a list of examinations and a statement concerning status of work required for current interval.
 - See Sections VIII and IX for supplemental Form NIS-2 Cycle 21 information

12. Abstract of Conditions Noted.

- See Sections VIII and IX for supplemental Form NIS-2 Cycle 21 information
- 16. Abstract of Corrective Measures Recommended and Taken.
 - See Sections VIII and IX for supplemental Form NIS-2 Cycle 21 information

VIII. Form NIS-1 Information

Page 2 of 2

(**Supplement to Submittal for Cycle 21, 2003 RFO**)

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) N/A Expiration Date N/A

Date August 6 20 09 Signed NSPM/XCEL ENERGY By Section XI ISI Coordinator

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 STEAH BOILER ITS OF CT OF HARIFORD, CT have inspected the components described in this Owner's Report during the period $12/16/_{01}$ to $8/6/_{02}$, 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.

unt A Dulech Commissions NB 11863 A. N. 2 MW 004028 - CO National Board, State, Province,

Inspector's Signature Endorsements

Date AUGUST 6 2009

IX. Form NIS-2 Information

Supplemental NIS-2 Form for Cycle 21 2003 RFO Summary Report

Additional comments added for CAP A/R 01107745

R/R ITEM	WORK	COMPONENT	WORK DESCRIPTION
NUMBER	DOCUMENT	OR SYSTEM	
2003-21-0397	WO-0200996 (4280-03-PM)	Spare SRV Topworks s/n 194	Replace Bellows, add weld metal (flange) to bellows & seal weld bellows to topworks body for spare Main Steam SRV Topworks 194. Replace s/n 131 with s/n 1.

(2 pages to follow)

	LLO NUCLEA	R GENERAT	'ING PLAN	'T -		36	13	
TITLE:	IWO	NER'S REP	ORT FOR	R REPAIRS	OR	Re	vision 4	
, .	. F	REPLACEM	ENTS - F	ORM NIS-2	2	Pa	ge 1 of 2	
				· · ·		0000 01 0	207	
<u>NOTE 1:</u> Tł		address all items	mandad for d		-	2003-21-0		
	nis form may not AWI-09.04.03 (AS	ME SECTION XI F	REPAIR/REPL	ACEMENT PRO	GRAM) for	further guida	ogram, see nce.	•
8-	upplemental shee 1/2 in x 11 in, (2) neet is numbered	information in ite	ms 1 through	6 on this report	is include	d on each she		each
1. Owner	Xcel Energy C	Company		_ Date _8	/4/03			
		Name					0	?
2. Plant	Wonticello Nu	clear Generatin Name	ig Plant	_ Sheet <u>1</u>	<u> </u>	01	_2	
2807 W. Cn	ty. Rd. 75, Mor		ota 55362	Work Or	der 0200	996 (4280-0	3-PM)	
• • • •		dress				tion P.O. No		etc.
3. Work Pe	rformed By A	MC/Xcel Energ	qý	Type Cod	le Symbo	I Stamp <i>n</i> /	'a	
		Company	Name	Authoriza		•••••••••••••••••••••••••••••••••••••••		
_2807 W	/. Cty Rd 75, M		55362	_ Expiration	Date	n/a	·····	
	Ac	dress						
4. Identifica	ntion of System	Main Steam,	, Spare SRV	/ Topworks, s/	n 194, Cl	ass 1	· · · · · · · · · · · · · · · · · · ·	· .
5. (a) Applic	oble Construct	· - · ·	· · · · ·					
5. (a) , ppilo		ion Code <u>AS</u>	ME Section	<u> `</u>	,	<u>1968</u>	E	dition
Adder		<u></u>	ME Section		Case	Year	E	dition
Adder	nda <u>Winter 1</u>	968		Code	_	Year n/a		dition
Adder (b) Applic		968 Section XI Utili	zed for Rep	Code airs or Replace	ement _	Year n/a 1986, no ad		dition
Adder (b) Applic	nda <u>Winter 1</u> able Edition of	968 Section XI Utili	zed for Rep	Code airs or Replace	ement _	Year n/a 1986, no ad	denda	
Adder (b) Applic	nda <u>Winter 1</u> able Edition of tion of Compor	968 Section XI Utili nents Repaired	zed for Rep or Replace	Code airs or Replace d and Replace	ement _	Year n/a 1986, no ad	denda AS	dition SME ode
Adder (b) Applic 6. Identifica Name of	nda <u>Winter 1</u> able Edition of tion of Compor Name of	968 Section XI Utili nents Repaired Manufacturer	zed for Rep or Replace National	Code airs or Replace d and Replace Other	ement ment Cor Year	Year n/a 1986, no ad mponents Repaired Replaced	denda AS , Co or Star	SME ode mped
Adder (b) Applic 6. Identifica Name of Component	nda <u>Winter 1</u> able Edition of tion of Compor Name of Manufacturer	968 Section XI Utili nents Repaired Manufacturer Serial No.	zed for Rep or Replace National Board No.	Code airs or Replace d and Replace Other Identification	ement ment Cor Year Built	Year n/a 1986, no ad mponents Repaired Replaced Replaceme	denda AS , Co or Star ent YES	SME ode mped NO
Adder (b) Applic 6. Identifica Name of Component Bellows/ Flange	nda <u>Winter 1</u> able Edition of tion of Compor Name of	968 Section XI Utili nents Repaired Manufacturer	zed for Rep or Replace National	Code airs or Replace d and Replace Other	ement ment Cor Year	Year n/a 1986, no ad mponents Repaired Replaced	denda AS , Co or Star ent YES	SME ode mped
Adder (b) Applic 6. Identifica Name of Component Bellows/	nda <u>Winter 1</u> able Edition of tion of Compor Name of Manufacturer	968 Section XI Utili nents Repaired Manufacturer Serial No.	zed for Rep or Replace National Board No.	Code airs or Replace d and Replace Other Identification	ement ment Cor Year Built <i>un-</i>	Year n/a 1986, no ad mponents Repaired Replaced Replaceme	denda , AS , Co or <u>Star</u> ent YES f	SME ode mped NO
Adder (b) Applic 6. Identifica Name of Component Bellows/ Flange Bellows/	nda <u>Winter 1</u> able Edition of tion of Compor Name of <u>Manufacturer</u> <i>Target Rock</i>	968 Section XI Utili nents Repaired Manufacturer Serial No. 131	zed for Rep or Replace National Board No. <i>n/a</i>	Code airs or Replace d and Replace Other Identification n/a	ement ment Cor Year Built <i>un-</i> <i>known</i>	Year n/a 1986, no ad mponents Replaced Replaceme Replacec	denda , AS , Co or <u>Star</u> ent YES f	SME ode mped NO
Adder (b) Applic 6. Identifica Name of Component Bellows/ Flange Bellows/	nda <u>Winter 1</u> able Edition of tion of Compor Name of <u>Manufacturer</u> <i>Target Rock</i>	968 Section XI Utili nents Repaired Manufacturer Serial No. 131	zed for Rep or Replace National Board No. <i>n/a</i>	Code airs or Replace d and Replace Other Identification n/a	ement ment Cor Year Built <i>un-</i> <i>known</i>	Year n/a 1986, no ad mponents Replaced Replaceme Replacec	denda AS Co or Star ent YES I ent Q	SME ode mped NO
Adder (b) Applic 6. Identifica Name of Component Bellows/ Flange Bellows/	nda <u>Winter 1</u> able Edition of tion of Compor Name of <u>Manufacturer</u> <i>Target Rock</i>	968 Section XI Utili nents Repaired Manufacturer Serial No. 131	zed for Rep or Replace National Board No. <i>n/a</i>	Code airs or Replace d and Replace Other Identification n/a	ement ment Cor Year Built <i>un-</i> <i>known</i>	Year n/a 1986, no ad mponents Replaced Replaceme Replacec	denda AS Co or Star ent YES d ent	SME ode mped NO
Adder (b) Applic 6. Identifica Name of Component Bellows/ Flange Bellows/ Flange	nda <u>Winter 1</u> able Edition of tion of Compor Name of <u>Manufacturer</u> <i>Target Rock</i> <i>Target Rock</i>	968 Section XI Utili nents Repaired Manufacturer Serial No. 131	zed for Rep or Replace National Board No. n/a n/a	Code airs or Replace d and Replace Other Identification n/a n/a	ement ment Cor Year Built <i>un-</i> <i>known</i> 2003	Year n/a 1986, no ad mponents Replaced Replaceme Replaceme	denda , AS Co or Star ent YES f ent ent	SME ode mped NO
Adder (b) Applic 6. Identifica Name of Component Bellows/ Flange Bellows/ Flange 7. Descriptio	nda <u>Winter 1</u> able Edition of tion of Compor Name of <u>Manufacturer</u> <i>Target Rock</i> <i>Target Rock</i> on of Work <u>R</u>	968 Section XI Utili nents Repaired Manufacturer Serial No. 131 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	zed for Rep or Replace National Board No. n/a n/a	Code airs or Replace d and Replace Other Identification n/a n/a	ement ment Cor Year Built <i>un-</i> <i>known</i> 2003	Year n/a 1986, no ad mponents Replaced Replaceme Replaceme Replaceme	denda AS Co or Star ent YES f ent ent uring rebu	SME ode mped NO
Adder (b) Applic 6. Identifica Name of Component Bellows/ Flange Bellows/ Flange 7. Descriptio	nda <u>Winter 1</u> able Edition of tion of Compor Name of Manufacturer Target Rock Target Rock	968 Section XI Utili nents Repaired Manufacturer Serial No. 131 1	zed for Rep or Replace National Board No. n/a n/a	Code airs or Replace d and Replace Other Identification <i>n/a</i> <i>n/a</i> <i>n/a</i>	ement ment Cor Year Built <i>un-</i> <i>known</i> 2003	Year n/a 1986, no ad mponents Replaced Replaceme Replaceme	denda	SME ode mped NO
Adder (b) Applic 6. Identifica Name of Component Bellows/ Flange Bellows/ Flange 7. Descriptio 8. Tests Co	nda <u>Winter 1</u> able Edition of tion of Compor Name of <u>Manufacturer</u> <i>Target Rock</i> <i>Target Rock</i> Don of Work <u>R</u> nducted: Hy	968 Section XI Utili nents Repaired Manufacturer Serial No. 131 1 1 <i>1</i> <i>1</i> <i>1</i> <i>1</i> <i>1</i> <i>1</i> <i>1</i> <i>1</i> <i>1</i>	zed for Rep or Replaced National Board No. n/a n/a and its Flai Pneur Pressure	Code airs or Replace d and Replace Other Identification n/a n/a	ement ment Cor Year Built <i>un-</i> <i>known</i> 2003 SRV Topv	Year n/a 1986, no ad mponents Replaced Replaceme Replaceme Replaceme vorks 194 d	denda	ME ode mped NO
Adder (b) Applic 6. Identifica Name of Component Bellows/ Flange Bellows/ Flange 7. Descriptio 8. Tests Co	nda <u>Winter 1</u> able Edition of tion of Compor Name of Manufacturer Target Rock Target Rock Target Rock On of Work <u>R</u> nducted: Hy Ot	968 Section XI Utili nents Repaired Manufacturer Serial No. 131 1 1 <i>1</i> <i>1</i> <i>1</i> <i>1</i> <i>1</i> <i>1</i> <i>1</i> <i>1</i> <i>1</i>	zed for Rep or Replace National Board No. <i>n/a</i> <i>n/a</i> <i>n/a</i> <i>s and its Flai</i> Pneur Pressure	Code airs or Replace d and Replace Other Identification <i>n/a</i> <i>n/a</i> <i>n/a</i> <i>natic</i> c Ref: PRGE	ement ment Cor Year Built <i>un-</i> <i>known</i> 2003 SRV Topv	Year n/a 1986, no ad mponents Replaced Replaced Replaceme Replaceme Vorks 194 d al Operating Test Temp	denda	ME ode mped NO

APPROVED (Signatures available in Master File)

MONTICE	LLO NUCLEAR GENERATING PLANT	3613
TITLE:	OWNER'S REPORT FOR REPAIRS OR	Revision 4
	REPLACEMENTS - FORM NIS-2	Page 2 of 2

	· .	· ·	· IT	EM <u>2003-21-03</u>	97
9. Remarks	(Applicable Ma	nufacturer's Data	Reports to be	Attached)	· · · · ·
<u>Bellows Flar</u>	nge changed per Alterat	ion 99A043, Rev.2	<u>2. High Pressu</u>	<u>ıre Nitrogen benc</u>	h test of the
bellows and	Setpoint Pressure Test	of the topworks u	sing steam pei	formed per proce	dure 4280-03-
	netrant exam performeo	Lon seal weld Th	is is a spare to	pworks, installati	on testing and
THE BELLOWS FL	age test will take place u ANGE SEAL WELD WAS IN NONCONFORMING COND	NSTALLED WITH 4	WELD PROCED	URE THAT WAS	NOTADEGUATEL
	(LOCATION RV-2-71H		0-344394)		
We certify that t	he statements made in the	e report are correct ;	and this	replacement	· .
	rules on the ASME Code,			repair/replacer	nent
		• . • .			
Signed 1	t.t.	in XI ISI Good	Tet Data	August 4	2003
Signed 1	Owner or Owner's E	Designee, Title	Lale Dale	Nugues 1	,
			•		:
	CERTIFIC	ATE OF INSERVIC	E INSPECTION	1	•
Inspectors and HARTFORD STI inspected the co <u>g / 4 / 0</u> examinations a	ed, holding a valid commin the State or Provin <u>CAR BOILEX AF</u> <u>COMPLE</u> omponents described in the , and state that the nd taken corrective mean the ASME Code, Section	ce of <u>InvivEs</u> <u>Scricui</u> of his Owner's Report to the best of my ki sures described in	ন্ <u>ন্</u> দুৰ্ <u>দ্বে ৮০</u> during the peri- nowledge and b	and e <u>c₁</u> od <u>c/∖)/0</u> elief, the Owner ha	mployed by have to as performed
concerning the e	certificate neither the Insp examinations and corrective or his employer SHALL be d arising from or connecte	ve measure describe liable in any manne	ed in the Owner er for any perso	's Report. Furtheri	more, neither
N	. 1 .	· .		•	
Ins	pector's Signature	Commissions	National Board	り、水子 (1んう d, Province and End	o 402 g- CO dorsements
Date	tuansi y			••• •	
1/		55. VI 101A	, ol	10000	· .
Kust A K	Depare, St Lulerdi Aprit 1816,	-CIIDN XI ISI (109	DORD B/G	0/2004	

APPROVED (Signatures available in Master File)

APPENDIX A (17 pages to follow)

(in order as listed below)

Class 1 Category B-D ISI Exams

Class 1 Category B-G-1 • PSI Exam

Class 1 Category B-G-2 • ISI and PSI Exams

Class 1 Category B-K ISI Exam

Class 1 Category B-M-2 ISI Exams

Class 1 Category B-N-1 • ISI Exams

Class 1 Category B-N-2 • ISI Exams

Class 1 Category F-A • ISI and PSI Exams

Class 1 Category R-A ISI Exams

Class 2 Category C-A • ISI Exam

Class 2 Category C-B • ISI Exam

Class 2 Category F-A • ISI and PSI Exams

1. Owner: Xcel Energy Inc., NSPM, 414 Nicollet Mall, Minneapolis, MN 55401

2. Plant: Monticello Nuclear Generating Plant Unit 1

Summary

3. Plant Address: 2807 West County Road 75, Monticello, MN 55362

4. Owner Certificate of Authorization (If Req.): N/A

5. Commercial Service Date: June 30, 1971

No.	Comp. ID	Comp. Desc.	Item	Procedure	Scope/Method/Report/Results	System	Dwg/ISO	Exam Date
Class 1	Category B-	D, EXAMS PERFORMED FO	R IS1 (4th Interval P	eriod 2 Credited Ex	ame)			
102376	N- 6B IR	N- 6B Inner Radius	B3.100	FP-PE-NDE-UT-03	ISI / UT / 2009UT020 / NRI	Reactor Vessel	ISI Fig 1	3/28/2009
102377	N- 6B NV	N- 6B Noz/Head Weld	B3.90	FP-PE-NDE-406	ISI / UT / 2009UT021 / NRI	Reactor Vessel	ISI Fig 1	3/29/2009
Comments:	Single sided ex	am due to configuration. Limited exa	am less than 90% covera	ge - Relief Request req	uired			
102378	N- 7 IR	N- 7 Inner Radius	B3.100	FP-PE-NDE-UT-03	ISI / UT / 2009UT022 / NRI	Reactor Vessel	ISI Fig 1	3/29/2009
102379	N- 7 NV	N-7 Noz/Head Weld	B3.90	FP-PE-NDE-406	ISI / UT / 2009UT023 / NRI	Reactor Vessel	ISI Fig 1	3/29/2009
Comments:	Single sided ex	am due to configuration. Limited exa	am less than 90% covera	ge - Relief Request req	uired			
102622	N-10 IR	N-10 Inner Radius	B3.100	FP-PE-NDE-UT-03	ISI / UT / 2009UT031 / NRI	Reactor Vessel	ISI Fig 3	4/10/2009
102623	N-10 NV	N-10 Noz/Vsl Weld	B3.90	FP-PE-NDE-406	ISI / UT / 2009UT030 / NRI	Reactor Vessel	ISI Fig 3	4/9/2009
Comments:	Single sided ex	am due to configuration. Limited exa	am less than 90% covera	ge - Relief Request req	uired			
102655	N- 2A IR	N- 2A Inner Radius	B3.100	FP-PE-NDE-UT-03	ISI / UT / 2009UT032 / NRI	Reactor Vessel	ISI Fig 5	4/10/2009
102656	N- 2A NV	N- 2A Noz/Vsl Weld	B3.90	FP-PE-NDE-406	ISI / UT / 2009UT033 / NRI	Reactor Vessel	ISI Fig 5	4/10/2009
Comments:	Single sided ex	am due to configuration. Limited exa	am less than 90% covera	ge - Relief Request req	uired			
102679	N- 3C IR	N- 3C Inner Radius	B3.100	FP-PE-NDE-UT-03	ISI / UT / 2009UT025 / NRI	Reactor Vessel	ISI Fig 5	4/8/2009
	N- 3C NV	N- 3C Noz/Vsl Weld	B3.90	FP-PE-NDE-406	ISI / UT / 2009UT024 / RI	Reactor Vessel	ISI Fig 5	4/9/2009
102680				PEI-02.03.16	ISI / UT / 2009UT035 / RI	Reactor Vessel	ISI Fig 5	4/9/2009

1. Owner: Xcel Energy Inc., NSPM, 414 Nicollet Mall, Minneapolis, MN 55401

2. Plant: Monticello Nuclear Generating Plant Unit 1

3. Plant Address: 2807 West County Road 75, Monticello, MN 55362

4. Owner Certificate of Authorization (If Req.): N/A

5. Commercial Service Date: June 30, 1971

Comp. ID	Comp. Desc.	ltem	Procedure	Scope/Method/Report/Results	System	Dwg/ISO	Exam Date
N- 4B IR	N- 4B Inner Radius	B3.100	FP-PE-NDE-UT-03	ISI / UT / 2009UT027 / NRI	Reactor Vessel	ISI Fig 5	4/9/2009
N- 4B NV	N- 4B Noz/VsI Weld	B3.90	FP-PE-NDE-406	ISI / UT / 2009UT026 / NRI	Reactor Vessel	ISI Fig 5	4/9/2009
Single sided exa	am due to configuration. Limited exa	m less than 90% covera	ge - Relief Request req	uired			
N- 8B IR	N- 8B Inner Radius	B3.100	FP-PE-NDE-UT-03	ISI / UT / 2009UT029 / NRI	Reactor Vessel	ISI Fig 5	4/10/2009
N- 8B NV	N- 8B Vsl/Noz Weld	B3.90	FP-PE-NDE-406	ISI / UT / 2009UT028 / NRI	Reactor Vessel	ISI Fig 5	4/10/2009
Single sided exa	am due to configuration. Limited exa	m less than 90% covera	ge - Relief Request req	uired			
	N- 4B NV Single sided exa N- 8B IR N- 8B NV	N- 4B IR N- 4B Inner Radius N- 4B NV N- 4B Noz/VsI Weld Single sided exam due to configuration. Limited exam N- 8B IR N- 8B Inner Radius N- 8B NV N- 8B VsI/Noz Weld	N- 4B IR N- 4B Inner Radius B3.100 N- 4B NV N- 4B Noz/VsI Weld B3.90 Single sided exam due to configuration. Limited exam less than 90% covera N- 8B IR N- 8B Inner Radius N- 8B IR N- 8B Inner Radius B3.100 N- 8B NV N- 8B VsI/Noz Weld B3.90	N- 4B IR N- 4B Inner Radius B3.100 FP-PE-NDE-UT-03 N- 4B NV N- 4B Noz/VsI Weld B3.90 FP-PE-NDE-406 Single sided exam due to configuration. Limited exam less than 90% coverage - Relief Request req N- 8B IR N- 8B Inner Radius B3.100 FP-PE-NDE-UT-03 N- 8B NV N- 8B Vsl/Noz Weld B3.90 FP-PE-NDE-UT-03	N- 4B IR N- 4B Inner Radius B3.100 FP-PE-NDE-UT-03 ISI / UT / 2009UT027 / NRI N- 4B NV N- 4B Noz/VsI Weld B3.90 FP-PE-NDE-406 ISI / UT / 2009UT026 / NRI Single sided exam due to configuration. Limited exam less than 90% coverage - Relief Request required ISI / UT / 2009UT026 / NRI N- 8B IR N- 8B Inner Radius B3.100 FP-PE-NDE-UT-03 ISI / UT / 2009UT029 / NRI	N- 4B IR N- 4B Inner Radius B3.100 FP-PE-NDE-UT-03 ISI / UT / 2009UT027 / NRI Reactor Vessel N- 4B NV N- 4B Noz/VsI Weld B3.90 FP-PE-NDE-406 ISI / UT / 2009UT026 / NRI Reactor Vessel Single sided exam due to configuration. Limited exam less than 90% coverage - Relief Request required ISI / UT / 2009UT026 / NRI Reactor Vessel N- 8B IR N- 8B Inner Radius B3.100 FP-PE-NDE-UT-03 ISI / UT / 2009UT029 / NRI Reactor Vessel N- 8B NV N- 8B VsI/Noz Weld B3.90 FP-PE-NDE-406 ISI / UT / 2009UT028 / NRI Reactor Vessel	N- 4B IR N- 4B Inner Radius B3.100 FP-PE-NDE-UT-03 ISI / UT / 2009UT027 / NRI Reactor Vessel ISI Fig 5 N- 4B NV N- 4B Noz/VsI Weld B3.90 FP-PE-NDE-406 ISI / UT / 2009UT026 / NRI Reactor Vessel ISI Fig 5 Single sided exam due to configuration. Limited exam less than 90% coverage - Relief Request required ISI / UT / 2009UT029 / NRI Reactor Vessel ISI Fig 5 N- 8B IR N- 8B Inner Radius B3.100 FP-PE-NDE-UT-03 ISI / UT / 2009UT029 / NRI Reactor Vessel ISI Fig 5 N- 8B NV N- 8B Vsl/Noz Weld B3.90 FP-PE-NDE-406 ISI / UT / 2009UT028 / NRI Reactor Vessel ISI Fig 5

1. Owner: Xcel Energy Inc., NSPM, 414 Nicollet Mall, Minneapolis, MN 55401 2. Plant: Monticello Nuclear Generating Plant Unit 1 3. Plant Address: 2807 West County Road 75, Monticello, MN 55362				 Owner Certificate of Authorization (If Req.): N/A Commercial Service Date: June 30, 1971 National Board Number for Unit: N/A 				
Summary No.	Comp. ID Comp. Desc.	Item	Procedure	Scope/Method/Report/Results	System	Dwg/ISO	Exam Date	
Class 1 102713	Category B-G-1, EXAMS PERFORMED FO Washers 64 Washers	DR IS1 (4th Interval, I B6.50	Period 2 Credited I FP-PE-NDE-510	Exams) PSI / VT / 2009VT134 / NRI	Reactor Vessel	ISI Fig 6	4/25/2009	

1. Owner: Xcel Energy Inc., NSPM, 414 Nicollet Mall, Minneapolis, MN 55401

2. Plant: Monticello Nuclear Generating Plant Unit 1

Summary

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3. Plant Address: 2807 West County Road 75, Monticello, MN 55362

4. Owner Certificate of Authorization (If Req.): N/A

5. Commercial Service Date: June 30, 1971

No.	Comp. ID	Comp. Desc.	Item	Procedure	Scope/Method/Report/Results	System	Dwg/ISO	Exam Date
Class 1	Category B	-G-2, EXAMS PERFORMED FO	DP IS1 (Ath Intonyal	Pariad 2 Cradited E	ivame)			
			•		Edition due to gap between 1995E / 1	996A and 10CFR50	.55a(b)(2)(xxi)(B)	
100674	B- 3	Flange Bolts @ W-16	B7.50	FP-PE-NDE-510	ISI / VT / 2009VT010 / NRI	Main Steam C	ISI-13142-35-A	3/23/2009
100727	B- 3	Flange Bolts @ W-17	B7.50	FP-PE-NDE-510	ISI / VT / 2009VT011 / RI	Main Steam D	ISI-13142-36-A	3/23/2009
Comments:	2009VT011: C	CAP 01174903, corrected during valve	changeout per WO-344	FP-PE-NDE-510 392, acceptable. Refer	ISI / VT / 2009VT148 / NRI ence followup exam 2009VT148.	Main Steam D	ISI-13142-36-A	4/16/2009
100726	B- 2	Flange Bolts @ W-15	B7.50	FP-PE-NDE-510	ISI / VT / 2009VT068 / NRI	Main Steam D	ISI-13142-36-A	3/23/2009
100726	B- 2	Flange Boits @ W-15	B7.50	FF-FE-NDE-310	1317 VT / 2009 VT 000 / INKI	Main Steam D	131-13142-30-A	3/23/2009
100728	B- 4	Flange Bolts @ W-19	B7.50	FP-PE-NDE-510	ISI / VT / 2009VT027 / NRI	Main Steam D	ISI-13142-36-A	3/26/2009
			B7.70	FP-PE-NDE-510	PSI / VT / 2009VT074 / RI	Main Steam D	ISI-13142-36-A	4/3/2009
100732	B- 8	Valve Bolts	B7.70					
100732 Comments:		Valve Bolts isassembly damage. Replaced under		FP-PE-NDE-510	ISI / VT / 2009VT086 / NRI	Main Steam D	ISI-13142-36-A	4/6/2009
				FP-PE-NDE-510	ISI / VT / 2009VT086 / NRI			4/6/2009
Comments:	2009VT074: D	isassembly damage. Replaced under	WO-380817. Reference	FP-PE-NDE-510 PSI report 2009VT086	ISI / VT / 2009VT086 / NRI	Main Steam D	ISI-13142-36-A	
Comments: 101491	2009VT074: D B- 1	isassembly damage. Replaced under Flange Bolts	WO-380817. Reference B7.50	FP-PE-NDE-510 PSI report 2009VT086 FP-PE-NDE-510	ISI / VT / 2009VT086 / NRI ISI / VT / 2009VT133 / NRI	Main Steam D Head Vent	ISI-13142-36-A ISI-782A-A	4/21/2009
Comments: 101491 101850	2009VT074: D B- 1 B- 3	isassembly damage. Replaced under Flange Bolts Flange Bolts @ W 11	WO-380817. Reference B7.50 B7.50	FP-PE-NDE-510 PSI report 2009VT086 FP-PE-NDE-510 FP-PE-NDE-510	ISI / VT / 2009VT086 / NRI ISI / VT / 2009VT133 / NRI ISI / VT / 2009VT008 / NRI	Main Steam D Head Vent RHR Return A	ISI-13142-36-A ISI-782A-A ISI-97003-A	4/21/2009 3/23/2009
Comments: 101491 101850 101891 101930	2009VT074: D B- 1 B- 3 B- 2	isassembly damage. Replaced under Flange Bolts Flange Bolts @ W 11 Flange Bolts @ W-9	WO-380817. Reference B7.50 B7.50 B7.50	FP-PE-NDE-510 PSI report 2009VT086 FP-PE-NDE-510 FP-PE-NDE-510 FP-PE-NDE-510	ISI / VT / 2009VT086 / NRI ISI / VT / 2009VT133 / NRI ISI / VT / 2009VT008 / NRI ISI / VT / 2009VT009 / NRI	Main Steam D Head Vent RHR Return A RHR Suction A	ISI-13142-36-A ISI-782A-A ISI-97003-A ISI-97003-B	4/21/2009 3/23/2009 3/23/2009
Comments: 101491 101850 101891	2009VT074: D B- 1 B- 3 B- 2 B- 3	isassembly damage. Replaced under Flange Bolts Flange Bolts @ W 11 Flange Bolts @ W-9 Flange Bolts	WO-380817. Reference B7.50 B7.50 B7.50 B7.50	FP-PE-NDE-510 PSI report 2009VT086 FP-PE-NDE-510 FP-PE-NDE-510 FP-PE-NDE-510 FP-PE-NDE-510	ISI / VT / 2009VT086 / NRI ISI / VT / 2009VT133 / NRI ISI / VT / 2009VT008 / NRI ISI / VT / 2009VT009 / NRI ISI / VT / 2009VT007 / NRI	Main Steam D Head Vent RHR Return A RHR Suction A RHR Return B	ISI-13142-36-A ISI-782A-A ISI-97003-A ISI-97003-B ISI-97004-A	4/21/2009 3/23/2009 3/23/2009 3/23/2009

1. Owner: Xcel Energy Inc., NSPM, 414 Nicollet Mall, Minneapolis, MN 55401

2. Plant: Monticello Nuclear Generating Plant Unit 1

3. Plant Address: 2807 West County Road 75, Monticello, MN 55362

4. Owner Certificate of Authorization (If Req.): N/A

5. Commercial Service Date: June 30, 1971

Summary No.	Comp. ID	Comp. Desc.	Item	Procedure	Scope/Method/Report/Results	System	Dwg/ISO	Exam Date
102415	06-35B	CRD Housing Bolts	B7.80	FP-PE-NDE-510	PSI / VT / BOP-VT-09-001 / NRI	CRD	ISI FIG 2	3/5/2009
102421	10-11B	CRD Housing Bolts	B7.80	FP-PE-NDE-510	PSI / VT / BOP-VT-09-001 / NRI	CRD	ISI FIG 2	3/5/2009
102435	10- 4 3B	CRD Housing Bolts	B7.80	FP-PE-NDE-510	PSI / VT / BOP-VT-09-001 / NRI	CRD	ISI FIG 2	3/5/2009
102441	1 4 -11B	CRD Housing Bolts	B7.80	FP-PE-NDE-510	PSI / VT / BOP-VT-09-001 / NRI	CRD	ISI FIG 2	3/5/2009
102443	14-19B	CRD Housing Bolts	B7.80	FP-PE-NDE-510	PSI / VT / BOP-VT-09-001 / NRI	CRD	ISI FIG 2	3/5/2009
102447	14-35B	CRD Housing Bolts	B7.80	FP-PE-NDE-510	PSI / VT / BOP-VT-09-001 / NRI	CRD	ISI FIG 2	3/5/2009
102463	18-31B	CRD Housing Bolts	B7.80	FP-PE-NDE-510	PSI / VT / BOP-VT-09-001 / NRI	CRD	ISI FIG 2	3/5/2009
102466	18-43B	CRD Housing Bolts	B7.80	FP-PE-NDE-510	PSI / VT / BOP-VT-09-001 / NRI	CRD	ISI FIG 2	3/5/2009
102472	22-03B	CRD Housing Bolts	B7.80	FP-PE-NDE-510	PSI / VT / BOP-VT-09-001 / NRI	CRD	ISI FIG 2	3/5/2009
102475	22-07B	CRD Housing Bolts	B7.80	FP-PE-NDE-510	PSI / VT / BOP-VT-09-001 / NRI	CRD	ISI FIG 2	3/5/2009
102476	22-11B	CRD Housing Bolts	B7.80	FP-PE-NDE-510	PSI / VT / BOP-VT-09-001 / NRI	CRD	ISI FIG 2	3/5/2009
102484	22-43B	CRD Housing Bolts	B7.80	FP-PE-NDE-510	PSI / VT / BOP-VT-09-001 / NRI	CRD	ISI FIG 2	3/5/2009
102493	26-03B	CRD Housing Bolts	B7.80	FP-PE-NDE-510	PSI / VT / BOP-VT-09-001 / NRI	CRD	ISI FIG 2	3/5/2009
102504	26-47B	CRD Housing Bolts	B7.80	FP-PE-NDE-510	PSI / VT / BOP-VT-09-001 / NRI	CRD	ISI FIG 2	3/5/2009
102538	34-39B	CRD Housing Bolts	B7.80	FP-PE-NDE-510	PSI / VT / BOP-VT-09-001 / NRI	CRD	ISI FIG 2	3/5/2009
102544	34-47B	CRD Housing Bolts	B7.80	FP-PE-NDE-510	PSI / VT / BOP-VT-09-001 / NRI	CRD	ISI FIG 2	3/5/2009
102550	38-11B	CRD Housing Bolts	B7.80	FP-PE-NDE-510	PSI / VT / BOP-VT-09-001 / NRI	CRD	ISI FIG 2	3/5/2009

Exam Date

NIS-1 Attachment (Appendix A) Cycle 24 Inservice Inspection Report (2009 RFO) Interval 4, Period 2, M1_I4-P2_RF24

	el Energy Inc., NSPM, 414 Nicollet Mall, Minneapolis, MN 5540 ticello Nuclear Generating Plant Unit 1	1		4. Owner Certificate of Au 5. Commercial Service Da	• • • •	: N/A	
3. Plant Addr	ess: 2807 West County Road 75, Monticello, MN 55362			6. National Board Number	r for Unit: N/A		
Summary			-				
No.	Comp. ID Comp. Desc.	Item	Procedure	Scope/Method/Report/Results	System	Dwg/ISO	F

Class 1	Category E	S-K, EXAMS PERFORMEL) FOR IS1 (4th Interval, Per	field 2 Credited Exa	ims)			
101256	H- 8	Dbl Spring / 4 Lugs	B10.20	PEI-02.02.01	ISI / MT / 2009MT002 / NRI	Feedwater	ISI-13142-53-A	4/14/2009
						5°		

2. Plant: Montic	cello Nuclear Ger	M, 414 Nicollet Mall, Minneapolis, MN 55 herating Plant Unit 1 unty Road 75, Monticello, MN 55362	401		 Owner Certificate of Authorization (If Req.): N/A Commercial Service Date: June 30, 1971 National Board Number for Unit: N/A 				
Summary No.	Comp. ID	Comp. Desc.	Item	Procedure	Scope/Method/Report/Results	System	Dwg/ISO	Exam Date	
Class 1	Category B	-M-2, EXAMS PERFORMED FO	OR IS1 (4th Interval, I	Period 2 Credited E	Exams)				
100746	V- 4	Valve Int Surfaces	B12.50	FP-PE-NDE-530	ISI / VT / 2009VT087 / NRI	Main Steam D	ISI-13142-36-A	4/1/2009	
Comments:	Identified conc	litions outside of exam boundary. Add	Iressed by CAPs 011763	19, 01176198, and W	D-01176319				

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1. Owner: Xcel Energy Inc., NSPM, 414 Nicollet Mall, Minneapolis, MN 55401

2. Plant: Monticelio Nuclear Generating Plant Unit 1

3. Plant Address: 2807 West County Road 75, Monticello, MN 55362

4. Owner Certificate of Authorization (If Req.): N/A

5. Commercial Service Date: June 30, 1971

Summary	0 ID		14 a ma	Des se durs		0	D (100	
No	Comp. ID	Comp. Desc.	Item	Procedure	Scope/Method/Report/Results	System	Dwg/ISO	Exam Date
Class 1	Category B-	N-1, EXAMS PERFORMED FOR IS1 (4	th Interval, F	Period 2 Credited	Exams)		··· .	
102716	C- 1A	Top Guide (areas made access., fuel cell vacated)	B13.10	PEI-02.05.05	ISI / VT / AREVA Report / NRI	Reactor Vessel	ISI Fig 0	4/17/2009
Comments:	Various exam d	ates, date shown is final review signature date						
107696	C- 1C	Guide Rod Bracket @ 175 deg	B13.10	PEI-02.05.05	ISI / VT / AREVA Report / NRI	Reactor Vessel	ISI Fig 0	4/2/2009
107697	C- 1D	Guide Rod Bracket @ 355 deg	B13.10	PEI-02.05.05	ISI / VT / AREVA Report / NRI	Reactor Vessel	ISI Fig 0	4/1/2009
102719	C- 4A	Surveillance Sample Holder & Bracket @ 30 deg.	B13.10	PEI-02.05.05	ISI / VT / AREVA Report / RI	Reactor Vessel	ISI Fig 0	4/8/2009
Comments:	Previously repo	rted, no change. Acceptable per CAP 038142	TeamTrack)					
107678	C- 4B	Surveillance Sample Holder & Bracket @ 120 deg.	B13.10	PEI-02.05.05	ISI / VT / AREVA Report / NRI	Reactor Vessel	ISI Fig 0	4/8/2009
107679	C- 4C	Surveillance Sample Holder & Bracket @ 300 deg.	B13.10	PEI-02.05.05	ISI / VT / AREVA Report / NRI	Reactor Vessel	ISI Fig 0	4/1/2009
102723	C- 8A	Stm Dryer Holddown Bracket @ 35 deg (in Closure Head)	B13.10	PEI-02.05.05	ISI / VT / 2009VT097 / NRI	Reactor Vessel	ISI Fig 0	4/14/2009
107723	C- 8B	Stm Dryer Holddown Bracket @ 145 deg (in Closure Head)	B13.10	PEI-02.05.05	ISI / VT / 2009VT098 / NRI	Reactor Vessel	ISI Fig 0	4/14/2009
107724	C- 8C	Stm Dryer Holddown Bracket @ 215 deg (in Closure Head)	B13.10	PEI-02.05.05	ISI / VT / 2009VT099 / NRI	Reactor Vessel	ISI Fig 0	4/14/2009
107725	C- 8D	Stm Dryer Holddown Bracket @ 325 deg (in Closure Head)	B13.10	PEI-02.05.05	ISI / VT / 2009VT096 / NRI	Reactor Vessel	ISI Fig 0	4/14/2009

1. Owner: Xcel Energy Inc., NSPM, 414 Nicollet Mall, Minneapolis, MN 55401

2. Plant: Monticello Nuclear Generating Plant Unit 1

3. Plant Address: 2807 West County Road 75, Monticello, MN 55362

4. Owner Certificate of Authorization (If Req.): N/A

5. Commercial Service Date: June 30, 1971

Summary						- .		_
No.	Comp. ID	Comp. Desc.	Item	Procedure	Scope/Method/Report/Results	System	Dwg/ISO	Exam Date
102724	C- 9A	Stm Dryer Holddown Bracket @ 35 deg	B13.10	PEI-02.05.05	ISI / VT / AREVA Report / NRI	Reactor Vessel	ISI Fig 0	4/1/2009
107730	C- 9B	Stm Dryer Holddown Bracket @ 145 deg	B13.10	PEI-02.05.05	ISI / VT / AREVA Report / NRI	Reactor Vessel	ISI Fig 0	4/2/2009
107731	C- 9C	Stm Dryer Holddown Bracket @ 215 deg	B13.10	PEI-02.05.05	ISI / VT / AREVA Report / NRI	Reactor Vessel	ISI Fig 0	4/2/2009
107732	C- 9D	Stm Dryer Holddown Bracket @ 325 deg	B13.10	PEI-02.05.05	ISI / VT / AREVA Report / NRI	Reactor Vessel	ISI Fig 0	4/1/2009
107738	C- 12A	Core Plate (areas made access., fuel cell vacated)	B13.10	PEI-02.05.05	ISI / VT / AREVA Report / NRI	Reactor Vessel	ISI Fig 0	4/17/2009
Comments:	Various exam d	ates, date shown is final review signature date						
107706	C- 7B	Shroud Support Leg Weld @ 010 deg	B13.30	PEI-02.05.05	ISI / VT / AREVA Report / RI	Reactor Vessel	ISI Fig 0	4/12/2009
Comments:	Acceptable per	CAP A/R 01177677 and Structural Integrity and	alysis					
107707	C- 7C	Shroud Support Leg Weld @ 030 deg	B13.30	PEI-02.05.05	ISI / VT / AREVA Report / RI	Reactor Vessel	ISI Fig 0	4/11/2009
Comments:	Acceptable per	CAP A/R 01177677 and Structural Integrity and	alysis					
107708	C- 7D	Shroud Support Leg Weld @ 060 deg	B13.30	PEI-02.05.05	ISI / VT / AREVA Report / RI	Reactor Vessel	ISI Fig 0	4/11/2009
Comments:	Acceptable per	CAP A/R 01177677 and Structural Integrity and	alysis					
107709	C- 7E	Shroud Support Leg Weld @ 090 deg	B13.30	PEI-02.05.05	ISI / VT / AREVA Report / NRI	Reactor Vessel	ISI Fig 0	4/11/2009

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5. Commercial Service Date: June 30, 1971

Summary No.	Comp. ID	Comp. Desc.	Item	Procedure	Scope/Method/Report/Results	System	Dwg/ISO	Exam Date
NU.				Tibleddie	Scope/Method/Report/Results	Oystein	Dwg/100	
107710	C- 7F	Shroud Support Leg Weld @ 120 deg	B13.30	PEI-02.05.05	ISI / VT / AREVA Report / RI	Reactor Vessel	ISI Fig 0	4/11/2009
Comments:	Acceptable per	CAP A/R 01177677 and Structural Integrity a	nalysis					
107711	C- 7G	Shroud Support Leg Weld @ 150 deg	B13.30	PEI-02.05.05	ISI / VT / AREVA Report / RI	Reactor Vessel	ISI Fig 0	4/10/2009
Comments:	Acceptable per	CAP A/R 01177677 and Structural Integrity a	nalysis					
107712	C- 7H	Shroud Support Leg Weld @ 170 deg	B13.30	PEI-02.05.05	ISI / VT / AREVA Report / RI	Reactor Vessel	ISI Fig 0	4/11/2009
Comments:	Acceptable per	CAP A/R 01177677 and Structural Integrity a	nalysis					
107713	C- 7J	Shroud Support Leg Weld @ 190 deg	B13.30	PEI-02.05.05	ISI / VT / AREVA Report / RI	Reactor Vessel	ISI Fig 0	4/9/2009
Comments:	Acceptable per	CAP A/R 01177677 and Structural Integrity a	nalysis					
107714	C- 7K	Shroud Support Leg Weld @ 210 deg	B13.30	PEI-02.05.05	ISI / VT / AREVA Report / RI	Reactor Vessel	ISI Fig 0	4/9/2009
Comments:	Acceptable per	CAP A/R 01177677 and Structural Integrity a	nalysis					
107715	C- 7L	Shroud Support Leg Weld @ 240 deg	B13.30	PEI-02.05.05	ISI / VT / AREVA Report / RI	Reactor Vessel	ISI Fig 0	4/10/2009
Comments:	Acceptable per	CAP A/R 01177677 and Structural Integrity a	nalysis	•				
107716	C- 7M	Shroud Support Leg Weld @ 270 deg	B13.30	PEI-02.05.05	ISI / VT / AREVA Report / RI	Reactor Vessel	ISI Fig 0	4/11/2009
Comments:	Acceptable per	CAP A/R 01177677 and Structural Integrity a	nalysis					
107717	C- 7N	Shroud Support Leg Weld @ 300 deg	B13.30	PEI-02.05.05	ISI / VT / AREVA Report / RI	Reactor Vessel	ISI Fig 0	4/11/2009
Comments:	Acceptable per	CAP A/R 01177677 and Structural Integrity a	nalysis					

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5. Commercial Service Date: June 30, 1971

Summary No.	Comp. ID	Comp. Desc.	Item	Procedure	Scope/Method/Report/Results	System	Dwg/ISO	Exam Date
107718	C- 7P	Shroud Support Leg Weld @ 330 deg	B13.30	PEI-02.05.05	ISI / VT / AREVA Report / NRI	Reactor Vessel	ISI Fig 0	4/11/2009
107719	C- 7Q	Shroud Support Leg Weld @ 350 deg	B13.30	PEI-02.05.05	ISI / VT / AREVA Report / NRI	Reactor Vessel	ISI Fig 0	4/11/2009
107739	C- 12B	Core Plate (areas made access., fuel cell vacated)	B13.40	PEI-02.05.05	ISI / VT / AREVA Report / NRI	Reactor Vessel	ISI Fig 0	4/17/2009
Comments:	Various exam da	ates, date shown is final review signature date						
107746	C- 18	Ctrl Rod Guide Tube (CRGT) - Int (when access, fuel cell vacated)	B13.40	PEI-02.05.05	ISI / VT / AREVA Report / RI	Reactor Vessel	ISI Fig 0	4/17/2009
Comments:		ates, date shown is final review signature date on identified in CRGT 26-11 and 18-07. Accept	able per CAP .	A/R 01176818				

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Summary

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4. Owner Certificate of Authorization (If Req.): N/A

5. Commercial Service Date: June 30, 1971

No.	Comp. ID	Comp. Desc.	Item	Procedure	Scope/Method/Report/Results	System	Dwg/ISO	Exam Date
Olasa d	0-4-0 E /		Internal De	nied 2 Credited Eve	·····			
Class 1	Category F-/							
100427	H- 1	Restraint / Clamp	F1.10a	FP-PE-NDE-530	ISI / VT / 2009VT017 / NRI	Core Spray B	ISI-13142-26-A	3/24/2009
100496	H- 2	Spring / Clamp	F1.10c	FP-PE-NDE-530	ISI / VT / 2009VT072 / NRI	Core Spray A	ISI-13142-31-A	4/2/2009
100578	H- 2	Snubber / Clamp	F1.10b	FP-PE-NDE-530	PSI / VT / 2009VT094 / NRI	Main Steam A	ISI-13142-33-A	4/11/2009
100583	H- 7	Snubber / Clamp	F1.10b	FP-PE-NDE-530	PSI / VT / 2009VT085 / NRI	Main Steam A	ISI-13142-33-A	4/7/2009
100631	H- 2	Snubber / Clamp	F1.10b	FP-PE-NDE-530	PSI / VT / 2009VT091 / NRI	Main Steam B	ISI-13142-34-A	4/9/2009
101198	H- 4	Snubber / Clamp	F1.10b	FP-PE-NDE-530	PSI / VT / 2009VT022 / RI	Feedwater	ISI-13142-52-A	3/25/2009
Comments:	CAP 01175433,	, Engineer rotated mechanically, acceptable.						
101201	H- 7	Snubber / Clamp	F1.10b	FP-PE-NDE-530	PSI / VT / 2009VT001 / NRI	Feedwater	ISI-13142-52-A	3/21/2009
101253	H- 5	Snubber / Clamp	F1.10b	FP-PE-NDE-530	PSI / VT / 2009VT023 / RI	Feedwater	ISI-13142-53-A	3/25/2009
Comments:	CAP 01175436,	, Engineer rotated mechanically, acceptable.						
101255	H- 7	Snubber / Clamp	F1.10b	FP-PE-NDE-530	PSI / VT / 2009VT002 / NRI	Feedwater	ISI-13142-53-A	3/21/2009
101896	H- 2	Snubber / Clamp	F1.10b	FP-PE-NDE-530	PSI / VT / 2009VT071 / NRI	RHR Suction A	ISI-97003-B	4/2/2009
101935	H- 3	Snubber / Clamp	F1.10b	FP-PE-NDE-530	PSI / VT / 2009VT088 / NRI	RHR Return B	ISI-97004-A	4/8/2009
101936	H- 4	Snubber / Clamp	F1.10b	FP-PE-NDE-530	PSI / VT / 2009VT089 / NRI	RHR Return B	ISI-97004-A	4/8/2009
				FP-PE-NDE-530	ISI / VT / 2009VT090 / NRI	RHR Return B	ISI-97004-A	4/8/2009
102018	H- 1	Restraint	F1.10a	FP-PE-NDE-530	ISI / VT / 2009VT024 / NRI	Recirc Manifold A	ISI-97005-B	3/25/2009

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2. Plant: Monticello Nuclear Generating Plant Unit 1

3. Plant Address: 2807 West County Road 75, Monticello, MN 55362

- 4. Owner Certificate of Authorization (If Req.): N/A
- 5. Commercial Service Date: June 30, 1971
- 6. National Board Number for Unit: N/A

Summary								
No.	Comp. ID	Comp. Desc.	Item	Procedure	Scope/Method/Report/Results	System	Dwg/ISO	Exam Date
105022	H-17	Spring / Clamp	F1.10c	FP-PE-NDE-530	PSI / VT / 2009VT025 / NRI	Head Vent	ISI-782A	3/25/2009
105023	H- 1	Hanger	F1.10a	FP-PE-NDE-530	PSI / VT / 2009VT136 / NRI	Head Vent	ISI-782A-A	4/26/2009
105024	H- 2	Spring / Clamp	F1.10c	FP-PE-NDE-530	PSI / VT / 2009VT135 / NRI	Head Vent	ISI-782A-A	4/26/2009
105025	H- 3	Hanger	F1.10a	FP-PE-NDE-530	PSI / VT / 2009VT137 / NRI	Head Vent	ISI-782A-A	4/26/2009
107522	H- 8	Dbl Spring / 4 Lugs	F1.10c	FP-PE-NDE-530	ISI / VT / 2009VT100 / NRI	Feedwater	ISI-13142-53-A	4/14/2009
107528 Comments:	H- 8 CAP 01175429,	Snubber / Lugs Engineer rotated mechanically, acceptable.	F1.10b	FP-PE-NDE-530	PSI / VT / 2009VT012 / RI	Recirculation A	ISI-97005-A	3/24/2009
107530	H- 2	Snubber / Lugs	F1.10b	FP-PE-NDE-530	PSI / VT / 2009VT095 / NRI	Recirc Manifold A	ISI-97005-B	4/13/2009
107540	H- 7	Snubber / Lugs	F1.40b	FP-PE-NDE-530	PSI / VT / 2009VT003 / NRI	Recirc Pump A	ISI-97005-C	3/21/2009
107541	H- 8	Snubber / Lugs	F1.40b	FP-PE-NDE-530	PSI / VT / 2009VT014 / NRI	Recirc Pump A	ISI-97005-C	3/24/2009
107542	H- 9	Snubber / Lugs	F1.40b	FP-PE-NDE-530	PSI / VT / 2009VT013 / NRI	Recirc Pump A	ISI-97005-C	3/24/2009
107547 Comments:	H- 8 CAP 01174890,	Snubber / Lugs Engineer rotated mechanically, acceptable.	F1.10b	FP-PE-NDE-530	PSI / VT / 2009VT004 / RI	Recirculation B	ISI-97006-A	3/21/2009
107559	H- 7	Snubber / Lugs	F1.40b	FP-PE-NDE-530	PSI / VT / 2009VT005 / NRI	Recirc Pump B	ISI-97006-C	3/21/2009

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4. Owner Certificate of Authorization (If Req.): N/A

5. Commercial Service Date: June 30, 1971

Summary						_	_	
<u>No.</u>	Comp. ID	Comp. Desc.	Item	Procedure	Scope/Method/Report/Results	System	Dwg/ISO	Exam Date
Class 1	Category R-	A. EXAMS PERFORMED	FOR IS1 (4th Interval, Pe	riod 2 Credited Ex	ams)			
101009	W-17	Pipe-to-Valve	R1.11-2	FP-PE-NDE-401	ISI / UT / 2009UT009 (Page 1) / NRI	HPCI Steam	ISI-13142-42-A	3/20/2009
				FP-PE-NDE-401	ISI / UT / 2009UT009 (Page 2) / GEO	HPCI Steam	ISI-13142-42-A	3/20/2009
Comments:	Single sided ex	am - no scan on valve side due i	to configuration. Essentially 1	00% coverage.				
101286	W-27	Reducer-to-Pipe	R1.11-2	FP-PE-NDE-401	ISI / UT / 2009UT019 (Page 1) / NRI	Feedwater	ISI-13142-53-A	3/25/2009
		·		FP-PE-NDE-401	ISI / UT / 2009UT019 (Page 2) / NRI	Feedwater	ISI-13142-53-A	3/26/2009
101875	W-16	Elbow-to-Pipe	R1.11-2	FP-PE-NDE-401	ISI / UT / 2009UT008 / NRI	RHR Return A	ISI-97003-A	3/22/2009
101950	W-11	Elbow-to-Pipe	R1.11-2	FP-PE-NDE-401	ISI / UT / 2009UT007 / NRI	RHR Return B	ISI-97004-A	3/22/2009
100502	W-3	Pipe-to-Pipe	R1.20-4	FP-PE-NDE-401	ISI / UT / 2009UT010 (Page 1) / NRI	Core Spray A	ISI-13142-31-A	3/20/2009
				FP-PE-NDE-401	ISI / UT / 2009UT010 (Page 2) / NRI	Core Spray A	ISI-13142-31-A	3/20/2009
Comments:	Single sided ex	am - no scan on penetration side	e due to configuration. Essen	tially 100% coverage.				
100592	W-4	Pipe-to-Elbow	R1.20-4	FP-PE-NDE-401	ISI / UT / 2009UT034 (Page 1) / NRI	Main Steam A	ISI-13142-33-A	4/11/2009
				FP-PE-NDE-401	ISI / UT / 2009UT034 (Page 2) / NRI	Main Steam A	ISI-13142-33-A	4/11/2009
				FP-PE-NDE-401	ISI / UT / 2009UT034 (Page 3) / NRI	Main Steam A	ISI-13142-33-A	4/11/2009
100715	W-25	Pipe-to-Elbow	R1.20-4	FP-PE-NDE-401	ISI / UT / 2009UT017 (Page 1) / NRI	Main Steam C	ISI-13142-35-A	3/25/2009
				FP-PE-NDE-401	ISI / UT / 2009UT017 (Page 2) / GEO	Main Steam C	ISI-13142-35-A	3/26/2009
101218	W-12	Pipe-to-Elbow	R1.20-4	FP-PE-NDE-401	ISI / UT / 2009UT018 (Page 1) / NRI	Feedwater	ISI-13142-52-A	3/25/2009
				FP-PE-NDE-401	ISI / UT / 2009UT018 (Page 2) / NRI	Feedwater	ISI-13142-52-A	3/26/2009
							<u> </u>	

2. Plant: Mon	el Energy Inc., NSPM, 414 Nicollet Mall, Minneapolis, MN 554 nticello Nuclear Generating Plant Unit 1 ress: 2807 West County Road 75, Monticello, MN 55362	401	 Owner Certificate of Authorization (If Req.): N/A Commercial Service Date: June 30, 1971 National Board Number for Unit: N/A 				
Summary No.	Comp. ID Comp. Desc.	ltem	Procedure	Scope/Method/Report/Results	System	Dwg/ISO	Exam Date
Class 2	Category C-A, EXAMS PERFORMED FOR	IS1 (4th Interval, Pe	riod 2 Credited Ex	ams)			3/21/2009

 Owner: Xcel Energy Inc., NSPM, 414 Nicollet Mall, Minneapolls, MN 55401 Plant: Monticello Nuclear Generating Plant Unit 1 Plant Address: 2807 West County Road 75, Monticello, MN 55362 				 Owner Certificate of Authorization (If Req.): N/A Commercial Service Date: June 30, 1971 National Board Number for Unit: N/A 			
Summary No.	Comp. ID Comp. Desc.	ltem	Procedure	Scope/Method/Report/Results	System	Dwg/ISO	Exam Date
Class 2 101595	Category C-B, EXAMS PERFORMED FOR N- 2 Shell-Pad-Noz	R IS1 (4th Interval, Per C2.31	riod 2 Credited Ex PEI-02.02.01	isi / MT / 2009MT001 / NRI	RHR Heat Exchanger A	ISI-7905-32A	3/27/2009

1. Owner: Xcel Energy Inc., NSPM, 414 Nicollet Mall, Minneapolis, MN 55401

2. Plant: Monticello Nuclear Generating Plant Unit 1

Summary

3. Plant Address: 2807 West County Road 75, Monticello, MN 55362

- 4. Owner Certificate of Authorization (If Req.): N/A
- 5. Commercial Service Date: June 30, 1971
- 6. National Board Number for Unit: N/A

Comp. ID	Comp. Desc.	Item	Procedure	Scope/Method/Report/Results	System	Dwg/ISO	Exam Date
Category F-A	, EXAMS PERFORMED FOR IS1	4th Interval, Pe	riod 2 Credited Exa	ims)			
H- 4	Slide	F1.20b	FP-PE-NDE-530	PSI / VT / 2009VT092 / NRI	RHR Suction B	ISI-13142-17-C	4/10/2009
H- 1	Snubber / Clamp	F1.20b	FP-PE-NDE-530	PSI / VT / 2009VT019 / NRI	HPCI Steam Disch	ISI-13142-19-A	3/23/2009
H- 2	Dbl Snubber / Clamp	F1.20b	FP-PE-NDE-530	PSI / VT / 2009VT066 / NRI	HPCI Steam Disch	ISI-13142-19-A	3/28/2009
H-11	Snubber / Clamp	F1.20b	FP-PE-NDE-530	PSI / VT / 2009VT020 / NRI	HPCI Steam	ISI-13142-42-A	3/23/2009
			FP-PE-NDE-530	PSI / VT / 2009VT063 / NRI	HPCI Steam	ISI-13142-42-A	3/28/2009
H- 1	Snubber / Dbl Strut	F1.20b	FP-PE-NDE-530	PSI / VT / 2009VT067 / NRI	RHR A	ISI-13142-51-A	4/1/2009
DVMX Supp D	DVMX Pump Support	F1.40a	FP-PE-NDE-530	ISI / VT / 2009VT006 / NRI	HPCI Pumps	ISI-8292-42A	3/22/2009
H-12	Snubber/ Clamp	F1.20b	FP-PE-NDE-530	PSI / VT / 2009VT015 / NRI	CRD Scram Header A	ISI-93268-1A	3/24/2009
H-14	Snubber / Clamp	F1.20b	FP-PE-NDE-530	PSI / VT / 2009VT016 / NRI	CRD Scram Header A	ISI-93268-1A	3/24/2009
H- 1	Double Snubber	F1.20b	FP-PE-NDE-530	PSI / VT / 2009VT069 / NRI	RCIC Steam Discharge	ISI-13142-19-B	4/2/2009
			FP-PE-NDE-530	PSI / VT / 2009VT070 / NRI	RCIC Steam Discharge	ISI-13142-19-B	4/2/2009
H-1B	Restraint Hanger	F1.20a	FP-PE-NDE-530	PSI / VT / 2009VT065 / RI	Core Spray A Discharge	ISI-13142-31-B	4/1/2009
Acceptable per (CAP-01175351 Condition Evaluation.						
H- 4	Restraint Hanger	F1.20a	FP-PE-NDE-530	PSI / VT / 2009VT102 / NRI	RHR B	ISI-13142-51-C	4/10/2009
H- 2	Restraint Hanger	F1.20a	FP-PE-NDE-530	PSI / VT / 2009VT101 / NRI	RHR B	ISI-13142-51-D	4/12/2009
H- 2	Snubber	F1.20b	FP-PE-NDE-530	PSI / VT / 2009VT018 / RI	RHR A	ISI-13142-37-E	3/23/2009
2009VT018: RI -	- New retainer clip installed per WO-32507	0-03. Reference I	FP-PE-NDE-530 NRI report 2009VT093	PSI / VT / 2009VT093 / NRI	RHR A	ISI-13142-37-E	4/9/2009
Support B	Support B,E200A 180°	F1.40a	FP-PE-NDE-530	ISI / VT / 2009VT084 / NRI	RHR Heat Exchanger A	ISI-7905-32A	4/5/2009
	H- 4 H- 1 H- 2 H-11 DVMX Supp D H-12 H-14 H- 1 H-18 Acceptable per (H- 4 H- 2 H- 2 2009VT018: RI -	H- 4 Slide H- 1 Snubber / Clamp H- 2 Dbl Snubber / Clamp H- 1 Snubber / Clamp H- 1 Snubber / Dbl Strut DVMX Supp D DVMX Pump Support H-12 Snubber / Clamp H-14 Snubber / Clamp H-14 Snubber / Clamp H-14 Snubber / Clamp H-15 Restraint Hanger H-18 Restraint Hanger Acceptable per CAP-01175351 Condition Evaluation. H- 4 Restraint Hanger H- 2 Restraint Hanger H- 2 Snubber 2009VT018: RI New retainer clip installed per WO-32507	H-4SlideF1.20bH-1Snubber / ClampF1.20bH-2Dbl Snubber / ClampF1.20bH-11Snubber / ClampF1.20bH-11Snubber / Dbl StrutF1.20bDVMX Supp DDVMX Pump SupportF1.40aH-12Snubber / ClampF1.20bH-14Snubber / ClampF1.20bH-15Restraint HangerF1.20bH-18Restraint HangerF1.20aAcceptable per CAP-01175351 Condition Evaluation.F1.20aH-2Restraint HangerF1.20aH-2SnubberF1.20aH-2SnubberF1.20b2009VT018: RI New retainer clip installed per WO-325070-03. Reference I	H- 4SlideF1.20bFP-PE-NDE-530H- 1Snubber / ClampF1.20bFP-PE-NDE-530H- 2Dbl Snubber / ClampF1.20bFP-PE-NDE-530H- 11Snubber / ClampF1.20bFP-PE-NDE-530H- 11Snubber / Dbl StrutF1.20bFP-PE-NDE-530H- 1Snubber / Dbl StrutF1.20bFP-PE-NDE-530DVMX Supp DDVMX Pump SupportF1.40aFP-PE-NDE-530H- 12Snubber / ClampF1.20bFP-PE-NDE-530H- 14Snubber / ClampF1.20bFP-PE-NDE-530H- 14Snubber / ClampF1.20bFP-PE-NDE-530H- 14Restraint HangerF1.20aFP-PE-NDE-530H- 18Restraint HangerF1.20aFP-PE-NDE-530H- 2Restraint HangerF1.20aFP-PE-NDE-530H- 2SnubberF1.20aFP-PE-NDE-530H- 2SnubberF1.20aFP-PE-NDE-530H- 2NubberF1.20aFP-PE-NDE-530H- 2SnubberF1.20aFP-PE-NDE-530H- 2SnubberF1.20aFP-PE-NDE-530H- 2SnubberF1.20bFP-PE-NDE-530H- 2SnubberF1.20bFP-PE-NDE-530H- 3SnubberF1.20bFP-PE-NDE-530H- 4Restraint HangerF1.20bFP-PE-NDE-530H- 2SnubberF1.20bFP-PE-NDE-530H- 3SnubberSnubberF1.20bFP-PE-NDE-530H- 4Restraint HangerF1.20bFP-PE-NDE-530<	Category F-A, Side EXAMS PERFORMED FOR IS1 (4th Interval, Period 2 Credited Exams) H-4 Side F1.20b FP-PE-NDE-530 PSI / VT / 2009VT092 / NRI H-1 Snubber / Clamp F1.20b FP-PE-NDE-530 PSI / VT / 2009VT092 / NRI H-2 Dbl Snubber / Clamp F1.20b FP-PE-NDE-530 PSI / VT / 2009VT066 / NRI H-11 Snubber / Clamp F1.20b FP-PE-NDE-530 PSI / VT / 2009VT066 / NRI H-11 Snubber / Clamp F1.20b FP-PE-NDE-530 PSI / VT / 2009VT066 / NRI H-11 Snubber / Dbl Strut F1.20b FP-PE-NDE-530 PSI / VT / 2009VT066 / NRI H-1 Snubber / Dbl Strut F1.20b FP-PE-NDE-530 PSI / VT / 2009VT066 / NRI DVMX Supp D DVMX Pump Support F1.40a FP-PE-NDE-530 PSI / VT / 2009VT016 / NRI H-12 Snubber / Clamp F1.20b FP-PE-NDE-530 PSI / VT / 2009VT016 / NRI H-14 Snubber / Clamp F1.20b FP-PE-NDE-530 PSI / VT / 2009VT066 / NRI H-14 Double Snubber F1.20a FP-PE-NDE-530 PSI / VT / 2009VT066 / NR	Category F-A, EXAMS PERFORMED FOR IS1 (4th Interval, Period 2 Credited Exams) H-4 Silde F1.20b FP-PE-NDE-530 PSI / VT / 2009/T019 / NRI RHR Suction B H-1 Snubber / Clamp F1.20b FP-PE-NDE-530 PSI / VT / 2009/T019 / NRI HPCI Steam Disch H-2 Dbl Snubber / Clamp F1.20b FP-PE-NDE-530 PSI / VT / 2009/T006 / NRI HPCI Steam Disch H-11 Snubber / Clamp F1.20b FP-PE-NDE-530 PSI / VT / 2009/T006 / NRI HPCI Steam Disch H-11 Snubber / Clamp F1.20b FP-PE-NDE-530 PSI / VT / 2009/T006 / NRI HPCI Steam H-11 Snubber / Clamp F1.20b FP-PE-NDE-530 PSI / VT / 2009/T006 / NRI HPCI Steam H-1 Snubber / Dbl Strut F1.40a FP-PE-NDE-530 PSI / VT / 2009/T006 / NRI HPCI Pumps H-12 Snubber / Clamp F1.20b FP-PE-NDE-530 PSI / VT / 2009/T016 / NRI CRD Scram Header A H-14 Snubber / Clamp F1.20b FP-PE-NDE-530 PSI / VT / 2009/T016 / NRI CRD Scram Header A H-14 Double Snubber <t< td=""><td>Category F-A, EXAMS PERFORMED FOR IS1 (4th Interval, Period 2 Credited Exams) H-4 Silde F1.20b FP-PE-INDE-530 PSI / VT / 2009/T092 / NRI RHR Suction B ISI-13142-17-C H-1 Snubber / Clamp F1.20b FP-PE-INDE-530 PSI / VT / 2009/T097 / NRI HPCI Steam Disch ISI-13142-19-A H-2 Dbi Snubber / Clamp F1.20b FP-PE-INDE-530 PSI / VT / 2009/T066 / NRI HPCI Steam Disch ISI-13142-19-A H-11 Snubber / Clamp F1.20b FP-PE-INDE-530 PSI / VT / 2009/T066 / NRI HPCI Steam ISI-13142-42-A H-11 Snubber / Clamp F1.20b FP-PE-INDE-530 PSI / VT / 2009/T067 / NRI HPCI Steam ISI-13142-42-A H-1 Snubber / Dbl Strut F1.20b FP-PE-INDE-530 PSI / VT / 2009/T067 / NRI HPCI Pumps ISI-422-42-A DVMX Supp D DVMX Pump Support F1.40a FP-PE-INDE-530 PSI / VT / 2009/T067 / NRI HPCI Pumps ISI-43242-42-A H-12 Snubber / Clamp F1.20b FP-PE-INDE-530 PSI / VT / 2009/T067 / NRI RHR A ISI-53268-51A H-14</td></t<>	Category F-A, EXAMS PERFORMED FOR IS1 (4th Interval, Period 2 Credited Exams) H-4 Silde F1.20b FP-PE-INDE-530 PSI / VT / 2009/T092 / NRI RHR Suction B ISI-13142-17-C H-1 Snubber / Clamp F1.20b FP-PE-INDE-530 PSI / VT / 2009/T097 / NRI HPCI Steam Disch ISI-13142-19-A H-2 Dbi Snubber / Clamp F1.20b FP-PE-INDE-530 PSI / VT / 2009/T066 / NRI HPCI Steam Disch ISI-13142-19-A H-11 Snubber / Clamp F1.20b FP-PE-INDE-530 PSI / VT / 2009/T066 / NRI HPCI Steam ISI-13142-42-A H-11 Snubber / Clamp F1.20b FP-PE-INDE-530 PSI / VT / 2009/T067 / NRI HPCI Steam ISI-13142-42-A H-1 Snubber / Dbl Strut F1.20b FP-PE-INDE-530 PSI / VT / 2009/T067 / NRI HPCI Pumps ISI-422-42-A DVMX Supp D DVMX Pump Support F1.40a FP-PE-INDE-530 PSI / VT / 2009/T067 / NRI HPCI Pumps ISI-43242-42-A H-12 Snubber / Clamp F1.20b FP-PE-INDE-530 PSI / VT / 2009/T067 / NRI RHR A ISI-53268-51A H-14

,

APPENDIX B

Reactor Vessel IVVI Examinations

(9 pages to follow)





Monticello Nuclear Generating Station 2009 RFO-24 Refuel Outage In-Vessel Visual Examination Summary Report

1.0 In-Vessel Visual Examination Project Overview:

During the 2009 Monticello Nuclear Generating Station RFO-24 comprehensive visual examinations of reactor vessel internal components were conducted to ensure the continued integrity of the RPV internal components. These examinations were conducted in accordance with Monticello procedure PEI-02.05.05, Revision 1 including TCN–001-B. Additionally, all enhanced visual inspections (EVT-1) were performed in accordance with the Examination Recommendations of TR-105696-R10 (BWRVIP-03) Revision 10. Details of the examinations performed can be found in the individual component data sheets contained in Section 3.0 of this report. A synopsis of the components examined, the methods utilized, and the examination results are provided below.

1.1 <u>Scope</u>

The following table lists the scope of In-Vessel Visual Examinations, along with the examination method used.

Component	Scope of Work	Inspection Method
	Adapter to Shroud Baffle Plate (AD-2)	EVT-1
Jet Pump Assemblies	Diffuser to Backing Ring (AD-3a)	EVT-1
11-15	Diffuse weld (DF-1)	EVT-1
	Diffuse weld (DF-2)	EVT-1
Jet Pump Assemblies	Inlet Mixer weld (MX-1)	EVT-1
11-14	Inlet Mixer weld (MX-2)	EVT-1
	Inlet Mixer weld (MX-4)	EVT-1
Recirc Riser Welds @	Thermal Sleeve to Elbow (RS-1)	EVT-1
30°, 60°, 90°	Elbow to riser Pipe (RS-2)	EVT-1
	Riser Pipe to Transition Piece (RS-3)	EVT-1
Recirc Riser Welds @	Restrainer Bkt to Riser Pipe (RS-4)	EVT-1
210°, 240°	Restrainer Bkt to Riser Pipe (RS-5)	EVT-1
Shroud Support Legs	Monitor indication in Shroud Support Leg Upper Weld (H-10) @ 210°	VT-3
	H -10, H -11 and H -12 on all 14 Support Legs	VT-3
	Clamp Assemblies on Tee Box Junctions at 90°	VT-3
	Measure previous known indication P3A	EVT-1
Core Spray Header and Downcomers welds on	Bkt & Att welds at 30° and 150°	VT-3, EVT-1
Div II	Welds P1-90, P2-90, P3A, P3B, P4-B-a, P4-B- b, P4-B-c, P4-B-d, P5-A, P6-A, P7-A, P8-A-a, P8-A-b,P5-B, P6-B, P7-B, P8-B-a, P8-B-b,	EVT-1



	Clamp Assemblies on Tee Box Junctions at 270°	VT-3
Core Spray Header and	Bkt & Att welds at 210° and 330°	VT-3, EVT-1
Downcomers welds on Div I	Welds P1-270, P2-270, P3C, P3D, P5-C, P6-C, P7-C, P8-C-a, P8-C-b, P5-D, P6-D, P7-D, P8-D-a, P8-D-b,	EVT-1
Lower Core Spray	Welds S1-B, S2-B-1, S2-B-2, S4-B-1, S4-B-2	EVT-1
Sparger 'B'	BS3C-1, BS3C-2, BS3A, BS3B,	VT-1
Upper Core Spray	Welds S1-C, S2-C-1, S2-C-2, S4-C-1, S4-C-2	EVT-1
Sparger 'C'	CS3C-1, CS3C-2, CS3A, CSB,	VT-1
Core Spray Sparger Brackets	CS-SB @ 93 ⁰ , 126 ⁰ , 166 ⁰ , 193 ⁰ , 234 ⁰ , and 267 ⁰ ,	VT-1
Top Guide (B-N-1)	Accessible Bolting and Hardware, Grid Beams: 06-19, 06-27, 06-35, 10-11, 10-43, 14-07, 14-11, 14-15, 14-19, 14-35, 18-07, 18-31, 18-43, 22-03, 22-07, 22-11, 22-23, 22-31, 22-43, 26-03, 26-11, 26-47, 30-23, 30-31, 34-07, 34-15, 34-39, 34-47, 38-07, 38-11, 38-15, 42-11, 42-15	VT-3
Core Plate (B-N-1, B-N-2)	Accessible surfaces including the tops of FSC (when available) and anti-rotation pins: 06-19, 06-27, 06-35, 10-11, 10-43, 14-07 14-11, 14-15, 14-19, 14-35, 18-07, 18-31, 18-43, 22-03, 22-07, 22-11, 22-23, 22-31, 22-43, 26-03, 26-11, 26-47, 30-23, 30-31, 34-07, 34-15, 34-39, 34-47, 38-07, 38-11, 38-15, 42-11, 42-15	VT-3
Steam Dryer	Dryer OD Previously Identified Ind. V3 @ 90°, V10 @ 90°, V10 @ 270°, Jacking Bolt @ 325°, Vertical Guide @ 215°	VT-1
	Dryer ID Previously Identified Ind. DC-F- Cover Plate @ 0°	VT-1
Top Head	Steam Dryer Hold Down Brackets @ 35°, 145°, 215°, and 325°	VT-3





1.2 Examination Results

The examinations re-affirmed previously reported indications. Thorough evaluations concluded there were no discernable changes in the indications from the original discovery. The previously reported indications included:

- Crack indication in the 90° core spray t-box to header weld in the 80° side header.
- Crack indication in 325° Jacking Bolt tack weld
- Crack indication in Dryer Weld V3 90
- Crack indication in Dryer Weld V10 90
- Crack indication in Dryer Weld V10 270
- Crack indication in 215° Vertical Guide
- Crack indication in DC-F- Cover Plate @ 0°

Current RFO-24 IVVI examinations identified the following new indications and/or conditions:

- During the Guide Tube examinations two new indications were found on two separate Guide Tubes, cell locations 18 - 07 and 26 -11. These two new indications consisted of one minor indentation each in the Guide Tubes located in the area immediately above the CRGT-3 weld at the bottom of the Guide Tubes.
- During the re-examination of the previously known indication located on the Shroud Support Leg in the H -10 weld at 210 degrees a new indication was discovered on the 200 degree side of this support at H -10. This prompted the requirement of an additional sampling of another Support Leg which also showed an additional new indication. Subsequently this resulted in all 14 Shroud Support legs being examined, welds H-10, H -11 and H -12. These further examinations reveled all but two Support Legs, at 90 degrees and 350 degrees, showing new crack indications. All cracking was confined to the H -10 welds, Shroud Support to Shroud Support Cylinder.





1.3 Equipment

The equipment used during the Monticello RFO-24 In-Vessel Visual Examinations is as follows:

- Camera Systems
 - ➢ IST-DOTCAM
 - ♦ IST-DOTCAM with 6 LED lights, total wattage output of .43 watts
 - ♦ Single 35 watt UL210
 - > RJ Electronics RJ-8110 Color Camera System
 - ♦ RJ-8110 Camera with Pan, Tilt, & Zoom
 - ♦ RJ Electronics CCU
 - ◆ RJ Electronics Twin 35 Watt Light Unit
 - > IST-Rees ETV-1250 Black and White Camera System
 - ♦ ETV-1250 Camera
 - ♦ IST-Reese Cable
 - ♦ IST-Reese CCU
 - Twin 50W Lighting System
 - REES R93 Black and White Camera System
 - ♦ R93 Camera
 - ♦ R93 Cable
 - ♦ R93 CCU
 - Single 35 watt or Dual 20 watt lights
 - > AREVA NP ROV ROCKY ID (Camera Delivery System)
 - ♦ VIT-4.5 Color Camera with Pan, Tilt, & Zoom
 - ♦ Twin 35 Watt Lights
 - ♦ VIT CCU
 - ♦ 100' Cable





ACCURATE Inspection Station

- ▶ Intel Xeon E5405 2.00GHz CPU
 - ♦ 1.96 GB of RAM
 - ♦ 465 GB HD (system drive)
 - ◆ 500 GB HD (IVVI data drive)
 - ♦ Ethernet NIC
 - Matrox Vio Video Capture/Display
 - ROBOT MV99e Video Multiplexer (optional)
 - Microsoft Windows XP (Service Pack 2)
 - Microsoft Excel 2003
 - ♦ MySQL (Version 5.0)
 - Matrox Imaging Library MIL 8.08 Lite
 - ♦ Microsoft Media Player
 - Areva IVVI Software
 - ACD Systems Canvas
 - ♦ (2) 20" LCD Flat-Panel Color Monitors
 - Communication Headsets

ACCURATE Level III and Server Stations

- ➢ Intel Xeon E5405 2.00GHz CPU
 - ♦ 1.96 GB of RAM
 - ♦ 465 GB HD (system drive)
 - ♦ 500 GB HD (IVVI data drive)
 - ♦ Ethernet NIC
 - Matrox Vio Video Capture/Display
 - ♦ ROBOT MV99e Video Multiplexer (optional)
 - Microsoft Windows XP (Service Pack 2)
 - Microsoft Excel 2003
 - ♦ MySQL (Version 5.0)
 - Matrox Imaging Library MIL 8.08 Lite
 - Microsoft Media Player
 - ♦ Areva IVVI Software
 - ♦ ACD Systems Canvas
 - ♦ 3 20" LCD Flat-Panel Color Monitors
 - Communication Headsets
 - ♦ HP Color Laser Jet 2600n Printer

Cleaning Equipment

- 10,000 PSI Hydro Laser Supplied by XcelEnergy with AREVA NP Supplied Foot Pedal, Wands, and Weights
- 12 volt Rotary Power Brushing System

Underwater Lights and Power Supply

- PS-160 Power Supply
- Birns 500w Light w/cable
- Variac variable power supply





• Sensitivity, Resolution and Contrast Standards

1

- > S/N 7001346 (DB# 14098)
- Support Equipment ٠
 - AREVA 1" dia. Double Locking Handling Poles (various lengths)
 Various Cables





Monticello Nuclear Generating Station 2009 RFO-24 Refuel Outage In-Vessel Visual Examination Indication History

The following table provides a history of the indications that have been identified prior to and during RFO-24 in the reactor vessel internal components at the Monticello Nuclear Generating Station.

Component	Indication	Associated Engineering Evaluations
	Steam Impingement Wear in Dryer Head in Areas of all Four Main Steam Nozzles	CR20000209
	Crack Indication in 325 ⁰ Jacking Bolt Tack Weld - Unrepaired	CR98000794
	Crack Indication at the top of weld V3 90	CAP 037603
Steam Dryer	Crack Indication at the top of weld V10 90	CAP 037603
	Crack Indication on Dryer Support Bracket Guide weld at 215	CAP 037603
	Crack Indication at the top of weld V10 270	CAP 037603
	Crack Indications adjacent to Drain Channel 'F' Cover Plate Weld on Dryer ID	Ref. INR-R23-03
	Crack Indication in Jet Pump #10 vessel Side Tack Weld - Unrepaired	CR20000209
	Crack Indication in Jet Pump #14 Vessel Side Tack Weld - Repaired	SRI 94-019
	Crack indication in Jet Pump #15 Vessel Side Tack Weld - Repaired	SRI 94-019
	Crack indication in Jet Pump #18 Vessel Side Tack Weld - Repaired	SRI 94-019
	Crack indication in Jet Pump #14 Beam Bolt retainer Tack Weld - Unrepaired	CR98000794
Jet Pumps	Crack indication in Jet Pump #19 Beam Bolt retainer Tack Weld - Unrepaired	CR98000794
· · · ·	Crack Indication in Jet Pump #8 Secondary Riser Brace Lower Leaf to Block Weld in Leaf Material - Unrepaired	SRI-89-028
	Crack Indication in Jet Pump #19 Secondary Riser Brace Lower Leaf to Block Weld in Block Material - Unrepaired	CR20000209
	Small 0.25 Inch Crack Indication Extending from Arc Strike in Jet Pump #20 Diffuser Weld DF-2 - Unrepaired	Evaluated by NSP as Oxide Layer Break (Non-Relevant)





Monticello Nuclear Generating Station 2009 RFO-24 Refuel Outage In-Vessel Visual Examination Indication History

Component	Indication	Associated Engineering Evaluations
	Crack indication in 210 ⁰ Shroud Support Leg to Shroud Support Cylinder Weld - Unrepaired	CAP 01177677
	Crack indication in 210 ⁰ Shroud Support Leg to Shroud Support Cylinder Weld (New Ind.)	CAP 01177677
	Crack indication in 240 [°] Shroud Support Leg to Shroud Support Cylinder Weld (New Ind.)	CAP 01177677
	Crack indication in 150 [°] Shroud Support Leg to Shroud Support Cylinder Weld (New Ind.)	CAP 01177677
	Crack indication in 010 ⁰ Shroud Support Leg to Shroud Support Cylinder Weld (New Ind.)	CAP 01177677
	Crack indication in 030 ⁰ Shroud Support Leg to Shroud Support Cylinder Weld (New Ind.)	CAP 01177677
	Crack indication in 030 ⁰ Shroud Support Leg to Shroud Support Cylinder Weld (New Ind.)	CAP 01177677
Shroud Support Legs	Crack indication in 060 [°] Shroud Support Leg to Shroud Support Cylinder Weld (New Ind.)	CAP 01177677
	Crack indication in 120 ⁰ Shroud Support Leg to Shroud Support Cylinder Weld (New Ind.)	CAP 01177677
	Crack indication in 120 ⁰ Shroud Support Leg to Shroud Support Cylinder Weld (New Ind.)	CAP 01177677
	Crack indication in 150 ⁰ Shroud Support Leg to Shroud Support Cylinder Weld (New Ind.)	CAP 01177677
	Crack indication in 170 [°] Shroud Support Leg to Shroud Support Cylinder Weld (New Ind.)	CAP 01177677
	Crack indication in 190 [°] Shroud Support Leg to Shroud Support Cylinder Weld (New Ind.)	CAP 01177677
	Crack indication in 270 [°] Shroud Support Leg to Shroud Support Cylinder Weld (New Ind.)	CAP 01177677
	Crack indication in 300 ⁰ Shroud Support Leg to Shroud Support Cylinder Weld (New Ind.)	CAP 01177677
Core Spray	Crack Indication in 90 ⁰ Tee Box Junction to Header - Repaired	SRI-93-006
N11A and N11B Nozzles	Removal of Typical Oxides from Nozzle Areas Due to Steam Flashing or Other Phenomena	CR20000209
Surveillance Sample Holder	Bent Alignment Bracket on the 30 degree Surveillance Sample Holder (Removed during RFO-23)	CAP 038142





Monticello Nuclear Generating Station 2009 RFO-24 Refuel Outage In-Vessel Visual Examination Indication History

Component	Indication	Associated Engineering Evaluations
Control Rod Guide	Core Location 26 -11, minor deformation in the area of CRGT-3 (New Ind.)	CAP 01176818
Tubes	Core Location 18 - 07 minor deformation in the area of CRGT-3 (New Ind)	CAP 01176818

APPENDIX C

Page 1 of 1

System Pressure Test Examinations credited to Period 2

Test Number	Test Title	Class	Date	Results
0255-02-IIC-1	Standby Liquid Control System Leakage Test	2	4/18/2009	Satisfactory
0255-02-IIC-2	Standby Liquid Control Suction Piping System Leakage Test	2	4/26/2009	Satisfactory
0255-03-IIC-1	Core Spray System Leakage Test – Loop A	2	12/22/2008	Satisfactory
0255-03-IIC-2	Core Spray System Leakage Test – Loop B	2	11/19/2008	Satisfactory
0255-04-IIC-1	RHR System Leakage Test – Loop A	2	4/6/2009	Satisfactory
0255-04-IIC-2	RHR System Leakage Test – Loop B (supplemented by Work Order-344201)	2	4/15/2009 5/3/2009	Satisfactory
0255-04-IIC-3	RHR Shutdown Cooling Suction Piping System Leakage Test	2	4/6/2009	Satisfactory
0255-05-IIC-1	RHR Service Water System Leakage Test - Loop A	3	4/5/2009 5/3/2009	Satisfactory
0255-05-IIC-2	RHR Service Water System Leakage Test - Loop B	3	3/22/2009	Satisfactory
0255-11-IIC-1	Emergency Service Water System Leakage Test Loop A	3	3/31/2009	Satisfactory
0255-11-IIC-2	Emergency Service Water System Leakage Test Loop B	3	4/13/2009	Satisfactory
0255-11-IIC-3-1	EDG-ESW System Leakage Test Loop A Accessible Pressure Boundary Components	3	10/ <u>1</u> 5/2008	Satisfactory
0255-11-IIC-3-2	EDG ESW System Leakage Test - Loop A Buried Piping (subtask to test/procedure 1404-01)	3	7/14/2008	Satisfactory
0255-11-IIC-4-1	EDG-ESW System Leakage Test Loop B Accessible Pressure Boundary Components	3	10/29/2008	Satisfactory
0255-11-IIC-4-2	EDG ESW System Leakage Test - Loop B Buried Piping (subtask to test 1404-02 and procedure 1404-01)	3	7/28/2008	Satisfactory
0255-12-IIC-1	Feedwater System Leakage Test - Loop A	2	3/22/2009	Satisfactory
0255-12-IIC-2	Feedwater System Leakage Test - Loop B	2	3/22/2009	Satisfactory
0255-16-IIC-1	Drywell Floor Drain Sump System Leakage Test	2	4/24/2009	Satisfactory
0255-16-IIC-2	Drywell Equipment Drain Sump System Leakage Test	2	4/28/2009	Satisfactory
0255-20-IIC-2	Reactor Coolant Pressure Boundary Leakage Test (includes Class 1 system Recirc Seal Injection per test 0255-09-IIB-1, and Class 2 systems Control Rod Drive Hydraulic, Recirc Seal, and Reactor Water Cleanup)	1 and 2	4/27/2009	Satisfactory

APPENDIX D

Page 1 of 1

Snubber Functional Testing

The following snubbers were tested during Cycle 24 and the 2009 RFO to meet Technical Specifications, ASME Section XI requirements and verification testing as a result of replacement. There are 147 safety related snubbers at Monticello. The snubbers are placed into two groups: One main group of 146 (Bergen Paterson) and a second group of 1 (Lisega-Snubber SS-707). Fifteen snubbers from the main group and the single snubber from the second group resulted in 16 snubbers being tested per plant procedure 0251 during the 2009 RFO.

All snubbers were tested under one work order, 366382. Below is listed each individual work order that controlled removal, replacement, and re-installation if required.

No.	Snubber Location	Size	Snubber Work Order No.	Snubber Serial No.	Test Results
	Onubber Location	0120		Serial Ito.	Results
1	PS2-H2	30	326521	516	Passed
2	SS-312-1	30	326527	522	Passed
3	SS-6AR	20	326531	464	Passed
4	SS-306	30	326533	517	Passed
5	SS-191	20	326577	112	Passed
6	SS-36A	10	326584	509	Passed
7	SS-560	10	326592	486	Passed
8	SS-707(Lisega)	3	343935	701	Passed
9	RV-26A-H2	10	326590	505	Passed
10	RV-25A-NS1	20	326588	172	Passed
11	RV-26-NS1B	20	326581	306	Passed
12	RV-27A-NS3A	20	326580	480	Passed
13	SS-367	130	326526	180	Passed
14	SS-365	130	326525	187	Passed
15	CRD-H247	3	326524	458	Passed
16	RV-24A-NS1	20	326579	150	Passed

APPENDIX E

Engineering Evaluations per Subsection IWB-3144 and 3142.4 (1995 Edition with 1996 Addenda)

- 1. CAP 01177677 Indications discovered in shroud support legs
 - Condition Evaluation (01177677-02), 5 pages
 - Final Documentation of SIA Evaluation (sans vendor proprietary information) (01177677-02), 11 pages

(16 pages to follow)

Cycle 24 Summary Report 2009 Refueling Outage

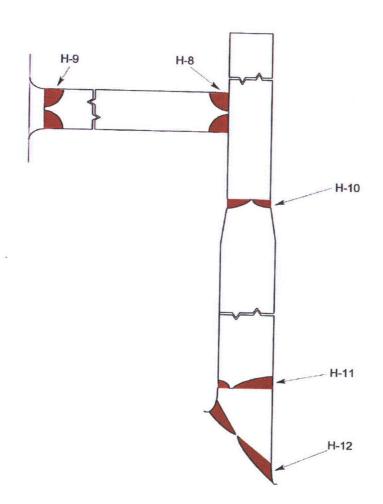
<u>CAP Number: 01177677</u> <u>Condition Evaluation Number: CE-01177677</u>

Description of problem:

During the 2009 RFO IVVI window, several shroud support legs were noted to have indications. The initial scope of inspection was the shroud leg at 210 degrees. The inspection of the 210 degree leg was a result of a requirement of the ASME section XI code which requires examination of unremoved indications for three successive periods. Upon inspection of the 210 degree leg, additional indications were identified which requires scope expansion in accordance with ASME Section XI. The 240 degree leg was selected for scope expansion and it too had indications. The ASME section XI code therefore requires scope expansion to 100% of the population of that weld location.

Evaluation Details:

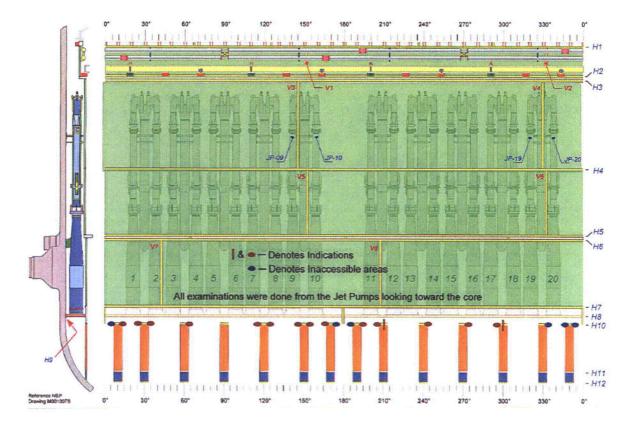
Inspection of 100% of the accessible weld legs were performed by inserting a camera through the jet pumps. The inspection locations were H10, H11 and H12.



These are the shroud support ring to leg weld, the lower leg to transition piece, and transition piece to vessel weld, respectively. No indications were noted on the H11 and H12 welds using the same technique as those identifying indications at H10. Below is a table of inspection results for the H10 weld:

Location (Degrees)	Inspection Notes
10	0 degree side inaccessible, 20 degree side has indication
30	Both sides have indications
60	50 degree side has no indications, 70 degree side has indication
90	No indications on either side
120	Both sides have indications
150	Both sides have indications
170	160 degree side has indication, 180 degree side in accessible
190	180 degree side inaccessible, 200 degree side has indication
210	200 degree side has indication, 220 degree side has no indications
240	230 degree side has no indications, 250 degree side has indication
270	260 degree side has no indications, 280 degree side has indication
300	290 degree side has indication, there is a vertical indication in the center of the weld, 310 degree side as no indications
330	320 degree side has no indications, 340 degree side inaccessible
350	Both sides inaccessible

Cycle 24 Summary Report 2009 Refueling Outage



Below is an picture of a "typical" indication identified in the 2009 RFO.

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The 2009 inspection report has indication notifications for all locations.

As can been seen in the inspection documentation, the indications are all in the fillet weld applied after the double bevel weld is completed across the width of the weld. The fillet weld is used to reduce the stress riser created by the corner at the H10 weld. It is believed that the flaws are induced in the fillet weld due to the heavily restrained nature of the weld. The double bevel weld provides great structural rigidity to the H10 from a lateral perspective. Application of the fillet weld on such a thick weldment will result in high residual stresses. These high residual stresses are believed to be the cause of the cracking.

Because the weld face (across the double bevel weld) is free of indications, it is reasonable to conclude that the back surface (which is inaccessible without significant core disassembly including the removal of fuel, fuel support piece, control rods, and control rod guide tubes) is free of defects.

In 2000, all accessible regions of the shroud legs were inspected as a result of the discovery of the vertical flaw on the 210° leg. Many of the same types of indications were noted during the 2000 inspections as were noted in 2009 but were dispositioned as surface conditions left from construction (i.e. weld overlap, grinding ridges, et cetera). From the review of the 2000 data (which is archived on Super VHS tapes) indicates no change in flaw geometry. This may be the result of the excellent protection the lower plenum via hydrogen water chemistry.

Even though these flaws are postulated to be either construction surface conditions or cracking due to high residual stresses which may have resolved themselves during the first operating cycle, it is not uncommon for these types of indications to be initiation points for Intergranular Stress Corrosion Cracking (IGSCC). Therefore, flaw growth needs to be considered in future evaluations.

Noting that the evaluation was performed in support of an ASME inspection, ASME Section XI was reviewed to determine if any guidance was present associated with flaw evaluation for a category B-N-2 exam. By following the guidance of the ASME code, the following is presented in paragraph IWB-3142.4:

"A component containing relevant conditions is acceptable for continued service if an analytical evaluation demonstrates the component's acceptability. The evaluation analysis and evaluation acceptance criteria shall be specified by the owner. A component accepted for continued service based upon analytical evaluation shall be subsequently examined in accordance with IWB-2420 (b) and (c)."

With this all considered, the results of the examination were sent to Structural Integrity Associates. Following flaw evaluation guidance in BWRVIP-38 and using standard flaw evaluation methods, the current condition of the shroud support legs is considered acceptable for several cycles. The letter attached in Sharepoint is a summary document from the approved vendor calculation. Because the calculation was requested to be performed under SIA's appendix B program, the results of the calculation are considered appropriate for clearing the mode restraint and closing the CE. The results of the calculation indicates that the flaws can reduce the cross sectional area of all legs by 70% and code allowable margins will still be maintained. The fillet portion of the welds where the cracking has been predominantly located, was not consider part of the structural portion of the weld. Therefore, from a structural margin perspective, the weld are fully intact with the exception of the leg at 210 degrees which was evaluation as not being able to carry any load (consistent with the assumptions made in the 2000 evaluation).

Actions:

1. Formally accept the final report from Structural Integrity Associates filling out appropriate information associated with flaw evaluation and "use as is" documentation.

2. Revise the ISI plan and/or schedule to indicate follow up inspection IAW IWB-2420 (b) and (c).

3. Set up an appropriate component inspection schedule to maintain the flaw growth assumptions of the SIA evaluation.

Preparer's Name: David Potter

Date: 4/17/2009

This cover sheet constitutes an alternative cover sheet for a vendor prepared document that will be incorporated into Xcel's EC process at MNGP. Per FP-E-MOD-11 section 5.4.5.2 an alternative coversheet to can be used to document the reviews within Xcel. This coversheet is for EC14116 titled: "Evaluation of the Monticello Shroud Support Leg Indications: 2009 Inspection"

Prepared By:	By Vendor (SIA)	
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acceptance):	hurld totter	12309
Approved By:	Michale Kelly	11/11/1/1/ 4.28.09
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CONTRACT NO.: 00001005, Rev. 00008						
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1.0 **OBJECTIVE**

During the Spring 2009 inspections of the reactor internals at Monticello, Xcel Energy visually discovered indications in 11 of the 14 shroud support legs. Indications were observed in one or both ends of the H10 welds at the top end of the support legs at the following azimuths: 20°, 30°, 60°, 120°, 150°, 170°, 190°, 210°, 240°, 270°, and 300°. Visual photographs obtained from the examination performed by Xcel Energy are documented in Reference 1.

A crack-like indication at the 240° support leg is shown in Figure 1 as an example. Per Figure 1, the indication runs across the Alloy 182 weld. It is noteworthy that the flaw runs in a fillet weld applied to reduce stress between the H10 weld and support cylinder.

The objective of this calculation is to evaluate the indications in the shroud support legs found during the Spring 2009 inspection. A similar analysis was performed in 2000 in support of inspections at the time. At that time, only one leg was found to have an indication. The approach used then assumed one complete leg was cracked and that the support legs took the entire load without taking credit for the load sharing with the H8 and H9 welds. The results are documented in Reference 8. For the current calculation, cases were evaluated that conservatively bound the actual inspection results. One case was evaluated that assumed 50% of each leg width (in circumferential direction) was flawed through-wall and one leg was cracked 100% (consistent with the Reference 8 evaluation). In the second case, 72.5% of the leg width was assumed cracked through-wall along with one leg cracked 100%. These are very conservative assumptions regarding the flaw length given the observed indications that appear to be limited to a fillet weld applied to reduce the stress concentration between the H10 weld and the bottom of the shroud support cylinder.

2.0 **DESIGN INPUTS**

2.1 Shroud Support Leg Design

The shroud support design implemented at Monticello is the Chicago Bridge & Iron Nuclear (CBIN) flat plate design with support legs that connect to the reactor pressure vessel (RPV) bottom head. A stub is welded to an attachment pad on the inside of the RPV lower head, and the leg is welded to the top of the stub and to the bottom face of the shroud support cylinder (refer to Figure 2.9.2.4 of Reference [3]). There are fourteen support legs, each with a thickness of 1.75 inches [4], located 20° or 30° apart (see Table 1). The legs are fabricated from Alloy 600 material (S_m = 23.3 ksi) with multiple Alloy 182 welds joining the various leg sections to each other, and joining the legs to the low alloy steel RPV and the Alloy 600 shroud support cylinder. The weld of interest for this analysis, as designated in BWRV1P-15 [3], is the weld attaching the leg to the shroud support cylinder (weld H10).

All of the relevant geometry, load, and material information for the Monticello support legs are summarized in Table 1 for upset and faulted conditions [4]. The loads shown in Table 1 also apply to power rerate conditions, as confirmed by the Reference 5 report. Also included in this

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table are primary stresses calculated for use in the structural evaluation of the support legs. The methodology used to compute these stresses is described in detail below. It should be noted that these loads do not consider the Extend Power Uprate planned to occur during the next operating cycle.

3.0 METHODOLOGY

3.1 Shroud Support Leg Safety Factor Evaluation

Access to the shroud support legs is severely limited because of their location in the RPV bottom head region beneath the shroud support structure. For this reason, the structural analyses performed as a basis for the "BWR Shroud Support Inspection and Flaw Evaluation Guidelines (BWRVIP-38)" [6] conservatively assumed the presence of 50% through-wall cracking in all shroud support legs. This philosophy eliminates the need for support leg inspection, given that shroud support welds H8 and H9 are structurally adequate.

However, Xcel Energy has performed a visual inspection of the legs via access through the jet pump assemblies. Provision for inspecting the support legs in lieu of a detailed inspection of welds H8 and H9 was also addressed in BWRVIP-38. Flaw tolerance evaluations are provided in Section A.2.7 of BWRVIP-38 that can be used to structurally evaluate the support legs. The methodology conservatively assumes that <u>all</u> of the applied loading is structurally taken by the legs. Therefore, welds H8 and H9 are not structurally required, other than to maintain the support structure configuration (i.e., jet pump support, shroud repair, etc.). As a result, analyses similar to those shown in Section A.2.7 of BWRVIP-38 were performed for Monticello to confirm the structural adequacy of the support legs, for upset and faulted conditions, conservatively including assumptions regarding the support leg flaws. Structural acceptability was demonstrated by maintaining minimum ASME Code, Section XI safety factors, as per the recommended approach documented in Section A.2.7 of BWRVIP-38.

The shroud support legs are located sufficiently below the core such that they do not receive significant amounts of radiation. Therefore, linear elastic fracture mechanics (LEFM) techniques are not necessary, and limit load techniques are valid due to material ductility. Since the shroud support legs are essentially "a cylindrical shell with holes," a limit load solution applicable to cylinders may be used. Therefore, the ANSC computer program [7] was selected for use. The ANSC program was used because of its ability to analyze cracks in cylindrical structures without taking benefit of the cracks taking compression. This was important for this evaluation since the spaces between legs, which are effectively treated as flaws in this analysis, have no capability to take compression.

Consistent with limit load techniques, two stresses were computed for use in the analysis: (1) the primary membrane stress, P_m , and (2) the primary bending stress, P_b . Consistent with BWRVIP-38 methodology, calculation of these stresses was based on the stresses for the shroud H7 weld, as those stresses were readily available from past shroud evaluations. The determination of each of these stresses is detailed below:

P_m:

 $P_{m-legs} = P_{m-shroud} (t/t_{legs})$

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where:	P _{m-legs} P _{m-shroud} t t _{legs}	H H H	primary membrane stress in the legs (psi). primary membrane stress in the shroud at weld H7 (psi). shroud thickness at weld H7 (inches). support legs minimum thickness (inches).
Pb	:		$P_{b-legs} = (P_{b-shroud} + M_s/Z) (t/t_{legs})$
where:	P _{b-legs}	=	primary bending stress in the legs (psi).
	P _{b-shroud}	=	primary bending stress in the shroud at weld H7 (psi).
	M _s	=	additional moment for legs due to the shear load applied at weld
	-		H7 (inch-lbs).
		=	F _s H
	Fs	=	shear load at weld H7 (lbs).
	Н	=	"lever arm" between shroud weld H7 and limiting leg cross section
· .			(inches).
	Ζ	=	section modulus for unflawed shroud cross section (inches3).
		=	$\pi R^2 t$
	R	=	shroud mean radius (inches).
	t	=	shroud thickness at weld H7 (inches).
	t _{legs}	=	support legs minimum thickness (inches).

The calculated values for each of the above stresses are included in Table 1. It should be noted that the shear term in the calculation of P_b was conservatively taken to the bottom of the shroud support legs (weld H11) versus weld H10. This is consistent with the BWRVIP-38 methodology.

Also included in Table 1 are the computed azimuths for each support leg. This information, combined with the appropriate stress information, was input to ANSC to determine whether the assumed leg configuration maintains minimum required ASME Code, Section XI safety factors (2.77 for upset conditions, 1.39 for faulted conditions [6]). Evaluations were performed for both the upset and faulted conditions, and the resulting ANSC output is included in Appendix A. It is noted from the output that through-wall flaws were placed in the spaces between the legs and the leg with the indication to represent the fact that there is actually no material present in these regions.

From the ANSC results, the safety factor was calculated using the following relationship:

Safety Factor,
$$SF = \frac{P_b + P_m}{P_b + P_m}$$

where: $P_b' =$ minimum failure bending stress from ANSC output (psi).

The resulting safety factors are shown in Table 2 and 3. In Table 2, it was evaluated that assumed 50% of each leg width (in circumferential direction) was flawed through-wall and one leg was cracked 100% (consistent with the Reference 8 evaluation). In Table 3, 72.5% of the leg width

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was assumed cracked through-wall along with one leg cracked 100%. These are very conservative assumptions regarding the flaw length given the observed indications that appear to be limited to a fillet weld applied to reduce the stress concentration between the H10 weld and the bottom of the shroud support cylinder.

3.2 Future Crack Growth Predictions

An evaluation of current operating conditions at Monticello was performed relative to predicted growth of the identified indication, with the results documented in Appendix B of Reference 8. The current water chemistry conditions in the Monticello lower plenum were considered, and it is concluded that growth of the identified indication should be bounded by a crack growth rate of 5×10^{-6} inches/hour, or 0.086" for one twenty-four month operating cycle. Use the leg width of 7" from Table 1, and conservatively assume that crack grows from both ends of a leg, the number of years cracks can grow before they reach 72.5% of the total width is given as:

72.5% 7" / (5 10 $^{-6}$ inches/hour 2) = 57.9 years

4.0 CONCLUSIONS

Based on the safety factors shown in Table 2, it is seen that there is margin assuming 50% of the leg width was cracked along with one leg cracked 100%. In fact, as shown in Table 3, the safety factor limited was reached when 72.5% of the leg width was assumed cracked through-wall along with one leg cracked 100%. These results are considered to be extremely conservative because no structural support from welds H8 and H9 was considered. Therefore, if some structural support from welds H8 and H9 is considered (as a result of inspection of these welds), it is expected that significantly larger margins would be obtained.

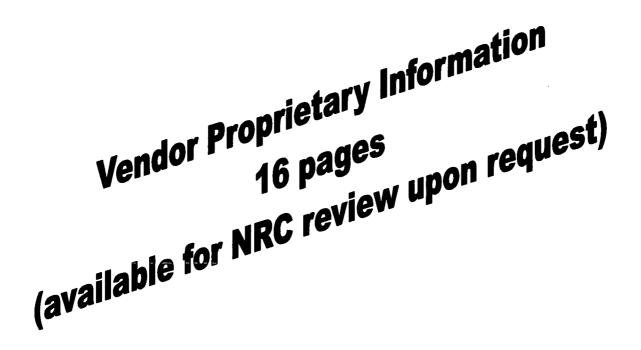
Based on the results of this conservative evaluation, up to 72.5% of each support leg H10 weld may be flawed and still meet the required safety factors of BWRVIP-38. The current indications are relatively small and essentially not propagating. Even if crack growth is postulated (@ $5x10^{-6}$ in/hr) per Reference 8, the required safety factors would be met for several operating cycles.

5.0 **REFERENCES**

- 1. E-mail from David J. Potter (Xcel Energy) to Marcos Herrera (SI), "Official transmittal of Indications," Received on 4/13/09, SI File No. 0900485.201.
- Chicago Bridge and Iron Company Drawing No. 34, Revision 8, "Shroud Support For 17'-2" ID x 63'-2" Ins. Heads Nuclear Reactor for General Electric Co. For Northern States Power Co., Monticello, Minnesota," Contract No. 9-5624, SI File No. NSP-28Q-203.

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- 7. ANSC, "Arbitrary Net Section Collapse for Thin Cylinder," Version 2.0, Structural Integrity Associates, SI File No. QA-1900.
- 8. Structural Integrity Associates Report SIR-00-008, "Evaluation of the Monticello Shroud Support Leg Indication," January 21, 2000, SI File No. NSP-40Q-401.



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External Design Document Suitability Review Checklist

Exte	rnal	Design Do	cument Being Reviewe	d:EC14116			
Title	: E v	valuation o	of the Monticello Shrou	d Support Leg Indicati	ons: 2009	Inspection	
Num	ber:	0900485.	301	Rev:	0 D	ate: 4/24/2 9	200
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an Ex Agree verifie	cternal ement cation.	Design Organ (DIA) and is a Independent	pility review is to ensure that a nization complies with the cor appropriate for its intended us t verification of the design doc ent, if required.	iditions of the purchase order e. The suitability review does	⁻ and/or Desig s not serve as	n Interface an independe	nt
			the criteria below as a guide the reviewer is not required to		completeness	s and usefulnes	ss of
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2.	•		described and reasonable).		\boxtimes	
3.	Appli	icable codes	s, standards and regulation	s are identified and met.		\boxtimes	
4.	Appli	icable consti	ruction and operating expe	rience is considered.			
5.	Appli	icable struct	ure(s), system(s), and com	ponent(s) are listed.		\boxtimes	
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