

July 10, 2003

U S Nuclear Regulatory Commission  
ATTN: Document Control Desk  
Washington, DC 20555-0001

PALISADES NUCLEAR PLANT  
DOCKET 50-255  
LICENSE No. DPR-20  
ASME SECTION XI INSERVICE INSPECTION 90-DAY REPORT

The American Society of Mechanical Engineers (ASME) Boiler and Pressure Vessel Code, Section XI, Article IWA-6000 requires that inservice inspection reports be submitted within 90 days following the completion of the most recent refueling outage. The most recent refueling outage for Palisades was completed on April 20, 2003. Nuclear Management Company, LLC (NMC) is providing the report for the Inservice Testing Program of Palisades Plant Technical Specification 5.5.7.

This letter contains no new commitments and no revisions to existing commitments.



Douglas E. Cooper  
Site Vice-President, Palisades Plant

CC Regional Administrator, USNRC, Region III  
Project Manager, Palisades Plant, USNRC, NRR  
NRC Resident Inspector – Palisades Plant

Enclosure

4047

**ENCLOSURE 1**

**NUCLEAR MANAGEMENT COMPANY  
PALISADES NUCLEAR PLANT  
DOCKET 50-255**

**July 10, 2003**

**INSERVICE INSPECTION (ISI) OF CLASS 1, 2 AND 3 SYSTEMS**

**ISI Report 3-6**

**73 Pages Follow**

**PALISADES NUCLEAR PLANT  
ENGINEERING PROGRAMS DEPARTMENT**

**Review and Approval Summary**

**TITLE: ISI REPORT 3-6**

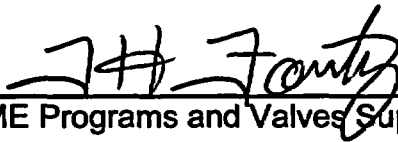


ISI Engineer

/ MWacker

June 26, 2003

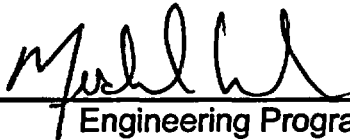
Date



ASME Programs and Valves Supervisor / THFouty

Date

6/26/2003



Engineering Programs Manager / MHC Carlson

Date

6/26/2003

**PALISADES NUCLEAR PLANT**  
**2003 INSERVICE INSPECTION REPORT**

Submitted in accordance with the American Society of Mechanical Engineers (ASME) Boiler and Pressure Vessel (B&PV) Code, Section XI, Article IWA-6000, 1989 Edition.

1. Date: June 26, 2003
2. Plant Owner: Consumers Energy  
212 West Michigan Avenue  
Jackson, Michigan 49201
3. Plant: Palisades Nuclear Plant  
27780 Blue Star Memorial Highway  
Covert, Michigan 49043
4. Unit No: 1
5. Commercial Service Date: December 31, 1971
6. Major Components Inspected:

<u>Component</u>	<u>Manufacturer</u>	<u>Mfg Serial No.</u>	<u>State No.</u>	<u>National Board No.</u>
Steam Generator	Combustion Eng	CE-70277-1	M358176M	NB22864
RPV Head	Combustion Eng	CE-66110	M96725M	NB20827

7. Completion Date for Inspections: April 17, 2003
8. Code Inspector: Kenneth L Blake
9. Authorized Inspection Agency: Hartford Steam Boiler
10. Abstract: See ISI Report

## **2003 INSERVICE INSPECTION 3-6 PALISADES NUCLEAR PLANT**

### **Summary**

Inservice Inspection 3-6 was conducted during the period of April 20, 2001, through April 17, 2003, in accordance with Section 5.5.7 of the Palisades Nuclear Plant Technical Specifications. The American Society of Mechanical Engineers (ASME) Boiler and Pressure Vessel (B&PV) Code, Section XI, 1989 Edition controlled the inspections and provided the acceptance criteria for these examinations. Included in this report are two separate sections. The first section details the examinations that were performed and provides the final inspection results. The second section provides a listing of the repairs and replacements that have been performed over the last operating cycle and during the refueling outage. The attached NIS-2 forms document these repairs and replacements.

### **Inspection Activities**

This was the third examination of the second period of the third inspection interval. Areas examined during this inspection included steam generator E-50A and regenerative heat exchanger welds. Various components of the primary coolant system, engineered safeguards system, main steam system, main feedwater system and support systems as identified in the attached Non-Destructive Examination (NDE) Results Summary Report, were also examined.

The examinations were performed using ultrasonic (UT), liquid penetrant (PT), radiographic (RT) and visual techniques (VT-2). The examinations were conducted by Consumers Energy, Nondestructive Testing (NDT) Services Department examination personnel using site approved procedures. Examinations were performed by personnel qualified in the NDT process used, in accordance with the requirements of ASME Section XI, IWA-2300.

**FORM NIS-1 OWNER'S REPORT FOR INSERVICE INSPECTIONS**  
As required by the Provisions of the ASME Code Rules

1. Owner Consumers Energy, 212 West Michigan Ave, Jackson MI 49201  
(Name and Address of Owner)
2. Plant Palisades Nuclear Plant, 27780 Blue Star Memorial Hwy, Covert, MI 49043  
(Name and Address of Plant)
3. Plant Unit 1 4. Owner Certificate of Authorization (if required) n/a
5. Commercial Service Date 12/31/71 6. National Board Number for Unit NB20827
7. Components Inspected

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
Steam Generator	Combustion Engineering	CE-70277-1	M358176M	NB22864
RPV Head	Combustion Engineering	CE-66110	M96725M	NB20827
	SEE "NDE RESULTS SUMMARY"			
	REPORT (ATTACHED)			

Note: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ 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.

FORM NIS-1 (Back)

8. Examination Dates 4/20/2001 to 4/17/2003 9. Inspection Interval from 5/12/1995 to 12/12/2006

10. Abstract of Examinations. Include a list of examinations and a statement concerning status of work required for current interval.

See ISI Report "NDE Results Summary"

11. Abstract of Conditions Noted

See ISI Report "NDE Results Summary"

12. Abstract of Corrective Measures Recommended and Taken

See ISI Report "NDE Results Summary"

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.

Certificate of Authorization No. (if applicable) n/a Expiration Date n/a

Date June 26 15 2003 Signed Consumers Energy By AKA / WMC  
Owner

**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 Michigan and employed by HSB-CT of Connecticut have inspected the components described in this Owner's Report during the period April 20, 2001 to April 17, 2003, 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.

AKA Commissions MI 300762  
Inspector's Signature National Board, State, Province, and Endorsements

Date June 26 15 2003

## **SECTION 1**

### **EXAMINATION DETAILS AND FINAL INSPECTION RESULTS**



Category	System	Component ID	Disposition	Exam	Comments
AUG					
	ESS				
		ESS-24-SIS-SH1-207	Acceptable	UT PT	
		ESS-24-SIS-SH2-207	Acceptable	UT PT	
	PCS				
		PCS-12-PSL-1H1-1	Acceptable	UT PT	
		PCS-12-PSL-1H1-2	Acceptable	UT PT	
		PCS-12-PSL-1H1-7	Acceptable	UT PT	
		PCS-12-PSL-1H1-8	Acceptable	UT PT	
B-L-1	PIA				
		1A-02	Acceptable	VT-1	
B-O	RVH				
		119-49-A	Acceptable	PTID PTOD	
		119-50-A	Acceptable	PTID PTOD	
B-P	PCS				
		Heat Exchangers	Acceptable	VT-2	
		Piping	Acceptable	VT-2	
		Pressurizer	Acceptable	VT-2	
		Pumps	Acceptable	VT-2	
		Reactor Vessel	Acceptable	VT-2	

Category	System	Component ID	Disposition	Exam	Comments	
C-A		Steam Generator	Acceptable	VT-2		
		Valves	Acceptable	VT-2		
	RGA	E-56A-01	Acceptable	UT		
		E-56A-02	Acceptable	UT		
	SG1	1-101-221	Acceptable	UT		
		1-1401-271	Acceptable	UT		
	C-B	SG1	1-105-201	Acceptable	UT PT	
	C-C	MSS	MSS-36-MSL-1S1-209A	Acceptable	PT	
MSS-36-MSL-2S1-210			Acceptable	PT		
C-H	ESS	Containment Sump	Acceptable	VT-2		
		ESS Pump Suction	Acceptable	VT-2		
		High Pressure Safety Injection System	Acceptable	VT-2		
	PCS	PASM and PCS Sampling System	Acceptable	VT-2		
	SDC	Shutdown Cooling System	Acceptable	VT-2		

<i>Category</i>	<i>System</i>	<i>Component ID</i>	<i>Disposition</i>	<i>Exam</i>	<i>Comments</i>
R-A	AFW	Segment AFW-010	Acceptable	VT-2	
		Segment AFW-011	Acceptable	VT-2	
		Segment AFW-012	Acceptable	VT-2	
		Segment AFW-016	Acceptable	VT-2	
		Segment AFW-018	Acceptable	VT-2	
	BLD	BLD-003 Weld 5	Acceptable	UT	
		BLD-004 Weld 3	Acceptable	UT	
		Segment BLD-003	Acceptable	VT-2	
		Segment BLD-004	Acceptable	VT-2	
		Segment BLD-005A	Acceptable	VT-2	
		Segment BLD-006A	Acceptable	VT-2	
	CBA	Segment CBA-012	Acceptable	VT-2	
	CDS	CDS-013 Weld 18	Acceptable	UT	
	CSW	CSW-005A Weld 8	Acceptable	UT UTT	
		CSW-013 Weld 2	Acceptable	UT UTT	
		CSW-021 Weld 2	Acceptable	UT UTT	
	CWS				

<i>Category</i>	<i>System</i>	<i>Component ID</i>	<i>Disposition</i>	<i>Exam</i>	<i>Comments</i>
		Segment CWS-011	Acceptable	VT-2	
		Segment CWS-012	Acceptable	VT-2	
	<i>FPS</i>	FPS-022 Weld 2	Acceptable	UT UTT	
	<i>HED</i>	HED-006 Weld 10	Acceptable	UT	
		HED-007 Weld 12	Acceptable	UT	
		HED-003 Weld 7	Acceptable	UT	
	<i>LPI</i>	Segment LPI-001A	Acceptable	VT-2	
		Segment LPI-002A	Acceptable	VT-2	
		Segment LPI-003A	Acceptable	VT-2	
		Segment LPI-004A	Acceptable	VT-2	
	<i>MSS</i>	MSS-065 Weld 8	Acceptable	UT	
		MSS-073 Weld 21	Acceptable	UT	
		MSS-073 Weld 4	Acceptable	UT	
		MSS-075 Weld 29	Acceptable	UT	
		MSS-075 Weld 7	Acceptable	UT	
		MSS-052 Weld 12	Acceptable	UT	
		Segment MSS-048	Acceptable	VT-2	
		Segment MSS-049	Acceptable	VT-2	

<i>Category</i>	<i>System</i>	<i>Component ID</i>	<i>Disposition</i>	<i>Exam</i>	<i>Comments</i>
	<i>NSW</i>				
		NSW-010B Weld 14	Acceptable	UT	
				UTT	
		Segment NSW-005	Acceptable	VT-2	
	<i>PCS</i>				
		Segment PCS-011	Acceptable	VT-2	
		Segment PCS-012	Acceptable	VT-2	
		Segment PCS-013	Acceptable	VT-2	
		Segment PCS-014	Acceptable	VT-2	
		Segment PCS-015	Acceptable	VT-2	
		Segment PCS-016	Acceptable	VT-2	
		Segment PCS-017	Acceptable	VT-2	
		Segment PCS-018	Acceptable	VT-2	
		Segment PCS-019A	Acceptable	VT-2	
		Segment PCS-019B	Acceptable	VT-2	
		Segment PCS-020A	Acceptable	VT-2	
		Segment PCS-020B	Acceptable	VT-2	
		Segment PCS-021A	Acceptable	VT-2	
		Segment PCS-021B	Acceptable	VT-2	
		Segment PCS-022A	Acceptable	VT-2	
		Segment PCS-022B	Acceptable	VT-2	
		Segment PCS-023	Acceptable	VT-2	

<i>Category</i>	<i>System</i>	<i>Component ID</i>	<i>Disposition</i>	<i>Exam</i>	<i>Comments</i>
		Segment PCS-026	Acceptable	VT-2	
		Segment PCS-027	Acceptable	VT-2	
		Segment PCS-034A	Acceptable	VT-2	
		Segment PCS-040	Acceptable	VT-2	
		Segment PCS-041	Acceptable	VT-2	
		Segment PCS-042	Acceptable	VT-2	
		Segment PCS-043	Acceptable	VT-2	
	<i>PZR</i>				
		PZR-001 Weld 3	Acceptable	UT	
		Segment PZR-002	Acceptable	VT-2	
		Segment PZR-003	Acceptable	VT-2	
		Segment PZR-004	Acceptable	VT-2	
		Segment PZR-005	Acceptable	VT-2	
		Segment PZR-006	Acceptable	VT-2	
		Segment PZR-007	Acceptable	VT-2	
		Segment PZR-008	Acceptable	VT-2	
		Segment PZR-009	Acceptable	VT-2	
		Segment PZR-010	Acceptable	VT-2	
		Segment PZR-014A	Acceptable	VT-2	
		Segment PZR-015	Acceptable	VT-2	

<i>Category</i>	<i>System</i>	<i>Component ID</i>	<i>Disposition</i>	<i>Exam</i>	<i>Comments</i>
		Segment PZR-018	Acceptable	VT-2	
		Segment PZR-019	Acceptable	VT-2	
		Segment PZR-020	Acceptable	VT-2	
	<i>SDC</i>				
		Segment SDC-002B1	Acceptable	VT-2	
		Segment SDC-005	Acceptable	VT-2	
		Segment SDC-006	Acceptable	VT-2	
		Segment SDC-009	Acceptable	VT-2	
		Segment SDC-011A2	Acceptable	VT-2	
		Segment SDC-012A2	Acceptable	VT-2	
	<i>SSS</i>				
		Segment SSS-001A	Acceptable	VT-2	
		Segment SSS-001B	Acceptable	VT-2	
		Segment SSS-002A	Acceptable	VT-2	
		Segment SSS-002B	Acceptable	VT-2	
		Segment SSS-005A	Acceptable	VT-2	
		Segment SSS-006A	Acceptable	VT-2	
		Segment SSS-007	Acceptable	VT-2	
		Segment SSS-008A	Acceptable	VT-2	
		Segment SSS-009	Acceptable	VT-2	
		SSS-001 Weld 217	Acceptable	UT	

<i>Category</i>	<i>System</i>	<i>Component ID</i>	<i>Disposition</i>	<i>Exam</i>	<i>Comments</i>
		SSS-001 Weld 217LD	Acceptable	UT	
		SSS-001 Weld 217LUI	Acceptable	UT	
		SSS-001 Weld 217LUO	Acceptable	UT	
		SSS-001 Weld 219	Acceptable	UT	
		SSS-001 Weld 219LDI	Acceptable	UT	
		SSS-001 Weld 219LDO	Acceptable	UT	
		SSS-001 Weld 219LUI	Acceptable	UT	
		SSS-001 Weld 219LUO	Acceptable	UT	
		SSS-001 Weld 221	Acceptable	UT	
		SSS-001 Weld 221LDI	Acceptable	UT	
		SSS-001 Weld 221LDO	Acceptable	UT	
		SSS-001 Weld 221LU	Acceptable	UT	
		SSS-002 Weld 221	Acceptable	UT	
		SSS-002 Weld 221LDI	Acceptable	UT	
		SSS-002 Weld 221LDO	Acceptable	UT	
		SSS-002 Weld 221LU	Acceptable	UT	
		SSS-002 Weld 223	Acceptable	UT	
		SSS-002 Weld 223LDI	Acceptable	UT	
		SSS-002 Weld 223LDO	Acceptable	UT	
		SSS-002 Weld 223LU	Acceptable	UT	



## **SECTION 2**

### **ASME SECTION XI REPAIRS AND REPLACEMENTS**

## ASME Section XI Repairs and Replacements

The following is a list of the repairs or replacements which have been performed through the restart from the 2003 refueling outage for which NIS-2 forms are attached.

	Work Order	Description of Work
1.	24011782	Replaced Manual Valve MV-SW136
2.	24012007	Replaced Manual Valve MV-SW283
3.	24012009	Replace Condensing Unit Discharge Valve MV-SW282
4.	24013509	Replaced Valve Bonnet on MV-ES3271
5.	24013549	Replaced pump 54A Containment spray pump suction and discharge flange studs and nuts
6.	24110645	Replaced spent fuel pool heat exchanger inlet valve MV-CC117
7.	24111187	Pump P-50C replace pump cover flange and bolts
8.	24111359	Replaced Snubber SNB-68
9.	24111360	Replaced Snubber SNB-70
10.	24111361	Replaced Snubber SNB-71
11.	24111362	Replaced Snubber SNB-79
12.	24111428	Replaced fasteners on flow element FE-0314
13.	24111429	Replaced fasteners on flow element FE-0307
14.	24111449	Replaced 2" Manual Gate Valve MV-FW217
15.	24111800	Replaced one stud and three nuts
16.	24210560	Replaced spent fuel pool heat exchanger cooling outlet valve MV-CC923
17.	24210690	Replace Valve
18.	24210953	Installed Hot Tap/Line Stop to isolate CCW back leakage through MV-CC923
19.	24211301	Installed an alternate safe shutdown path on the charging pump suction line per EAR-2002-0293
20.	24211478	Replaced broken U-bolt on Hanger HGR/EBC2-H2
21.	24212745	Replace HPSI Pump P-66A Miniflow Check Valve with similar valve.
22.	24212820	Plugged 25 tubes in the "A" Steam Generator
23.	24212821	Plugged 21 tubes in the "B" Steam Generator
24.	24214173	Replaced relief valve RV-2006
25.	24321145	Replaced fittings to remove sample tube
26.	24321149	Replaced 2" Manual Valve MV-FW217
27.	24321155	Replaced Snubber SNB-44
28.	24321257	Replaced Swing-bolt on Equipment Hatch MZ-51

# PALISADES NUCLEAR POWER PLANT

## FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY

ITEM **24011782**

1. Owner Consumers Energy Company

Date 10/17/2002

2. Plant Palisades Nuclear Power Plant

Sheet 1 of 2

27780 Blue Star Highway, Covert, MI 49043

WO# 24011782

3. Work Performed by Nuclear Management Company, LLC

Repair Organization P.O. No., Job No., etc

27780 Blue Star Hwy, Covert, MI

Type Code Symbol Stamp N/A

Authorization N/A

Expiration Date N/A

Code Class 3

4. Identification of System SWS

5. (a) Applicable Construction Code B31.1

1989 Edition

Addenda n/a

Code Case n/a

(b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity 1989 with no addenda

(c) Applicable Section XI Code Cases None

### 6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Valve MV-SW136	Crane	PEC# 95-026-001C	n/a	PO#G0367574	2001	Installed	No
Hex Nuts	Anchor Darling Valve Company	HT# KC6405	n/a	PO# 2002-4394	1984	Installed	No
Threaded Rod	Victor Products Corp	HT# 655N106	n/a	PO# 1003-2959	1982	Installed	No
Flange	Nova Machine Products	HT# NOY	n/a	PO#G0367794	2002	Installed	No
Flange	Nova Machine Products	HT# KVO	n/a	PO#G0367794	2002	Installed	No

7. Description of Work Replaced valve MV-SW136

8. Tests conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐

Other ☐ Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F

Other: \_\_\_\_\_

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 number of sheets is recorded at the top of this form.

**PALISADES NUCLEAR POWER PLANT**  
**FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY**

9. Remarks

ITEM **24011782**

None

**CERTIFICATE OF COMPLIANCE**

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

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed *[Signature]*, ASME Program Engineer Date June 12, 2003

**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 Michigan and employed by HSB-CT of Connecticut have inspected the components described in this Owner's Report during the period April 20, 2001 to April 17, 2003, 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 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.

*[Signature]*  
Inspector's Signature

Commissions MI 300762  
National Board, Province and Endorsements

Date June 16, 2003

# PALISADES NUCLEAR POWER PLANT

## FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY

ITEM 24012007

1. Owner Consumers Energy Company

Date 8/6/2001

2. Plant Palisades Nuclear Power Plant  
Name  
27780 Blue Star Highway, Covert, MI 49043

Sheet 1 of 2

WO# 24012007

3. Work Performed by Nuclear Management Company, LLC  
Name  
27780 Blue Star Hwy, Covert, MI

Repair Organization P.O. No., Job No., etc

Type Code Symbol Stamp N/A

Authorization N/A

Expiration Date N/A

Code Class Class 3

4. Identification of System SWS  
Address

5. (a) Applicable Construction Code B31.1

1989 Edition

Addenda n/a

Code Case n/a

(b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity 1989 With No Addenda

(c) Applicable Section XI Code Cases N-416-1

### 6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Valve	Velan Valve Corp	S/N# 012131	n/a	PO# G0341850-1	2001	Installed	No
Pipe	DuBose Nat'l Energy	Ht# L22569	n/a	PO# G0329555-4	2000	Installed	No
Elbow	DuBose Nat'l Energy	Ht# D582	n/a	PO# G0206070-1	1996	Installed	No
Flange	DuBose Nat'l Energy	Ht# 43970	n/a	PO# 10093552-1	1989	Installed	No

7. Description of Work Replace Valve MV-SW283

8. Tests conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐

Other ☐ Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F

Other: None

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 number of sheets is recorded at the top of this form.

**PALISADES NUCLEAR POWER PLANT**  
**FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY**

9. Remarks

ITEM **24012007**

None

**CERTIFICATE OF COMPLIANCE**

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

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed *Joseph E. Hurd*, ASME Program Engineer Date June 24, 2003

**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 Michigan and employed by HSB-CT of Connecticut have inspected the components described in this Owner's Report during the period April 20, 2001 to April 17, 2003, 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 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.

*R. J. Blake* Commissions MI 300762  
Inspector's Signature National Board, Province and Endorsements

Date June 26, 2003

# PALISADES NUCLEAR POWER PLANT

## FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY

ITEM **24012009**

1. Owner Consumers Energy Company

Date 8/6/2001

2. Plant Palisades Nuclear Power Plant

Sheet 1 of 2

27780 Blue Star Highway, Covert, MI 49043

WO# 24012009

3. Work Performed by Nuclear Management Company, LLC

Repair Organization P.O. No., Job No., etc

27780 Blue Star Hwy, Covert, MI

Type Code Symbol Stamp N/A

Authorization N/A

Expiration Date N/A

Code Class Class 3

4. Identification of System SWS

5. (a) Applicable Construction Code B31.1

1989 Edition

Addenda n/a

Code Case n/a

(b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity 1989 With No Addenda

(c) Applicable Section XI Code Cases N-416-1

### 6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Valve	Velan Valve Corp	S/N 012131	n/a	PO# G0341850-1	2001	Installed	No

7. Description of Work Replace Condensing Unit Discharge Valve MV-SW282

8. Tests conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐  
 Other ☐ Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F

Other: None

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 number of sheets is recorded at the top of this form.

**PALISADES NUCLEAR POWER PLANT**  
**FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY**

ITEM **24012009**

9. Remarks

None

**CERTIFICATE OF COMPLIANCE**

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

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed *Joseph E. Shuck*, ASME Program Engineer Date June 17, 2003

**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 Michigan and employed by HSB-CT of Connecticut have inspected the components described in this Owner's Report during the period April 20, 2001 to April 17, 2003, 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 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.

*R. E. Blake* Commissions MI 300762  
Inspector's Signature National Board, Province and Endorsements

Date June 23, 2003



**FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY**  
As Required by the Provisions of the ASME Code, Section XI

1. Owner Consumers Energy Company

Date September 3, 2002

27780 Blue Star Hwy. Covert, MI

Sheet 1 of 1

2. Plant Palisades Nuclear Plant

Unit 1

27780 Blue Star Hwy. Covert, MI

W.O.# 24013509

Repair/Replacement Organization P.O. No., Job No., etc.

3. Work Performed by Consumers Energy

Type Code Symbol Stamp N/A

27780 Blue Star Hwy. Covert, MI

Authorization No. N/A

Expiration Date N/A

4. Identification of System Spent Fuel Pool (SFP)

5. (a) Applicable Construction Code ANSI B31.1, 1955 Edition, n/a Addenda, n/a Code Case

(b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity 89

(c) Applicable Section XI Code Cases n/a

6. Identification of Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Rod	Nova Mach. Prod.	Heat # BE6286	n/a	PO# G0360373/3	01	Installed	No
Rod	Nova Mach. Prod.	Heat # BE6286	n/a	PO# G030849/2	01	Installed	No
Nut	Nova Mach. Prod.	HE # 7155.14	n/a	PO# G0323635/1	00	Installed	No
Bonnet	Crane Nuclear	C9779	n/a	PO# G0337872/1	01	Installed	No

7. Description of Work Replace valve bonnet (MV-ES 3271).

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 8½ 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 number of sheets is recorded at the top of this form.



FORM NIS-2 (Back)

9. Remarks

None

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed Joseph E. Rhoad Senior Engineer Date Sept. 03, 2002  
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 Michigan and employed by Factory Mutual Insurance Company of Johnston, R.I. have inspected the components described in this Owner's Report during the period 11/20/99 to 9-03-02, 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.

R. E. Blake Commissions MT -762 ABNT  
Inspector's Signature National Board, State, Province, and Endorsements  
Date Sept 3 2002

# PALISADES NUCLEAR POWER PLANT

## FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY

ITEM **24013549**

<p>1. Owner <u>Consumers Energy Company</u></p> <p style="text-align: center;">Name</p> <p>2. Plant <u>Palisades Nuclear Power Plant</u></p> <p style="text-align: center;">Name</p> <p><u>27780 Blue Star Highway, Covert, MI 49043</u></p> <p style="text-align: center;">Address</p> <p>3. Work Performed by <u>Nuclear Management Company, LLC</u></p> <p style="text-align: center;">Name</p> <p><u>27780 Blue Star Hwy, Covert, MI</u></p> <p style="text-align: center;">Address</p> <p>4. Identification of System <u>ESS (Engineered Safeguards)</u></p> <p>5. (a) Applicable Construction Code <u>B31.1</u>, 1989 Edition</p> <p style="text-align: center;">Addenda <u>n/a</u> Code Case <u>n/a</u></p> <p>(b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity <u>1989 With No Addenda</u></p> <p>(c) Applicable Section XI Code Cases <u>None</u></p>	<p>Date <u>4/11/2003</u></p> <p>Sheet <u>1</u> of <u>2</u></p> <p style="text-align: center;">WO# 24013549</p> <p style="text-align: center;">Repair Organization P.O. No., Job No., etc</p> <p>Type Code Symbol Stamp <u>N/A</u></p> <p>Authorization <u>N/A</u></p> <p>Expiration Date <u>N/A</u></p> <p>Code Class <u>Class 2</u></p>
---	--

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
1" Rod	Nova Mach. Products	Ht-Tr# 723519	n/a	PO# G0369179-2	2001	Installed	No
3/4" Nut	Nova Mach. Products	Ht-Tr# 723303	N/A	PO# G0348355-1	2000	Installed	No
1" Nut	Cardinal	SN 8651193	N/A	PO# 20039359-1	1989	Installed	No
1" Nut	Nova Mach. Products	Ht-Tr# 712914	N/A	PO# G0265144-1	1997	Installed	No
1" Nut	Nova Mach. Products	Ht-Tr# 721343	N/A	PO# G0349594-1	2000	Installed	No
3/4" Rod	Cardinal	Ht-Tr# 630C	N/A	PO# 20036914-2	1989	Installed	No

7. Description of Work Replace pump 54A suction and discharge flange carbon steel studs/nuts.

8. Tests conducted:      Hydrostatic ☐      Pneumatic ☐      Nominal Operating Pressure ☒      Exempt ☐

Other ☐      Pressure NOP psi      Test Temp. NOT °F

Other: \_\_\_\_\_

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 number of sheets is recorded at the top of this form.

**PALISADES NUCLEAR POWER PLANT**  
**FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY**

9. Remarks

None

ITEM 24013519

**CERTIFICATE OF COMPLIANCE**

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

Type Code Symbol Stamp \_\_\_\_\_ N/A \_\_\_\_\_

Certificate of Authorization No. \_\_\_\_\_ N/A \_\_\_\_\_ Expiration Date \_\_\_\_\_ N/A \_\_\_\_\_

Signed *[Signature]*, ASME Program Engineer Date June 9, 2003

**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 Michigan and employed by HSB-CT of Connecticut have inspected the components described in this Owner's Report during the period April 20, 2001 to April 17, 2003, 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 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.

*[Signature]*  
Inspector's Signature

Commissions MI 300762  
National Board, Province and Endorsements

Date June 9, 2003

**FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY**  
As Required by the Provisions of the ASME Code, Section XI

1. Owner Consumers Energy Company Date August 19, 2002  
27780 Blue Star Hwy., Covert, MI Sheet 1 of + 3  
 2. Plant Palisades Nuclear Plant Unit 1  
27780 Blue Star Hwy., Covert, MI U.O. 24110645  
 3. Work Performed by Nuclear Mgmt. Comp. LLC Repair/Replacement Organization P.O. No., Job No., etc.  
27780 Blue Star Hwy., Covert, MI Type Code Symbol Stamp n/a  
 Authorization No. n/a  
 Expiration Date n/a

4. Identification of System Component Cooling (CCS)

5. (a) Applicable Construction Code B31.1, 1955 Edition, n/a Addenda, n/a Code Case  
 (b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity 89  
 (c) Applicable Section XI Code Cases n/a

6. Identification of Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Valve	Henry Pratt	HE# A1133876	n/a	PO# G0373841	02	Installed	No
Nut	Cardinal Ind. Prod.	HE# 8898293	n/a	PO# G0182099/1	95	Installed	No
Stud	Cardinal Ind. Prod.	HE# 8098719	n/a	PO# S0255126/5	89	Installed	No
Nut	Nova Mach. Prod.	HE# 8077124	n/a	PO# G0289329/1	99	Installed	No
Nut	Nova Mach. Prod.	HE# 8994826	n/a	PO# G0351183/1	99	Installed	No
Nut	Nova Mach. Prod.	HE# 8994826	n/a	PO# G0375353/1	99	Installed	No
Bolt	Nova Mach. Prod.	HE# 8887960	n/a	PO# G0266676/3	98	Installed	No

7. Description of Work Replace spent Fuel pool heat exchanger inlet valve MVCC117.

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 8½ 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 number of sheets is recorded at the top of this form.





**FORM NIS-2 (Back)**

## 9. Remarks

None

**Applicable Manufacturer's Data Reports to be attached**

# CERTIFICATE OF COMPLIANCE

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

**Type Code Symbol Stamp**

nia

**Certificate of Authorization No.**

n-1a

**Expiration Date**

nle

**Signed**

State of Authorization No. \_\_\_\_\_  
*Wesley E. Howard* Senior Eng  
 Owner or Owner's Designee, Title

Date \_\_\_\_\_

Date April 13, 2003

# 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 MICHIGAN and employed by HSB-CT

of CONNECTICUT

of CONNECTICUT have inspected the components described in this Owner's Report during the period APRIL 20, 2001 to APRIL 14, 2003, 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

Mr. 300762

### National Board, State, Province, and Endorsements

**Date**

APR 14 , 2003

# PALISADES NUCLEAR POWER PLANT

## FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY

ITEM **2411187**

<p>1. Owner <u>Consumers Energy Company</u></p> <p style="text-align: center;">Name</p> <p>2. Plant <u>Palisades Nuclear Power Plant</u></p> <p style="text-align: center;">Name</p> <p><u>27780 Blue Star Highway, Covert, MI 49043</u></p> <p style="text-align: center;">Address</p> <p>3. Work Performed by <u>Nuclear Management Company, LLC</u></p> <p style="text-align: center;">Name</p> <p><u>27780 Blue Star Hwy, Covert, MI</u></p> <p style="text-align: center;">Address</p> <p>4. Identification of System <u>PCS</u></p> <p>5. (a) Applicable Construction Code <u>Section III</u>, 1965 Edition</p> <p style="text-align: center;">Addenda <u>n/a</u> Code Case <u>n/a</u></p> <p>(b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity <u>1989 With No Addenda</u></p> <p>(c) Applicable Section XI Code Cases <u>None</u></p>	<p>Date <u>3/18/2003</u></p> <p>Sheet <u>1</u> of <u>2</u></p> <p style="text-align: center;">WO# <u>2411187</u></p> <p style="text-align: center;">Repair Organization P.O. No., Job No., etc</p> <p>Type Code Symbol Stamp <u>N/A</u></p> <p>Authorization <u>N/A</u></p> <p>Expiration Date <u>N/A</u></p> <p>Code Class <u>1</u></p>
---	--

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Pump Cover Flange	Flowserve Corporation	S/N 661-N-0764	n/a	PO# G0310601	2001	Installed	No
Pump Stud	Byron Jackson	HT#37081	n/a	PO# P047943	1999	Installed	No
Nut	Baltimore Gas & Electric	HT#6055736 Code 8570	n/a	PO# P023365	2003	Installed	No
Nut	Baltimore Gas & Electric	HT# 6055736	n/a	PO# G0294719	1999	Installed	No
Nut	Maine-Yankee Atomic Power Co	HT# 22480	n/a	PO# G0331329	2000	Installed	No

7. Description of Work Pump P-50C replace pump cover flange and bolts

8. Tests conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐

Other ☐ Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F

Other: \_\_\_\_\_

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 number of sheets is recorded at the top of this form.



**PALISADES NUCLEAR POWER PLANT**  
**FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY**

ITEM **211187**

9. Remarks

None

**CERTIFICATE OF COMPLIANCE**

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

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed [Signature], ASME Program Engineer Date June 24, 2003

**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 Michigan and employed by HSB-CT of Connecticut have inspected the components described in this Owner's Report during the period April 20, 2001 to April 17, 2003, 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 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.

[Signature] Commissions MI 300762  
Inspector's Signature National Board, Province and Endorsements

Date June 26, 2003

# PALISADES NUCLEAR POWER PLANT

## FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY

ITEM **24111359**

1. Owner Consumers Energy Company

Date 10/14/2002

2. Plant Palisades Nuclear Power Plant  
Name  
27780 Blue Star Highway, Covert, MI 49043

Sheet 1 of 2

WO# 24111359

3. Work Performed by Nuclear Management Company, LLC  
Address  
Name  
27780 Blue Star Hwy, Covert, MI

Repair Organization P.O. No., Job No., etc

Type Code Symbol Stamp N/A

Authorization N/A

Expiration Date N/A

Code Class 2

4. Identification of System ESS

5. (a) Applicable Construction Code B31.1

1973 Edition

Addenda n/a

Code Case n/a

(b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity 1989 With No Addenda

(c) Applicable Section XI Code Cases None

### 6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Snubber SNB-68	Pacific Scientific	PSA-10 S/N 41274	n/a	PO# G0353095	2001	Installed	No

7. Description of Work Scheduled Snubber Replacement per Snubber Program

8. Tests conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Exempt ☐

Other ☒ Pressure                      psi Test Temp.                      °F

Other: VT-3

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 number of sheets is recorded at the top of this form.

**PALISADES NUCLEAR POWER PLANT**  
**FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY**

9. Remarks

ITEM **24111359**

None

**CERTIFICATE OF COMPLIANCE**

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

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed [Signature], ASME Program Engineer Date June 17, 2003

**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 Michigan and employed by HSB-CT of Connecticut have inspected the components described in this Owner's Report during the period April 20, 2001 to April 17, 2003, 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 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.

[Signature]  
Inspector's Signature

Commissions MI 300762

National Board, Province and Endorsements

Date June 19, 2003

# PALISADES NUCLEAR POWER PLANT

## FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY

ITEM **24111360**

1. Owner Consumers Energy Company

Date 10/14/2002

2. Plant Palisades Nuclear Power Plant

Sheet 1 of 2

27780 Blue Star Highway, Covert, MI 49043

WO# 24111360

3. Work Performed by Nuclear Management Company, LLC

Repair Organization P.O. No., Job No., etc

27780 Blue Star Hwy, Covert, MI

Type Code Symbol Stamp N/A

Authorization N/A

Expiration Date N/A

Code Class 2

4. Identification of System MSS

5. (a) Applicable Construction Code B31.1

1973 Edition

Addenda n/a

Code Case n/a

(b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity 1989 With No Addenda

(c) Applicable Section XI Code Cases None

### 6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Snubber SNB-70	Pacific Scientific	PSA-3 S/N 41177	n/a	PO# G0353095	2001	Installed	No
Washer	Basic-PSA INC	Lot# K06137	n/a	PO# P025946	2003	Installed	No

7. Description of Work Scheduled snubber replacement per snubber program

8. Tests conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Exempt ☐

Other ☒ Pressure                      psi Test Temp.                      ° F

Other: VT-3

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 number of sheets is recorded at the top of this form.

**PALISADES NUCLEAR POWER PLANT**  
**FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY**

ITEM **24111380**

9. Remarks

None

**CERTIFICATE OF COMPLIANCE**

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

Type Code Symbol Stamp \_\_\_\_\_ N/A \_\_\_\_\_

Certificate of Authorization No. \_\_\_\_\_ N/A \_\_\_\_\_ Expiration Date \_\_\_\_\_ N/A \_\_\_\_\_

Signed *[Signature]*, ASME Program Engineer Date June 12, 2003

**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 Michigan and employed by HSB-CT of Connecticut have inspected the components described in this Owner's Report during the period April 20, 2001 to April 17, 2003, 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 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.

*[Signature]* Commissions MI 300762  
Inspector's Signature National Board, Province and Endorsements

Date June 16, 2003

# PALISADES NUCLEAR POWER PLANT

## FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY

ITEM 24111361

<p>1. Owner <u>Consumers Energy Company</u></p> <p style="margin-left: 100px;">Name</p> <p>2. Plant <u>Palisades Nuclear Power Plant</u></p> <p style="margin-left: 100px;">Name</p> <p style="margin-left: 100px;"><u>27780 Blue Star Highway, Covert, MI 49043</u></p> <p style="margin-left: 100px;">Address</p> <p>3. Work Performed by <u>Nuclear Management Company, LLC</u></p> <p style="margin-left: 100px;">Name</p> <p style="margin-left: 100px;"><u>27780 Blue Star Hwy, Covert, MI</u></p> <p style="margin-left: 100px;">Address</p> <p>4. Identification of System <u>ESS</u></p> <p>5. (a) Applicable Construction Code <u>B31.1</u>, <u>1973</u> Edition</p> <p style="margin-left: 100px;">Addenda <u>n/a</u> Code Case <u>n/a</u></p> <p>(b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity <u>1989 With No Addenda</u></p> <p>(c) Applicable Section XI Code Cases <u>None</u></p>	<p>Date <u>10/14/2002</u></p> <p>Sheet <u>1</u> of <u>2</u></p> <p style="text-align: center;">WO# <u>24111361</u></p> <p>Repair Organization P.O. No., Job No., etc</p> <p>Type Code Symbol Stamp <u>N/A</u></p> <p>Authorization <u>N/A</u></p> <p>Expiration Date <u>N/A</u></p> <p>Code Class <u>2</u></p>
--	--

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Snubber SNB-71	Pacific Scientific	PSA-3 S/N 41454	n/a	PO# G0341883	2001	Installed	No

7. Description of Work Scheduled Snubber Replacement per Snubber Program

8. Tests conducted:      Hydrostatic ☐      Pneumatic ☐      Nominal Operating Pressure ☐      Exempt ☐

Other ☒      Pressure \_\_\_\_\_ psi      Test Temp. \_\_\_\_\_ °F

Other: VT-3

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 number of sheets is recorded at the top of this form.

**PALISADES NUCLEAR POWER PLANT**  
**FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY**

9. Remarks

ITEM

2411331

None

**CERTIFICATE OF COMPLIANCE**

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

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed [Signature], ASME Program Engineer Date June 9, 2003

**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 Michigan and employed by HSB-CT of Connecticut have inspected the components described in this Owner's Report during the period April 20, 2001 to April 17, 2003, 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 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.

[Signature]  
Inspector's Signature

Commissions

MI 300762

National Board, Province and Endorsements

Date June 9, 2003

# PALISADES NUCLEAR POWER PLANT

## FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY

ITEM 24111362

1. Owner Consumers Energy Company

Date 10/14/2002

2. Plant Palisades Nuclear Power Plant  
Name  
27780 Blue Star Highway, Covert, MI 49043  
Address

Sheet 1 of 2  
WO# 24111362

3. Work Performed by Nuclear Management Company, LLC  
Name  
27780 Blue Star Hwy, Covert, MI  
Address

Repair Organization P.O. No., Job No., etc  
Type Code Symbol Stamp N/A  
Authorization N/A  
Expiration Date N/A  
Code Class 2

4. Identification of System ESS

5. (a) Applicable Construction Code B31.1, 1973 Edition  
Addenda n/a Code Case n/a

(b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity 1989 With No Addenda

(c) Applicable Section XI Code Cases None

### 6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Snubber SNB-79	Pacific Scientific	PSA-1 S/N 41423	n/a	PO# G0353095	2001	Installed	No

7. Description of Work Scheduled Snubber Replacement per Snubber Program

8. Tests conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Exempt ☐  
 Other ☒ Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F

Other: VT-3

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 number of sheets is recorded at the top of this form.



**PALISADES NUCLEAR POWER PLANT**  
**FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY**

9. Remarks

ITEM **2111362**

None

**CERTIFICATE OF COMPLIANCE**

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

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed , ASME Program Engineer Date June 17, 2003

**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 Michigan and employed by HSB-CT of Connecticut have inspected the components described in this Owner's Report during the period April 20, 2001 to April 17, 2003, 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 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

MI 300762

National Board, Province and Endorsements

Date June 19, 2003

# PALISADES NUCLEAR POWER PLANT

## FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY

ITEM **24111428**

1. Owner Consumers Energy Company

Date 10/14/2002

2. Plant Palisades Nuclear Power Plant

Sheet 1 of 2

27780 Blue Star Highway, Covert, MI 49043

WO# 24111428

3. Work Performed by Nuclear Management Company, LLC

Repair Organization P.O. No., Job No., etc

27780 Blue Star Hwy, Covert, MI

Type Code Symbol Stamp N/A

Authorization N/A

Expiration Date N/A

Code Class 2

4. Identification of System ESS

5. (a) Applicable Construction Code B31.1

1989 Edition

Addenda n/a

Code Case n/a

(b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity 1989 With No Addenda

(c) Applicable Section XI Code Cases None

### 6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Threaded Rod	Cardinal Industrial	HT# 630C	n/a	PO# 2003-6914	1989	Installed	No
Hex Nuts	Nova Machine Products Corp	HT# 723302	n/a	PO# G0348355	2001	Installed	No

7. Description of Work Replaced Studs and Nuts on FE-0314

8. Tests conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐

Other ☐ Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F

Other: \_\_\_\_\_

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 number of sheets is recorded at the top of this form.

**PALISADES NUCLEAR POWER PLANT**  
**FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY**

ITEM **24111428**

9. Remarks

None

**CERTIFICATE OF COMPLIANCE**

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

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed *LS Blake*, ASME Program Engineer Date June 16, 2003

**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 Michigan and employed by HSB-CT of Connecticut have inspected the components described in this Owner's Report during the period April 20, 2001 to April 17, 2003, 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 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.

*LS Blake*  
Inspector's Signature

Commissions

MI 300762

National Board, Province and Endorsements

Date June 19, 2003

# PALISADES NUCLEAR POWER PLANT

## FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY

ITEM 24111429

1. Owner Consumers Energy Company

Date 10/14/2002

2. Plant Palisades Nuclear Power Plant  
27780 Blue Star Highway, Covert, MI 49043

Sheet 1 of 2

WO# 24111429

3. Work Performed by Nuclear Management Company, LLC  
27780 Blue Star Hwy, Covert, MI

Repair Organization P.O. No., Job No., etc

Type Code Symbol Stamp N/A

Authorization N/A

Expiration Date N/A

Code Class 2

4. Identification of System ESS

5. (a) Applicable Construction Code B31.1

1989 Edition

Addenda n/a

Code Case n/a

(b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity 1989 With No Addenda

(c) Applicable Section XI Code Cases None

### 6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Threaded Rod	Nova Machine Products Corp	HT# 721473	n/a	PO# G0348355	2001	Installed	No
Hex Nuts	Nova Machine Products Corp	HT# 723402	n/a	PO# P014158	2001	Installed	No

7. Description of Work Replaced Studs and Nuts on FE-0307

8. Tests conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐

Other ☐ Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F

Other: \_\_\_\_\_

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 number of sheets is recorded at the top of this form.

**PALISADES NUCLEAR POWER PLANT**  
**FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY**

9. Remarks

ITEM **2111429**

None

**CERTIFICATE OF COMPLIANCE**

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

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed , ASME Program Engineer Date June 16, 2003

**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 Michigan and employed by HSB-CT of Connecticut have inspected the components described in this Owner's Report during the period April 20, 2001 to April 17, 2003, 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 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.

 Commissions MI 300762  
Inspector's Signature National Board, Province and Endorsements

Date June 16, 2003

# PALISADES NUCLEAR POWER PLANT

## FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY

ITEM **24111449**

1. Owner Consumers Energy Company

Date 9/5/2001

2. Plant Palisades Nuclear Power Plant

Sheet 1 of 2

27780 Blue Star Highway, Covert, MI 49043

WO# 24111449

3. Work Performed by Nuclear Management Company, LLC

Repair Organization P.O. No., Job No., etc

27780 Blue Star Hwy, Covert, MI

Type Code Symbol Stamp N/A

Authorization N/A

Expiration Date N/A

Code Class 3

4. Identification of System FWS

5. (a) Applicable Construction Code B31.1

1989 Edition

Addenda n/a

Code Case n/a

(b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity 1989 With No Addenda

(c) Applicable Section XI Code Cases None

### 6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
ValveMV-FW217	Vogt	217476	n/a	PO#G0257230	1998	Installed	No
Pipe	DUBOSE	HT# 710144	n/a	PO# P013161	2000	Installed	No
Elbow	Dubose National Energy SVCS	HT#R2135	n/a	PO#G0219594	1997	Installed	No

7. Description of Work Replaced 2" Manual Gate Valve MV-FW217

8. Tests conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐

Other ☐ Pressure NOP psi Test Temp. NOT ° F

Other: \_\_\_\_\_

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 number of sheets is recorded at the top of this form.

**PALISADES NUCLEAR POWER PLANT**  
**FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY**

ITEM **2411449**

9. Remarks

None

**CERTIFICATE OF COMPLIANCE**

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

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed [Signature], ASME Program Engineer Date JUNE 12, 2003

**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 Michigan and employed by HSB-CT of Connecticut have inspected the components described in this Owner's Report during the period April 20, 2001 to April 17, 2003, 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 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.

[Signature] Commissions MI 300762  
Inspector's Signature National Board, Province and Endorsements

Date JUNE 16, 2003

# PALISADES NUCLEAR POWER PLANT

## FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY

ITEM **24111800**

1. Owner Consumers Energy Company

Date 4/6/2003

2. Plant Palisades Nuclear Power Plant

Sheet 1 of 2

27780 Blue Star Highway, Covert, MI 49043

WO# 24111800

3. Work Performed by Nuclear Management Company, LLC

Repair Organization P.O. No., Job No., etc

27780 Blue Star Hwy, Covert, MI

Type Code Symbol Stamp N/A

Authorization N/A

Expiration Date N/A

Code Class 2

4. Identification of System MSS

5. (a) Applicable Construction Code B31.1

1989 Edition

Addenda n/a

Code Case n/a

(b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity 1989 With No Addenda

(c) Applicable Section XI Code Cases None

### 6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Threaded Rod	Cardinal Industrial	HT# 8869139	n/a	PO# 2004-7806	1990	Installed	No
Hex Nuts	Cardinal Industrial	HT# C27729	n/a	PO# 2004-7805	1990	Installed	No

7. Description of Work Replace one Stud and three nuts

8. Tests conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐

Other ☐ Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F

Other: \_\_\_\_\_

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 number of sheets is recorded at the top of this form.



**PALISADES NUCLEAR POWER PLANT**  
**FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY**

ITEM **24111800**

9. Remarks

None

**CERTIFICATE OF COMPLIANCE**

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

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed [Signature], ASME Program Engineer Date June 13, 2003

**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 Michigan and employed by HSB-CT of Connecticut have inspected the components described in this Owner's Report during the period April 20, 2001 to April 17, 2003, 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 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.

[Signature] Commissions MI 300762  
Inspector's Signature National Board, Province and Endorsements

Date June 16, 2003

**FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY**  
As Required by the Provisions of the ASME Code, Section XI

1. Owner Consumers Energy Company  
Name  
27780 Blue Star Hwy, Covert, MI  
Address

Date February 12, 2002  
 Sheet 1 of +2

2. Plant Palisades Nuclear Plant  
Name  
27780 Blue Star Hwy, Covert, MI  
Address

Unit 1  
W.O. 24210560  
Repair/Replacement Organization P.O. No., Job No., etc.

3. Work Performed by Nuclear Mgmt. Comp., LLC  
Name  
27780 Blue Star Hwy, Covert, MI  
Address

Type Code Symbol Stamp n/a  
 Authorization No. n/a  
 Expiration Date n/a

4. Identification of System Component Cooling (CCS)

5. (a) Applicable Construction Code B31.1, 1955 Edition, n/a Addenda, n/a Code Case

(b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity 89  
Year

(c) Applicable Section XI Code Cases None

6. Identification of Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Valve	Henry Pratt Company	S/N 5052678/1	n/a	PO# G0373930/1	01	Installed	No
Stud	Cardinal Ind. Prod.	HE# 8098719	n/a	PO# S0255126/5	89	Installed	No
Nut	Nova Mach Prod.	HE# 8994826	n/a	PO# G0351183/1	99	Installed	No
Nut	Nova Mach Prod.	HE# 8077124	n/a	PO# G0289329/1	95	Installed	No

7. Description of Work Replace spent Fuel pool heat exchanger cooling outlet valve.  
MB. CC923.

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 8½ 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 number of sheets is recorded at the top of this form.



FORM NIS-2 (Back)

9. Remarks None

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp n/a

Certificate of Authorization No. n/a Expiration Date n/a

Signed Harold E. Shuchman Senior Eng. Date April 16, 2003  
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 MICHIGAN and employed by HSB-CT of CONNECTICUT

have inspected the components described in this Owner's Report during the period APRIL 20, 2001 to APRIL 17, 2003, 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.

[Signature]

Inspector's Signature

Commissions Mi. 300762

National Board, State, Province, and Endorsements

Date APRIL 17, 2003, 2003

# PALISADES NUCLEAR POWER PLANT

## FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY

ITEM **24210690**

1. Owner Consumers Energy Company

Date 8/21/2002

2. Plant Palisades Nuclear Power Plant

Sheet 1 of 2

27780 Blue Star Highway, Covert, MI 49043

WO# 24210690

3. Work Performed by Nuclear Management Company, LLC

Repair Organization P.O. No., Job No., etc

27780 Blue Star Hwy, Covert, MI

Type Code Symbol Stamp N/A

Authorization N/A

Expiration Date N/A

Code Class Class 3

4. Identification of System CCS

5. (a) Applicable Construction Code ANSI B31.1

1955 Edition

Addenda n/a

Code Case n/a

(b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity 1989 With No Addenda

(c) Applicable Section XI Code Cases None

### 6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Valve	Fisher	SN 16380703	n/a	PO# 05327/2	02	Installed	No
Threaded Rod	Nova Mach Products	Ht# 96469	n/a	PO# GO264182/1	97	Installed	No
Threaded Rod	Nova Mach Products	Ht# 40759	n/a	PO# 10904/2	02	Installed	No
Threaded Rod	Accutech	Ht# 8997210	n/a	PO# GO218632/1	96	Installed	No
Hex Nut	Accutech	Ht# 8868358	n/a	PO# G0199028/2	96	Installed	No
Hex Nut	Nova Mach Products	Ht# 8990206	n/a	PO# G0366474/1	01	Installed	No
Hex Nut	Nova Mach Products	Ht# 8098856	n/a	PO# G0097241/2	93	Installed	No

7. Description of Work Replace Valve

8. Tests conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐

Other ☐ Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F

Other: 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 number of sheets is recorded at the top of this form.

**PALISADES NUCLEAR POWER PLANT**  
**FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY**

9. Remarks

ITEM 24210690

None

**CERTIFICATE OF COMPLIANCE**

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

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed George E. Shred, ASME Program Engineer Date June 18, 2003

**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 Michigan and employed by HSB-CT of Connecticut have inspected the components described in this Owner's Report during the period April 20, 2001 to April 17, 2003, 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 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.

R. B. Blake  
Inspector's Signature

Commissions MI 300762

National Board, Province and Endorsements

Date June 19, 2003

# PALISADES NUCLEAR POWER PLANT

## FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY

ITEM **24210953**

<p>1. Owner <u>Consumers Energy Company</u></p> <p style="padding-left: 100px;">Name</p> <p>2. Plant <u>Palisades Nuclear Power Plant</u></p> <p style="padding-left: 100px;">Name</p> <p style="padding-left: 100px;">27780 Blue Star Highway, Covert, MI 49043</p> <p style="padding-left: 100px;">Address</p> <p>3. Work Performed by <u>Nuclear Management Company, LLC</u></p> <p style="padding-left: 100px;">Name</p> <p style="padding-left: 100px;">27780 Blue Star Hwy, Covert, MI</p> <p style="padding-left: 100px;">Address</p> <p>4. Identification of System <u>CCS</u></p> <p>5. (a) Applicable Construction Code <u>B31.1</u>, 1989 Edition</p> <p style="padding-left: 100px;">Addenda <u>n/a</u> Code Case <u>n/a</u></p> <p>(b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity <u>1989 With No Addenda</u></p> <p>(c) Applicable Section XI Code Cases <u>None</u></p>	<p>Date <u>11/1/2002</u></p> <p>Sheet <u>1</u> of <u>2</u></p> <p style="text-align: center;">WO# 24210953</p> <p>Repair Organization P.O. No., Job No., etc</p> <p>Type Code Symbol Stamp <u>N/A</u></p> <p>Authorization <u>N/A</u></p> <p>Expiration Date <u>N/A</u></p> <p>Code Class <u>3</u></p>
---	--

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
12" Pipe	Nova Machine	Ht# N68821	n/a	PO# P009443	2002	Installed	No
12" Flange	Energy Steel	Ht# K-5063	n/a	PO# P013250	2002	Installed	No
12" Blind Flange	Nova Machine Products Corp	Ht# MQG	n/a	PO# P009443	2002	Installed	No
Flange Bolts	Nova Machine Products	HT# 53410	n/a	PO# G0170933	1995	Installed	No
Flange Nuts	Nova Machine Products Corp	Ht# 8994026	n/a	PO# P014158	2002	Installed	No

7. Description of Work Install Hot Tap/Line Stop to Isolate CCW back leakage thru MV-CC923

8. Tests conducted:      Hydrostatic ☐      Pneumatic ☐      Nominal Operating Pressure ☒      Exempt ☐

Other ☐      Pressure NOP psi      Test Temp. NOT °F

Other: \_\_\_\_\_

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 number of sheets is recorded at the top of this form.

**PALISADES NUCLEAR POWER PLANT**  
**FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY**

9. Remarks

ITEM 2421D953

None

**CERTIFICATE OF COMPLIANCE**

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

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed [Signature], ASME Program Engineer Date June 12, 2003

**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 Michigan and employed by HSB-CT of Connecticut have inspected the components described in this Owner's Report during the period April 20, 2001 to April 17, 2003, 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 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.

[Signature]  
Inspector's Signature

Commissions MI 300762  
National Board, Province and Endorsements

Date June 16, 2003

# PALISADES NUCLEAR POWER PLANT

## FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY

ITEM **24211301**

1. Owner Consumers Energy Company

Date 12/16/2002

2. Plant Palisades Nuclear Power Plant

Sheet 1 of 2

27780 Blue Star Highway, Covert, MI 49043

WO# 24211301

3. Work Performed by Nuclear Management Company, LLC

Repair Organization P.O. No., Job No., etc

27780 Blue Star Hwy, Covert, MI

Type Code Symbol Stamp N/A

Authorization N/A

Expiration Date N/A

Code Class 2

4. Identification of System MSM

5. (a) Applicable Construction Code B31.1

1989 Edition

Addenda n/a

Code Case n/a

(b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity 1989 With No Addenda

(c) Applicable Section XI Code Cases None

### 6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Flange	Consolidated Power Supply	HT# C3326	n/a	PO# G0280143-1	1999	Installed	No
Pipe	Energy & Process Corp	HT# SF497	n/a	PO# G0313947-3	2000	Installed	No
Elbow	Dubose	HT# LGBF-1-SAT	n/a	PO# P016714	2002	Installed	No
Valve	Framatome ANP	S/N 011025	n/a	PO# P015518	2001	Installed	Yes

7. Description of Work Installed an alternate safe shutdown path on the charging pump suction line per EAR-2002-0293

8. Tests conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐

Other ☐ Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F

Other: \_\_\_\_\_

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 number of sheets is recorded at the top of this form.



**PALISADES NUCLEAR POWER PLANT**  
**FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY**

ITEM **24211301**

9. Remarks

None

**CERTIFICATE OF COMPLIANCE**

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

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed , ASME Program Engineer Date June 12, 2003

**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 Michigan and employed by HSB-CT of Connecticut have inspected the components described in this Owner's Report during the period April 20, 2001 to April 17, 2003, 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 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.

 Commissions MI 300762  
Inspector's Signature National Board, Province and Endorsements

Date June 16, 2003

# PALISADES NUCLEAR POWER PLANT

## FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY

ITEM **24211478**

<p>1. Owner <u>Consumers Energy Company</u></p> <p style="text-align: center;">Name</p> <p>2. Plant <u>Palisades Nuclear Power Plant</u></p> <p style="text-align: center;">Name</p> <p><u>27780 Blue Star Highway, Covert, MI 49043</u></p> <p style="text-align: center;">Address</p> <p>3. Work Performed by <u>Nuclear Management Company, LLC</u></p> <p style="text-align: center;">Name</p> <p><u>27780 Blue Star Hwy, Covert, MI</u></p> <p style="text-align: center;">Address</p> <p>4. Identification of System <u>FWS</u></p>	<p>Date <u>1/15/2003</u></p> <p>Sheet <u>1</u> of <u>2</u></p> <p style="text-align: right;">WO# <u>24211478</u></p> <p style="text-align: right;">Repair Organization P.O. No., Job No., etc</p> <p>Type Code Symbol Stamp <u>N/A</u></p> <p>Authorization <u>N/A</u></p> <p>Expiration Date <u>N/A</u></p> <p>Code Class <u>3</u></p>
---	---

5. (a) Applicable Construction Code B31.1, 1989 Edition

Addenda n/a Code Case n/a

(b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity 1989 With No Addenda

(c) Applicable Section XI Code Cases None

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
3/8" Nut	Nova Mach. Products	HT# B88010	n/a	PO# G0360383-2	N/A	Installed	No
U-Bolt	Nova Machine Products	HT# 72465	n/a	PO# G0379728	2002	Installed	No

7. Description of Work Replaced broken U-Bolt on Hanger HGR/EBC2-H2

8. Tests conducted:      Hydrostatic ☐      Pneumatic ☐      Nominal Operating Pressure ☐      Exempt ☐

Other ☒      Pressure \_\_\_\_\_ psi      Test Temp. \_\_\_\_\_ °F

Other: VT-3

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 number of sheets is recorded at the top of this form.

**PALISADES NUCLEAR POWER PLANT**  
**FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY**

ITEM **24211478**

9. Remarks

None

**CERTIFICATE OF COMPLIANCE**

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

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed *[Signature]*, ASME Program Engineer Date June 25, 2003

**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 Michigan and employed by HSB-CT of Connecticut have inspected the components described in this Owner's Report during the period April 20, 2001 to April 17, 2003, 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 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.

*[Signature]* Commissions MI 300762  
Inspector's Signature National Board, Province and Endorsements

Date June 26, 2003

# PALISADES NUCLEAR POWER PLANT

## FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY

ITEM **24212745**

1. Owner Consumers Energy Company

Date 1/20/2003

2. Plant Palisades Nuclear Power Plant

Sheet 1 of 2

27780 Blue Star Highway, Covert, MI 49043

WO# 24212745

3. Work Performed by Nuclear Management Company, LLC

Repair Organization P.O. No., Job No., etc

27780 Blue Star Hwy, Covert, MI

Type Code Symbol Stamp N/A

Authorization N/A

Expiration Date N/A

Code Class 2

4. Identification of System ESS

5. (a) Applicable Construction Code B31.1

1986 Edition

Addenda n/a

Code Case n/a

(b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity 1989 With No Addenda

(c) Applicable Section XI Code Cases N-416-1

### 6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Valve	Flowserve	SN 95AWC	N/A	PO# 14444	00	Installed	No
Disc	Flowserve	HT# 8656992	N/A	PO# G0329063/1	00	Installed	No
Pipe	Chicago Tube and Iron	HT# 472772	N/A	PO# 1007-1744	86	Installed	No
Elbow	Tioga Pipe	HT# 39144	N/A	PO# 22450Q/1	96	Installed	No

7. Description of Work Replace HPSI Pump P-66A Miniflow Check Valve with similar valve.

8. Tests conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐

Other ☐ Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F

Other: 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 number of sheets is recorded at the top of this form.

**PALISADES NUCLEAR POWER PLANT**  
**FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY**

9. Remarks

ITEM 24212745

None

**CERTIFICATE OF COMPLIANCE**

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

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed Wayne C. Shue, ASME Program Engineer Date June 19, 2003

**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 Michigan and employed by HSB-CT of Connecticut have inspected the components described in this Owner's Report during the period April 20, 2001 to April 17, 2003, 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 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.

R. B. Blake  
Inspector's Signature

Commissions Mi. 300762  
National Board, Province and Endorsements

Date June 23, 2003

# PALISADES NUCLEAR POWER PLANT

## FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY

ITEM **24212820**

1. Owner Consumers Energy Company

Date 6/10/2003

2. Plant Palisades Nuclear Power Plant  
Name  
27780 Blue Star Highway, Covert, MI 49043

Sheet 1 of 2

WO# 24212820

3. Work Performed by Nuclear Management Company, LLC  
Name  
27780 Blue Star Hwy, Covert, MI

Repair Organization P.O. No., Job No., etc

Type Code Symbol Stamp N/A

Authorization N/A

Expiration Date N/A

Code Class 1

4. Identification of System Primary Coolant System  
Address

5. (a) Applicable Construction Code Section III

1977 Edition

Addenda n/a

Code Case n/a

(b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity 1989 With No Addenda

(c) Applicable Section XI Code Cases None

### 6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Tube Plugs	Westinghouse Electric Company	HT# NX2227HK	n/a	PO# P025170	2002	Installed	No

7. Description of Work Plugged 25 tubes in the "A" Steam Generator

8. Tests conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐

Other ☐ Pressure NOP psi Test Temp. NOT °F

Other: \_\_\_\_\_

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 number of sheets is recorded at the top of this form.

**PALISADES NUCLEAR POWER PLANT**  
**FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY**

ITEM 24212820

9. Remarks

None

**CERTIFICATE OF COMPLIANCE**

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

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed [Signature], ASME Program Engineer Date June 16, 2003

**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 Michigan and employed by HSB-CT of Connecticut have inspected the components described in this Owner's Report during the period April 20, 2001 to April 17, 2003, 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 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.

[Signature] Commissions MI 300762  
Inspector's Signature National Board, Province and Endorsements

Date June 24, 2003

# PALISADES NUCLEAR POWER PLANT

## FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY

ITEM **24212821**

1. Owner Consumers Energy Company

Date 6/10/2003

2. Plant Palisades Nuclear Power Plant

Sheet 1 of 2

Name  
27780 Blue Star Highway, Covert, MI 49043

WO# 24212821

3. Work Performed by Nuclear Management Company, LLC

Repair Organization P.O. No., Job No., etc

Name  
27780 Blue Star Hwy, Covert, MI

Type Code Symbol Stamp N/A

Authorization N/A

Expiration Date N/A

Code Class 1

4. Identification of System Primary Coolant System

5. (a) Applicable Construction Code Section III

1977 Edition

Addenda n/a

Code Case n/a

(b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity 1989 With No Addenda

(c) Applicable Section XI Code Cases None

### 6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Tube Plugs	Westinghouse Electric Company	HT# NX2227HK	n/a	PO# P025170	2002	Installed	No

7. Description of Work Plugged 21 tubes in the "B" Steam Generator

8. Tests conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐

Other ☐ Pressure NOP psi Test Temp. NOT °F

Other: \_\_\_\_\_

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 number of sheets is recorded at the top of this form.



**PALISADES NUCLEAR POWER PLANT**  
**FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY**

9. Remarks

None

ITEM 24212821

**CERTIFICATE OF COMPLIANCE**

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

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed [Signature], ASME Program Engineer Date June 18, 2003

**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 Michigan and employed by HSB-CT of Connecticut have inspected the components described in this Owner's Report during the period April 20, 2001 to April 17, 2003, 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 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.

[Signature] Commissions MI 300762  
Inspector's Signature National Board, Province and Endorsements

Date June 24, 2003

# PALISADES NUCLEAR POWER PLANT

## FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY

ITEM 220178

1. Owner Consumers Energy Company

Date 12/4/2002

2. Plant Palisades Nuclear Power Plant

Sheet 1 of 2

27780 Blue Star Highway, Covert, MI 49043

WO# 24214173

3. Work Performed by Nuclear Management Company, LLC

Repair Organization P.O. No., Job No., etc

27780 Blue Star Hwy, Covert, MI

Type Code Symbol Stamp N/A

Authorization N/A

Expiration Date N/A

Code Class 2

4. Identification of System CVC

5. (a) Applicable Construction Code B31.1

1989 Edition

Addenda n/a

Code Case n/a

(b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity 1989 With No Addenda

(c) Applicable Section XI Code Cases None

### 6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Relief Valve RV-2006	Farris	S/N 442668-1-A15	n/a	PO# G0374247	2002	Installed	Yes

7. Description of Work Replaced relief valve RV-2006

8. Tests conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐  
 Other ☐ Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F

Other: \_\_\_\_\_

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 number of sheets is recorded at the top of this form.

**PALISADES NUCLEAR POWER PLANT**  
**FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY**

ITEM

22175

9. Remarks

None

**CERTIFICATE OF COMPLIANCE**

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

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed [Signature], ASME Program Engineer Date June 23, 2003

**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 Michigan and employed by HSB-CT of Connecticut have inspected the components described in this Owner's Report during the period April 20, 2001 to April 17, 2003, 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 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.

[Signature]  
Inspector's Signature

Commissions

MI 300762

National Board, Province and Endorsements

Date June 24, 2003

# PALISADES NUCLEAR POWER PLANT

## FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY

ITEM **24321145**

<p>1. Owner <u>Consumers Energy Company</u></p> <p style="margin-left: 150px;">Name</p> <p>2. Plant <u>Palisades Nuclear Power Plant</u></p> <p style="margin-left: 150px;">Name</p> <p style="margin-left: 150px;"><u>27780 Blue Star Highway, Covert, MI 49043</u></p> <p style="margin-left: 150px;">Address</p> <p>3. Work Performed by <u>Nuclear Management Company, LLC</u></p> <p style="margin-left: 150px;">Name</p> <p style="margin-left: 150px;"><u>27780 Blue Star Hwy, Covert, MI</u></p> <p style="margin-left: 150px;">Address</p> <p>4. Identification of System <u>MSS</u></p> <p>5. (a) Applicable Construction Code <u>B31.1</u>, 1989 Edition</p> <p style="margin-left: 150px;">Addenda <u>n/a</u> Code Case <u>n/a</u></p> <p>(b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity <u>1989 With No Addenda</u></p> <p>(c) Applicable Section XI Code Cases <u>None</u></p>	<p>Date <u>4/2/2003</u></p> <p>Sheet <u>1</u> of <u>2</u></p> <p style="text-align: center;">WO# 24321145</p> <p>Repair Organization P.O. No., Job No., etc</p> <p>Type Code Symbol Stamp <u>N/A</u></p> <p>Authorization <u>N/A</u></p> <p>Expiration Date <u>N/A</u></p> <p>Code Class <u>2</u></p>
---	---

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Reducing Insert	Energy and Process	HT# 1335ANB	n/a	PO# P026105	2003	Installed	No

7. Description of Work Removed fittings to remove damaged sample tube

8. Tests conducted:      Hydrostatic ☐      Pneumatic ☐      Nominal Operating Pressure ☒      Exempt ☐

Other ☐      Pressure \_\_\_\_\_ psi      Test Temp. \_\_\_\_\_ °F

Other: \_\_\_\_\_

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 number of sheets is recorded at the top of this form.

**PALISADES NUCLEAR POWER PLANT**  
**FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY**

ITEM **24321145**

9. Remarks

None

**CERTIFICATE OF COMPLIANCE**

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

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed [Signature], ASME Program Engineer Date June 13, 2003

**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 Michigan and employed by HSB-CT of Connecticut have inspected the components described in this Owner's Report during the period April 20, 2001 to April 17, 2003, 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 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.

[Signature] Commissions MI 300762  
Inspector's Signature National Board, Province and Endorsements

Date June 16, 2003

# PALISADES NUCLEAR POWER PLANT

## FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY

ITEM **24321257**

1. Owner Consumers Energy Company

Date 4/7/2003

2. Plant Palisades Nuclear Power Plant

Sheet 1 of 2

Name  
27780 Blue Star Highway, Covert, MI 49043

WO# 24321257

3. Work Performed by Nuclear Management Company, LLC

Repair Organization P.O. No., Job No., etc

Name  
27780 Blue Star Hwy, Covert, MI

Type Code Symbol Stamp N/A

Authorization N/A

Expiration Date N/A

4. Identification of System CIS (Containment Isolation System)

Code Class 2

5. (a) Applicable Construction Code Section III

1965 Edition

Addenda n/a

Code Case n/a

(b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity 1989 With No Addenda

(c) Applicable Section XI Code Cases None

### 6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Swing bolt	Trentec	HT#29586	n/a	PO# G0358938	2001	Installed	No
Nut	Trentec	HT#68395	n/a	PO# G0358938	2001	Installed	No

7. Description of Work Replaced Swing-bolt on Equipment Hatch MZ-51

8. Tests conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Exempt ☐

Other ☒ Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F

Other: RO-32-51 Local Leak Rate Test

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 number of sheets is recorded at the top of this form.

**PALISADES NUCLEAR POWER PLANT**  
**FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY**

ITEM **21821257**

**9. Remarks**

None

**CERTIFICATE OF COMPLIANCE**

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

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed [Signature], ASME Program Engineer Date June 25, 2003

**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 Michigan and employed by HSB-CT of Connecticut have inspected the components described in this Owner's Report during the period April 20, 2001 to April 17, 2003, 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 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.

[Signature] Commissions MI 300762  
Inspector's Signature National Board, Province and Endorsements

Date June 26, 2003

## PALISADES NUCLEAR POWER PLANT

24321149

**Date** 4/11/2003

\_\_\_\_\_

Sheet 1 of 2

**WO# 24321149**

Repair Organization P.O. No.. Job No.. etc

Authorization	N/A
---------------	-----

<b>Code Class</b>	<b>1</b>
-------------------	----------

<b>Code Class</b>	<b>1</b>
-------------------	----------

1965 Edition

### Code Case

(c) Applicable Section XI Code Cases None

[illegible]

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 number of sheets is recorded at the top of this form.



**PALISADES NUCLEAR POWER PLANT**  
**FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY**

9. Remarks

ITEM 252128

None

**CERTIFICATE OF COMPLIANCE**

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

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed [Signature], ASME Program Engineer Date June 24, 2003

**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 Michigan and employed by HSB-CT of Connecticut have inspected the components described in this Owner's Report during the period April 20, 2001 to April 17, 2003, 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 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.

[Signature] Commissions MI 300762  
Inspector's Signature National Board, Province and Endorsements

Date June 26, 2003

# PALISADES NUCLEAR POWER PLANT

## FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY

ITEM 232155

1. Owner Consumers Energy Company

Date 3/30/2003

2. Plant Palisades Nuclear Power Plant

Sheet 1 of 2

Name  
27780 Blue Star Highway, Covert, MI 49043

WO#24321155

3. Work Performed by Nuclear Management Company, LLC

Repair Organization P.O. No., Job No., etc

Name  
27780 Blue Star Hwy, Covert, MI

Type Code Symbol Stamp N/A

Authorization N/A

Expiration Date N/A

Code Class 2

4. Identification of System ESS

5. (a) Applicable Construction Code B31.1

1973 Edition

Addenda n/a

Code Case n/a

(b) Applicable Edition of Section XI Utilized for Repair/Replacement Activity 1989 With No Addenda

(c) Applicable Section XI Code Cases None

### 6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Snubber SNB-44	Anchor Darling	Moel # ADH-1000 Serial#2486	n/a	PO# G0284322	1999	Installed	No
Load Pin	Cardinal Industrial	HT#A2241	n/a	PO#1005-7418	1984	Installed	No

7. Description of Work Scheduled Snubber Replacement per Snubber Program

8. Tests conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Exempt ☐

Other ☒ Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F

Other: VT-3

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 number of sheets is recorded at the top of this form.

**PALISADES NUCLEAR POWER PLANT**  
**FORM NIS-2 OWNER'S REPORT FOR REPAIR/ REPLACEMENT ACTIVITY**

ITEM **282155**

**9. Remarks**

None

**CERTIFICATE OF COMPLIANCE**

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

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed [Signature], ASME Program Engineer Date June 9, 2003

**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 Michigan and employed by HSB-CT of Connecticut have inspected the components described in this Owner's Report during the period April 20, 2001 to April 17, 2003, 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 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.

[Signature] Commissions MI 300762  
Inspector's Signature National Board, Province and Endorsements

Date June 9, 2003