

ATTACHMENT 1

Letter from M. L. Marchi (WPSC)

To

Document Control Desk (NRC)

Dated

February 12, 1999

FORM NIS-1 Owner's Report for Inservice Inspections

Class 1, Class 2, Class 3 Components

9902170098 990212
PDR ADOCK 05000305
G PDR

FORM NIS-1 OWNER'S REPORT FOR INSERVICE INSPECTIONS
AS REQUIRED BY THE PROVISIONS OF THE ASME CODE RULES

1. OWNER - WISCONSIN PUBLIC SERVICE CORPORATION, 700 NORTH ADAMS,
P.O. BOX 19001, GREEN BAY, WISCONSIN 54307-9001
2. PLANT - KEWAUNEE, N490 HIGHWAY 42, KEWAUNEE, WISCONSIN 54216-9511
3. PLANT UNIT - NO. 1
4. OWNER CERTIFICATE OF AUTHORIZATION - N/A
5. COMMERCIAL SERVICE DATE - JUNE 16, 1974
6. NATIONAL BOARD NUMBER FOR UNIT - N/A
7. COMPONENTS INSPECTED -

<u>COMPONENT OR APPURTENANCE</u>	<u>MANUFACTURER OR INSTALLER</u>	<u>MANUFACTURER OR INSTALLER SERIAL NO.</u>	<u>STATE OR PROVINCE NO.</u>	<u>NATIONAL BOARD NO.</u>
Reactor Vessel RV	Combustion Engineering	CE69202	U11480	21010
Pressurizer PZR	Westinghouse	1151	U11402	68-23
Steam Generator SG-1A	Westinghouse	1141	U11400	68-28
Steam Generator SG-1B	Westinghouse	1142	U11401	68-29
Excess Letdown Heat Exchanger AHEL-1A	Sentry	3996-5E	U11407	364
Excess Letdown Heat Exchanger AHEL-18	Sentry	3996-6E	U11408	365
Class 1 Piping	Texas Pipe Bending	---	---	---
Reactor Coolant Pump RCP-1A	Westinghouse	1A-1-618J871-G01	---	---

FORM NIS-1 OWNER'S REPORT FOR INSERVICE INSPECTIONS
AS REQUIRED BY THE PROVISIONS OF THE ASME CODE RULES

1. OWNER - WISCONSIN PUBLIC SERVICE CORPORATION, 700 NORTH ADAMS,
P.O. 80X 19001, GREEN BAY, WISCONSIN 54307-9001
2. PLANT - KEWAUNEE, N490 HIGHWAY 42, KEWAUNEE, WISCONSIN 54216-9511
3. PLANT UNIT - NO. 1
4. OWNER CERTIFICATE OF AUTHORIZATION - N/A
5. COMMERCIAL SERVICE DATE - JUNE 16, 1974
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Reactor Coolant Pump RCP-1B	Westinghouse	1B-2-618J871-G02	---	---
Residual Heat Exchanger AHRS1-1A	Joseph Oat and Sons	1817-1E	U11046	344
Residual Heat Exchanger AHRS2-1B	Joseph Oat and Sons	1817-1F	U11424	345
Charging Pump Pulsation Dampener APD-1A	Greer Hydraulics	GNI-1848	---	---
Charging Pump Pulsation Dampener APD-1B	Greer Hydraulics	GNI-1846	---	---
Charging Pump Pulsation Dampener APD-1C	Greer Hydraulics	GNI-1847	---	---

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AS REQUIRED BY THE PROVISIONS OF THE ASME CODE RULES

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P.O. BOX 19001, GREEN BAY, WISCONSIN 54307-9001
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<u>COMPONENT OR APPURTENANCE</u>	<u>MANUFACTURER OR INSTALLER</u>	<u>MANUFACTURER OR INSTALLER SERIAL NO.</u>	<u>STATE OR PROVINCE NO.</u>	<u>NATIONAL BOARD NO.</u>
Seal Water Heat Exchanger AHSW	Atlas	734	U11404	596
Volume Control Tank VCT	Joseph Oat and Sons	1787-1C	U11425	376
Regenerative Heat Exchanger ARG	Joseph Oat and Sons	1831-13	U11409 U11410 U11411	413 414 415
Letdown Heat Exchanger AHLD	Atlas	1206	U11405	1031
Seal Water Injection Filter AFSI-1A	Commercial Filters	101072	---	1172
Seal Water Injection Filter AFSI-18	Commercial Filters	101073	---	1173
Reactor Coolant Filter AFRC	AMF Cuno	121	---	2616

FORM NIS-1 OWNER'S REPORT FOR INSERVICE INSPECTIONS
AS REQUIRED BY THE PROVISIONS OF THE ASME CODE RULES

1. OWNER - WISCONSIN PUBLIC SERVICE CORPORATION, 700 NORTH ADAMS,
P.O. BOX 19001, GREEN BAY, WISCONSIN 54307-9001 -
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<u>COMPONENT OR APPURTENANCE</u>	<u>MANUFACTURER OR INSTALLER</u>	<u>MANUFACTURER OR INSTALLER SERIAL NO.</u>	<u>STATE OR PROVINCE NO.</u>	<u>NATIONAL BOARD NO.</u>
Seal Water Filter AFSW	AMF Cuno	123	---	2618
Class 2 Piping	Texas Pipe Bending	---	---	---
Charging Pump APCH-1A	Ajax Iron Works	6578	---	---
Charging Pump APCH-1B	Ajax Iron Works	6576	---	---
Charging Pump APCH-1C	Ajax Iron Works	6577	---	---
Charging Pump APCH-1A Suction Stabilizer	Greer Hydraulics	GH1-10234	---	568
Charging Pump APCH-1B Suction Stablizer	Greer Hydraulics	GH1-10235	---	569

FORM NIS-1 OWNER'S REPORT FOR INSERVICE INSPECTIONS
AS REQUIRED BY THE PROVISIONS OF THE ASME CODE RULES

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Charging Pump APCH-1C Suction Stablizer	Greer Hydraulics	GH1-10236	---	570
Residual Heat Removal Pump APRH1-1A	Byron Jackson	681N0277	---	---
Residual Heat Removal Pump APRH2-1B	Byron Jackson	681N0276	---	---
Refueling Water Storage Tank	General American Transportation Company	C-8297/1969	---	---
Class 3 Piping	Texas Pipe Piping	---	---	---

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Spent Fuel Pool Heat Exchanger AHSF	Struther Wells	1-68-06-1519	U11445	---
Component Cooling Surge Tank ATCS	Sharpsville Steel	714	U11421	714
Safety Injection Pump APSI-1A	Bingham Pump	290696	---	---
Safety Injection Pump APSI-1B	Bingham Pump	290697	---	---
Safety Injection Pump Lube Oil Cooler AHSC-1A	Thermxchanger	X10199A2	---	---

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Safety Injection Pump Lube Oil Cooler AHSC-1B	Thermxchanger	X10199A3	---	---
Safety Injection Pump Heat Exchangers (2) AHSC-1A	Borg Warner	854030:854030	---	---
Safety Injection Pump Heat Exchangers (2) AHSC-1B	Borg Warner	854030:854030	---	---
Residual Heat Removal Pump AHRHRP-1A Shaft Seal Heat Exchanger	Borg Warner	681N0276	---	---

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AS REQUIRED BY THE PROVISIONS OF THE ASME CODE RULES

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Residual Heat Removal Pump AHRHRP-1B Shaft Seal Heat Exchanger	Borg Warner	681N0276	---	---
Accumulator Tank ACC-1A	Wyatt	H-5645-69	U11397	---
Accumulator Tank ACC-1B	Wyatt	H-5644-69	U11398	---
Containment Spray Pump APCS-1A	Ingersoll Rand	0670-74	---	---
Containment Spray Pump APCS-1B	Ingersoll Rand	0670-75	---	---
Containment Spray Pump APCS-1A Gland Seal Cooler	Helliflow	49486938	---	---

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Containment Spray Pump APCS-1B Gland Seal Cooler	Helliflow	6080694
Main Steam Moisture Separator	Wright Austin	6230	X.R.	6008
Spent Fuel Pool Pump APSF-1A	Gould Pumps	786A519.1
Spent Fuel Pool Pump APSF-1B	Goulds Pumps	786A519.2
Auxiliary Feedwater Pump APFT Turbine Driven	Pacific Pump	46575

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Service Water Pump Strainer ASSW-1A1	S.P.Kinney Engineers	2278	---	---
Service Water Pump Strainer ASSW-1A2	S.P. Kinney Engineers	2279	---	---
Service Water Pump Strainer ASSW-1B1	S.P.Kinney Engineers	2280	---	---
Service Water Pump Strainer ASSW-1B2	S.P. Kinney Engineers	2281	---	---

FORM NIS-1 (Back)

8. Examination Dates March 11, 1998 to November 30, 1998
9. Inspection Period Identification 2nd
10. Inspection Interval Identification 3rd
11. Applicable Edition of Section XI 1989 Addenda None
12. Date/Revision of Inspection Plan March 24, 1997 Rev.1
13. Abstract of Examinations and Tests. Include a list of examinations and tests and a statement concerning status of work required for the Inspection Plan. Reference Tab C
14. Abstract of Results of Examinations and Tests. Reference Tab B and Tab F
15. Abstract of Corrective Measures. Reference Tab B and Tab F
Utilization of ASME Boiler and Pressure Vessel Code Section XI: Code Cases N-460 and N-491.

We certify that a) the statements made in this report are correct, b) the examinations and tests meet the Inspection Plan as required by the ASME Code, Section XI, and c) 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 January 12 19 99 Signed Wisconsin Public Service By [Signature]
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 WISCONSIN and employed by HARTFORD STEAM BOILER of HARTFORD CT. have inspected the components described in this Owner's Report during the period 3-11-98 to 11-30-98, and state that to the best of my knowledge and belief, the Owner has performed examinations and tests and taken corrective measures described in this Owner's Report in accordance with the Inspection Plan and as required by the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations, tests, 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] Commissions NB 7741 NIS 10024 I, N, IS, A
Inspector's Signature National Board, State, Province, and Endorsements
Date January 12 19 99

ATTACHMENT 2

Letter from M. L. Marchi (WPSC)

To

Document Control Desk (NRC)

Dated

February 12, 1999

FORM NIS-1 Owner's Report for Inservice Inspections

Class MC Components

FORM NIS-1 OWNER'S REPORT FOR INSERVICE INSPECTIONS
AS REQUIRED BY THE PROVISIONS OF THE ASME CODE RULES

1. OWNER - WISCONSIN PUBLIC SERVICE CORPORATION, 700 NORTH ADAMS,
P.O. BOX 19001, GREEN BAY, WISCONSIN 54307-9001
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<u>COMPONENT OR APPURTENANCE</u>	<u>MANUFACTURER OR INSTALLER</u>	<u>MANUFACTURER OR INSTALLER SERIAL NO.</u>	<u>STATE OR PROVINCE NO.</u>	<u>NATIONAL BOARD NO.</u>
Reactor Building Containment Vessel	Chicago Bridge and Iron Company	C4454	U11423	...
Personnel Airlock	Chicago Bridge and Iron Company	C4454	U11423	...

FORM NIS-1 (Back)

- 8. Examination Dates October 17, 1998 to November 27, 1998
- 9. Inspection Period Identification 1st
- 10. Inspection Interval Identification 1st
- 11. Applicable Edition of Section XI 1992 Addenda 1992
- 12. Date/Revision of Inspection Plan June 8, 1998 Rev.0
- 13. Abstract of Examinations and Tests. Include a list of examinations and tests and a statement concerning status of work required for the Inspection Plan. Reference Tab C
- 14. Abstract of Results of Examinations and Tests. Reference Tab B and Tab F
- 15. Abstract of Corrective Measures. Reference Tab B and Tab F

We certify that a) the statements made in this report are correct, b) the examinations and tests meet the Inspection Plan as required by the ASME Code, Section XI, and c) 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 January 12 19 99 Signed Wisconsin Public Service By [Signature]
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 WISCONSIN and employed by HARTFORD STEAM BOILER of HARTFORD CT. have inspected the components described in this Owner's Report during the period 10-17-98 to 11-27-98, and state that to the best of my knowledge and belief, the Owner has performed examinations and tests and taken corrective measures described in this Owner's Report in accordance with the Inspection Plan and as required by the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations, tests, 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] Commissions NB 7741 WIS 10024 I, N, IS, A
Inspector's Signature National Board, State, Province, and Endorsements
Date January 12 19 99

ATTACHMENT 3

Letter from M. L. Marchi (WPSC)

To

Document Control Desk (NRC)

Dated

February 12, 1999

FORM NIS-2 Owner's Report for Repair or Replacements (37 Total)

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Wisconsin Public Service Corp.

Date 11/24/98

700 North Adams P.O. Box 19001 Green Bay, WI 54307-9001

Sheet 1 of 2

2. Plant Kewaunee Nuclear Power Plant

Unit No. 1

N490 HWY 42 Kewaunee, WI 54216-9510

Work Request Number 207750

3. Work Performed By Wisconsin Public Service Corp.

Type Code Symbol Stamp NA

700 North Adams P.O. Box 19001 Green Bay, WI 54307-9001

Authorization No. NA

4. Identification of System 23 Class 2 CONTAINMENT SPRAY

Expiration Date NA

5. (a) Applicable Construction Code B16.5-1967

Code Case NA

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other ID	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped
RHR-400B	CRANE COMPANY	NA	NA	ICS006-006	1970	REPAIRED	N

7. Description of Work INSPECT FOR LEAKAGE ON 6" CONTAINMENT SPRAY VALVE RHR-400B.

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Exempt
Other Pressure 376 psi Test Temp. 351 deg. F

9. Remarks NOT APPLICABLE.

Applicable Manufacturer's Data Reports to be Attached

Date: 11/24/98

Name of Component: RHR-400B

Work Request Number: 207750

Certificate of Compliance

We certify that the statements made in the report are correct and this repaired conforms to the rules of the ASME Code Section XI.
repair or replacement

Type Code Symbol Stamp NA

Certificate of Authorization No. NA

Expiration Date NA

Signed

Phillip C. Burke *Plant Inservice
Inspection Analyst*
Owner or Owner's Designee, Title

Date January 4, 19 99

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 Wisconsin and employed by Hartford Steam Boiler Inspection and Ins. Co. of Hartford, CT have inspected the components described in this Owner's Report during the period 7-1-97 to 1-28-99, 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.

Roger Motwin
Inspector's Signature

Commissions NB7741, I, N, IS, A WIS 100024
National Board, State, Province, and Endorsements

Date January 20 19 99

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

- | | |
|---|-----------------------------------|
| 1. Owner <u>Wisconsin Public Service Corp.</u> | Date <u>09/18/98</u> |
| <u>700 North Adams P.O. Box 19001 Green Bay, WI 54307-9001</u> | Sheet <u>1</u> of <u>2</u> |
| 2. Plant <u>Kewaunee Nuclear Power Plant</u> | Unit <u>No. 1</u> |
| <u>N490 HWY 42 Kewaunee WI 54216-9510</u> | Work Request Number <u>210559</u> |
| 3. Work Performed By <u>Wisconsin Public Service Corp.</u> | Type Code Symbol Stamp <u>NA</u> |
| <u>700 North Adams P.O. Box 19001 Green Bay, WI 54307-9001</u> | Authorization No. <u>NA</u> |
| 4. Identification of System <u>34</u> Class 2 <u>RESIDUAL HEAT REMOVAL</u> | Expiration Date <u>NA</u> |
| 5. (a) Applicable Construction Code <u>B31.1-1967</u> | Code Case <u>NA</u> |
| (b) Applicable Edition of Section XI Utilized for Repairs or Replacements <u>1989</u> | |
| 6. Identification of Components Repaired or Replaced and Replacement Components | |

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other ID	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped
RHR-100B	CRANE VALVE CO.	NF	NA	AC010-008	1972	REPAIRED	N

7. Description of Work REPAIR CLASS 2 RESIDUAL HEAT REMOVAL SYSTEM 8" VALVE RHR-100B DUE TO BEING HARD TO OPERATE.
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Exempt
- Other Pressure 480 psi Test Temp. 278.5 deg. F
9. Remarks NOT APPLICABLE.

Applicable Manufacturer's Data Reports to be Attached

Date: 09/18/98

Name of Component: RHR-100B

Work Request Number: 210559

Certificate of Compliance

We certify that the statements made in the report are correct and this repaired conforms to the rules of the ASME Code Section XI.
repair or replacement

Type Code Symbol Stamp NA

Certificate of Authorization No. NA Expiration Date NA

Signed Phillip C. Butek Plant Inservice Inspection Analyst Date January 4, 19 99
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 Wisconsin and employed by Hartford Steam Boiler Inspection and Ins. Co. of Hartford, CT have inspected the components described in this Owner's Report during the period 7-1-97 to 1-20-99, 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.

Boya Matusin
Inspector's Signature

Commissions NB7741, I, N, IS, A WIS 100024
National Board, State, Province, and Endorsements

Date January 20 19 99

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

- | | |
|---|-----------------------------------|
| 1. Owner <u>Wisconsin Public Service Corp.</u> | Date <u>12/15/98</u> |
| <u>700 North Adams P.O. Box 19001 Green Bay, WI 54307-9001</u> | Sheet <u>1</u> of <u>2</u> |
| 2. Plant <u>Kewaunee Nuclear Power Plant</u> | Unit <u>No. 1</u> |
| <u>N490 HWY 42 Kewaunee, WI 54216-9510</u> | Work Request Number <u>210704</u> |
| 3. Work Performed By <u>Wisconsin Public Service Corp.</u> | Type Code Symbol Stamp <u>NA</u> |
| <u>700 North Adams P.O. Box 19001 Green Bay, WI 54307-9001</u> | Authorization No. <u>NA</u> |
| 4. Identification of System <u>35</u> Class 2 <u>CHEMICAL AND VOLUME CONTROL</u> | Expiration Date <u>NA</u> |
| 5. (a) Applicable Construction Code <u>B16.5-1967</u> | Code Case <u>NA</u> |
| (b) Applicable Edition of Section XI Utilized for Repairs or Replacements <u>1989</u> | |
| 6. Identification of Components Repaired or Replaced and Replacement Components | |

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other ID	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped
CVC-212	ALOYCO, INC.	70 A 636 8	NA	CS030-001	1970	REPAIRED	N

7. Description of Work REPAIR CLASS 2 CHEMICAL AND VOLUME CONTROL SYSTEM 3" VALVE CVC-212.
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Exempt
- Other Pressure 34 psi Test Temp. 108 deg. F
9. Remarks NOT APPLICABLE.

Applicable Manufacturer's Data Reports to be Attached

NIS-2 (Back)

Sheet 2 of 2

Date: 12/15/98

Name of Component: CVC-212

Work Request Number: 210704

Certificate of Compliance

We certify that the statements made in the report are correct and this repaired conforms to the rules of the ASME Code Section XI.
repair or replacement

Type Code Symbol Stamp NA

Certificate of Authorization No. NA

Expiration Date NA

Signed

Phillip C. Butera *Plant Inservice Inspection Analyst*
Owner or Owner's Designee, Title

Date

January 4, 19 99

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 Wisconsin and employed by Hartford Steam Boiler Inspection and Ins. Co. of Hartford, CT have inspected the components described in this Owner's Report during the period 7-1-97 to 1-20-99, 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.

Roger Triguera
Inspector's Signature

Commissions

NB7741, I, N, IS, A WIS 100024

National Board, State, Province, and Endorsements

Date

January 20 19 99

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Wisconsin Public Service Corp.

Date 09/25/97

700 North Adams P.O. Box 19001 Green Bay, WI 54307-9001

Sheet 1 of 2

2. Plant Kewaunee Nuclear Power Plant

Unit No. 1

N490 HWY 42 Kewaunee, WI 54216-9510

Work Request Number 210803

3. Work Performed By Wisconsin Public Service Corp.

Type Code Symbol Stamp NA

700 North Adams P.O. Box 19001 Green Bay, WI 54307-9001

Authorization No. NA

4. Identification of System 35 Class 2 CHEMICAL AND VOLUME CONTROL

Expiration Date NA

5. (a) Applicable Construction Code NA

Code Case NA

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other ID	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamp
APCH-1B	AJAX IRON WORKS	6576	NA	00076	1967	REPAIRED	N

7. Description of Work REPAIR EXCESSIVE SEAL LEAKOFF ON CLASS 2 CHEMICAL AND VOLUME CONTROL SYSTEM CHARGING PUMP 1B.

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Exempt

Other Pressure 2240 psi Test Temp. 96 deg. F

9. Remarks NOT APPLICABLE.

Applicable Manufacturer's Data Reports to be Attached

NIS-2 (Back)
Sheet 2 of 2

Date: 09/25/97

Name of Component: APCH-1B

Work Request Number: 210803

Certificate of Compliance

We certify that the statements made in the report are correct and this repaired conforms to the rules of the ASME Code Section XI.
repair or replacement

Type Code Symbol Stamp NA

Certificate of Authorization No. NA

Expiration Date NA

Signed Phillip C. Bueck Plant Inservice Inspection Analyst
Owner or Owner's Designee, Title

Date January 4, 19 99

Certificate of INSERVICE INSPECTION

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Loyn Motzner
Inspector's Signature

Commissions NB7741, I, N, IS, A WIS 100024
National Board, State, Province, and Endorsements

Date January 20 19 99

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Wisconsin Public Service Corp. Date 07/24/97
700 North Adams P.O. Box 19001 Green Bay, WI 54307-9001 Sheet 1 of 2
2. Plant Kewaunee Nuclear Power Plant Unit No. 1
N490 HWY 42 Kewaunee, WI 54216-9510 Work Request Number 211518
3. Work Performed By Wisconsin Public Service Corp. Type Code Symbol Stamp NA
700 North Adams P.O. Box 19001 Green Bay, WI 54307-9001 Authorization No. NA
4. Identification of System 35 Class 2 CHEMICAL AND VOLUME CONTROL Expiration Date NA
5. (a) Applicable Construction Code B16.5-1967 Code Case NA
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other ID	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamp
CVC-212	ALOYCO, INC.	70 A 636 8	NA	CS030-001	1970	REPAIRED	N

7. Description of Work REPAIR DISC AND SEAT ON CLASS 2 CHEMICAL AND VOLUME CONTROL SYSTEM 3" VALVE CVC-212.
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Exempt
 Other Pressure 34 psi Test Temp. 145 deg. F
9. Remarks NOT APPLICABLE.

Applicable Manufacturer's Data Reports to be Attached

Date: 07/24/97

Name of Component: CVC-212

Work Request Number: 211518

Certificate of Compliance

We certify that the statements made in the report are correct and this repaired conforms to the rules of the ASME Code Section XI.
repair or replacement

Type Code Symbol Stamp NA

Certificate of Authorization No. NA

Expiration Date NA

Signed

Phillip C. Burke *Plant Inservice
Inspection Analyst*
Owner or Owner's Designee, Title

Date January 4, 19 99

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 Wisconsin and employed by Hartford Steam Boiler Inspection and Ins. Co. of Hartford, CT have inspected the components described in this Owner's Report during the period 7-1-97 to 1-20-99, 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.

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Roger Mitgani
Inspector's Signature

Commissions NB7741, I, N, IS, A WIS 100024
National Board, State, Province, and Endorsements

Date January 20 19 99

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Wisconsin Public Service Corp. Date 12/15/98
700 North Adams P.O. Box 19001 Green Bay, WI 54307-9001 Sheet 1 of 2
2. Plant Kewaunee Nuclear Power Plant Unit No. 1
N490 HWY 42 Kewaunee, WI 54216-9510 Work Request Number 212409
3. Work Performed By Wisconsin Public Service Corp. Type Code Symbol Stamp NA
700 North Adams P.O. Box 19001 Green Bay, WI 54307-9001 Authorization No. NA
4. Identification of System 33 Class 2 SAFETY INJECTION Expiration Date NA
5. (a) Applicable Construction Code B16.5-1967 Code Case NA
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other ID	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped
SI-8A	VELAN VALVE CORPORATION	NF	NA	SI014-001	1967	REPAIRED	N

7. Description of Work OPEN CLASS 2 SAFETY INJECTION SYSTEM 3" VALVE SI-8A FOR INSPECTION AND REPAIR.

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Exempt
 Other Pressure 2160 psi Test Temp. 65 deg. F

9. Remarks NOT APPLICABLE.

Applicable Manufacturer's Data Reports to be Attached

Date: 12/15/98

Name of Component: SI-8A

Work Request Number: 212409

Certificate of Compliance

We certify that the statements made in the report are correct and this repaired conforms to the rules of the ASME Code Section XI.
repair or replacement

Type Code Symbol Stamp NA

Certificate of Authorization No. NA Expiration Date NA

Signed Phillip C. Butera Plant Insurance
Inspection Analyst Date January 4, 19 99
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 Wisconsin and employed by Hartford Steam Boiler Inspection and Ins. Co. of Hartford, CT have inspected the components described in this Owner's Report during the period 7-1-97 to 1-20-99, 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.

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Roger Triguero
Inspector's Signature

Commissions NB7741, I, N, IS, A WIS 100024
National Board, State, Province, and Endorsements

Date January 20 19 99

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Wisconsin Public Service Corp. Date 10/22/97
700 North Adams P.O. Box 19001 Green Bay, WI 54307-9001 Sheet 1 of 2
2. Plant Kewaunee Nuclear Power Plant Unit No. 1
N490 HWY 42 Kewaunee, WI 54216-9510 Work Request Number 212483
3. Work Performed By Wisconsin Public Service Corp. Type Code Symbol Stamp NA
700 North Adams P.O. Box 19001 Green Bay, WI 54307-9001 Authorization No. NA
4. Identification of System 35 Class 2 CHEMICAL AND VOLUME CONTROL Expiration Date NA
5. (a) Applicable Construction Code SEC.III CL2-1980 ADD Code Case NA
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other ID	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped
APSS-1A	GREER HYDRAULICS	GH1-10234	568	162-935	1981	REPAIRED	Y

7. Description of Work REPAIR CLASS 2 CHEMICAL AND VOLUME CONTROL SYSTEM CHARGING PUMP 1A SUCTION STABILIZER DUE TO NOISE IN THE STABILIZER.
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Exempt
 Other Pressure 30 psi Test Temp. 75 deg. F
9. Remarks NOT APPLICABLE.

Applicable Manufacturer's Data Reports to be Attached

NIS-2 (Back)

Sheet 2 of 2

Date: 10/22/97

Name of Component: APSS-1A

Work Request Number: 212483

Certificate of Compliance

We certify that the statements made in the report are correct and this repaired conforms to the rules of the ASME Code Section XI.
repair or replacement

Type Code Symbol Stamp NA

Certificate of Authorization No. NA

Expiration Date NA

Signed

Phillip C. Bukec Plant Inservice
Inspection Analyst
Owner or Owner's Designee, Title

Date January 4, 19 99

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 Wisconsin and employed by Hartford Steam Boiler Inspection and Ins. Co. of Hartford, CT have inspected the components described in this Owner's Report during the period 7-1-97 to 1-20-99, 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.

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Roger Myer
Inspector's Signature

Commissions NB7741, I, N, IS, A WIS 100024
National Board, State, Province, and Endorsements

Date January 20 19 99

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Wisconsin Public Service Corp.

Date 10/24/97

700 North Adams P.O. Box 19001 Green Bay, WI 54307-9001

Sheet 1 of 2

2. Plant Kewaunee Nuclear Power Plant

Unit No. 1

N490 HWY 42 Kewaunee, WI 54216-9510

Work Request Number 212878

3. Work Performed By Wisconsin Public Service Corp.

Type Code Symbol Stamp NA

700 North Adams P.O. Box 19001 Green Bay, WI 54307-9001

Authorization No. NA

4. Identification of System 35 Class 2 CHEMICAL AND VOLUME CONTROL

Expiration Date NA

5. (a) Applicable Construction Code SEC.III-CL2 1980 ADD

Code Case NA

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other ID	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped
APSS-1B	GREER HYDRAULICS	GH1-10235	569	162-936	1981	REPAIRED	Y

7. Description of Work REPAIR CLASS 2 CHEMICAL AND VOLUME CONTROL SYSTEM CHARGING PUMP 1B SUCTION STABILIZER DUE TO A CLICKING NOISE.

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Exempt
Other Pressure 30 psi Test Temp. 115 deg. F

9. Remarks NOT APPLICABLE.

Applicable Manufacturer's Data Reports to be Attached

NIS-2 (Back)
Sheet 2 of 2

Date: 10/24/97

Name of Component: APSS-1B

Work Request Number: 212878

Certificate of Compliance

We certify that the statements made in the report are correct and this repaired conforms to the rules of the ASME Code Section XI.
repair or replacement

Type Code Symbol Stamp NA

Certificate of Authorization No. NA Expiration Date NA

Signed Phillip C. Bukacinski ^{Plant Inspector} Date January 4, 19 99
Inspector 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 Wisconsin and employed by Hartford Steam Boiler Inspection and Ins. Co. of Hartford, CT have inspected the components described in this Owner's Report during the period 7-1-97 to 1-20-99, 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.

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Royce M. M... ..
Inspector's Signature

Commissions NB7741, I, N, IS, A WIS 100024
National Board, State, Province, and Endorsements

Date January 20 19 99

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Wisconsin Public Service Corp. Date 03/17/98
700 North Adams P.O. Box 19001 Green Bay, WI 54307-9001 Sheet 1 of 2
2. Plant Kewaunee Nuclear Power Plant Unit No. 1
N490 HWY 42 Kewaunee, WI 54216-9510 Work Request Number 213477
3. Work Performed By Wisconsin Public Service Corp. Type Code Symbol Stamp NA
700 North Adams P.O. Box 19001 Green Bay, WI 54307-9001 Authorization No. NA
4. Identification of System 35 Class 2 CHEMICAL AND VOLUME CONTROL Expiration Date NA
5. (a) Applicable Construction Code NA Code Case NA
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other ID	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped
APCH-1A	AJAX IRON WORKS	6578	NA	00075	1967	REPAIRED	N

7. Description of Work REPAIR CLASS 2 CHEMICAL AND VOLUME CONTROL SYSTEM CHARGING PUMP 1A (SUCTION VALVE OF PUMP).
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Exempt
 Other Pressure 26 psi Test Temp. 101 deg. F
9. Remarks NOT APPLICABLE

Applicable Manufacturer's Data Reports to be Attached

Date: 03/17/98

Name of Component: APCH-1A

Work Request Number: 213477

Certificate of Compliance

We certify that the statements made in the report are correct and this repaired conforms to the rules of the ASME Code Section XI.
repair or replacement

Type Code Symbol Stamp NA

Certificate of Authorization No. NA

Expiration Date NA

Signed

Phillip C. Burkea
Plant Inservuce
Inspection Analyst
Owner or Owner's Designee, Title

Date

January 4, 19 99

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 Wisconsin and employed by Hartford Steam Boiler Inspection and Ins. Co. of Hartford, CT have inspected the components described in this Owner's Report during the period 7-1-97 to 1-20-99, 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.

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Roger M. Zygmunt
Inspector's Signature

Commissions NB7741, I, N, IS, A WIS 100024
National Board, State, Province, and Endorsements

Date January 20 19 99

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Wisconsin Public Service Corp.

Date 03/17/98

700 North Adams P.O. Box 19001 Green Bay, WI 54307-9001

Sheet 1 of 2

2. Plant Kewaunee Nuclear Power Plant

Unit No. 1

N490 HWY 42 Kewaunee, WI 54216-9510

Work Request Number 213612

3. Work Performed By Wisconsin Public Service Corp.

Type Code Symbol Stamp NA

700 North Adams P.O. Box 19001 Green Bay, WI 54307-9001

Authorization No. NA

4. Identification of System 89A Class MC BUILDINGS - STRUCTURES

Expiration Date NA

5. (a) Applicable Construction Code SEC. III-CL.B-1965W

Code Case NA

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1992 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other ID	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped
PERSN. AIRLOCK	CHICAGO BRIDGE AND IRON COMPANY	C4454	NA	1S-0002	1969	REPLACEMENT	N

7. Description of Work ADJUSTED LINKAGE AND REPLACED SEALS ON CLASS MC PERSONNEL AIRLOCK.

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Exempt
Other Pressure 12 psi Test Temp. deg. F

9. Remarks NOT APPLICABLE

Applicable Manufacturer's Data Reports to be Attached

NIS-2 (Back)

Sheet 2 of 2

Date: 03/17/98

Name of Component: PERSN. AIRLOCK

Work Request Number: 213612

Certificate of Compliance

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code Section XI. repair or replacement

Type Code Symbol Stamp NA

Certificate of Authorization No. NA

Expiration Date NA

Signed

Phillip C. Buker *Plant Inservice Inspection Analyst*
Owner or Owner's Designee, Title

Date

January 4 19 99

Certificate of INSERVICE INSPECTION

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Roger Motymer
Inspector's Signature

Commissions NB7741, I, N, IS, A WIS 100024
National Board, State, Province, and Endorsements

Date

January 20 19 99

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Wisconsin Public Service Corp. Date 03/24/98
700 North Adams P.O. Box 19001 Green Bay, WI 54307-9001 Sheet 1 of 2
2. Plant Kewaunee Nuclear Power Plant Unit No. 1
N490 HWY 42 Kewaunee, WI 54216-9510 Work Request Number 213785
3. Work Performed By Wisconsin Public Service Corp. Type Code Symbol Stamp NA
700 North Adams P.O. Box 19001 Green Bay, WI 54307-9001 Authorization No. NA
4. Identification of System 35 Class 2 CHEMICAL AND VOLUME CONTROL Expiration Date NA
5. (a) Applicable Construction Code SEC.III CL2-1980 ADD Code Case NA
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other ID	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped
APSS-1A	GREER HYDRAULICS	GH1-10234	568	162-935	1981	REPAIRED	Y

7. Description of Work REPAIR CLASS 2 CHEMICAL AND VOLUME CONTROL SYSTEM CHARGING PUMP 1A SUCTION STABILIZER DUE TO CLICKING NOISE.
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Exempt
 Other Pressure 28.7 psi Test Temp. 115 deg. F
9. Remarks NOT APPLICABLE.

Applicable Manufacturer's Data Reports to be Attached

Date: 03/24/98

Name of Component: APSS-1A

Work Request Number: 213785

Certificate of Compliance

We certify that the statements made in the report are correct and this repaired conforms to the rules of the ASME Code Section XI.
repair or replacement

Type Code Symbol Stamp NA

Certificate of Authorization No. NA

Expiration Date NA

Signed

Phillip C. Bukes *Plant Inservive Inspection Analyst*
Owner or Owner's Designee, Title

Date January 4, 19 99

Certificate of INSERVICE INSPECTION

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Roger Metzger
Inspector's Signature

Commissions NB7741, I, N, IS, A WIS 100024
National Board, State, Province, and Endorsements

Date January 20 19 99

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Wisconsin Public Service Corp.

Date 11/13/98

700 North Adams P.O. Box 19001 Green Bay, WI 54307-9001

Sheet 1 of 2

2. Plant Kewaunee Nuclear Power Plant

Unit No. 1

N490 HWY 42 Kewaunee, WI 54216-9510

Work Request Number 214001

3. Work Performed By Wisconsin Public Service Corp.

Type Code Symbol Stamp NA

700 North Adams P.O. Box 19001 Green Bay WI 54307-9001

Authorization No. NA

4. Identification of System 05B Class 2 AUXILIARY FEEDWATER

Expiration Date NA

5. (a) Applicable Construction Code B31.1-1967

Code Case NA

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1969

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other ID	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped
AFW-4B	WILLIAM POWELL CO.	NF	NA	F015-002	1972	REPAIRED	N

7. Description of Work OPEN FOR INSPECTION CLASS 2 AUXILIARY FEEDWATER SYSTEM 3" VALVE AFW-4B.

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Exempt
Other Pressure 1010 psi Test Temp. 547 deg. F

9. Remarks NOT APPLICABLE.

Applicable Manufacturer's Data Reports to be Attached

NIS-2 (Back)

Sheet 2 of 2

Date: 11/13/98

Name of Component: AFW-4B

Work Request Number: 214001

Certificate of Compliance

We certify that the statements made in the report are correct and this repaired conforms to the rules of the ASME Code Section XI.
repair or replacement

Type Code Symbol Stamp NA

Certificate of Authorization No. NA

Expiration Date NA

Signed Phillip C. Bukas *Plant Inspector*
Inspection Analyst
Owner or Owner's Designee, Title

Date January 4, 19 99

Certificate of INSERVICE INSPECTION

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Roger M. Quinn
Inspector's Signature

Commissions NB7741, I, N, IS, A WIS 100024
National Board, State, Province, and Endorsements

Date January 20 19 99

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Wisconsin Public Service Corp. Date 06/11/98
700 North Adams P.O. Bcx 19001 Green Bay, WI 54307-9001 Sheet 1 of 2
2. Plant Kewaunee Nuclear Power Plant Unit No. 1
N490 HWY 42 Kewaunee, WI 54216-9510 Work Request Number 214036
3. Work Performed By Wisconsin Public Service Corp. Type Code Symbol Stamp NA
700 North Adams P.O. Box 19001 Green Bay, WI 54307-9001 Authorization No. NA
4. Identification of System 35 Class 2 CHEMICAL AND VOLUME CONTROL Expiration Date NA
5. (a) Applicable Construction Code SEC.III-CL2 1980 ADD Code Case NA
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other ID	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped
APSS-1B	GREER HYDRAULICS	GH1-10235	569	162-936	1981	REPAIRED	Y

7. Description of Work REPAIR CLASS 2 CHEMICAL AND VOLUME CONTROL SYSTEM CHARGING PUMP 1B SUCTION STABILIZER DUE TO NOISE IN SUCTION STABILIZER.
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Exempt
 Other Pressure 26.5 psi Test Temp. 115 deg. F
9. Remarks NOT APPLICABLE.

Applicable Manufacturer's Data Reports to be Attached

Date: 06/11/98

Name of Component: APSS-1B

Work Request Number: 214036

Certificate of Compliance

We certify that the statements made in the report are correct and this repaired conforms to the rules of the ASME Code Section XI.
repair or replacement

Type Code Symbol Stamp NA

Certificate of Authorization No. NA Expiration Date NA

Signed Phillip C. Burke Plant Insurance
Inspection Analyst Date January 4, 19 99
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 Wisconsin and employed by Hartford Steam Boiler Inspection and Ins. Co. of Hartford, CT have inspected the components described in this Owner's Report during the period 7-1-97 to 1-20-99, 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.

Ray Metzner Commissions NB7741, I, N, IS, A WIS 100024
Inspector's Signature National Board, State, Province, and Endorsements

Date January 20 19 99

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Wisconsin Public Service Corp. Date 11/24/98
700 North Adams P.O. Box 19001 Green Bay, WI 54307-9001 Sheet 1 of 2
2. Plant Kewaunee Nuclear Power Plant Unit No. 1
N490 HWY 42 Kewaunee, WI 54216-9510 Work Request Number 214273
3. Work Performed By Wisconsin Public Service Corp. Type Code Symbol Stamp NA
700 North Adams P.O. Box 19001 Green Bay, WI 54307-9001 Authorization No. NA
4. Identification of System 35 Class 2 CHEMICAL AND VOLUME CONTROL Expiration Date NA
5. (a) Applicable Construction Code B31.1-1967 Code Case NA
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other ID	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped
CVC-4B	GRINNELL FIRE PROTECTION SYSTEMS CO.	NF	NA	CS033-006	1973	REPAIRED	N

7. Description of Work REBUILD AND LUBE CLASS 2 CHEMICAL AND VOLUME CONTROL SYSTEM 3" VALVE CVC-4B.
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Exempt
 Other Pressure 25 psi Test Temp. 84 deg. F
9. Remarks NOT APPLICABLE.

Applicable Manufacturer's Data Reports to be Attached

Date: 11/24/98

Name of Component: CVC-4B

Work Request Number: 214273

Certificate of Compliance

We certify that the statements made in the report are correct and this repaired conforms to the rules of the repair or replacement ASME Code Section XI.

Type Code Symbol Stamp NA

Certificate of Authorization No. NA Expiration Date NA

Signed Phillip C. Bikes Plant Inspector Date January 4, 19 99
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 Wisconsin and employed by Hartford Steam Boiler Inspection and Ins. Co. of Hartford, CT have inspected the components described in this Owner's Report during the period 7-1-97 to 1-20-99, 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.

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Ray Matzner Commissions NB7741, I, N, IS, A WIS 100024
Inspector's Signature National Board, State, Province, and Endorsements
Date January 20 19 99

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Wisconsin Public Service Corp. Date 12/15/98
700 North Adams P.O. Box 19001 Green Bay, WI 54307-9001 Sheet 1 of 2
2. Plant Kewaunee Nuclear Power Plant Unit No. 1
N490 HWY 42 Kewaunee, WI 54216-9510 Work Request Number 214412
3. Work Performed By Wisconsin Public Service Corp. Type Code Symbol Stamp NA
700 North Adams P.O. Box 19001 Green Bay, WI 54307-9001 Authorization No. NA
4. Identification of System 07 Class 2 STEAM GENERATOR BLOWDOWN T Expiration Date NA
5. (a) Applicable Construction Code B31.1-1996 Code Case N416-1
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other ID	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped
BT-2A-1	EDWARDS VALVES INC.	NF	NA	SD041-008	1998	REPLACEMENT	N

7. Description of Work INSTALL 3/4" BY PASS CHECK VALVE BT-2A-1 AND 2", 3/4" AND 3/8" PIPING AROUND CLASS 2 AUXILIARY STEAM AND STEAM DUMP SYSTEM 2" BLOWDOWN ISOLATION VALVE BT-2A.
8. Tests Conducted: Hydraulic Pneumatic Nominal Operating Pressure Exempt
 Other Pressure 2246 psi Test Temp. 549 deg. F
9. Remarks UTILIZATION OF ASME BOILER AND PRESSURE VESSEL CODE SECTION XI CODE CASE N-416-1 (PER NRC APPROVAL OF RELIEF REQUEST RR-G-3).

Applicable Manufacturer's Data Reports to be Attached

NIS-2 (Back)

Sheet 2 of 2

Date: 12/15/98

Name of Component: BT-2A-1

Work Request Number: 214412

Certificate of Compliance

We certify that the statements made in the report are correct and this replacement conforms to the rules of the repair or replacement ASME Code Section XI.

Type Code Symbol Stamp NA

Certificate of Authorization No. NA Expiration Date NA

Signed Phillip C. Burkea Plant Inservice
Inspection Analyst Date January 4, 19 99
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 Wisconsin and employed by Hartford Steam Boiler Inspection and Ins. Co. of Hartford, CT have inspected the components described in this Owner's Report during the period 7-1-97 to 1-20-99, 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.

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Ray Metz
Inspector's Signature

Commissions NB7741, I, N, IS, A WIS 100024
National Board, State, Province, and Endorsements

Date January 20 19 99

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Wisconsin Public Service Corp. Date 12/15/98
700 North Adams P.O. Box 19001 Green Bay, WI 54307-9001 Sheet 1 of 2
2. Plant Kewaunee Nuclear Power Plant Unit No. 1
N490 HWY 42 Kewaunee, WI 54216-9510 Work Request Number 214414
3. Work Performed By Wisconsin Public Service Corp. Type Code Symbol Stamp NA
700 North Adams P.O. Box 19001 Green Bay, WI 54307-9001 Authorization No. NA
4. Identification of System 07 Class 2 STEAM GENERATOR BLOWDOWN T Expiration Date NA
5. (a) Applicable Construction Code B31.1-1996 Code Case N-416-1
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other ID	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped
BT-2B-1	EDWARDS VALVES INC.	NF	NA	SD041-009	1998	REPLACEMENT	N

7. Description of Work INSTALL 3/4" BY PASS CHECK VALVE BT-2B-1 AND 2" 3/4" AND 3/8" PIPING AROUND CLASS 2 AUXILIARY STEAM AND STEAM DUMP SYSTEM 2" BLOWDOWN ISOLATION VALVE BT-2B.
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Exempt
 Other Pressure 2246 psi Test Temp. 549 deg. F
9. Remarks UTILIZATION OF ASME BOILER AND PRESSURE VESSEL CODE SECTION XI CODE CASE N-416-1 (PER NRC APPROVAL OF RELIEF REQUEST RR-G-3).

Applicable Manufacturer's Data Reports to be Attached

Date: 12/15/98

Name of Component: BT-2B-1

Work Request Number: 214414

Certificate of Compliance

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code Section XI.
repair or replacement

Type Code Symbol Stamp NA

Certificate of Authorization No. NA

Expiration Date NA

Signed Phillip C. Burke Plant Inspector
Inspection Analyst
Owner or Owner's Designee, Title

Date January 4, 19 99

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 Wisconsin and employed by Hartford Steam Boiler Inspection and Ins. Co. of Hartford, CT have inspected the components described in this Owner's Report during the period 7-1-97 to 1-20-99, 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.

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Roger Metzner
Inspector's Signature

Commissions NB7741, I, N, IS, A WIS 100024
National Board, State, Province, and Endorsements

Date January 20 19 99

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Wisconsin Public Service Corp. Date 11/28/98
700 North Adams P.O. Box 19001 Green Bay, WI 54307-9001 Sheet 1 of 2
2. Plant Kewaunee Nuclear Power Plant Unit No. 1
N490 HWY 42 Kewaunee, WI 54216-9510 Work Request Number 214573
3. Work Performed By Wisconsin Public Service Corp. Type Code Symbol Stamp NA
700 North Adams P.O. Box 19001 Green Bay, WI 54307-9001 Authorization No. NA
4. Identification of System 35 Class 2 CHEMICAL AND VOLUME CONTROL Expiration Date NA
5. (a) Applicable Construction Code ASME III CLASS C Code Case NA
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other ID	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped
AHLD (CLASS 2)	ATLAS	1206	1031	00060	1970	REPLACEMENT	Y

7. Description of Work OPEN CLASS 2 CHEMICAL AND VOLUME CONTROL SYSTEM LETDOWN HEAT EXCHANGER TO REPLACE TUBE BUNDLE/TUBSHEET ASSEMBLY.
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Exempt
 Other Pressure 480 psi Test Temp. 67 deg. F
9. Remarks NOT APPLICABLE

Applicable Manufacturer's Data Reports to be Attached

Date: 11/28/98

Name of Component: AHLD (CLASS 2)

Work Request Number: 214573

Certificate of Compliance

We certify that the statements made in the report are correct and this replacement conforms to the rules of the repair or replacement ASME Code Section XI.

Type Code Symbol Stamp NA

Certificate of Authorization No. NA Expiration Date NA

Signed Phillip C. Bukacinski Plant Inservice Inspection Analyst Date January 4 19 99
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 Wisconsin and employed by Hartford Steam Boiler Inspection and Ins. Co. of Hartford, CT have inspected the components described in this Owner's Report during the period 7-1-97 to 1-20-99, 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.

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Roger W. Wynn Commissions NB7741, I, N, IS, A WIS 100024
Inspector's Signature National Board, State, Province, and Endorsements

Date January 20 19 99

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Wisconsin Public Service Corp.

Date 11/23/98

700 North Adams P.O. Box 19001 Green Bay, WI 54307-9001

Sheet 1 of 2

2. Plant Kewaunee Nuclear Power Plant

Unit No. 1

N490 HWY 42 Kewaunee, WI 54216-9510

Work Request Number 214641

3. Work Performed By Wisconsin Public Service Corp.

Type Code Symbol Stamp NA

700 North Adams P.O. Box 19001 Green Bay, WI 54307-9001

Authorization No. NA

4. Identification of System 23 Class 2 CONTAINMENT SPRAY

Expiration Date NA

5. (a) Applicable Construction Code B16.5-1967

Code Case NA

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other ID	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped
ICS-6A	CRANE VALVE COMPAN	NF	NA	ICS006-002	1970	REPAIRED	N

7. Description of Work DISASSEMBLE, INSPECT AND REPAIR CLASS 2 INTERNAL CONTAINMENT SPRAY SYSTEM 6" VALVE ICS-6A.

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Exempt

Other Pressure 280 psi Test Temp. 77 deg. F

9. Remarks NOT APPLICABLE.

Applicable Manufacturer's Data Reports to be Attached

NIS-2 (Back)
Sheet 2 of 2

Date: 11/23/98

Name of Component: ICS-6A

Work Request Number: 214641

Certificate of Compliance

We certify that the statements made in the report are correct and this repaired conforms to the rules of the ASME Code Section XI.
repair or replacement

Type Code Symbol Stamp NA

Certificate of Authorization No. NA

Expiration Date NA

Signed

Phillip C. Beker *Plant Inservic Inspection Analyst*
Owner or Owner's Designee, Title

Date January 4, 19 99

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 Wisconsin and employed by Hartford Steam Boiler Inspection and Ins. Co. of Hartford, CT have inspected the components described in this Owner's Report during the period 7-1-97 to 1-20-99, 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.

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Roger McGinnis
Inspector's Signature

Commissions NB7741, I, N, IS, A WIS 100024
National Board, State, Province, and Endorsements

Date January 20 19 99

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Wisconsin Public Service Corp. Date 11/23/98
700 North Adams P.O. Box 19001 Green Bay, WI 54307-9001 Sheet 1 of 2
2. Plant Kewaunee Nuclear Power Plant Unit No. 1
N490 HWY 42 Kewaunee WI 54216-9510 Work Request Number 214642
3. Work Performed By Wisconsin Public Service Corp. Type Code Symbol Stamp NA
700 North Adams P.O. Box 19001 Green Bay, WI 54307-9001 Authorization No. NA
4. Identification of System 23 Class 2 CONTAINMENT SPRAY Expiration Date NA
5. (a) Applicable Construction Code B16.5-1967 Code Case NA
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other ID	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped
ICS-5A	CRANE VALVE COMPAN	NF	NA	ICS006-001	1970	REPAIRED	N

7. Description of Work DISASSEMBLE , INSPECT AND REPAIR CLASS 2 INTERNAL CONTAINMENT SPRAY SYSTEM 6" VALVE ICS-5A.
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Exempt
 Other Pressure 280 psi Test Temp. 77 deg. F
9. Remarks NOT APPLICABLE.

Applicable Manufacturer's Data Reports to be Attached

Date: 11/23/98

Name of Component: ICS-5A

Work Request Number: 214642

Certificate of Compliance

We certify that the statements made in the report are correct and this repaired conforms to the rules of the ASME Code Section XI.
repair or replacement

Type Code Symbol Stamp NA

Certificate of Authorization No. NA Expiration Date NA

Signed Phillip C. Bukacinski Plant Inservice Inspection Analyst Date January 4, 19 99
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 Wisconsin and employed by Hartford Steam Boiler Inspection and Ins. Co. of Hartford, CT have inspected the components described in this Owner's Report during the period 7-1-97 to 1-20-99 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.

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Loza M...
Inspector's Signature

Commissions NB7741, I, N, IS, A WIS 100024
National Board, State, Province, and Endorsements

Date January 30 19 99

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Wisconsin Public Service Corp. Date 11/18/98
700 North Adams P.O. Box 19001 Green Bay, WI 54307-9001 Sheet 1 of 2
2. Plant Kewaunee Nuclear Power Plant Unit No. 1
N490 HWY 42 Kewaunee, WI 54216-9510 Work Request Number 215134
3. Work Performed By Wisconsin Public Service Corp. Type Code Symbol Stamp NA
700 North Adams P.O. Box 19001 Green Bay, WI 54307-9001 Authorization No. NA
4. Identification of System 35 Class 2 CHEMICAL AND VOLUME CONTROL Expiration Date NA
5. (a) Applicable Construction Code B31.1-1967 Code Case NA
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989
8. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other ID	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped
CVC-4A	GRINNELL FIRE PROTECTION SYSTEMS CO.	NF	NA	CS033-007	1973	REPAIRED	N

7. Description of Work INSPECT AND REPAIR CLASS 2 CHEMICAL AND VOLUME CONTROL SYSTEM 3" VALVE CVC-4A.

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Exempt
 Other Pressure 18 psi Test Temp. 68 deg. F

9. Remarks NOT APPLICABLE.

Applicable Manufacturer's Data Reports to be Attached

Date: 11/18/98

Name of Component: CVC-4A

Work Request Number: 215134

Certificate of Compliance

We certify that the statements made in the report are correct and this repaired conforms to the rules of the ASME Code Section XI.
repair or replacement

Type Code Symbol Stamp NA

Certificate of Authorization No. NA

Expiration Date NA

Signed

Phillip C. Bures *Plant Inservice
Inspection Analyst*
Owner or Owner's Designee, Title

Date January 4, 19 99

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 Wisconsin and employed by Hartford Steam Boiler Inspection and Ins. Co. of Hartford, CT have inspected the components described in this Owner's Report during the period 7-1-97 to 1-20-99, 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.

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Roger Motz
Inspector's Signature

Commissions NB7741 | N IS A WIS 100024
National Board, State, Province, and Endorsements

Date January 20 19 99

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Wisconsin Public Service Corp. Date 12/17/98
700 North Adams P.O. Box 19001 Green Bay, WI 54307-9001 Sheet 1 of 2
2. Plant Kewaunee Nuclear Power Plant Unit No. 1
N490 HWY 42 Kewaunee, WI 54216-9510 Work Request Number 215246
3. Work Performed By Wisconsin Public Service Corp. Type Code Symbol Stamp NA
700 North Adams P.O. Box 19001 Green Bay, WI 54307-9001 Authorization No. NA
4. Identification of System 35 Class 2 CHEMICAL AND VOLUME CONTROL Expiration Date NA
5. (a) Applicable Construction Code ASME III CLASS C Code Case NA
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other ID	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped
AHLD (CLASS 2)	ATLAS	1206	1031	00060	1970	REPAIRED	Y

7. Description of Work REPAIR FLANGE LEAK ON CLASS 2 CHEMICAL AND VOLUME CONTROL SYSTEM LETDOWN HEAT EXCHANGER.
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Exempt
 Other Pressure 480 psi Test Temp. 67 deg. F
9. Remarks NOT APPLICABLE.

Applicable Manufacturer's Data Reports to be Attached

Date: 12/17/98

Name of Component: AHLD (CLASS 2)

Work Request Number: 215246

Certificate of Compliance

We certify that the statements made in the report are correct and this repaired conforms to the rules of the ASME Code Section XI.
repair or replacement

Type Code Symbol Stamp NA

Certificate of Authorization No. NA Expiration Date NA

Signed Phillip C. Butera Plant Inservice
Inspection Analyst Date January 4, 19 99
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 Wisconsin and employed by Hartford Steam Boiler Inspection and Ins. Co. of Hartford, CT have inspected the components described in this Owner's Report during the period 7-1-97 to 1-20-99, 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.

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Roger Matyuni Commissions NB7741, I, N, IS, A WIS 100024
Inspector's Signature National Board, State, Province, and Endorsements
Date January 20 19 99

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

- | | |
|---|-----------------------------------|
| 1. Owner <u>Wisconsin Public Service Corp.</u> | Date <u>11/11/98</u> |
| <u>700 North Adams P.O. Box 19001 Green Bay, WI 54307-9001</u> | Sheet <u>1</u> of <u>2</u> |
| 2. Plant <u>Kewaunee Nuclear Power Plant</u> | Unit <u>No. 1</u> |
| <u>N490 HWY 42 Kewaunee, WI 54216-9510</u> | Work Request Number <u>215262</u> |
| 3. Work Performed By <u>Wisconsin Public Service Corp.</u> | Type Code Symbol Stamp <u>NA</u> |
| <u>700 North Adams P.O. Box 19001 Green Bay, WI 54307-9001</u> | Authorization No. <u>NA</u> |
| 4. Identification of System <u>05B</u> Class 2 <u>AUXILIARY FEEDWATER</u> | Expiration Date <u>NA</u> |
| 5. (a) Applicable Construction Code <u>B31.1-1967</u> | Code Case <u>NA</u> |
| (b) Applicable Edition of Section XI Utilized for Repairs or Replacements <u>1989</u> | |
| 6. Identification of Components Repaired or Replaced and Replacement Components | |

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other ID	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped
FDW-H56	UNKNOWN	NA	NA	NA	1967	REPAIRED	N

7. Description of Work REPAIR CLASS 2 AUXILIARY FEEDWATER SYSTEM 3" HANGER FDW-H56 DUE TO 4 LOOSE NUTS.

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Exempt

Other Pressure psi Test Temp. deg. F

9. Remarks NOT APPLICABLE.

Applicable Manufacturer's Data Reports to be Attached

Date: 11/11/98

Name of Component: FDW-H56

Work Request Number: 215262

Certificate of Compliance

We certify that the statements made in the report are correct and this repaired conforms to the rules of the ASME Code Section XI.
repair or replacement

Type Code Symbol Stamp NA

Certificate of Authorization No. NA

Expiration Date NA

Signed

Phillip C. Bukes *Plant Inspector*
Owner or Owner's Designee, Title

Date January 4, 19 99

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 Wisconsin and employed by Hartford Steam Boiler Inspection and Ins. Co. of Hartford, CT have inspected the components described in this Owner's Report during the period 7-1-97 to 1-20-99, 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.

Roger Mignani
Inspector's Signature

Commissions NB7741, I, N, IS, A WIS 100024
National Board, State, Province, and Endorsements

Date January 20, 19 99

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

- | | |
|---|-----------------------------------|
| 1. Owner <u>Wisconsin Public Service Corp.</u> | Date <u>11/11/98</u> |
| <u>700 North Adams P.O. Box 19001 Green Bay, WI 54307-9001</u> | Sheet <u>1</u> of <u>2</u> |
| 2. Plant <u>Kewaunee Nuclear Power Plant</u> | Unit <u>No. 1</u> |
| <u>N490 HWY 42 Kewaunee, WI 54216-9510</u> | Work Request Number <u>215319</u> |
| 3. Work Performed By <u>Wisconsin Public Service Corp.</u> | Type Code Symbol Stamp <u>NA</u> |
| <u>700 North Adams P.O. Box 19001 Green Bay, WI 54307-9001</u> | Authorization No. <u>NA</u> |
| 4. Identification of System <u>05B</u> Class 2 <u>AUXILIARY FEEDWATER</u> | Expiration Date <u>NA</u> |
| 5. (a) Applicable Construction Code <u>B31.1-1967</u> | Code Case <u>NA</u> |
| (b) Applicable Edition of Section XI Utilized for Repairs or Replacements <u>1989</u> | |
| 6. Identification of Components Repaired or Replaced and Replacement Components | |

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other ID	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped
FDW-H66	ITT GRINNEL COMPANY	NA	NA	NA	1967	REPAIRED	N

7. Description of Work REPAIR CLASS 2 AUXILIARY FEEDWATER SYSTEM 3" HANGER FDW-H66 DUE TO 3 LOOSE NUTS.

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

9. Remarks NOT APPLICABLE.

Applicable Manufacturer's Data Reports to be Attached

NIS-2 (Back)

Sheet 2 of 2

Date: 11/11/98

Name of Component: FDW-H66

Work Request Number: 215319

Certificate of Compliance

We certify that the statements made in the report are correct and this repaired conforms to the rules of the ASME Code Section XI.
repair or replacement

Type Code Symbol Stamp NA

Certificate of Authorization No. NA

Expiration Date NA

Signed

Phillip C. Bukes *Plant Inservice
Inspection Analyst*
Owner or Owner's Designee, Title

Date

January 4 19 99

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 Wisconsin and employed by Hartford Steam Boiler Inspection and Ins. Co. of Hartford, CT have inspected the components described in this Owner's Report during the period 7-1-97 to 1-20-99, 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.

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Roger McGuire
Inspector's Signature

Commissions NB7741, I, N, IS, A WIS 100024
National Board, State, Province, and Endorsements

Date

January 20 19 99

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Wisconsin Public Service Corp. Date 11/11/98
700 North Adams P.O. Box 19001 Green Bay, WI 54307-9001 Sheet 1 of 2
2. Plant Kewaunee Nuclear Power Plant Unit No. 1
N490 HWY 42 Kewaunee, WI 54216-9510 Work Request Number 215319
3. Work Performed By Wisconsin Public Service Corp. Type Code Symbol Stamp NA
700 North Adams P.O. Box 19001 Green Bay, WI 54307-9001 Authorization No. NA
4. Identification of System 05B Class 2 AUXILIARY FEEDWATER Expiration Date NA
5. (a) Applicable Construction Code B31.1-1967 Code Case NA
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other ID	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped
FDW-H67	ITT GRINNEL COMPANY	NA	NA	NA	1967	REPAIRED	N

7. Description of Work REPAIR CLASS 2 AUXILIARY FEEDWATER SYSTEM 3" HANGER FDW-H67 DUE TO 3 LOOSE NUTS.
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Exempt
 Other Pressure psi Test Temp. deg. F
9. Remarks NOT APPLICABLE.

Applicable Manufacturer's Data Reports to be Attached

NIS-2 (Back)

Sheet 2 of 2

Date: 11/11/98

Name of Component: FDW-H67

Work Request Number: 215319

Certificate of Compliance

We certify that the statements made in the report are correct and this repaired conforms to the rules of the ASME Code Section XI. repair or replacement

Type Code Symbol Stamp NA

Certificate of Authorization No. NA

Expiration Date NA

Signed Phillip C. Butkus Plant Inservice Inspection Analyst Owner or Owner's Designee, Title

Date January 4 19 99

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 Wisconsin and employed by Hartford Steam Boiler Inspection and Ins. Co. of Hartford, CT have inspected the components described in this Owner's Report during the period 7-1-97 to 1-20-99, 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.

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Inspector's Signature (Signature)

Commissions NB7741, I, N, IS, A WIS 100024 National Board, State, Province, and Endorsements

Date January 20 19 99

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

- | | |
|---|-----------------------------------|
| 1. Owner <u>Wisconsin Public Service Corp.</u> | Date <u>11/11/98</u> |
| <u>700 North Adams P.O. Box 19001 Green Bay, WI 54307-9001</u> | Sheet <u>1</u> of <u>2</u> |
| 2. Plant <u>Kewaunee Nuclear Power Plant</u> | Unit <u>No. 1</u> |
| <u>N490 HWY 42 Kewaunee, WI 54216-9510</u> | Work Request Number <u>215326</u> |
| 3. Work Performed By <u>Wisconsin Public Service Corp.</u> | Type Code Symbol Stamp <u>NA</u> |
| <u>700 North Adams P.O. Box 19001 Green Bay, WI 54307-9001</u> | Authorization No. <u>NA</u> |
| 4. Identification of System <u>38</u> Class 1 <u>REACTOR COOLANT</u> | Expiration Date <u>NA</u> |
| 5. (a) Applicable Construction Code <u>ASME III CL. A-1966</u> | Code Case <u>NA</u> |
| (b) Applicable Edition of Section XI Utilized for Repairs or Replacements <u>1989</u> | |
| 6. Identification of Components Repaired or Replaced and Replacement Components | |

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other ID	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped
SG-1A (CLASS 1)	WESTINGHOUSE	1141	68-28	00035	1968	REPAIRED	Y

7. Description of Work REPAIR LOOSE JAM NUTS ON CLASS 1 REACTOR COOLANT SYSTEM STEAM GENERATOR 1A SUPPORTS.
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Exempt
- Other Pressure psi Test Temp. deg. F
9. Remarks NOT APPLICABLE.

Applicable Manufacturer's Data Reports to be Attached

NIS-2 (Back)

Sheet 2 of 2

Date: 11/11/98

Name of Component: SG-1A (CLASS 1)

Work Request Number: 215326

Certificate of Compliance

We certify that the statements made in the report are correct and this repaired conforms to the rules of the ASME Code Section XI.
repair or replacement

Type Code Symbol Stamp NA

Certificate of Authorization No. NA

Expiration Date NA

Signed

Phillip C. Baker *Plant Inservice Inspection Analyst*
Owner or Owner's Designee, Title

Date January 4, 19 99

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 Wisconsin and employed by Hartford Steam Boiler Inspection and Ins. Co. of Hartford, CT have inspected the components described in this Owner's Report during the period 7-1-97 to 1-20-99, 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.

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Logan Metzger
Inspector's Signature

Commissions NB7741, I, N, IS, A WIS 100024
National Board, State, Province, and Endorsements

Date January 20, 19 99

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Wisconsin Public Service Corp.

Date 11/11/98

700 North Adams P.O. Box 19001 Green Bay, WI 54307-9001

Sheet 1 of 2

2. Plant Kewaunee Nuclear Power Plant

Unit No. 1

N490 HWY 42 Kewaunee, WI 54216-9510

Work Request Number 215393

3. Work Performed By Wisconsin Public Service Corp.

Type Code Symbol Stamp NA

700 North Adams P.O. Box 19001 Green Bay, WI 54307-9001

Authorization No. NA

4. Identification of System 36 Class 1 REACTOR COOLANT

Expiration Date NA

5. (a) Applicable Construction Code B31.1-1967

Code Case NA

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other ID	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped
RTD-H1	ITT GRINNELL VALVE COMPANY	NA	NA	NA	1967	REPAIRED	N

7. Description of Work REPAIR HANGER-SPRING SUPPORT RTD-H1 LOCATED ON REACTOR COOLANT SYSTEM 2" LINE BY TIGHTENING LOOSE JAM NUT.

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Exempt

Other Pressure psi Test Temp. deg. F

9. Remarks NOT APPLICABLE.

Applicable Manufacturer's Data Reports to be Attached

NIS-2 (Back)

Sheet 2 of 2

Date: 11/11/98

Name of Component: RTD-H1

Work Request Number: 215393

Certificate of Compliance

We certify that the statements made in the report are correct and this repaired conforms to the rules of the ASME Code Section XI.
repair or replacement

Type Code-Symbol Stamp NA

Certificate of Authorization No. NA

Expiration Date NA

Signed

Phillip C. Burkea Plant Inservice
Inspection Analyst
Owner or Owner's Designee, Title

Date

January 4 19 99

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 Wisconsin and employed by Hartford Steam Boiler Inspection and Ins. Co. of Hartford, CT have inspected the components described in this Owner's Report during the period 7-1-97 to 1-20-99, 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.

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Ryan McGuire
Inspector's Signature

Commissions NB7741, I, N, IS, A WIS 100024
National Board, State, Province, and Endorsements

Date

January 20 19 99

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Wisconsin Public Service Corp.

Date 12/01/98

700 North Adams P.O. Box 19001 Green Bay, WI 54307-9001

Sheet 1 of 2

2. Plant Kewaunee Nuclear Power Plant

Unit No. 1

N490 HWY 42 Kewaunee WI 54216-9510

Work Request Number 215447

3. Work Performed By Wisconsin Public Service Corp.

Type Code Symbol Stamp NA

700 North Adams P.O. Box 19001 Green Bay, WI 54307-9001

Authorization No. NA

4. Identification of System 33 Class 2 SAFETY INJECTION

Expiration Date NA

5. (a) Applicable Construction Code B16.5-1967

Code Case NA

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other ID	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped
SI-5B	ANCHOR VALVE COMPANY	9193-3/70	NA	SI009-002	1970	REPAIRED	N

7. Description of Work DISASSEMBLE AND REPAIR CLASS 2 SAFETY INJECTION SYSTEM 6" VALVE SI-5B.

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Exempt
Other Pressure 2150 psi Test Temp. 75 deg. F

9. Remarks NOT APPLICABLE.

Applicable Manufacturer's Data Reports to be Attached

NIS-2 (Back)

Sheet 2 of 2

Date: 12/01/98

Name of Component: SI-5B

Work Request Number: 215447

Certificate of Compliance

We certify that the statements made in the report are correct and this repaired conforms to the rules of the ASME Code Section XI.
repair or replacement

Type Code Symbol Stamp NA

Certificate of Authorization No. NA

Expiration Date NA

Signed Phillip C. Bueck Plant Inservise
Inspection Analyst
Owner or Owner's Designee, Title

Date January 4, 19 99

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 Wisconsin and employed by Hartford Steam Boiler Inspection and Ins. Co. of Hartford, CT have inspected the components described in this Owner's Report during the period 7-1-97 to 1-20-99 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.

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Roger M. Wilson
Inspector's Signature

Commissions NB7741, I, N, IS, A WIS 100024
National Board, State, Province, and Endorsements

Date January 20 19 99

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Wisconsin Public Service Corp.

Date 11/30/98

700 North Adams P.O. Box 19001 Green Bay, WI 54307-9001

Sheet 1 of 2

2. Plant Kewaunee Nuclear Power Plant

Unit No. 1

N490 HWY 42 Kewaunee, WI 54216-9510

Work Request Number 215450

3. Work Performed By Wisconsin Public Service Corp.

Type Code Symbol Stamp NA

700 North Adams P.O. Box 19001 Green Bay, WI 54307-9001

Authorization No. NA

4. Identification of System 36 Class 1 REACTOR COOLANT

Expiration Date NA

5. (a) Applicable Construction Code B16.5-1967

Code Case NA

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other ID	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped
PR-1B	VELAN VALVE CORPORATION	114550	NA	RC018-002	1967	REPAIRED	N

7. Description of Work REPAIR CLASS 1 REACTOR COOLANT SYSTEM 3" VALVE PR-1B.

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Exempt

Other Pressure 2246 psi Test Temp. 549 deg. F

9. Remarks NOT APPLICABLE.

Applicable Manufacturer's Data Reports to be Attached

Date: 11/30/98

Name of Component: PR-1B

Work Request Number: 215450

Certificate of Compliance

We certify that the statements made in the report are correct and this repaired conforms to the rules of the ASME Code Section XI.
repair or replacement

Type Code Symbol Stamp NA

Certificate of Authorization No. NA

Expiration Date NA

Signed

Phillip C. Bakes Plant Inspector
Inspection Analyst
Owner or Owner's Designee, Title

Date January 4 19 99

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 Wisconsin and employed by Hartford Steam Boiler Inspection and Ins. Co. of Hartford, CT have inspected the components described in this Owner's Report during the period 1-1-97 to 1-20-99, 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.

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Ryan McGinnis
Inspector's Signature

Commissions NB7741, I, N, IS, A WIS 100024
National Board, State, Province, and Endorsements

Date January 20 19 99

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Wisconsin Public Service Corp.

Date 11/19/98

700 North Adams P.O. Box 19001 Green Bay, WI 54307-9001

Sheet 1 of 2

2. Plant Kewaunee Nuclear Power Plant

Unit No. 1

N490 HWY 42 Kewaunee, WI 54216-9510

Work Request Number 215462

3. Work Performed By Wisconsin Public Service Corp.

Type Code Symbol Stamp NA

700 North Adams P.O. Box 19001 Green Bay, WI 54307-9001

Authorization No. NA

4. Identification of System 33 Class 2 SAFETY INJECTION

Expiration Date NA

5. (a) Applicable Construction Code B31.1-1967

Code Case NA

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other ID	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped
SI-H42	ITT GRINNELL VALVE CORP.	NA	NA	NA	1967	REPAIRED	N

7. Description of Work REPAIR CLASS 2 SAFETY INJECTION SYSTEM 3" HANGER SI-H42 DUE TO LOOSE EYE NUT AND NOT CARRYING LOAD.

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Exempt

Other Pressure psi Test Temp. deg. F

9. Remarks NOT APPLICABLE.

Applicable Manufacturer's Data Reports to be Attached

Date: 11/19/98

Name of Component: SI-H42

Work Request Number: 215462

Certificate of Compliance

We certify that the statements made in the report are correct and this repaired conforms to the rules of the ASME Code Section XI.
repair or replacement

Type Code Symbol Stamp NA

Certificate of Authorization No. NA

Expiration Date NA

Signed

Phillip C. Bukes *Plant Insurance
Inspection Analyst*
Owner or Owner's Designee, Title

Date January 4 19 99

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 Provinca of Wisconsin and employed by Hartford Steam Boiler Inspection and Ins. Co. of Hartford, CT have inspected the components described in this Owner's Report during the period 7-1-97 to 1-20-99, 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.

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Roger McGinnis
Inspector's Signature

Commissions NB7741, I, N, IS, A WIS 100024
National Board, State, Province, and Endorsements

Date January 20 19 99

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Wisconsin Public Service Corp.

Date 11/20/98

700 North Adams P.O. Box 19001 Green Bay, WI 54307-9001

Sheet 1 of 2

2. Plant Kewaunee Nuclear Power Plant

Unit No. 1

N490 HWY 42 Kewaunee, WI 54216-9510

Work Request Number 215510

3. Work Performed By Wisconsin Public Service Corp.

Type Code Symbol Stamp NA

700 North Adams P.O. Box 19001 Green Bay, WI 54307-9001

Authorization No. NA

4. Identification of System 33 Class 2 SAFETY INJECTION

Expiration Date NA

5. (a) Applicable Construction Code B31.1-1967

Code Case NA

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other ID	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped
SI-H18	ITT GRINNELL VALVE CO.	NA	NA	NA	1967	REPAIRED	N

7. Description of Work REPAIR CLASS 2 SAFETY INJECTION SYSTEM 3" HANGER SI-H18 DUE TO MISALIGNED CLAMP AND ROD NOT CARRYING LOAD.

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Exempt

Other Pressure psi Test Temp. deg. F

9. Remarks NOT APPLICABLE.

Applicable Manufacturer's Data Reports to be Attached

NIS-2 (Back)
Sheet 2 of 2

Date: 11/20/98

Name of Component: SI-H18

Work Request Number: 215510

Certificate of Compliance

We certify that the statements made in the report are correct and this repaired conforms to the rules of the ASME Code Section XI.
repair or replacement

Type Code Symbol Stamp NA

Certificate of Authorization No. NA

Expiration Date NA

Signed

Phillip C. Burke *Plant Inservice
Inspection Analyst*
Owner or Owner's Designee, Title

Date

January 4, 19 99

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 Wisconsin and employed by Hartford Steam Boiler Inspection and Ins. Co. of Hartford, CT have inspected the components described in this Owner's Report during the period 7-1-97 to 1-20-99, 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.

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Rogan Metzger
Inspector's Signature

Commissions

NB7741, I, N, IS, A WIS 100024
National Board, State, Province, and Endorsements

Date

January 20, 19 99

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Wisconsin Public Service Corp. Date 11/20/98
700 North Adams P.O. Box 19001 Green Bay, WI 54307-9001 Sheet 1 of 2
2. Plant Kewaunee Nuclear Power Plant Unit No. 1
N490 HWY 42 Kewaunee, WI 54216-9510 Work Request Number 215511
3. Work Performed By Wisconsin Public Service Corp. Type Code Symbol Stamp NA
700 North Adams P.O. Box 19001 Green Bay, WI 54307-9001 Authorization No. NA
4. Identification of System 05A Class 2 FEEDWATER Expiration Date NA
5. (a) Applicable Construction Code B31.1-1967 Code Case NA
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other ID	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped
FDW-H116	ITT GRINNELL VALVE CO.	NA	NA	NA	1967	REPAIRED	N

7. Description of Work REPAIR CLASS 2 FEEDWATER SYSTEM 16" HANGER FDW-H116 DUE TO LOOSE EYE NUT.
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Exempt
 Other Pressure psi Test Temp. deg. F
9. Remarks NOT APPLICABLE.

Applicable Manufacturer's Data Reports to be Attached

NIS-2 (Back)
Sheet 2 of 2

Date: 11/20/98

Name of Component: FDW-H116

Work Request Number: 215511

Certificate of Compliance

We certify that the statements made in the report are correct and this repaired conforms to the rules of the ASME Code Section XI.
repair or replacement

Type Code Symbol Stamp NA

Certificate of Authorization No. NA Expiration Date NA

Signed Phillip C. Burke Plant Inservice Inspection Analyst Date January 4, 19 99
Owner or Owner's Designee, Title

Certificate of INSERVICE INSPECTION

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Roger Metzner
Inspector's Signature

Commissions NB7741, I, N, IS, A WIS 100024
National Board, State, Province, and Endorsements

Date January 20 19 99

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Wisconsin Public Service Corp.

Date 11/19/98

700 North Adams P.O. Box 19001 Green Bay, WI 54307-9001

Sheet 1 of 2

2. Plant Kewaunee Nuclear Power Plant

Unit No. 1

N490 HWY 42 Kewaunee, WI 54216-9510

Work Request Number 215515

3. Work Performed By Wisconsin Public Service Corp.

Type Code Symbol Stamp NA

700 North Adams P.O. Box 19001 Green Bay, WI 54307-9001

Authorization No. NA

4. Identification of System 06 Class 2 MAIN STEAM AND STEAM DUMP

Expiration Date NA

5. (a) Applicable Construction Code B31.1-1967

Code Case NA

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other ID	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped
MS-W19BC	TEXAS PIPE BENDING	241669	NA	NA	1969	REPAIRED	N

7. Description of Work REPAIR CLASS 2 MAIN STEAM SYSTEM 8" BRANCH CONNECTION WELD MS-W19BC DUE TO ROUNDED AND LINEAR MAGNETIC PARTICLE INDICATIONS.

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Exempt

Other Pressure psi Test Temp. deg. F

9. Remarks NOT APPLICABLE.

Applicable Manufacturer's Data Reports to be Attached

NIS-2 (Back)

Sheet 2 of 2

Date: 11/19/98

Name of Component: MS-W19BC

Work Request Number: 215515

Certificate of Compliance

We certify that the statements made in the report are correct and this repaired conforms to the rules of the ASME Code Section Xi.
repair or replacement

Type Code Symbol Stamp NA

Certificate of Authorization No. NA

Expiration Date NA

Signed

Phillip C. Burke *Plant Inspector*
Owner or Owner's Designee, Title

Date January 4 19 99

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 Wisconsin and employed by Hartford Steam Boiler Inspection and Ins. Co. of Hartford, CT have inspected the components described in this Owner's Report during the period 7-1-97 to 1-20-99, 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.

Roy M. Moran
Inspector's Signature

Commissions NB7741, I, N, IS, A WIS 100024
National Board, State, Province, and Endorsements

Date January 20 19 99

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Wisconsin Public Service Corp. Date 12/03/98
700 North Adams P.O. Box 19001 Green Bay, WI 54307-9001 Sheet 1 of 2
2. Plant Kewaunee Nuclear Power Plant Unit No. 1
N490 HWY 42 Kewaunee, WI 54216-9510 Work Request Number 215562
3. Work Performed By Wisconsin Public Service Corp. Type Code Symbol Stamp NA
700 North Adams P.O. Box 19001 Green Bay, WI 54307-9001 Authorization No. NA
4. Identification of System 89A Class MC BUILDINGS - STRUCTURES Expiration Date NA
5. (a) Applicable Construction Code SEC. III-CL.B-1965W Code Case NA
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1992 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other ID	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped
RBCV	CHICAGO BRIDGE AND IRON COMPANY	C4454	NA	1S-0002	1969	REPAIRED	Y

7. Description of Work REPAIR SURFACE BLEMISHES ON CLASS MC REACTOR BUILDING CONTAINMENT VESSEL PLATE 98 AND PLATE 107 ON ANNULUS SIDE.
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Exempt
 Other Pressure psi Test Temp. deg. F
9. Remarks NOT APPLICABLE.

Applicable Manufacturer's Data Reports to be Attached

Date: 12/03/98

Name of Component: RBCV

Work Request Number: 215562

Certificate of Compliance

We certify that the statements made in the report are correct and this repaired conforms to the rules of the ASME Code Section XI.
repair or replacement

Type Code Symbol Stamp NA

Certificate of Authorization No. NA Expiration Date NA

Signed Phillips C. Buker Plant Inservice Inspection Analyst Date January 4, 19 99
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 Wisconsin and employed by Hartford Steam Boiler Inspection and Ins. Co. of Hartford, CT have inspected the components described in this Owner's Report during the period 7-1-97 to 1-20-99, 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.

Roger Motum
Inspector's Signature

Commissions NB7741, I, N, IS, A WIS 100024
National Board, State, Province, and Endorsements

Date January 20, 19 99

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Wisconsin Public Service Corp. Date 11/28/98
700 North Adams P.O. Box 19001 Green Bay, WI 54307-9001 Sheet 1 of 2
2. Plant Kewaunee Nuclear Power Plant Unit No. 1
N490 HWY 42 Kewaunee, WI 54216-9510 Work Request Number CMP 36-007
3. Work Performed By Wisconsin Public Service Corp. Type Code Symbol Stamp NA
700 North Adams P.O. Box 19001 Green Bay, WI 54307-9001 Authorization No. NA
4. Identification of System 36 Class 1 REACTOR COOLANT Expiration Date NA
5. (a) Applicable Construction Code ASME III-1968 Code Case NA
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other ID	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped
PR-3A	CROSBY, ASHTON GAGE COMPANY	NF	NA	RC008-001	1972	REPAIRED	N

7. Description of Work REMOVE CLASS 1 REACTOR COOLANT SYSTEM 6" VALVE PR-3A FOR TESTING.

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Exempt
 Other Pressure 2247 psi Test Temp. 549 deg. F

9. Remarks NOT APPLICABLE.

Applicable Manufacturer's Data Reports to be Attached

NIS-2 (Back)

Sheet 2 of 2

Date: 11/28/98

Name of Component: PR-3A

Work Request Number: CMP 36-007

Certificate of Compliance

We certify that the statements made in the report are correct and this repaired _____ conforms to the rules of the repair or replacement ASME Code Section XI.

Type Code Symbol Stamp NA

Certificate of Authorization No. NA Expiration Date NA

Signed Phillip C. Buker *Plant Inservice Inspection Analyst* Date January 4 19 99
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 Wisconsin and employed by Hartford Steam Boiler Inspection and Ins. Co. of Hartford, CT have inspected the components described in this Owner's Report during the period 7-1-97 to 1-20-99, 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.

Roger Motz
Inspector's Signature

Commissions NB7741, I, N, IS, A WIS 100024
National Board, State, Province, and Endorsements

Date January 30 19 99

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

- | | |
|---|---------------------------------------|
| 1. Owner <u>Wisconsin Public Service Corp.</u> | Date <u>11/28/98</u> |
| <u>700 North Adams P.O. Box 19001 Green Bay, WI 54307-9001</u> | Sheet <u>1</u> of <u>2</u> |
| 2. Plant <u>Kewaunee Nuclear Power Plant</u> | Unit <u>No. 1</u> |
| <u>N490 HWY 42 Kewaunee, WI 54216-9510</u> | Work Request Number <u>CMP 36-007</u> |
| 3. Work Performed By <u>Wisconsin Public Service Corp.</u> | Type Code Symbol Stamp <u>NA</u> |
| <u>700 North Adams P.O. Box 19001 Green Bay, WI 54307-9001</u> | Authorization No. <u>NA</u> |
| 4. Identification of System <u>36</u> Class 1 <u>REACTOR COOLANT</u> | Expiration Date <u>NA</u> |
| 5. (a) Applicable Construction Code <u>ASME III-1968</u> | Code Case <u>NA</u> |
| (b) Applicable Edition of Section XI Utilized for Repairs or Replacements <u>1989</u> | |
| 6. Identification of Components Repaired or Replaced and Replacement Components | |

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other ID	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped
PR-3B	CROSBY, ASHTON GAGE COMPANY	NF	NA	RC008-002	1972	REPAIRED	N

7. Description of Work REMOVE CLASS 1 REACTOR COOLANT SYSTEM 6" VALVE PR-3B FOR TESTING.

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Exempt
 Other Pressure 2247 psi Test Temp. 549 deg. F

9. Remarks NOT APPLICABLE.

Applicable Manufacturer's Data Reports to be Attached

Date: 11/28/98

Name of Component: PR-3B

Work Request Number: CMP 36-007

Certificate of Compliance

We certify that the statements made in the report are correct and this repaired conforms to the rules of the ASME Code Section XI. repair or replacement

Type Code Symbol Stamp NA

Certificate of Authorization No. NA Expiration Date NA

Signed Phillip C. Bukes Plant Inservive Inspection Analyst Date January 4, 19 99
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 Wisconsin and employed by Hartford Steam Boiler Inspection and Ins. Co. of Hartford, CT have inspected the components described in this Owner's Report during the period 7-1-97 to 1-20-99, 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.

Roy M. Quinn
Inspector's Signature

Commissions NB7741, I, N, IS, A WIS 100024
National Board, State, Province, and Endorsements

Date January 20 19 99

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Wisconsin Public Service Corp.

Date 12/02/98

700 North Adams P.O. Box 19001 Green Bay, WI 54307-9001

Sheet 1 of 2

2. Plant Kewaunee Nuclear Power Plant

Unit No. 1

N490 HWY 42 Kewaunee, WI 54216-9510

Work Request Number PM 36-064

3. Work Performed By Wisconsin Public Service Corp.

Type Code Symbol Stamp NA

700 North Adams P.O. Box 19001 Green Bay, WI 54307-9001

Authorization No. NA

4. Identification of System 36 Class 1 REACTOR COOLANT

Expiration Date NA

5. (a) Applicable Construction Code ASME III CL. A-1966

Code Case NA

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other ID	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped
SG-1A (CLASS 1)	WESTINGHOUSE	1141	68-28	00035	1968	REPAIRED	Y

7. Description of Work INSTALL TUBESHEET SLEEVES AND MECHANICAL PLUGS IN PRIMARY SIDE HOTLEG AND COLDEG IN THE CLASS 1 REACTOR COOLANT SYSTEM STEAM GENERATOR 1A.

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

9. Remarks NOT APPLICABLE.

Applicable Manufacturer's Data Reports to be Attached

Date: 12/02/98

Name of Component: SG-1A (CLASS 1)

Work Request Number: PM 36-064

Certificate of Compliance

We certify that the statements made in the report are correct and this repaired conforms to the rules of the ASME Code Section XI.
repair or replacement

Type Code Symbol Stamp NA

Certificate of Authorization No. NA Expiration Date NA

Signed Phillip C. Bures Plant Insurance
Inspection Analyst Date January 4 19 99
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 Wisconsin and employed by Hartford Steam Boiler Inspection and Ins. Co. of Hartford, CT have inspected the components described in this Owner's Report during the period 7-1-97 to 1-20-99, 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.

Roger McGuire
Inspector's Signature

Commissions NB7741, I, N, IS, A WIS 100024
National Board, State, Province, and Endorsements

Date January 20 19 99

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

- | | |
|---|--------------------------------------|
| 1. Owner <u>Wisconsin Public Service Corp.</u> | Date <u>12/02/98</u> |
| <u>700 North Adams P.O. Box 19001 Green Bay, WI 54307-9001</u> | Sheet <u>1</u> of <u>2</u> |
| 2. Plant <u>Kewaunee Nuclear Power Plant</u> | Unit <u>No. 1</u> |
| <u>N490 HWY 42 Kewaunee, WI 54216-9510</u> | Work Request Number <u>PM 36-066</u> |
| 3. Work Performed By <u>Wisconsin Public Service Corp.</u> | Type Code Symbol Stamp <u>NA</u> |
| <u>700 North Adams P.O. Box 19001 Green Bay, WI 54307-9001</u> | Authorization No. <u>NA</u> |
| 4. Identification of System <u>36</u> Class 1 <u>REACTOR COOLANT</u> | Expiration Date <u>NA</u> |
| 5. (a) Applicable Construction Code <u>ASME III CL.A-1966</u> | Code Case <u>NA</u> |
| (b) Applicable Edition of Section XI Utilized for Repairs or Replacements <u>1989</u> | |
| 6. Identification of Components Repaired or Replaced and Replacement Components | |

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other ID	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped
SG-1B (CLASS 1)	WESTINGHOUSE	1142	68-29	00036	1968	REPAIRED	Y

7. Description of Work INSTALL TUBESHEET SLEEVES, WELDED AND MECHANICAL PLUGS IN PRIMARY SIDE HOTLEG AND COLDLEG IN CLASS 1 REACTOR COOLANT SYSTEM STEAM GENERATOR 1B.
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Exempt
- Other Pressure psi Test Temp. deg. F
9. Remarks NOT APPLICABLE.

Applicable Manufacturer's Data Reports to be Attached

NIS-2 (Back)

Sheet 2 of 2

Date: 12/02/98

Name of Component: SG-1B (CLASS 1)

Work Request Number: PM 36-066

Certificate of Compliance

We certify that the statements made in the report are correct and this repaired conforms to the rules of the ASME Code Section XI.
repair or replacement

Type Code Symbol Stamp NA

Certificate of Authorization No. NA

Expiration Date NA

Signed Phillip C. Butas *Plant Inservice*
Inspection Analyst Date January 4 19 99
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 Wisconsin and employed by Hartford Steam Boiler Inspection and Ins. Co. of Hartford, CT have inspected the components described in this Owner's Report during the period 7-1-97 to 1-20-99, 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.

Roger Matzuni
Inspector's Signature

Commissions NB7741, I, N, IS, A WIS 10024
National Board, State, Province, and Endorsements

Date January 20 19 99

ATTACHMENT 4

Letter from M. L. Marchi (WPSC)

To

Document Control Desk (NRC)

Dated

February 12, 1999

Examination Summary for Scheduled and Augmented Inservice Inspection
Program

**WISCONSIN PUBLIC SERVICE CORPORATION
KEWAUNEE NUCLEAR POWER PLANT
3RD INTERVAL: 2ND PERIOD: 1ST OUTAGE
1998
EXAMINATION SUMMARY**

INTRODUCTION

An Inservice Inspection (ISI) Program (Scheduled and Augmented) was performed at the Kewaunee Nuclear Power Plant from March 11, 1998 thru September 17, 1998 (Non Refueling Outage), October 17, 1998 thru November 27, 1998 (Closing of G1 following Refueling Outage) and November 30, 1998 by Kewaunee Nuclear Power Plant; Lambert, MacGill, and Thomas, Inc. (LMT); and Professional Welding Associates (PWA) examination personnel.

Examinations were performed to satisfy the requirements of:

- o ASME Boiler and Pressure Vessel Code Section XI 1989 Edition
- o United States Nuclear Regulatory Commission IE Bulletin 79-13
- o United States Nuclear Regulatory Commission Generic Letter 88-05
- o United States Nuclear Regulatory Commission Information Notice 97-46
- o Kewaunee Nuclear Power Plant Nuclear Regulatory Commission Commitment Tracking No.95-046

The Inservice Inspection Program Plan and Augmented Inspection Program Plan located under Tab C was prepared by Wisconsin Public Service Corporation-Kewaunee Nuclear Power Plant For the 3rd Interval: 2nd Period: 1st Outage as identified in the Kewaunee Nuclear Power Plant Third 10-Year Inservice Inspection (ISI) Program 1994-2004. Examinations during this Refueling Outage were performed to start the 3rd Interval: 2nd Period Examination Requirements of ASME Boiler and Pressure Vessel Code Section XI and Kewaunee Nuclear Power Plant Third 10-Year Inservice Inspection (ISI) Program 1994-2004.

The following items were examined:

- o Reactor Vessel Closure Head, Studs and Nuts and Upper and Lower Internals
- o Pressurizer Shell to Head Welds
- o Steam Generators Nozzle Inside Radius Sections and Manway Bolting
- o Regenerative Heat Exchanger, Residual Heat Exchanger 1A and Seal Water Injection Filter 1A Head Welds
- o Letdown Heat Exchanger Shell Weld
- o Reactor Coolant Pump Main Flange Bolting

- o Steam Generator Feedwater Nozzle to Pipe Welds
- o Class 1 and Class 2 Piping Welds
- o Class 1, Class 2 and Class 3 Piping and Component Supports and Hangers
- o Class 2 Safety Injection Pump, Residual Heat Exchanger and Piping Integrally Welded Attachments
- o Class 2 Safety Injection Pump Nozzle to Casing Weld
- o Class 1 and Class 2 Pressurizer Manway Bolting, Flange Bolting and Valve Bonnet Bolting
- o Class 1 System Leakage Test
- o Class 2 and Class 3 System Inservice and Functional System Pressure Tests

EXAMINATIONS

The examinations performed were in accordance with an approved Inservice Inspection Program Plan located under Tab C of the final report. Examination Procedures were approved prior to the start of examinations and certification documents relative to personnel, equipment and materials were reviewed and determined to be satisfactory.

Some of the arrangements and details of the Kewaunee Nuclear Power Plant Components and Piping Systems were designed and fabricated before ASME Boiler and Pressure Vessel Code Section XI Code requirements were established. Examinations performed were intended to examine 100% of the required surface or volume. In some cases, examinations were limited by geometric, metallurgical or design/access restrictions. In each case, the occurrence and cause of the limitation was documented. In all cases the maximum amount achievable was examined.

Witnessing and surveillance of the examinations were conducted by: United States Nuclear Regulatory Commission and Hartford Steam Boiler Inspection and Insurance Company.

RESULTS

Examinations resulted with the following Recordable Indications being noted on the basis of procedure recording criteria, which are generally more restrictive than specified ASME Boiler and Pressure Vessel Code Section XI Acceptance Standards.

Recordable Indications detected during the 1998 Refueling Outage are listed in Table 1 with a brief summary following. Specific data relative to all Recordable Indications and their dispositions by either corrective measures or acceptance by ASME Boiler and Pressure Vessel Code Section XI 1989 Edition Acceptance Criteria, repair/replacement or evaluation are located in Tab F of the Final Report.

TABLE 1

<u>TYPE OR LOCATION OF RECORDABLE INDICATION (RI)</u>	<u>METHOD</u>	<u>NO. OF RI'S</u>
Seal Water Injection Filter Circumferential Weld	Ultrasonic (UT)	1 Weld
Class 1 Safety Injection Piping Weld	Ultrasonic (UT)	1 Weld
Class 2 Feedwater Piping	Ultrasonic (UT)	2 Welds
Class 2 Feedwater Piping	Radiography (RT)	1 Weld
Class 2 Branch Connection	Surface (MT)	1 Weld
Class 2 Safety Injection Pump Integrally Welded Attachment	Surface (MT)	1 Weld
Valve Bonnet Bolting	Visual (VT-1 or VT-3)	6 Valves
Piping Supports and Hangers	Visual (VT-3)	18 Supports
System Pressure Tests	Visual (VT-2)	36 Items

1. Ultrasonic Recordable Indications, previously documented, on Seal Water Injection Filter 1A Circumferential Head Weld AFSI-W2 were noted during performance of Manual Ultrasonic Examinations. The 5 separate Laminar Indications were Acceptable per the requirements of ASME Boiler and Pressure Vessel Code Section XI 1989 Edition Table IWC-3510-2.
2. Ultrasonic Recordable Indications on 2" Safety Injection Piping Circumferential Weld SI-11B were noted during performance of Manual Ultrasonic Examination. Review of Baseline Radiography, additional prepping of weld and reexamination determined that the Recordable Indications were Geometric Reflectors caused by excessive weld root.
3. Recordable Indications, previously noted in 1995 and 1996-1997, were recorded during Automated Ultrasonic and Radiography examinations of the Class 2 Feedwater Nozzle to Pipe Welds FW-W29 and FW-W57. Rexamations during the 1998 Refueling Outage were performed to satisfy Kewaunee Nuclear Power Plant Nuclear Regulatory Commission Commitment Tracking No.95-046. The indications recorded on FW-W29 and FW-W57 were accepted thru Analytical Evaluation as permitted by ASME Boiler and Pressure Vessel Code Section XI 1989 Edition Paragraphs IWB-3142.4, IWB-3600 and IWC-3600. The Analytical Evaluation is documented in Westinghouse Electric Corporation WCAP-14359 Rev.2 Structural Integrity Evaluation for The Feedwater Nozzle to Pipe Weld Region of the Kewaunee Nuclear Plant October 1998 and Structural Integrity Evaluation for the Feedwater Nozzle to Pipe Weld Region Kewaunee Nuclear Power Plant 1998 Refueling Outage.

As required by ASME Boiler and Pressure Vessel Code Section XI 1989 Edition Paragraph IWC-2420 "Successive Inspections" Feedwater Nozzle to Pipe Welds FW-W29 and FW-57 will be ultrasonically examined with Automated Equipment and by Radiographic examination methods during the 2000 Refueling Outage.

4. Seven (7) Linear and One (1) Rounded Surface Recordable Indications on the 8" Main Steam Circumferential Pipe Branch Connection Weld MS-W19BC were noted during performance of Magnetic Particle Examination. The 8 Recordable Surface Indications were removed by light Filing and Emory Cloth under Work Request 215515. Magnetic Particle Examinations were performed following Repair and No Indications were recorded.
5. One (1) Surface Recordable Indication on Safety Injection Pump 1A Integrally Welded Attachment Weld APSI-1A-S2 was recorded during performance of Magnetic Particle Examination. The 0.125" Curvilinear Indication was Acceptable per ASME Boiler and Pressure Vessel Code Section XI 1989 Edition Section IWC-3510-3.
6. Visual Indications recorded on Valve Bounet Bolting, Piping Supports and Hangers and during System Pressure Tests were: (1) evaluated and accepted or (2) repaired, reexamined and accepted by: Wisconsin Public Service Corporation Maintenance, Quality Control, Engineering and Technical Support and Inservice Inspection Personnel and reviewed by the Authorized Nuclear Inservice Inspector.

SUMMARY

An Inservice Inspection Program was performed at the Kewaunee Nuclear Power Plant from March 11, 1998 thru September 17, 1998 (Non Refueling Outage), October 17, 1998 thru November 27, 1998 (Closing of G1 following Refueling Outage) and November 30, 1998. Examinations were performed as scheduled in the Kewaunee Nuclear Power Plant Third 10-Year Inservice Inspection (ISI) Program 1994-2004 and started the requirements for the 3rd Interval; 2nd Period. A total of 67 Recordable Indications were detected. All Recordable Indications were corrected or accepted by ASME Boiler and Pressure Vessel Code Section XI 1989 Edition Acceptance Criteria, Repair/Replacement or Evaluation.

Phillip E. Bukes December 9, 1998

Phillip E. Bukes
Engineering and Technical Support
Plant Inservice Inspection Analyst

Date

ATTACHMENT 5

Letter from M. L. Marchi (WPSC)

To

Document Control Desk (NRC)

Dated

February 12, 1999

Examination Summary for Inservice Inspection (ISI) Class MC Program

**WISCONSIN PUBLIC SERVICE CORPORATION
KEWAUNEE NUCLEAR POWER PLANT
1ST INTERVAL: 1ST PERIOD: 1ST OUTAGE
1998
EXAMINATION SUMMARY**

INTRODUCTION

An Inservice Inspection (ISI) Program for the Class MC Reactor Building Containment Vessel was performed at the Kewaunee Nuclear Power Plant from October 17, 1998 thru November 27, 1998 (Closing of G1 following Refueling Outage) by Kewaunee Nuclear Power Plant and Lambert, MacGill, and Thomas, Inc. (LMT) examination personnel.

Examinations were performed to satisfy the requirements of:

- o ASME Boiler and Pressure Vessel Code Section XI 1992 Edition up to and including 1992 Addenda

The Inservice Inspection Program Plan located under Tab C was prepared by Wisconsin Public Service Corporation-Kewaunee Nuclear Power Plant for the 1st Interval: 1st Period: 1st Outage as identified in the Kewaunee Nuclear Power Plant First 10-Year Inservice Inspection (ISI) Program 1996-2006. Examinations during this Refueling Outage were performed to start the 1st Interval: 1st Period Examination Requirements of ASME Boiler and Pressure Vessel Code Section XI and Kewaunee Nuclear Power Plant First 10-Year Inservice Inspection (ISI) Program 1996-2006.

The following items were examined for the Class MC Reactor Building Containment Vessel:

- o Accessible Surface Areas
- o Longitudinal Welds and Circumferential Welds
- o Sleeve to Bellows Welds
- o Flange Welds
- o Seals and Gaskets
- o Moisture Barriers
- o Dissimilar Metal Welds
- o Bolted Connections
- o Containment Penetration Bellows
- o Airlocks

EXAMINATIONS

The examinations performed were in accordance with an approved Inservice Inspection Program Plan located under Tab C of the final report. Examination Procedures were approved prior to the start of examinations and certification documents relative to personnel, equipment and materials were reviewed and determined to be satisfactory.

Some of the arrangements and details of the Kewaunee Nuclear Power Plant Components and Piping Systems were designed and fabricated before ASME Boiler and Pressure Vessel Code Section XI Code requirements were established. Examinations performed were intended to examine 100% of the required surface or volume. In some cases, examinations were limited by geometric, metallurgical or design/access restrictions. In each case, the occurrence and cause of the limitation was documented. In all cases the maximum amount achievable was examined.

Witnessing and surveillance of the examinations were conducted by: United States Nuclear Regulatory Commission and Hartford Steam Boiler Inspection and Insurance Company.

RESULTS

Examinations resulted with the following Recordable Indications being noted on the basis of procedure recording criteria, which are generally more restrictive than specified ASME Boiler and Pressure Vessel Code Section XI Acceptance Standards.

Recordable Indications detected during the 1998 Refueling Outage are listed in Table 1 with a brief summary following. Specific data relative to all Recordable Indications and their dispositions by either corrective measures or acceptance by ASME Boiler and Pressure Vessel Code Section XI 1992 Edition up to and including 1992 Addenda Acceptance Criteria, Repair/Replacement or Evaluation are located in Tab F of the Final Report.

TABLE 1

<u>TYPE OR LOCATION OF RECORDABLE INDICATION (RI)</u>	<u>METHOD</u>	<u>NO. OF RI'S</u>
Reactor Building Containment Vessel	General Visual	4 Plates

ATTACHMENT 6

Letter from M. L. Marchi (WPSC)

To

Document Control Desk (NRC)

Dated

February 12, 1999

Steam Generator Synopsis for Eddy Current Examinations and Repairs

December 2, 1998

SP-36-084 File

cc - CR Steinhart KH Evers
 ML Marchi DE Cole
 KH Weinbauer CS Smoker

STEAM GENERATOR EXAMINATION AND REPAIR SUMMARY FOR THE 1998 REFUELING OUTAGE

STEAM GENERATOR A

Eddy Current Examinations

- 1) 100% bobbin coil examination of all non-repaired tubing, from tube end to tube end (880 tubes), and 100% bobbin coil examination of all repaired (sleeved) tubing, from top of sleeve hot leg to tube end cold leg (1669 tubes).

Of the 2549 tubes examined (35,686 tube support plate intersections), there were 305 tube support plate indications reported in 238 tubes. None of the tubes with reported indications were in excess of the Technical Specification plugging limit of two volts. The average voltage of 0.52 volts was about the same as the 1996 inspection. The voltage range extended from a low of 0.11 volts to a high of 1.72 volts. There were 93 tubes with wear indications at the AVB's, none in excess of the TS plugging limit of 50% throughwall. The largest indication reported at an AVB location was 35% throughwall. In general, the AVB indications have not grown significantly over the past few cycles

- 2) 100% plus point RPC examination of inservice Westinghouse HEJ sleeves, from 2" above the top of the sleeve to ~6 inches below the top of the HEJ (850 tubes), and 20% plus point RPC examination of inservice HEJ sleeves, from ~6" below the top of the sleeve to the bottom of the sleeve (170 tubes).

Of the 850 Westinghouse HEJ sleeves examined, 240 (28.2%) contained circumferential indications within the hardroll lower transition of the upper HEJ joint. 237 of the 240 locations (98.8%) fell outside of the revised pressure boundary (i.e. >0.95 inches below the hardroll upper transition). The remaining 3 tubes fell inside the pressure boundary and were removed from service. During the 1996 inspection, 53.7% of the inspected tubes contained indications, of which only 5.4% fell outside of the pressure boundary as defined at that time. No degradation was detected in the sleeve lower joints or the sleeve straight lengths.

- 3) 20% plus point RPC examination of inservice ABB welded sleeves, from 2" above the top of the sleeve to the bottom of the sleeve (88 tubes).

No degradation was detected in the ABB welded sleeves. This population included both 27"

tubesheet sleeves installed in 1992 and 1997 as well as the 39" sleeves installed in 1997 as part of the resleeving effort.

- 4) 100% plus point RPC of open row 1 and row 2 U-bends, from 07H to 07C (109 tubes), and 20% plus point RPC of open row 3 U-bends, from 07H to 07C (14 tubes).

Of the 123 u-bends examined, two indications of Primary Water Stress Corrosion Cracking (PWSCC) were detected in the low row u-bend region, one axial and one circumferentially oriented. Both indications were in row 1 tubes. These tubes were removed from service.

- 5) 100% RPC examination of all non-sleeved hot leg tubes, from the tube end to ~4 inches above the secondary face of the tubesheet. (880 tubes)

Of the 880 tubes examined, 45 tubes contained single or multiple axial crack-like indications requiring repair (5.1%). Of these 45 tubes, 30 were repaired by ABB using the sleeving technique. The remaining 15 were removed from service. By comparison, 34 tubes were reported during the 1996 inspection and 45 tubes were reported during the 1995 inspection containing single or multiple axial crack-like indications requiring repair.

- 6) 20% RPC examination of cold leg tubes, from the tube end to ~4 inches above the secondary face of the tubesheet (516 tubes).

Of the 516 tubes tested, one tube contained an indication at the top of the cold leg tubesheet. This indication was volumetric in nature and was sized at less than 50% throughwall in previous inspections dating back to 1994. No attempt to size this indication was made during the 1998 inspection. This tube was removed from service.

- 7) 100% plus point RPC examination of all HEJ laser welded repairs (381 tubes), 20% plus point RPC examination of HEJ laser welded repairs straight lengths (77 tubes), and 20% ultrasonic examination of laser weld repairs (77 tubes).

Fourteen of the 381 tubes contained an obstruction in which the eddy current probe was not able to transverse. Subsequent visual examinations revealed the sleeve had collapsed, preventing passage of the probe. These locations were removed from service. Of the 367 locations tested, nine tubes contained indications in the laser weld, and two tubes contained indications in the sleeve. The weld indications were identified with the high frequency plus point coil, which is indicative of ID cracking. The low frequency plus point coil was unable to detect these indications. As this is the first inspection employing the use of a high frequency plus point coil specifically designed to identify ID weld cracking, it is likely these ID cracks resulted from installation and were not service induced. The sleeve indications are most likely scratches or other "tooling marks" resulting from the original sleeve installation. However, for these two locations these indications could not be traced back to the original baseline data. All tube locations with indications in the weld or sleeve as described above were removed from service. Ultrasonic examinations were acceptable, with little to no change from the baseline ultrasonic data.

8) Augmented RPC testing at TSP intersections, as required by APC requirements.

Augmented RPC testing included plus point examinations of all dents greater than 5 volts, RPC examinations of all indications with a phase angle corresponding to a depth >45% throughwall and large mix residual signals. There were no indications reported in the dented tube intersections or in the large mix residuals. For those tubes RPC tested based on phase, all were reported containing indications suggestive of Outside Diameter Stress Corrosion Cracking (ODSCC), in which the 2 volt alternate repair criteria could be applied. No tubes were removed from service based on the augmented RPC test results.

Total Tubes Requiring Repair

There were 75 total tubes requiring repair as a result of the inservice eddy current examination. The breakdown is as follows (1996 results are also provided for comparison):

	<u>1998</u>	<u>1996</u>
Bobbin Examination:	0	0
Westinghouse HEJ Sleeve Examination:	3	859
ABB Sleeve Examination:	0	2
Low Row U-bend examination:	1	2
Hot Leg Crevice Examination:	45	34
Cold Leg Crevice Examination:	1	0
Westinghouse HEJ Laser Weld Repair Examination:	25	NA
Augmented TSP RPC Examination:	<u>0</u>	<u>2</u>
	75	899

HEJ Recovery

Plugs were removed from 102 tube locations previously plugged for indications in the hardroll lower transition of the upper HEJ joint. After plug removal, eddy current examinations were performed on the tubes to determine whether they could be returned to service based on the revised parent tube pressure boundary criteria. Of the 102 locations, 83 had acceptable eddy current results to support a return to service.

Tubesheet Sleeving

Of the 45 tubes with indications requiring repair as a result of tubesheet crevice degradation, 33 were reachable with 27" tubesheet sleeves. Two locations were rejected based on unacceptable ultrasonic examinations of the weld region, and one location was rejected based on unacceptable eddy current results of the lower sleeve joint region. A total of 30 tubes were sleeved.

Secondary Side Pressure Test

No indications of tube or plug leakage were identified during the initial hydrostatic leak test prior to the eddy current examinations. A final pressure test was performed at 125 psig secondary side

pressure following the repairs; no leakage was noted.

STEAM GENERATOR B

Eddy Current Examinations

- 1) 100% bobbin coil examination of all non-repaired tubing, from tube end to tube end (978 tubes), and 100% bobbin coil examination of all repaired (sleeved) tubing, from top of sleeve hot leg to tube end cold leg (1625 tubes).

Of the 2603 tubes examined (36,442 tube support plate intersections), there were 763 tube support plate indications reported in 470 tubes. None of the tubes with reported indications were in excess of the Technical Specification plugging limit of two volts. The average voltage of 0.58 volts was about the same as the 1996 inspection. The voltage range extended from a low of 0.11 volts to a high of 1.76 volts. One tube was excluded from application of the two volt alternate repair criteria as a result of not being able to examine this location with the required probe size. This location was removed from service. There were 218 tubes with wear indications at the AVB's, none in excess of the TS plugging limit of 50% throughwall. The largest indication reported at an AVB location was 23% throughwall. In general, the AVB indications have not grown significantly over the past few cycles

- 2) 100% plus point RPC examination of inservice Westinghouse HEJ sleeves, from 2" above the top of the sleeve to ~6 inches below the top of the HEJ (1329 tubes), and 20% plus point RPC examination of inservice HEJ sleeves, from ~6" below the top of the sleeve to the bottom of the sleeve (266 tubes).

Of the 1329 Westinghouse HEJ sleeves examined, 79 (5.94%) contained circumferential indications within the hardroll lower transition of the upper HEJ joint. 74 of the 79 locations (93.7%) fell outside of the revised pressure boundary (i.e. >0.95 inches below the hardroll upper transition). The remaining 5 tubes fell inside the pressure boundary and were removed from service. During the 1996 inspection, 31.5% of the inspected tubes contained indications, of which only 6.8% fell outside of the pressure boundary as defined at that time. No degradation was detected in the sleeve lower joints or the sleeve straight lengths.

- 3) 100% plus point RPC examination of inservice ABB welded sleeves, from 2" above the top of the sleeve to the bottom of the sleeve (4 tubes).

No degradation was detected in the ABB welded sleeves. This population included the 27" tubesheet sleeves installed in 1992.

- 4) 100% plus point RPC of open row 1 and row 2 U-bends, from 07H to 07C (79 tubes), and 20% plus point RPC of open row 3 U-bends, from 07H to 07C (12 tubes).

No indications of Primary Water Stress Corrosion Cracking (PWSCC) were detected in the low row u-bend region.

- 5) 100% RPC examination of all non-sleeved hot leg tubes, from tube end to ~4 inches above the secondary face of the tubesheet. (978 tubes)

Of the 978 tubes examined, 28 tubes contained single or multiple axial crack-like indications requiring repair (2.86%). Of these 28 tubes, 22 were repaired by ABB using the sleeving technique. The remaining 6 were removed from service. By comparison, 18 tubes were reported during the 1996 inspection and 34 tubes were reported during the 1995 inspection containing single or multiple axial crack-like indications requiring repair.

- 6) 20% RPC examination of cold leg tubes, from tube end to ~4 inches above the secondary face of the tubesheet (526 tubes).

No degradation was reported in the cold leg tubesheet crevice region.

- 7) 100% plus point RPC examination of all HEJ laser welded repairs (292 tubes), 20% plus point RPC examination of HEJ laser welded repairs straight lengths (59 tubes), and 20% ultrasonic examination of laser weld repairs (59 tubes).

Five of the 292 tubes contained an obstruction in which the eddy current probe was not able to transverse. Subsequent visual examinations revealed the sleeve had collapsed, preventing passage of the probe. These locations were removed from service. No degradation was reported in the 287 locations tested. Ultrasonic examinations were acceptable, with little to no change from the baseline ultrasonic data

- 8) Augmented RPC testing at TSP intersections, as required by APC requirements.

Augmented RPC testing included plus point examinations of all dents greater than 5 volts, RPC testing of all indications with a phase angle corresponding to a depth >45% throughwall and large mix residual signals. There were no indications reported in the dented tube intersections or in the large mix residuals. For those tubes RPC tested based on phase, all but one were reported containing indications suggestive of Outside Diameter Stress Corrosion Cracking (ODSCC), in which the 2 volt alternate repair criteria could be applied. The one tube location in which ODSCC could not be confirmed was removed from service.

Total Tubes Requiring Repair

There were 40 total tubes requiring repair as a result of the inservice eddy current examination. The breakdown is as follows (1996 results are also provided for comparison):

	<u>1998</u>	<u>1996</u>
Bobbin Examination:	1	5
Westinghouse HEJ Sleeve Examination:	5	547
ABB Sleeve Examination:	0	0
Low Row U-bend examination:	0	0
Hot Leg Crevice Examination:	28	18
Cold Leg Crevice Examination:	0	0
Westinghouse HEJ Laser Weld Repair Examination:	5	NA
Augmented TSP-RPC Examination:	<u>1</u>	<u>2</u>
	40	572

HEJ Recovery

Plugs were removed from 58 tube locations previously plugged for indications in the hardroll lower transition of the upper HEJ joint. After plug removal, eddy current examinations were performed on the tubes to determine whether they could be returned to service based on the revised parent tube pressure boundary criteria. Of the 58 locations, 49 had acceptable eddy current results to support a return to service.

Tubesheet Crevice Recovery

Plugs were removed from 48 tube locations previously plugged for indications in the tubesheet crevice region. After plug removal, eddy current examinations were performed on the tubes to determine whether they could be returned to service by sleeving. Of the 48 locations, 48 had acceptable eddy current results to support sleeving.

Tubesheet Sleeving

Of the 28 tubes with indications requiring repair as a result of tubesheet crevice degradation, 25 were reachable with 27" tubesheet sleeves. Including the 48 tubes from the tubesheet recovery program, the total sleeving scope was 73 tube locations. 3 locations were rejected based on unacceptable ultrasonic examinations of the weld region, and 10 locations were rejected based on unacceptable eddy current results of the lower sleeve joint region. A total of 60 tubes were sleeved.

Secondary Side Pressure Tests

During the initial hydrostatic leak test prior to the eddy current examinations, one plug in the cold leg was dripping water at a rate of approximately 1-drop every 2-3 minutes. The plug was a Westinghouse Alloy 690 plug installed in 1991. This plug was partially removed and replaced with a welded tubesheet plug. A final pressure test was performed at 125 psig secondary side pressure

following the repairs; no leakage was noted.

Final Numbers

		SG A	SG B
1	27" ABB Sleeves	102	64
2	39" ABB Welded Sleeves	366	0
3	Total ABB Sleeves (1+2)	468	64
4	27" W HEJ Sleeves (NDD)	210	160
5	30" W HEJ Sleeves (NDD)	100	299
6	36" W HEJ Sleeves (NDD)	387	838
7	Total HEJ Sleeves (NDD) (4+5+6)	697	1297
8	27" W HEJ Slvs (PTS)	15	3
9	30" W HEJ Slvs (PTS)	31	21
10	36" W HEJ Slvs (PTS)	187	50
11	Total HEJ Sleeves (PTS) (8+9+10)	233	74
12	30"W HEJ Slvs (HE LWR)	130	114
13	36"W HEJ Slvs (HE LWR)	148	80
14	Total HEJ Sleeves (HE LWR's) (12+13)	278	194
15	30" W HEJ Slvs (HR LWR)	9	13
16	36"W HEJ Slvs (HR LWR)	69	81
17	Total HEJ Sleeves (HR LWR's) (15+16)	78	94
18	Total HEJ Sleeves (LWR's) (14+17)	356	288
19	Tubes Plugged	801	716
20	Equivalent Plugs from W HEJ's ((7+11+14+18)/23)	55.91	72.13
21	Equivalent Plugs from 27" ABB Sleeves (3/23)	20.35	2.78
22	Total Equivalent Plugs (19+20+21)	877.26	790.91
23	Tubes Open	833	949
24	% Plugged (22/3388)	25.89%	23.34%
25	Equivalent SGTP	24.62%	


TP Olson

STEAM GENERATOR EDDY CURRENT FINAL RESULTS

STEAM GENERATOR A					
Scope	Description	Total Tubes Tested	Repairs		L* met
			Plugged	Sleeved	
20% UT	HEJ Laser Welds	77	0		
100% ET	HEJ sleeves	850	3		237
100% ET	HEJ Laser Welds	381	25		
20% ET	ABB sleeves	88	0		
100% ET	Hot Leg Crevice	880	15	30	
20% ET	Cold Leg Crevice	516	1		
100% ET	Low Row U-Bends	123	1		
100% ET	Bobbin Examination	2549	0		
SG A TOTALS		5464	45	30	

HEJ RESULTS:

240 of 850 inspected with indications (28.2%)
 237 of 240 indications met L criteria (98.8%)

HEJ LASER WELD RESULTS:

14 of 381 inspected were obstructed (3.67%)
 9 of 367 inspected with indications in weld (2.45%)
 2 of 367 inspected with indications in sleeve (0.54%)

HOT LEG CREVICE RESULTS:

45 of 880 inspected with indications (5.11%)
 30 of 45 with indications sleeves (66.67%)

STEAM GENERATOR B					
Scope	Description	Total Tubes Tested	Repairs		L* met
			Plugged	Sleeved	
20% UT	HEJ Laser Welds	59	0		
100% ET	HEJ sleeves	1329	6		74
100% ET	HEJ Laser Welds	292	4		
20% ET	ABB sleeves	4	0		
100% ET	Hot Leg Crevice	978	6	22	
20% ET	Cold Leg Crevice	526	0		
100% ET	Low Row U-Bends	91	0		
100% ET	Bobbin Examination	2603	2		
SG B TOTALS		5882	18	22	

HEJ RESULTS:

79 of 1329 inspected with indications (5.94%)
 74 of 79 indications met L criteria (93.7%)

HEJ LASER WELD RESULTS:

5 of 292 inspected were obstructed (1.71%)
 0 of 292 inspected with indications in weld
 0 of 292 inspected with indications in sleeve

HOT LEG CREVICE RESULTS:

28 of 978 inspected with indications (2.86%)
 22 of 28 with indications sleeved (78.5%)

HEJ RECOVERY:

Tubes in population: 104
Tubes aborted as a result of manipulator location: 2
Tubes aborted due to indications in lower sleeve joint: 17
Tubes aborted due to indications at tube support plates: 1
Tubes aborted due to indications in upper sleeve joint: 1
TOTAL HEJ SLEEVES RECOVERED: 83

SG A TUBESHEET RECOVERY

None Performed

SG A SLEEVING

Tubes in population: 38
Tubes aborted due to channelhead clearance: 5
Sleeves failing ultrasonic examination: 2
Sleeves failing eddy current baseline examination: 1
TOTAL TUBES SLEEVED: 30 (90.9% success rate)

SG A EQUIVALENT PLUGGED

% Plugged during 1995-1996 cycle: 24.94%
% Plugged during 1997-1998 cycle: 26.89%
% Plugged during 1998-2000 cycle as result of recovery: 25.89%
% Plugged during 1998-2000 cycle if no recovery performed: 28.77%
Net tube/margin increase from last cycle: 38 tubes/ 1.00%
Net margin gained as result of recovery: 2.88%

SG RECOVERY:

Tubes in population: 58
Tubes aborted due to indications in upper sleeve joint: 4
Tubes aborted due to indication in lower sleeve joint: 5
TOTAL HEJ SLEEVES RECOVERED: 49

SG B TUBESHEET RECOVERY:

Tubes in population: 49
Tubes aborted based on channelhead clearance: 1
Total tubes acceptable for sleeving: 48

SG B SLEEVING

Tubes in population: 73
Tubes aborted due to channelhead clearance: 0
Sleeves failing ultrasonic examination: 3
Sleeves failing eddy current baseline examination: 10
TOTAL TUBES SLEEVED: 60 (82.2% success rate)

SG B EQUIVALENT PLUGGED

% Plugged during 1995-1996 cycle: 17.694%
% Plugged during 1997-1998 cycle: 25.25%
% Plugged during 1998-2000 cycle as result of recovery: 23.34%
% Plugged during 1998-2000 cycle if no recovery performed: 26.45%
Net tubes/margin increase from last cycle: 69 tubes/ 1.91%
Net margin gained as result of recovery: 3.11%

OVERALL EQUIVALENT PLUGGED

% Plugged during 1995-1996 cycle: 21.32%
% Plugged during 1997-1998 cycle: 26.07%
% Plugged during 1998-2000 cycle as result of recovery: 24.62%
% Plugged during 1998-2000 cycle if no recovery performed: 27.61%
Net tubes/margin increase from last cycle: 107 tubes/ 1.45%
Net margin gained as result of recovery: 2.99%

ATTACHMENT 7

Letter from M. L. Marchi (WPSC)

To

Document Control Desk (NRC)

Dated

February 12, 1999

Functional Test Summary for Steam Generator 900 KIP Hydraulic Snubber

FUNCTIONAL TEST SUMMARY

Functional testing of the large bore hydraulic snubber installed on Steam Generator 1B was performed in accordance with SP 55-313 Rev. B "Steam Generator Hydraulic Snubber Testing" and 41378-1 (no revision) "Procedure For In-Place Testing Of 900 Kip Anker-Holth Snubbers At Kewaunee Nuclear Power plant".

The 900 Kip Anker-Holth snubber, S/N 25.12620.004-7, was subjected to the following tests:

- 1) Breakaway Force: Measured the force required to initiate movement in tension and compression directions.
- 2) Drag Force: Measured the force required to maintain movement in tension and compression directions.
- 3) Lockup Velocity: Measured the flow of fluid (for a piston velocity) at which the snubber activated to the velocity limiting mode in tension and compression directions.
- 4) Bleed Rate @ 100 Kips +/- 5 Kips: Measured the flow of fluid (for a piston velocity) at which the snubber bled while in the velocity limiting mode in tension and compression directions.

This test was performed to confirm test technique at a lower force.

- 5) Bleed Rate @ 500 Kips + 5 Kips: Measured the flow of fluid (for a piston velocity) at which the snubber bled while in the velocity limiting mode in tension and compression directions

The following is a tabulation of functional test results:

TEST LOAD @ 100 Kips

Test Parameter	Tension	Compression
Lockup Velocity:	1.04 IPM	0.98 IPM
Bleed Rate:	0.0137 IPM	0.0132 IPM

TEST LOAD @ 500 Kips

Test Parameter	Tension	Compression
Breakaway Force:	1721 lbs.	1628 lbs.
Drag Force:	4558 lbs.	4186 lbs.
Lockup Velocity:	1.08 IPM	0.96 IPM
Bleed Rate:	0.1315 IPM	0.1228 IPM

All test results were within the values specified in SP 55-313 Rev. B.

Additional Activities:

- 1) After the test data was reviewed and accepted by the Kewaunee representative, the snubber was reinstalled, the test fixture was removed, the control valve was reinstalled on the snubber using new o-rings and the control valve was filled and purged of air. Prior to connecting the reservoir line to the control valve, the reservoir was drained and refilled to approximately 50 % with new fluid.
- 2) An As-left VT-3 performed on the snubber, verified there were no reportable indications and that the snubber had been returned to its pretest configuration.

Michael L. Miller Sr. 11/17/98

Michael L. Miller Sr.
Sr. Engrg. Specialist
Wyle Laboratories

ATTACHMENT 8

Letter from M. L. Marchi (WPSC)

To

Document Control Desk (NRC)

Dated

February 12, 1999

NDE Data Sheets for 1998 Examinations Which Were Limited By Geometric,
Metallurgical, or Design/Access Restrictions

WISCONSIN PUBLIC SERVICE CORPORATION
KEWAUNEE NUCLEAR POWER PLANT
ULTRASONIC, LIQUID PENETRANT, MAGNETIC PARTICLE AND
VISUAL EXAMINATION LIMITATION TO EXAMINATION RECORD

REV.: ORIG.

SYSTEM OR COMPONENT: REACTOR VESSEL CLOSURE HEAD FLANGE
AND CONTROL ROD DRIVE MECHANISM

DRAWING NO.: M-1198 SH.1 of 2

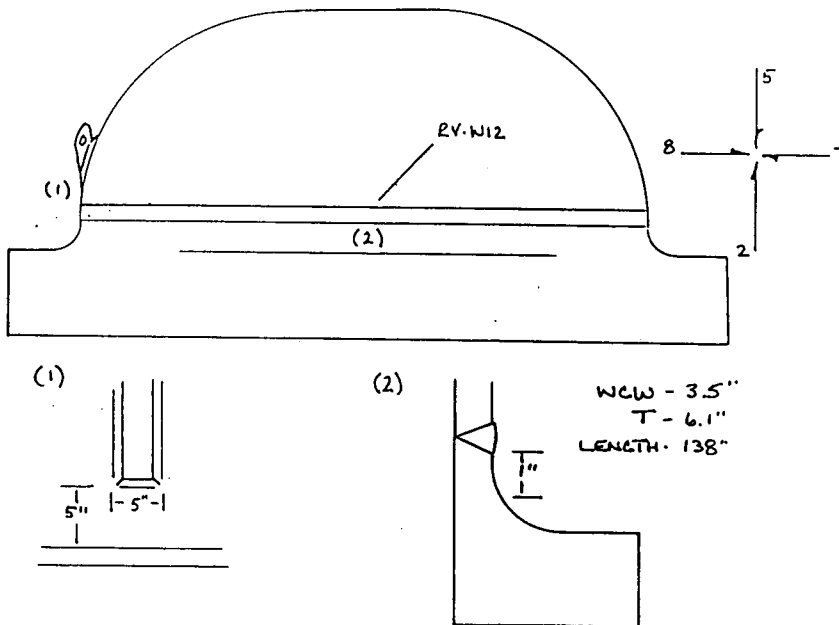
COMPONENT IDENTIFICATION: RV-W12 PROCEDURE: NEP NO. 15.9 REVISION: ORIG

ULTRASONIC: X LIQUID PENETRANT: MAGNETIC PARTICLE: VISUAL:

EXAMINER: Jeff Davis II DATE: 10/27/98
 LEVEL

EXAMINER: James P. Wain III DATE: 10-27-98
 LEVEL

SKETCH TO PROVIDE: APPROXIMATE SIZE, LOCATION, ORIENTATION, TYPE OF LIMITATION AND PERCENTAGE OF REDUCED EXAMINATION COVERAGE.



NOTE: ALL SCANS, 0°, 45°, & 60° EXAMINATIONS LIMITED DUE TO REACTOR HEAD TO FLANGE CONFIGURATION.
 SCAN 5, 45° & 60° EXAMINATIONS LIMITED DUE TO INTEGRAL WELDED ATTACHMENT (LIFTING WLG) LOCATED AT STUD HOLE 27 (85.5").

REDUCED CODE / PROCEDURAL COVERAGE: 23% *

* 23% of 138" (E of STUD HOLE 17 to E of STUD HOLE 33)

KEWAUNEE NUCLEAR POWER PLANT REVIEW: Phillip C. Baker DATE: October 29, 1998

AUTHORIZED NUCLEAR INSERVICE INSPECTOR REVIEW: Loynn Matygin DATE: 10-30-98

WISCONSIN PUBLIC SERVICE CORPORATION
KEWAUNEE NUCLEAR POWER PLANT
ULTRASONIC, LIQUID PENETRANT, MAGNETIC PARTICLE AND
VISUAL EXAMINATION LIMITATION TO EXAMINATION RECORD

REV.: ORIG.

SYSTEM OR COMPONENT: PRESSURIZER PZR

DRAWING NO.: M-1200

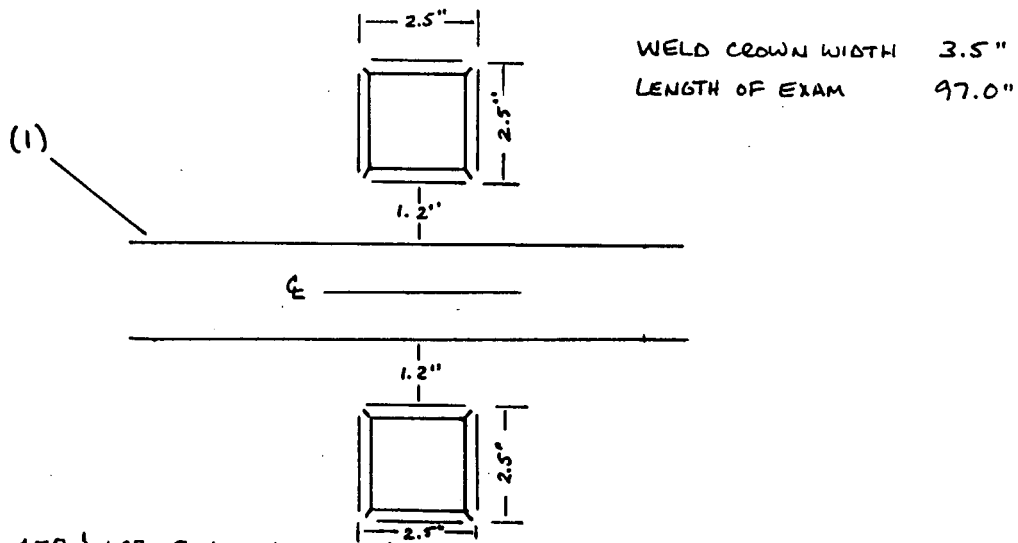
COMPONENT IDENTIFICATION: P-W3 / P-W5 PROCEDURE: NEP No. 15.9 REVISION: orig

ULTRASONIC: X LIQUID PENETRANT: MAGNETIC PARTICLE: VISUAL:

EXAMINER: Jeff Owes II DATE: 10/31/98
 LEVEL

EXAMINER: NA DATE: NA
 LEVEL

SKETCH TO PROVIDE: APPROXIMATE SIZE, LOCATION, ORIENTATION, TYPE OF LIMITATION AND PERCENTAGE OF REDUCED EXAMINATION COVERAGE.



NOTE: 0°, 45°, & 60° EXAMINATIONS LIMITED IN EACH SCAN DIRECTION DUE TO INTEGRAL WELDED ATTACHMENTS AT 145.5" CLOCKWISE WITH DIMENSIONS SHOWN ABOVE.

(1) DIMENSIONS / LOCATIONS ARE THE SAME FOR WELD P.W3 AND WELD P.W5.

PERCENTAGE OF PROCEDURAL CODE LIMITATION: 1.4% OF 97.0"

KEWAUNEE NUCLEAR POWER PLANT REVIEW: Phillip C. Bures DATE: November 3, 1998

AUTHORIZED NUCLEAR INSERVICE INSPECTOR REVIEW: Boya M... .. DATE: 11-3-98

WISCONSIN PUBLIC SERVICE CORPORATION

REV.: ORIG.

KEWAUNEE NUCLEAR POWER PLANT

ULTRASONIC, LIQUID PENETRANT, MAGNETIC PARTICLE AND VISUAL EXAMINATION LIMITATION TO EXAMINATION RECORD

SYSTEM OR COMPONENT: RCP PUMPS RCP-1A AND RCP-1B MAIN FLANGE AND No. 1 SEAL HOUSING BOLTING

DRAWING NO.: M-1205 SHT 1 of 2

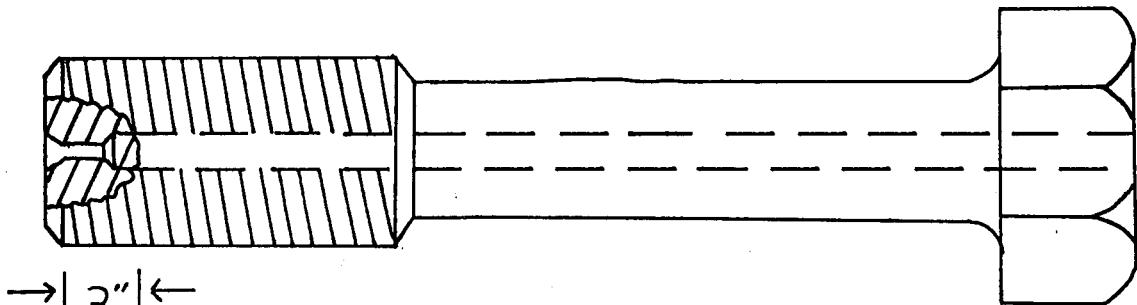
COMPONENT IDENTIFICATION: RCP-B9, RCP-B11 THRU RCP-B17 PROCEDURE: NEP No. 15.15 REVISION: Orig.

ULTRASONIC: X LIQUID PENETRANT: MAGNETIC PARTICLE: VISUAL:

EXAMINER: [Signature] III DATE: 10-30-98
LEVEL

EXAMINER: [Signature] II DATE: 10-30-98
LEVEL

SKETCH TO PROVIDE: APPROXIMATE SIZE, LOCATION, ORIENTATION, TYPE OF LIMITATION AND PERCENTAGE OF REDUCED EXAMINATION COVERAGE.



AREA OF REQUIRED VOLUME NOT EXAMINED DUE TO BOLT CONFIGURATION FOR 90° SURFACE EXAM AND 70° FORWARD EXAM

7.3% NOT EXAMINED (PER STUD)

KEWAUNEE NUCLEAR POWER PLANT REVIEW: Phillip C. Butkus DATE: November 5, 1998

AUTHORIZED NUCLEAR INSERVICE INSPECTOR REVIEW: [Signature] DATE: 11-6-98

WISCONSIN PUBLIC SERVICE CORPORATION
KEWAUNEE NUCLEAR POWER PLANT
ULTRASONIC, LIQUID PENETRANT, MAGNETIC PARTICLE AND
VISUAL EXAMINATION LIMITATION TO EXAMINATION RECORD

REV.: ORIG.

SYSTEM OR COMPONENT: RESIDUAL HEAT EXCHANGERS AHRS1-1A AND AHRS2-1B

DRAWING NO.: M-1207

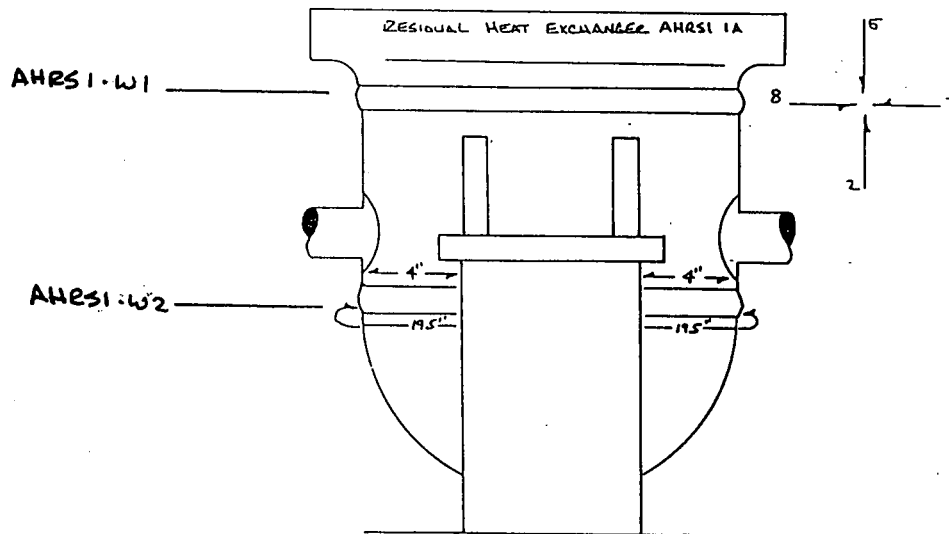
COMPONENT IDENTIFICATION: AHRS1-W2 PROCEDURE: NEP No. 15.16 REVISION: 015

ULTRASONIC: X LIQUID PENETRANT: MAGNETIC PARTICLE: VISUAL:

EXAMINER: *W. Carlin* III DATE: 10/24/98
 LEVEL

EXAMINER: *Jeff Swes* II DATE: 10/24/98
 LEVEL

SKETCH TO PROVIDE: APPROXIMATE SIZE, LOCATION, ORIENTATION, TYPE OF LIMITATION AND PERCENTAGE OF REDUCED EXAMINATION COVERAGE.



NOTE: SCAN 2, 5, 7, 8 100% EXAMINATION LIMITED TO AREAS NOTED ABOVE DUE TO SUPPORTS & SADDLE WELD INTERFERENCE.

REDUCED PROCEDURAL COVERAGE: 30.2%
 REDUCED CODE COVERAGE: 37.6%

KEWAUNEE NUCLEAR POWER PLANT REVIEW: *Phillip C. Butkus* DATE: October 30, 1998

AUTHORIZED NUCLEAR INSERVICE INSPECTOR REVIEW: *Roger M. Quinn* DATE: 10-30-98

KEWAUNEE NUCLEAR POWER PLANT

ULTRASONIC, LIQUID PENETRANT, MAGNETIC PARTICLE AND VISUAL EXAMINATION LIMITATION TO EXAMINATION RECORD

SYSTEM OR COMPONENT: RESIDUAL HEAT EXCHANGER AHRS1-1A AND AHRS2-1B

DRAWING NO.: M-1207

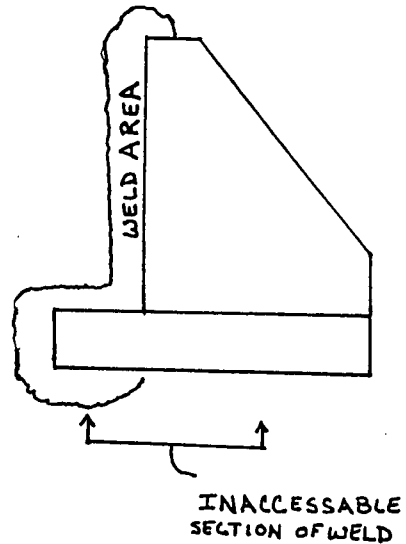
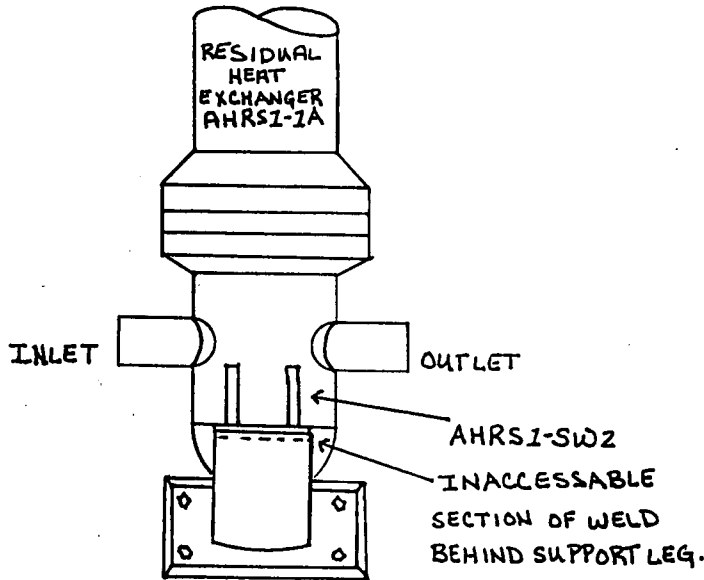
COMPONENT IDENTIFICATION: AHRS1-SW2 PROCEDURE: NEP NO. 15.6 REVISION: ORIG.

ULTRASONIC: LIQUID PENETRANT: X MAGNETIC PARTICLE: VISUAL:

EXAMINER: *Paul J. Paul* II DATE: 10-23-98
LEVEL

EXAMINER: NA DATE: NA
LEVEL

SKETCH TO PROVIDE: APPROXIMATE SIZE, LOCATION, ORIENTATION, TYPE OF LIMITATION AND PERCENTAGE OF REDUCED EXAMINATION COVERAGE.



PERCENTAGE OF REDUCED EXAMINATION COVERAGE = 20.7%

KEWAUNEE NUCLEAR POWER PLANT REVIEW: *Phillip C. Bueker*

DATE: October 30, 1998

AUTHORIZED NUCLEAR INSERVICE INSPECTOR REVIEW: *Roger W. Wain*

DATE: 10-30-98

WISCONSIN PUBLIC SERVICE CORPORATION
KEWAUNEE NUCLEAR POWER PLANT
ULTRASONIC, LIQUID PENETRANT, MAGNETIC PARTICLE AND
VISUAL EXAMINATION LIMITATION TO EXAMINATION RECORD

REV.: ORIG.

SYSTEM OR COMPONENT: REGENERATIVE HEAT EXCHANGER ARG

DRAWING NO.: M-1208

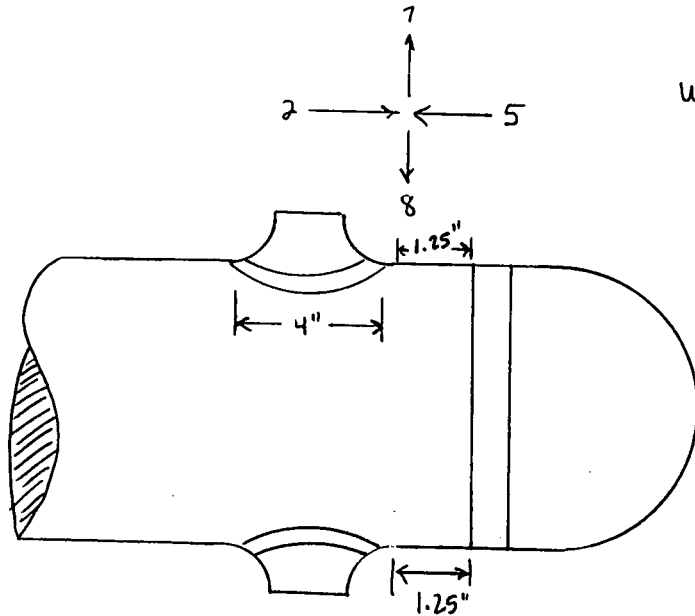
COMPONENT IDENTIFICATION: ARG-W 9 PROCEDURE: NEP NO. 15.17 REVISION: ORIG

ULTRASONIC: X LIQUID PENETRANT: MAGNETIC PARTICLE: VISUAL:

EXAMINER: Jerry P. Ware III DATE: 11-11-98
 LEVEL

EXAMINER: NA DATE: NA
 LEVEL

SKETCH TO PROVIDE: APPROXIMATE SIZE, LOCATION, ORIENTATION, TYPE OF LIMITATION AND PERCENTAGE OF REDUCED EXAMINATION COVERAGE.



45° SCAN 2 LIMITED DUE TO NOZZLE CONFIGURATIONS ON TOP AND BOTTOM.

REDUCED CODE COVERAGE 1.5%
 REDUCED PROCEDURAL COVERAGE .8%

KEWAUNEE NUCLEAR POWER PLANT REVIEW: Phillip C. Becker DATE: November 11, 1998

AUTHORIZED NUCLEAR INSERVICE INSPECTOR REVIEW: Roger Wajima DATE: 11-12-98

WISCONSIN PUBLIC SERVICE CORPORATION
KEWAUNEE NUCLEAR POWER PLANT
ULTRASONIC, LIQUID PENETRANT, MAGNETIC PARTICLE AND
VISUAL EXAMINATION LIMITATION TO EXAMINATION RECORD

REV.: ORIG.

SYSTEM OR COMPONENT: SEALWATER INJECTION FILTERS AFSI-1A AND AFSI-1B

DRAWING NO.: M-1212

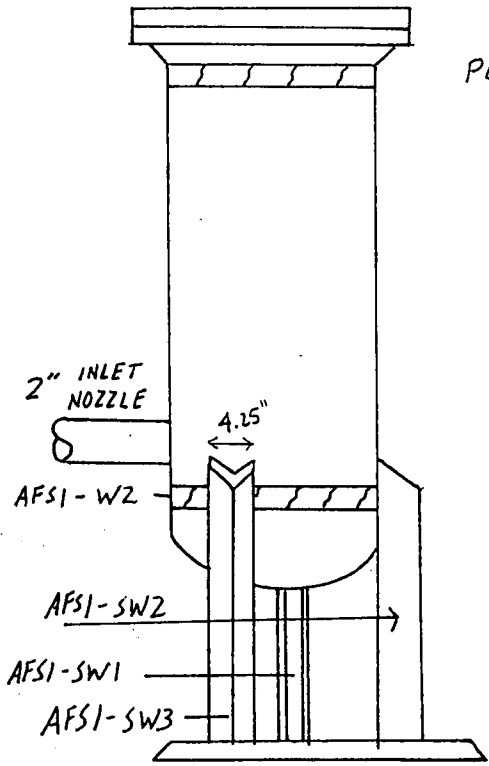
COMPONENT IDENTIFICATION: AFSI-W2 PROCEDURE: NEP No. 15.16 REVISION: Orig.

ULTRASONIC: X LIQUID PENETRANT: _____ MAGNETIC PARTICLE: _____ VISUAL: _____

EXAMINER: [Signature] III DATE: 11-14-98
 LEVEL

EXAMINER: [Signature] II DATE: 11-14-98
 LEVEL

SKETCH TO PROVIDE: APPROXIMATE SIZE, LOCATION, ORIENTATION, TYPE OF LIMITATION AND PERCENTAGE OF REDUCED EXAMINATION COVERAGE.



PERCENT OF LIMITED CODE COVERAGE : 35.8%
 PERCENT OF LIMITED PROCEDURE COVERAGE : 35.9%

45° AND 60° SCANS LIMITED BY 2" INLET NOZZLE 1.3" FROM TOE OF 1A-2 (AFSI-W2).

0°, 45° AND 60° SCANS LIMITED BY 4.25 INCHES FROM AFSI-SW1, AFSI-SW2 AND AFSI-SW3 FOR A TOTAL OF 12.75"

KEWAUNEE NUCLEAR POWER PLANT REVIEW: Phillip C. Bakes DATE: November 16, 1998
 AUTHORIZED NUCLEAR INSERVICE INSPECTOR REVIEW: Roger Matzger DATE: 11-18-98

WISCONSIN PUBLIC SERVICE CORPORATION
KEWAUNEE NUCLEAR POWER PLANT
ULTRASONIC, LIQUID PENETRANT, MAGNETIC PARTICLE AND
VISUAL EXAMINATION LIMITATION TO EXAMINATION RECORD

REV.: ORIG.

SYSTEM OR COMPONENT: SAFETY INJECTION PUMPS APSI - 1A AND APSI - 1B

DRAWING NO.: M-1707

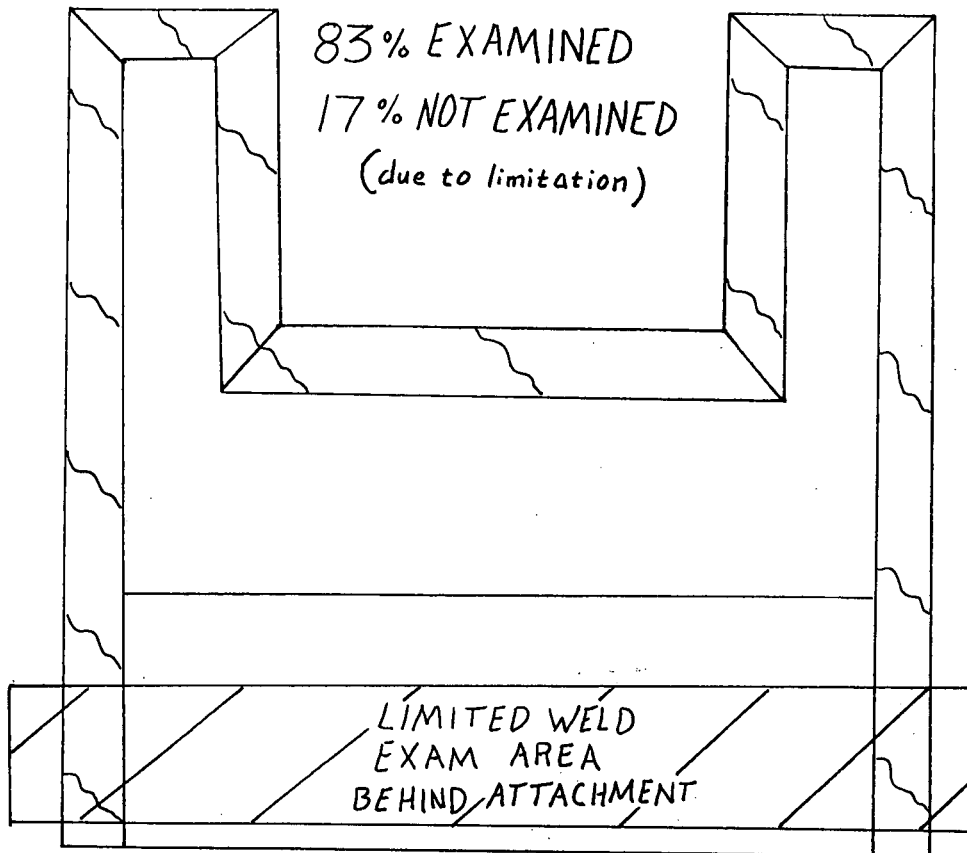
COMPONENT IDENTIFICATION: ^{APSI - 1B - 53}APSI - 1A - 52 PROCEDURE: NEP No. 15.7 REVISION: Orig.

ULTRASONIC: _____ LIQUID PENETRANT: _____ MAGNETIC PARTICLE: X VISUAL: _____

EXAMINER: [Signature] II DATE: 11-3-98
LEVEL

EXAMINER: [Signature] II DATE: 11-3-98
LEVEL

SKETCH TO PROVIDE: APPROXIMATE SIZE, LOCATION, ORIENTATION, TYPE OF LIMITATION AND PERCENTAGE OF REDUCED EXAMINATION COVERAGE.



KEWAUNEE NUCLEAR POWER PLANT REVIEW: Phillip C. Buker DATE: November 5, 1998

AUTHORIZED NUCLEAR INSERVICE INSPECTOR REVIEW: [Signature] DATE: 11-6-98

WISCONSIN PUBLIC SERVICE CORPORATION
KEWAUNEE NUCLEAR POWER PLANT
ULTRASONIC, LIQUID PENETRANT, MAGNETIC PARTICLE AND
VISUAL EXAMINATION LIMITATION TO EXAMINATION RECORD

REV.: ORIG.

SYSTEM OR COMPONENT: 3" R.C. TO PRESSURIZER

DRAWING NO.: ISIM-874-2

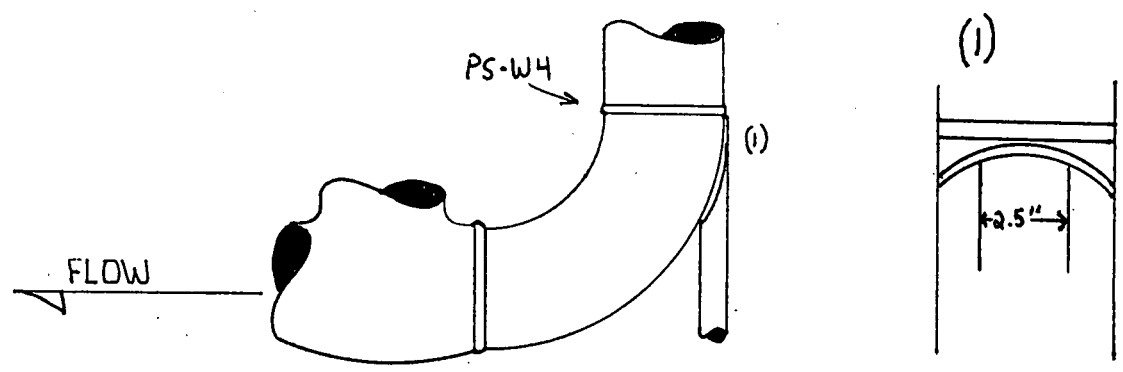
COMPONENT IDENTIFICATION: PS-W4 PROCEDURE: NEP NO. 15.6 REVISION: DRIG.

ULTRASONIC: LIQUID PENETRANT: X MAGNETIC PARTICLE: VISUAL:

EXAMINER: *Davis Thomas* II DATE: 10-29-98
 LEVEL

EXAMINER: N A DATE: N A
 LEVEL

SKETCH TO PROVIDE: APPROXIMATE SIZE, LOCATION, ORIENTATION, TYPE OF LIMITATION AND PERCENTAGE OF REDUCED EXAMINATION COVERAGE.



NOTE : NO EXAMINATION PERFORMED FOR 2.5" OF
 DOWNSTREAM BASE METAL DUE TO 3/4" LINE.
 PERCENTAGE OF EXAM LIMITATION 8.8 %

KEWAUNEE NUCLEAR POWER PLANT REVIEW: *Phillip C. Bueke* DATE: *October 30, 1998*
 AUTHORIZED NUCLEAR INSERVICE INSPECTOR REVIEW: *Praga Mjuni* DATE: *10-21-98*

WISCONSIN PUBLIC SERVICE CORPORATION
KEWAUNEE NUCLEAR POWER PLANT
ULTRASONIC, LIQUID PENETRANT, MAGNETIC PARTICLE AND
VISUAL EXAMINATION LIMITATION TO EXAMINATION RECORD

REV.: ORIG.

SYSTEM OR COMPONENT: PRESSURIZED SURGE LINE

DRAWING NO.: ISIM-892

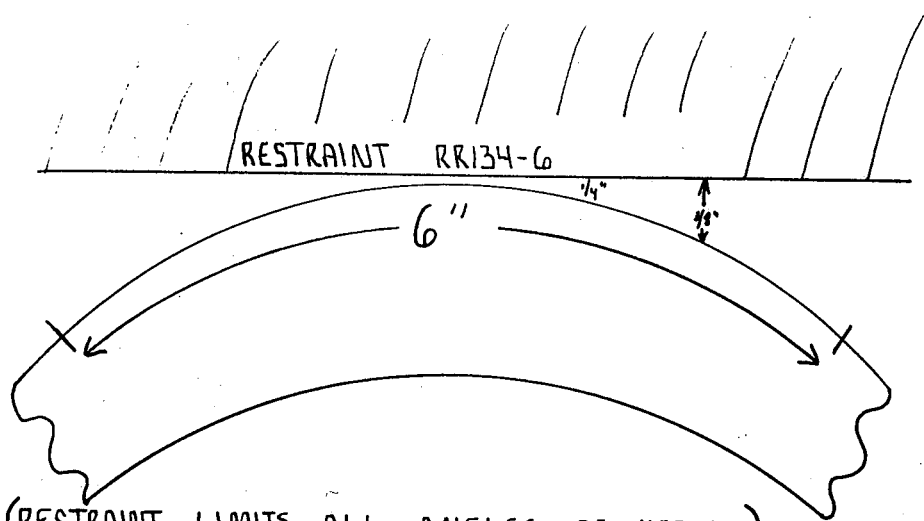
COMPONENT IDENTIFICATION: RC-W64 PROCEDURE: NEP NO. 1516 REVISION: DRIG.

ULTRASONIC: X LIQUID PENETRANT: MAGNETIC PARTICLE: VISUAL:

EXAMINER: *John Thomas* II DATE: 11-18-98
 LEVEL

EXAMINER: *W. C. ...* III DATE: 11-18-98
 LEVEL

SKETCH TO PROVIDE: APPROXIMATE SIZE, LOCATION, ORIENTATION, TYPE OF LIMITATION AND PERCENTAGE OF REDUCED EXAMINATION COVERAGE.



(RESTRAINT LIMITS ALL ANGLES 0°, 45°, 60°)
 DUE TO LIMITED ACCESS. NON REMOVABLE
 LIMITATION.

PROCEDURAL REDUCED COVERAGE 20 %
 CODE REDUCED COVERAGE 21.6 %

KEWAUNEE NUCLEAR POWER PLANT REVIEW: *Phillips C. Burke* DATE: November 19, 1998

AUTHORIZED NUCLEAR INSERVICE INSPECTOR REVIEW: *Royce McGinn* DATE: 11-20-98

WISCONSIN PUBLIC SERVICE CORPORATION
KEWAUNEE NUCLEAR POWER PLANT
ULTRASONIC, LIQUID PENETRANT, MAGNETIC PARTICLE AND
VISUAL EXAMINATION LIMITATION TO EXAMINATION RECORD

REV.: ORIG.

SYSTEM OR COMPONENT: PRESSURIZER SURGE LINE

DRAWING NO.: ISIM - 892

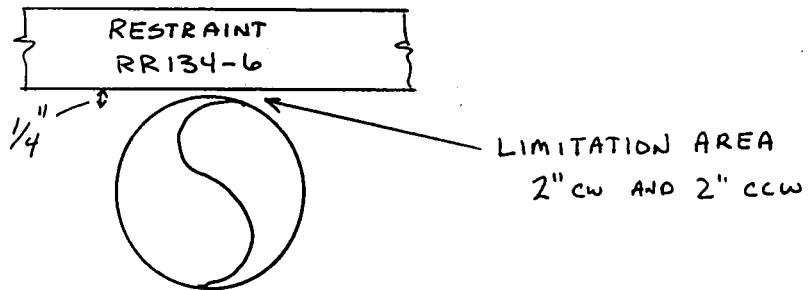
COMPONENT IDENTIFICATION: RC-W64 PROCEDURE: NEPNO.15.6 REVISION: ORIG.

ULTRASONIC: LIQUID PENETRANT: X MAGNETIC PARTICLE: VISUAL:

EXAMINER: *Jay P. Wm* *III* DATE: *11-18-98*
LEVEL

EXAMINER: *NA* DATE: *NA*
LEVEL

SKETCH TO PROVIDE: APPROXIMATE SIZE, LOCATION, ORIENTATION, TYPE OF LIMITATION AND PERCENTAGE OF REDUCED EXAMINATION COVERAGE.



4" CIRC AREA LIMITED DUE TO NON REMOVABLE RESTRAINT.

REDUCED EXAMINATION COVERAGE

12.7%

KEWAUNEE NUCLEAR POWER PLANT REVIEW: *Phillips C. Butts* DATE: *November 19, 1998*
AUTHORIZED NUCLEAR INSERVICE INSPECTOR REVIEW: *Roger McGuire* DATE: *11-19-98*

WISCONSIN PUBLIC SERVICE CORPORATION
KEWAUNEE NUCLEAR POWER PLANT
ULTRASONIC, LIQUID PENETRANT, MAGNETIC PARTICLE AND
VISUAL EXAMINATION LIMITATION TO EXAMINATION RECORD

REV.: ORIG.

SYSTEM OR COMPONENT: PRESSURIZER SURGE LINE

DRAWING NO.: ISIM-892

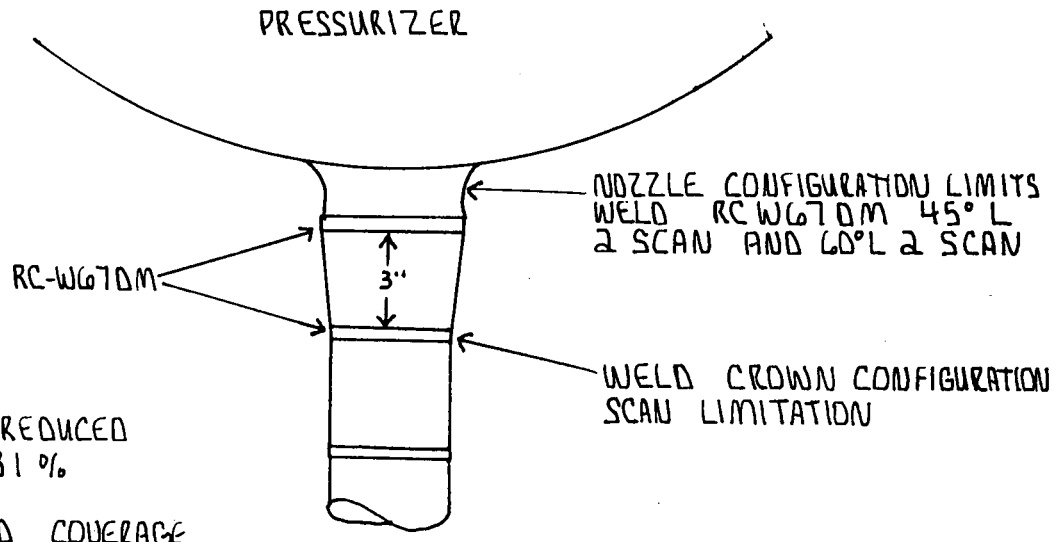
COMPONENT IDENTIFICATION: RC-W67DM PROCEDURE: NEP NO. 15.14 REVISION: ORIG.

ULTRASONIC: X LIQUID PENETRANT: MAGNETIC PARTICLE: VISUAL:

EXAMINER: *Lewis Thomas* II DATE: 11-17-98
LEVEL

EXAMINER: *W. Carlin* III DATE: 11-17-98
LEVEL

SKETCH TO PROVIDE: APPROXIMATE SIZE, LOCATION, ORIENTATION, TYPE OF LIMITATION AND PERCENTAGE OF REDUCED EXAMINATION COVERAGE.



PROCEDURAL REDUCED
COVERAGE = 31 %

CODE REDUCED COVERAGE
= 30 %

KEWAUNEE NUCLEAR
POWER PLANT REVIEW: *Phillips C. Bukes* DATE: November 18, 1998

AUTHORIZED NUCLEAR
INSERVICE INSPECTOR REVIEW: *Royce McGinnis* DATE: 11-19-98

WISCONSIN PUBLIC SERVICE CORPORATION

REV.: ORIG.

KEWAUNEE NUCLEAR POWER PLANT
 ULTRASONIC, LIQUID PENETRANT, MAGNETIC PARTICLE AND
 VISUAL EXAMINATION LIMITATION TO EXAMINATION RECORD

SAFETY INJECTION PUMPS

SYSTEM OR COMPONENT: DISCH. PIPING TO PEN. ZBN AND RWST

DRAWING NO.: 151M-934-2

COMPONENT IDENTIFICATION: SI-W249 PROCEDURE: NEP No. 15.16 REVISION: Orig

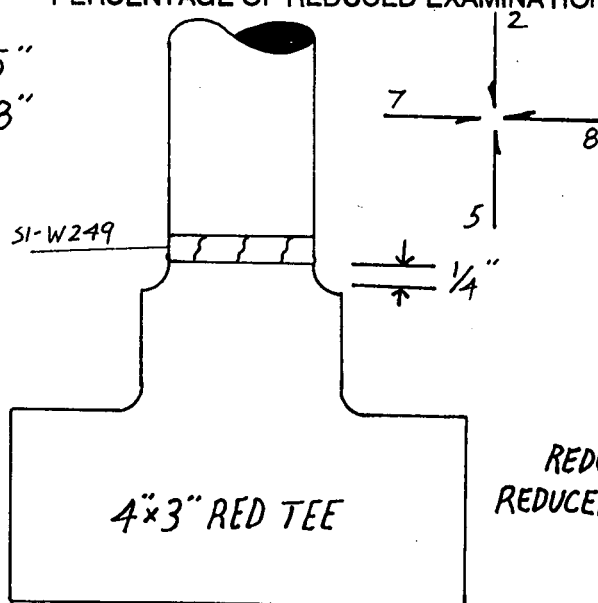
ULTRASONIC: X LIQUID PENETRANT: _____ MAGNETIC PARTICLE: _____ VISUAL: _____

EXAMINER: [Signature] II DATE: 11-9-98
 LEVEL

EXAMINER: [Signature] II DATE: 11-9-98
 LEVEL

SKETCH TO PROVIDE: APPROXIMATE SIZE, LOCATION, ORIENTATION, TYPE OF LIMITATION AND PERCENTAGE OF REDUCED EXAMINATION COVERAGE.

WCW = .625"
 THICKNESS = .438"



REDUCED CODE COVERAGE: 15.5%
 REDUCED PROCEDURE COVERAGE: 40.5%

SCANS 5, 7, AND 8 LIMITED DUE TO TEE CONFIGURATION
 - SEE ABOVE SKETCH FOR DIMENSIONS

KEWAUNEE NUCLEAR POWER PLANT REVIEW: [Signature] DATE: November 11, 1998
 AUTHORIZED NUCLEAR INSERVICE INSPECTOR REVIEW: [Signature] DATE: 11-12-98

WISCONSIN PUBLIC SERVICE CORPORATION
KEWAUNEE NUCLEAR POWER PLANT
ULTRASONIC, LIQUID PENETRANT, MAGNETIC PARTICLE AND
VISUAL EXAMINATION LIMITATION TO EXAMINATION RECORD

REV.: ORIG.

SYSTEM OR COMPONENT: SAFETY INJECTION PUMPS DISCH.
PIPING TO PEN 28 N & RWST

DRAWING NO.: ISIM-934-2

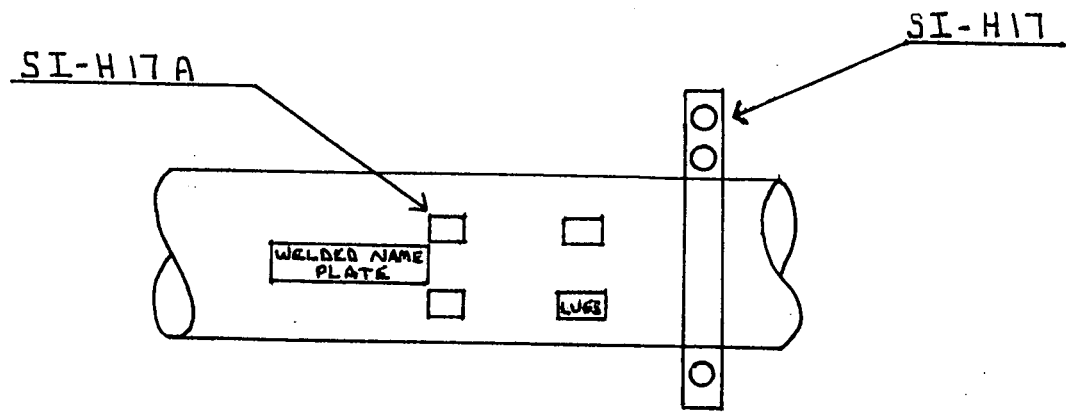
COMPONENT IDENTIFICATION: SI-H17A PROCEDURE: NEP NO. 15.6 REVISION: DRIG.

ULTRASONIC: LIQUID PENETRANT: X MAGNETIC PARTICLE: VISUAL:

EXAMINER: *David Thomas* II DATE: 10-26-98
 LEVEL

EXAMINER: NA DATE: NA
 LEVEL

SKETCH TO PROVIDE: APPROXIMATE SIZE, LOCATION, ORIENTATION, TYPE OF LIMITATION AND PERCENTAGE OF REDUCED EXAMINATION COVERAGE.



NAME PLATE .20" FROM TOE OF
 WELD ON 2 LUGS

PERCENTAGE OF REDUCED EXAMINATION
 COVERAGE = 1%

KEWAUNEE NUCLEAR
 POWER PLANT REVIEW: *Phillip C. Bures* DATE: October 27, 1998

AUTHORIZED NUCLEAR
 INSERVICE INSPECTOR REVIEW: *Ryan M. Quinn* DATE: 10-28-98

WISCONSIN PUBLIC SERVICE CORPORATION

REV.: ORIG.

KEWAUNEE NUCLEAR POWER PLANT

ULTRASONIC, LIQUID PENETRANT, MAGNETIC PARTICLE AND VISUAL EXAMINATION LIMITATION TO EXAMINATION RECORD

SI - FROM CNTMT DEN. 10 TO REACTOR

SYSTEM OR COMPONENT: FROM ACMTR 10 TO LOOP B COLD LEG

DRAWING NO.: 151M-938-1

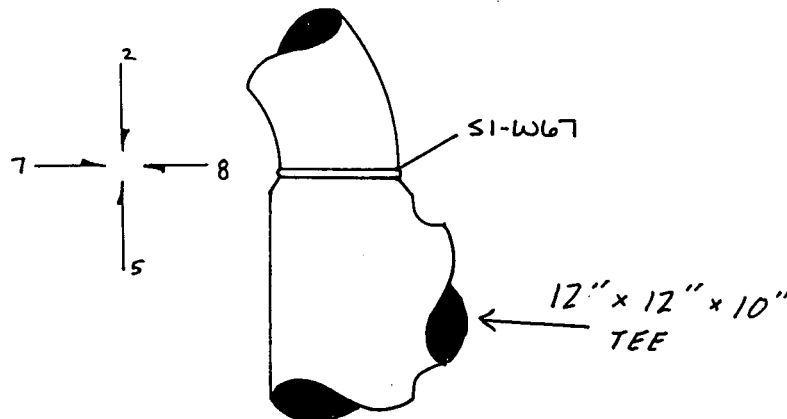
COMPONENT IDENTIFICATION: SI-W67 PROCEDURE: NED No. 15.16 REVISION: 0115

ULTRASONIC: X LIQUID PENETRANT: MAGNETIC PARTICLE: VISUAL:

EXAMINER: Jeff Dues II LEVEL DATE: 11/06/98

EXAMINER: Greg Williams II LEVEL DATE: 11-06-98

SKETCH TO PROVIDE: APPROXIMATE SIZE, LOCATION, ORIENTATION, TYPE OF LIMITATION AND PERCENTAGE OF REDUCED EXAMINATION COVERAGE.



NOTE: NO SCAN 5, SCAN 7 & 8 LIMITED TO WELD & DOWNSTREAM BASE METAL ONLY DUE TO O.D. TAPER OF TEE.

PERCENT OF CODE LIMITATION: 30%
PERCENT OF PROCEDURE LIMITATION: 45%

KEWAUNEE NUCLEAR POWER PLANT REVIEW: Phillip C. Bures DATE: November 7, 1998

AUTHORIZED NUCLEAR INSERVICE INSPECTOR REVIEW: Ryan McIntyre DATE: 11-7-98

WISCONSIN PUBLIC SERVICE CORPORATION
KEWAUNEE NUCLEAR POWER PLANT
ULTRASONIC, LIQUID PENETRANT, MAGNETIC PARTICLE AND
VISUAL EXAMINATION LIMITATION TO EXAMINATION RECORD

REV.: ORIG.

SYSTEM OR COMPONENT: REACTOR COOLANT FROM PRESSURIZER TO PRESSURIZER RELIEF TANK

DRAWING NO.: 1S1M-940-1

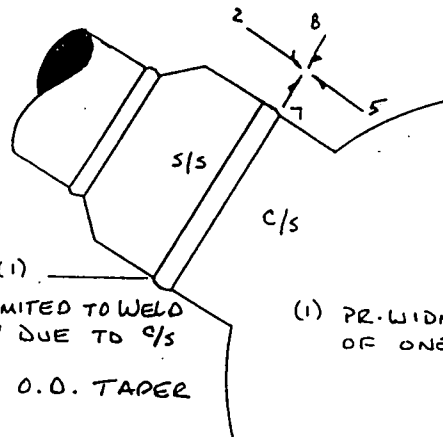
COMPONENT IDENTIFICATION: PR-WIDM PROCEDURE: NEP No. 15.14 REVISION: ORIS

ULTRASONIC: X LIQUID PENETRANT: MAGNETIC PARTICLE: VISUAL:

EXAMINER: Jeff Dues II LEVEL DATE: 11/03/98

EXAMINER: Greg Williams II LEVEL DATE: 11-03-98

SKETCH TO PROVIDE: APPROXIMATE SIZE, LOCATION, ORIENTATION, TYPE OF LIMITATION AND PERCENTAGE OF REDUCED EXAMINATION COVERAGE.



NOTE: NO SCAN 5, SCAN 7 & 8 LIMITED TO WELD AND UIS BASE METAL ONLY DUE TO C/S MATERIAL.
 SCAN 2 LIMITED DUE TO O.D. TAPER

(1) PR-WIDM & PR-WZGDM ARE TYPICAL OF ONE ANOTHER.

PERCENTAGE OF CODE/PROCEDURE LIMITATION: 50%

ACTUAL PART THICKNESS: 1.2"

CAL. BLOCK (WPS-17) THICKNESS: 0.719"

ADEQUATE SCREEN RANGE ACHIEVED UTILIZING WPS-17

45° I.D. ROLL AT 6.2 DIVISIONS.

60° I.D. ROLL AT 8.1 DIVISIONS.

KEWAUNEE NUCLEAR POWER PLANT REVIEW: Phillip C. Bakes

DATE: November 5, 1998

AUTHORIZED NUCLEAR INSERVICE INSPECTOR REVIEW: Praga Mitgwin

DATE: 11-6-98

KEWAUNEE NUCLEAR POWER PLANT

ULTRASONIC, LIQUID PENETRANT, MAGNETIC PARTICLE AND VISUAL EXAMINATION LIMITATION TO EXAMINATION RECORD

SYSTEM OR COMPONENT: REACTOR COOLANT FROM PRESSURIZER TO PRESSURIZER RELIEF TANK

DRAWING NO.: 1S1M-940-2

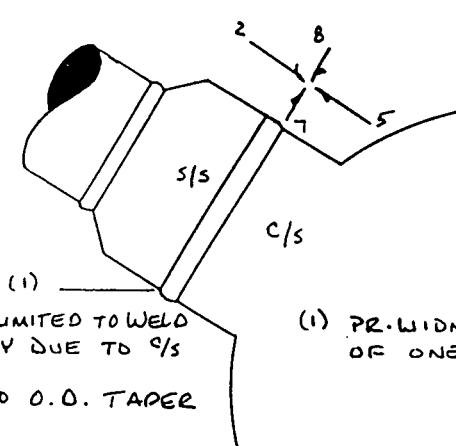
COMPONENT IDENTIFICATION: PR-W26DM PROCEDURE: NEP No. 15.14 REVISION: 005

ULTRASONIC: X LIQUID PENETRANT: MAGNETIC PARTICLE: VISUAL:

EXAMINER: Jeff Jones II DATE: 11/03/98
LEVEL

EXAMINER: Greg Williams I DATE: 11-03-98
LEVEL

SKETCH TO PROVIDE: APPROXIMATE SIZE, LOCATION, ORIENTATION, TYPE OF LIMITATION AND PERCENTAGE OF REDUCED EXAMINATION COVERAGE.



NOTE: NO SCAN 5, SCAN 7 & 8 LIMITED TO WELD AND U/S BASE METAL ONLY DUE TO 9% MATERIAL.
SCAN 2 LIMITED DUE TO O.O. TAPER
U/S = UPSTREAM

(i) PR-WIDM & PR-W26DM ARE TYPICAL OF ONE ANOTHER.

PERCENTAGE OF CODE/PROCEDURE LIMITATION: 50%

ACTUAL PART THICKNESS: 1.2"
CAL. BLOCK (WPS-17) THICKNESS: 0.719"

ADEQUATE SCREEN RANGE ACHIEVED UTILIZING WPS-17
45° I.D. ROLL AT 6.2 DIVISIONS.
60° I.D. ROLL AT 8.1 DIVISIONS.

KEWAUNEE NUCLEAR POWER PLANT REVIEW: Phillip C. Buker DATE: November 5, 1998

AUTHORIZED NUCLEAR INSERVICE INSPECTOR REVIEW: Greg Williams DATE: 11-6-98

WISCONSIN PUBLIC SERVICE CORPORATION
KEWAUNEE NUCLEAR POWER PLANT
ULTRASONIC, LIQUID PENETRANT, MAGNETIC PARTICLE AND
VISUAL EXAMINATION LIMITATION TO EXAMINATION RECORD

REV.: ORIG.

SYSTEM OR COMPONENT: REACTOR COOLANT - FROM PRESSURIZER TO PRESSURIZER RELIEF TANK.

DRAWING NO.: ISIM-940.2

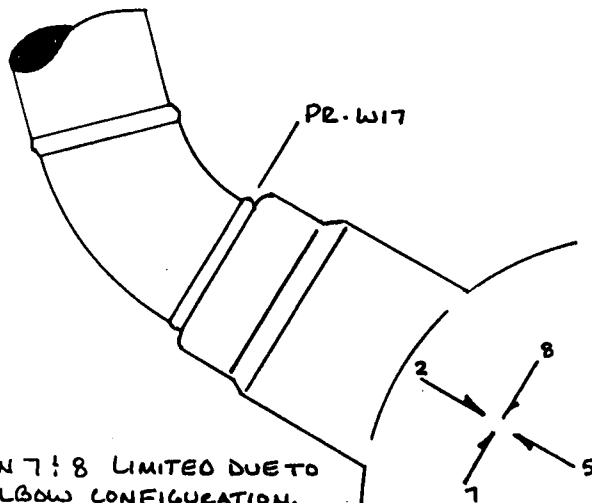
COMPONENT IDENTIFICATION: PR-W17 PROCEDURE: NEP No. 15.16 REVISION: 019

ULTRASONIC: X LIQUID PENETRANT: MAGNETIC PARTICLE: VISUAL:

EXAMINER: Jeff Dewes II DATE: 10/28/98
 LEVEL

EXAMINER: W. Carlin III DATE: 10/28/98
 LEVEL

SKETCH TO PROVIDE: APPROXIMATE SIZE, LOCATION, ORIENTATION, TYPE OF LIMITATION AND PERCENTAGE OF REDUCED EXAMINATION COVERAGE.



NOTE: NO SCAN 5, SCAN 7 + 8 LIMITED DUE TO SAFE END TO ELBOW CONFIGURATION.

PERCENTAGE OF LIMITATION PER PROCEDURE 49.8%
 PERCENTAGE OF LIMITATION PER LOOE 51.8%

KEWAUNEE NUCLEAR POWER PLANT REVIEW: Phillip C. Burke DATE: October 29, 1998

AUTHORIZED NUCLEAR INSERVICE INSPECTOR REVIEW: Royce Johnson DATE: 10-30-98

WISCONSIN PUBLIC SERVICE CORPORATION
KEWAUNEE NUCLEAR POWER PLANT
ULTRASONIC, LIQUID PENETRANT, MAGNETIC PARTICLE AND
VISUAL EXAMINATION LIMITATION TO EXAMINATION RECORD

REV.: ORIG.

SYSTEM OR COMPONENT: CUC - FROM LOOP B OF PUMP SUCTION TO REGENERATIVE HT. EXCH.

DRAWING NO.: ISIM-1474

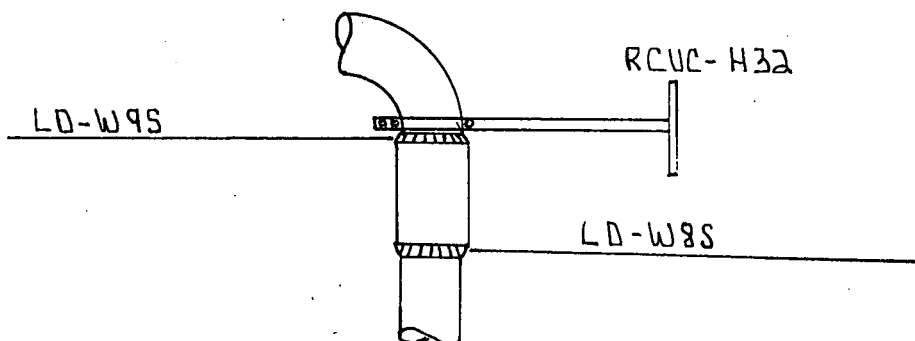
COMPONENT IDENTIFICATION: LD-W95 PROCEDURE: NEP NO. 15.6 REVISION: ORIG.

ULTRASONIC: LIQUID PENETRANT: X MAGNETIC PARTICLE: VISUAL:

EXAMINER: *[Signature]* II DATE: 10-29-98
 LEVEL

EXAMINER: N A DATE: N A
 LEVEL

SKETCH TO PROVIDE: APPROXIMATE SIZE, LOCATION, ORIENTATION, TYPE OF LIMITATION AND PERCENTAGE OF REDUCED EXAMINATION COVERAGE.



NOTE: NO EXAMINATION PERFORMED ON DOWNSTREAM BASE METAL DUE TO RCUC-H32.

PERCENTAGE OF EXAM LIMITATION 27.8 %

KEWAUNEE NUCLEAR POWER PLANT REVIEW: *Phillip E. Butka* DATE: October 30, 1998

AUTHORIZED NUCLEAR INSERVICE INSPECTOR REVIEW: *Roger McGuire* DATE: 10-30-98

WISCONSIN PUBLIC SERVICE CORPORATION

KEWAUNEE NUCLEAR POWER PLANT

ULTRASONIC, LIQUID PENETRANT, MAGNETIC PARTICLE AND VISUAL EXAMINATION LIMITATION TO EXAMINATION RECORD

SYSTEM OR COMPONENT: REACTOR COOLANT PIPING LOOP A

DRAWING NO.: 151M-1703

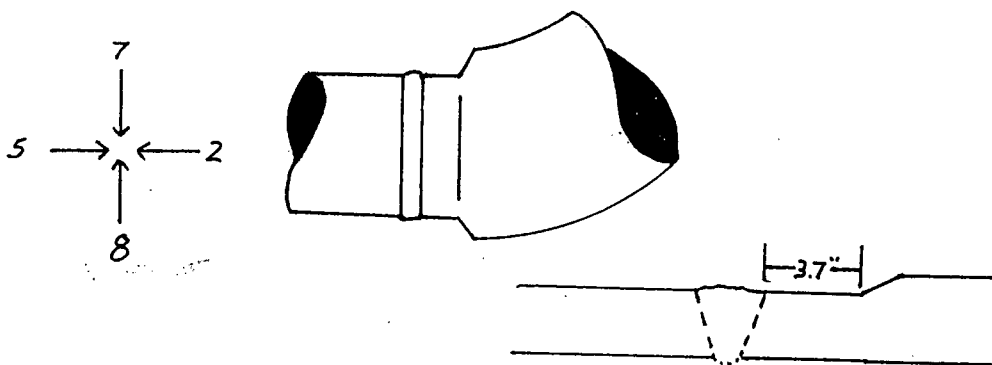
COMPONENT IDENTIFICATION: RC-W5 PROCEDURE: NEP No. 15.13 REVISION: A

ULTRASONIC: X LIQUID PENETRANT: _____ MAGNETIC PARTICLE: _____ VISUAL: _____

EXAMINER: Jeff Devers II DATE: 10-30-98
LEVEL

EXAMINER: Ernst Paul I DATE: 10-30-98
LEVEL

SKETCH TO PROVIDE: APPROXIMATE SIZE, LOCATION, ORIENTATION, TYPE OF LIMITATION AND PERCENTAGE OF REDUCED EXAMINATION COVERAGE.



NOTE: SCAN 2 LIMITED ON UPSTREAM SIDE OF WELD DUE TO O.D. TAPER ON ELBOW - SEE DIMENSIONS ABOVE.

PERCENTAGE OF PROCEDURAL LIMITATION 4.6%

KEWAUNEE NUCLEAR POWER PLANT REVIEW: Phillip C. Bukes DATE: November 7, 1998

AUTHORIZED NUCLEAR INSERVICE INSPECTOR REVIEW: Roger M. Quinn DATE: 11-7-98

WISCONSIN PUBLIC SERVICE CORPORATION
KEWAUNEE NUCLEAR POWER PLANT
ULTRASONIC, LIQUID PENETRANT, MAGNETIC PARTICLE AND
VISUAL EXAMINATION LIMITATION TO EXAMINATION RECORD

REV.: ORIG.

SYSTEM OR COMPONENT: REACTOR COOLANT PIPING LOOP A

DRAWING NO.: ISIM-1703

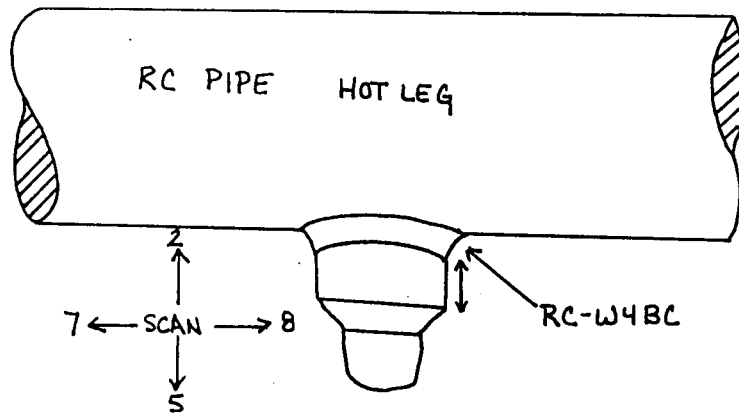
COMPONENT IDENTIFICATION: RC-W4 BC PROCEDURE: NEP NO. 15.39 REVISION: ORIG.

ULTRASONIC: X LIQUID PENETRANT: MAGNETIC PARTICLE: VISUAL:

EXAMINER: *W. Carlson* III DATE: 11-7-98
 LEVEL

EXAMINER: *Ray Wilson* II DATE: 11-7-98
 LEVEL

SKETCH TO PROVIDE: APPROXIMATE SIZE, LOCATION, ORIENTATION, TYPE OF LIMITATION AND PERCENTAGE OF REDUCED EXAMINATION COVERAGE.



* NO SCAN 5 DUE TO BRANCH CONFIGURATION.
 * SCANS 7 & 8 LIMITED DUE TO BRANCH CONFIGURATION.
 PROCEDURE COVERAGE REDUCED BY 65%.

KEWAUNEE NUCLEAR POWER PLANT REVIEW: *Phillip C. Bueker* DATE: November 9, 1998

AUTHORIZED NUCLEAR INSERVICE INSPECTOR REVIEW: *Roger Magnus* DATE: 11-9-98