

**FORM NIS-1, OWNER'S DATA REPORT
FOR INSERVICE INSPECTIONS
AS REQUIRED BY THE PROVISIONS OF THE ASME CODE CLASS 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-
- 9510
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	Combustion Engineering	CE69202	U11480	21010
Pressurizer	Westinghouse	1151	U11402	6823
Steam Generator 1A	Westinghouse	1141	U11400	6828
Steam Generator 1B	Westinghouse	1142	U11401	6829
Excess Letdown Heat Exchanger 1A	Sentry	3996-5E	U11407	364
Excess Letdown Heat Exchanger 1B	Sentry	3996-6E	U11408	365
Class 1 Piping	Texas Piping	---	---	---
Reactor Coolant Pump 1A	Westinghouse	1A-1-618J871-G01	---	---
Reactor Coolant Pump 1B	Westinghouse	1B-2-618J871-G02	---	---

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9207240256 920717
PDR ADOCK 05000305
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Residual Heat Exchanger 1A	Joseph Oat and Sons	1817-1E	U11046	344
Residual Heat Exchanger 1B	Joseph Oat and Sons	1817-1F	U11424	345
Charging Pump Surge Vessel APCH-1A	Greer Hydraulics	GNI-1848	---	---
Charging Pump Surge Vessel APCH-1B	Greer Hydraulics	GNI-1849	---	---
Charging Pump Surge Vessel APCH-1C	Greer Hydraulics	GNI-1847	---	---
Seal Water Heat Exchanger	Atlas	734	U11404	596
Volume Control Tank	Joseph Oat and Sons	1787-1C	U11425	376

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Seal Water Injection Filter 1A	Commercial Filters	101072	---	1172
Reactor Coolant Filter	AMF Cuno	121	---	2616
Seal Water Return Filter	AMF Cuno	123	---	2618
Class 2 Piping	Texas Pipe Bending	---	---	---
Charging Pump 1A	Ajax Iron Works	---	---	---
Charging Pump 1B	Ajax Iron Works	---	---	---
Charging Pump 1C	Ajax Iron Works	---	---	---
Residual Heat Removal Pump 1A	Byron Jackson	681N0277	---	---

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Residual Heat Removal Pump 1B	Byron Jackson	681N0276	---	---
Diesel Generator 1A Cooling Water Exchangers (2)	Young Radiator	231093 & 2386250	---	---
Diesel Generator 1B Cooling Water Heat Exchanges (2)	Young Radiator	2448585 & 2448588	---	---
Boric Acid Evaporator AHBA	Westinghouse	19-A-5007	---	1128,1129 1130,1131 1132
Boric Acid Transfer Pump 1A	Gould Pumps	792A191-1	---	---
Boric Acid Transfer Pump 1B	Gould Pumps	792A191-2	---	---

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Auxiliary Feedwater Pump 1A Motor Driven	Pacific Pump	46573	---	---
Auxiliary Feedwater Pump 1B Motor Driven	Pacific Pump	46574	---	---
Auxiliary Feedwater Pump APFT Turbine Driven	Pacific Pump	46575	---	---
Reactor Coolant Pump 1A Lube Oil Cooler	Senior	1357901	---	---
Class 3 Piping	Texas Pipe Bending	---	---	---
Containement Fan Cooler 1A	Joy Manufacturing and American Air Filter	GF14402	---	---

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Containment Fan Cooler 1B	Joy Manufacturing and American Air Filter	GF14399	---	---
Containment Fan Cooler 1C	Joy Manufacturing and American Air Filter	GF14401	---	---
Containment Fan Cooler 1D	Joy Manufacturing and American Air Filter	GF14400	---	---
Safety Injection Pump APSI-1A	Bingham Pump	290696	---	---
Safety Injection Pump APSI-1B	Bingham Pump	290697	---	---
Safety Injection Pump APSI-1A Lube Oil Cooler	Thermxchanger	X10199A2	---	---

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Safety Injection Pump APSI-1B Lube Oil Cooler	Thermxchanger	X10199A3	---	---
Safety Injection Pump APSI-1A Heat Exchangers (2)	Borg Warner	854030:854030	---	---
Safety Injection Pump APSI-1B Heat Exchangers (2)	Borg Warner	854030:854030	---	---
Residuel Heat Removal Pump 1B Shaft Seal Heat Exchanger	Borg Warner	681N0276	---	---
Containment Spray Pump 1A Gland Cooler	Helliflow	49486938	---	---

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Containment Spray Pump 1B Gland Cooler	Helliflow	6080694	---	---
Component Cooling Pump 1A	Ingersoll Rand	0568-31	---	---
Service Water Pump 1A1	Worthington Pump	VTP27737	---	---
Service Water Pump 1A2	Worthington Pump	VTP27736	---	---
Service Water Pump 1B1	Worthington Pump	VTP27739	---	---
Service Water Pump 1B2	Worthington Pump	75-TU-1719-1	---	---
Spent Fuel Pool Pump 1A	Gould Pumps	786A519.1	---	---

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Spent Fuel Pool Pump 1B	Gould Pumps	786A519.2	---	---
Service Water Pump 1A2 Strainer	S.P. Kinney Engineers	2279	---	---
Service Water Pump 1B1 Strainer	S.P. Kinney Engineers	2280	---	---
Service Water Pump 1B2 Strainer	S.P. Kinney Engineers	2281	---	---

FORM NIS-1 (back)

8. Examination Dates 3-6-92 to 4-14-92 9. Inspection Interval from 6-16-84 to 6-16-94

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

11. Abstract of Conditions Noted Reference Tab B and Tab F

12. Abstract of Corrective Measures Recommended and Taken Reference Tab B and Tab F

Utilization of ASME Boiler and Pressure Vessel Code: Code Case N-356

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

Date July 7 19 92 Signed Wisconsin Public Service By Mark L. Mauls
Owner

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

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of WISCONSIN and employed by HARTFORD Steam Boiler of HARTFORD CT. have inspected the components described in this Owners' Data Report during the period 3-6-92 to 4-14-92, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owners' Data Report in accordance with the requirements of the ASME Code, Section XI.

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

Date July 7 19 92

Regan Wolquin
Inspector's Signature

Commissions NA7741 WISCONSIN 38
National Board, State, Province and No.

WISCONSIN PUBLIC SERVICE CORPORATION
KEWAUNEE UNIT NO. 1 NUCLEAR POWER PLANT
1st OUTAGE 3rd PERIOD 2nd INTERVAL
1992

INTRODUCTION

An Inservice Examination Program was performed at the Kewaunee Unit No. 1 Nuclear Power Plant from March 6, 1992 thru April 14, 1992 by Westinghouse Electric Corporation / Dynacon Systems Inc. and Wisconsin Public Service Corporation - Kewaunee Unit No. 1.

Examinations were performed to satisfy the requirements of:

- o ASME Boiler and Pressure Vessel Code Section XI, 1980 Edition up to and including Winter, 1981 Addenda
- o ASME Boiler and Pressure Vessel Code Section XI, 1986 Edition for IWF-2500-1 Examinations
- o United States Nuclear Regulatory Commission, Nuclear Regulatory Guide 1.14, Rev. 1
- o United States Nuclear Regulatory Bulletin 88-08

The Examination Program Plan located under Tab C was prepared by Kewaunee Unit No. 1 for the 1st Outage; 3rd Period; 2nd Interval as identified in the 2nd Ten Year Plan (1984-1994).

The following items were examined (Reference Tab C):

- o Reactor Vessel Head: Flange Weld, Studs, Nuts, Washers, Conoseal Bolting and Control Rod Drive Mechanisms
- o Pressurizer: Circumferential and Longitudinal Welds, Safe End Butt Weld and Manway Bolting
- o Steam Generator A: Studs, Nuts and Washers
- o Steam Generator B: Safe End Butt Welds, Studs, Nuts and Washers
- o Class 1 and Class 2 Piping
- o Class 1 and Class 2 Integrally Welded Attachments
- o Reactor Coolant Pump A: Seal Housing Bolts and Preservice Examination of Replacement Reactor Coolant Pump Flywheel
- o Reactor Coolant Pump B: Main Flange Bolting and Seal Housing Bolts

- o Charging Pump Surge Vessel: Circumferential Weld
- o Seal Water Heat Exchanger: Shell and Head Circumferential Welds
- o Volume Control Tank: Head Circumferential Welds
- o Seal Water Injection Filter: Shell and Head Circumferential Welds
- o Reactor Coolant Filter: Shell and Head Circumferential Welds
- o Seal Water Return Filter: Shell and Head Circumferential Welds
- o Class 3 Component and Piping Supports Integral Attachments
- o Class 1, 2 and 3 Component and Piping Supports and Hangers
- o Class 1 System Leakage Test

The examinations performed were in accordance with an approved Examination 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.

Witnessing and surveillance of the examinations and related activities were conducted by personnel from: United States Nuclear Regulatory Commission, Hartford Steam and Boiler Inspection and Insurance Company and Wisconsin Public Service Corporation Quality Assurance Department.

RESULTS

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

- o Two (2) Recordable Laminar Indications on drawing WPS-2-1300 (M1212): 1A-1 (AFSI-W1) and 1A-2 (AFSI-W2) were recorded during Ultrasonic Examination of Seal Water Injection Filter 1A. The indications were dispositioned and found to be acceptable by ASME Boiler and Pressure Vessel Code Section XI 1980 Edition up to and including Winter 1981 Addenda Table IWB-3414-6.
- o Four (4) Recordable Indications on drawings WPS-1-4101 (M1145)-5WS(RSI-H56), WPS-2-2520 (M1169)-60(RHR-W50), WPS-2-2531 (M1173)-44(RHR-W249) and WPS-2-2542 (M1176)-13WS(RSI-H60) were recorded during Surface Examinations on the Class 1 and Class 2 Integrally Welded Attachments and Class 2 Piping. These indications were (1) evaluated and accepted or (2) repaired, reexamined and accepted; by ASME Boiler and Pressure Vessel Code Section XI 1980 Edition up to and including Winter 1981 Addenda Acceptance Standards.

- o Forty Seven (47) Recordable Indications on drawings WPS-1-4105 (M1146)-10H(RSI-H63), WPS-1-4203 (M1153)-2R(Line 9 Restraint 365), WPS-1-4203 (M1153)-12R(R-RHR-H7), WPS-1-4207 (M1155)-1R & 1WS(Restraint 137 RTD-4), WPS-1-4208 (M1155)-1SH(RTD-H7), WPS-1-4213 (M1157)-4R(RCVC-H74), WPS-1-4500 (M1159)-RR 134-6 and RR 134-7, WPS-1-4501 (M1160)-1R & 1WS(RC-H9), WPS-1-4502 (M1160)-1R & 1WS(RC-H8), WPS-1-4503 (M1159)-2R(Restraint RC-39), WPS-1-4504 (M1162)-3R(Line 113 Restraint RC-18), 10H(RC-H31) and 17SS (RC-H25), WPS-1-4505 (M1161)-10SH(RC-H18), WPS-2-1140 (M1210)-APCH-1C(CVC-H117), WPS-2-2541 (M1175)-1R & 1WS(CS-H9), 10H & 10WS (SI-H11) and 14SS & 14WS(RHR-10C), WPS-2-2542 (M1176)-1CS(RHR-H1), M 934 - SI-H21A and SI-H35, M 936 - RSI-H2, RSI-H38 and RSI-H78, M 937 - RSI-H98, M 950 - CS-H34 and CH-H36, M 951 - CS-H20, M 952 - ICS-H8, M 953 - CS-H28 and CS-H29, M 992 - SI-4A and SI-4B, WPS-3-1210 (M1238)-AHBA, WPS-3-1500 (M1239)-1A(AHCF-1A), WPS-3-1501 (M1239)-1B(AHCF-1B), WPS-3-1502 (M1239)-1C(AHCF-1C), WPS-3-1503 (M1239)-1D(AHCF-1D), WPS-3-3750 (M1181)-8WS & 8SH(RSW-H18) and 9SH(RSW-H12), WPS-3-3803 (M888)-RSW-H50 and RSW-H51, WPS-3-3803 (M889)-RSW-H62, WPS-3-3804 (M889)-RSW-H59 and RSW-H63 and WPS-3-4173 (M1220)-1B2(ASSW-1B2) were recorded during Visual Examination on the Class 1, Class 2 and Class 3 Component and Piping Supports and Hangers and Class 2 Valves. These indications were (1) evaluated and accepted or (2) repaired, reexamined and accepted; by Wisconsin Public Service Corporation Engineering, Maintenance, Quality Control and Inservice Inspection Departments.
- o Six (6) Recordable Indications on drawings XK 100-10 - RC-23053-1, RC-23053-2 and RC-32, XK 100-28 - RC-210A, XK 100-35 - CVC-21072-1 and CVC-21072-2 were recorded during Visual Examination on the Class 1 System Leakage Test. These indications were (1) evaluated and accepted or (2) repaired, reexamined and accepted; by Wisconsin Public Service Corporation Engineering, Maintenance, Quality Control, Operations and Inservice Inspection Departments.

Specific Data relative to the above indications and their dispositions are located under Tab F of Volume 2 of 2 of the Final Report.

James R. Delbusso 6-17-92
 James R. Delbusso / Date
 Westighthouse NSD / Dynacon Systems
 Inservice Inspection Coordinator

EDDY CURRENT EXAMINATION
WISCONSIN PUBLIC SERVICE CORPORATION
KEWAUNEE NUCLEAR POWER STATION
UNIT 1

STEAM GENERATORS A & B

MARCH 1992

SUMMARY OF RESULTS

An eddy current examination was performed at the Kewaunee Nuclear Power Plant in March, 1992 on Steam Generators A and B. The examination was performed using the MIZ-18A digital acquisition system.

The steam generators were examined in parallel from both the inlet and outlet sides using SM-10 remote fixtures. The examination was performed full length on 100% of the accessible tubing. Tubes not sleeved were examined full length from the inlet side; sleeved tubes were examined from the top of the sleeve to the outlet tube end. The data was collected on optical disks at the acquisition bus, then transferred to the analysis trailer by fibre optic cable. The data was then sent by satellite link to Issaquah, Washington to the home office of Zetec, Inc. for secondary analysis. The results of the secondary analysis were sent back to the analysis trailer at the Kewaunee site and compared against the primary analysis using Zetec's EddyNet software. All data was evaluated in accordance with Kewaunee's Data Analysis Guidelines.

After the examination was completed, the optical disks were copied to have a back-up set of data. During this process, 208 tubes from the original set of optical disks were accidentally erased. See the Nonconformance Report NCR No. 001 dated March 19, 1992 immediately following this Summary of Results.

SUMMARY OF RESULTS (Continued)

Page Two

STEAM GENERATOR A

There were 2176 tubes examined from the top of sleeve in the hot leg to tube end cold; there were 1000 tubes examined from the tube end hot to the tube end cold. Both of these sets of tubes were examined with the standard bobbin coil probe. Also in Steam Generator A, 222 sleeves were examined with a crosswound probe. All Row Ones (1) that were not plugged and a few selected Row Two (2) U-bends were examined with a motorized rotating pancake coil (MRPC) probe. In addition to these special exams, all intersections that were reported with non-quantifiable indications were examined with a special three-coil MRPC probe (one pancake coil, one coil sensitive to axial flaws, and one coil sensitive to circumferential flaws). There were 105 intersections examined in the steam generator.

STEAM GENERATOR B

There were 2119 tubes examined from the top of sleeve in the hot leg to tube end cold; there were 1050 tubes examined from tube end cold to tube end hot. Both of these sets of tubes were examined with the standard bobbin coil probe. Also in Steam Generator B, 221 sleeves were examined with a crosswound probe. All Row Ones that were not plugged and a few selected Row 2 U-bends were examined with an MRPC probe. All intersections that were reported with non-quantifiable indications were examined with the three-coil MRPC probe. There were 107 intersections examined in Steam Generator B.

In addition to the eddy current examination in Steam Generator B, selected intersections were examined using Ultrasound Technique. See Appendix F for the UT-360 final report.

CONAM NUCLEAR, INC.



Mike Chambers
Data Analyst, Level III