

NSP

PRAIRIE ISLAND NUCLEAR GENERATING PLANT

Red Wing, Minnesota

UNITS 1 AND 2



INSERVICE INSPECTION - EXAMINATION SUMMARY

PRAIRIE ISLAND NUCLEAR GENERATING PLANT - UNIT II

July 1 to July 13, 1981

MAINTENANCE OUTAGE

INSPECTION PERIOD 2

NORTHERN STATES POWER COMPANY
MINNEAPOLIS, MINNESOTA

Report Date: 9-3-81

Commercial Service
Date: December 21, 1974

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NORTHERN STATES POWER COMPANY
PRAIRIE ISLAND NUCLEAR GENERATING PLANT - UNIT II

INSERVICE INSPECTION - EXAMINATION SUMMARY
PRAIRIE ISLAND NUCLEAR GENERATING PLANT - UNIT II
July 1 to July 13, 1981

MAINTENANCE OUTAGE
INSPECTION PERIOD 2

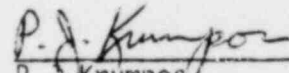
Report Date: 9-3-81

Prepared by: L C Dahlman,
M&SP Specialist

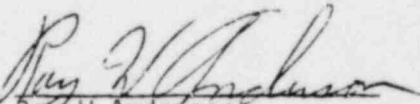
D B Hansen
Assoc M&SP Engineer

Commercial Service
Date: December 21, 1974

Reviewed by:


P. J. Krumpal
Superintendent Materials
and Special Processes

Approved by:


Ray W Anderson
General Superintendent
Production Plant Maintenance

INSERVICE INSPECTION - EXAMINATION SUMMARY
PRAIRIE ISLAND NUCLEAR GENERATING PLANT - UNIT 2

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- No examinations scheduled this outage

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- No examinations scheduled this outage

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INSERVICE INSPECTION - EXAMINATION SUMMARY
PRAIRIE ISLAND NUCLEAR GENERATING PLANT - UNIT 2
July 1 to July 13, 1981

1.0 INTRODUCTION

This report is a summary of the examinations performed during the inservice inspection activities at the Prairie Island Nuclear Generating Plant - Unit 2. The examinations were additional to the inservice inspections conducted for inspection period two. The examinations were performed during the plants' reactor coolant pump maintenance outage from July 1 to July 13, 1981. Prairie Island - Unit 2 began commercial operation on December 21, 1974.

This report identifies the examination methods used, the examination report number; and summarizes the results for the examinations performed on reactor coolant pump #21.

2.0 SUMMARY OF RESULTS

The evaluation of all the results from the inservice examinations indicated that the integrity of the system has been maintained. The only anomalies detected were several linear magnetic particle indications on the reactor coolant pump flange bolts. The indications appeared on two of the 24 flange bolts and were all axially oriented and on the bolt shank. One of the bolts had two indications, 3/8" and 1/2" long, that were lightly filed. This area was re-examined with no further indications. The other bolt had several indications ranging from 1/32" to 1/2" long. This bolt was replaced with a new flange bolt.

3.0 DISCUSSION OF EXAMINATION

The examination plan focused on reactor coolant pump #21. The pump was disassembled for maintenance and repair and this allowed for a very thorough examination of the pump casing interior pressure retaining boundary, flange bolts, and seal house bolting.

The examination plan was based on the examination requirements of the ASME Boiler and Pressure Vessel Code Section XI, 1974 Edition through and including the Summer 1975 Addenda, and complied with Prairie Island's Technical Specification, Section TS 4.2. The examination is in accordance with the program submitted to the United States Nuclear Regulatory Commission on February 1, 1978 entitled, "ASME Code Section XI Inservice Inspection and Testing Program and Information required for NRC Review of Requests for Relief from ASME Code Section XI Requirements."

The examination methods included ultrasonic, magnetic particle, and visual examination techniques. Magnetic particle examinations were performed using either a yoke and/or an A-C coil with wet fluorescent

magnetic particles. All visual examinations were aided when necessary with artificial lighting and verified for adequacy with an 10% neutral grey card with a 1/32 inch black line. The examination procedures complied with the requirements of the 1974 Edition through and including the Summer 1975 Addenda of ASME Section XI. A listing of the procedures used for the examinations is shown in Table II of Appendix E.

The examination of the flange and seal house bolting utilized all three of the examination techniques. The bolts were cleaned and examined while they were disassembled from the pump. The examination of the reactor coolant pump casing was performed using underwater television cameras, lights, and a variety of manipulating devices. In conjunction with performing the examination of the entire pump casing, the underwater equipment was used to investigate for the presence of foreign material or loose parts in the cold leg and crossover leg.

Northern States Power Company contracted Westinghouse to perform portions of the examinations. Hartford Steam Boiler Inspection and Insurance Company, representing ANI, provided the Authorized Inspection. All personnel involved in the performance or evaluation of examinations are listed along with their title, organization, and ASNT Level of certification in Table I of Appendix E. Certifications for examination personnel are maintained on file by Northern States Power Company.

All examinations reports and documentation are maintained on file by Northern States Power Company. Table I of Appendix A identifies the examination report number(s) for each item examined. Many of the items identify more than one examination report because of the different types of examinations performed on the item.

Table I of Appendix A summarizes all of the examinations that have been performed to date and identifies the amount that will be examined in the future to complete the ten year examination requirements. For retrieval purposes, the prefix of the inspection report number corresponds with the year that the inspection was performed. The examination report numbers for this outage are prefixed with "81A".

Table II of Appendix A compares the baseline examination results with the results obtained during this examination. Table III of Appendix A identifies the isometric drawings that were used for the examinations. The personnel, procedures, equipment and materials that were used for the inspection are identified in the tables of Appendix E. Appendix F contains the Form NIS-1, entitled "Owners' Data Report for Inservice Inspections".

APPENDIX A

ASME CLASS 1 - EXAMINATION

NORTHERN STATES POWER CO.
PRAIRIE ISLAND UNIT 2
INSERVICE INSPECTION—EXAMINATION SUMMARY

TABLE S1.5
PAGE 1 OF 3
MAJOR ITEM: REACTOR CORE COOLANT PUMPS

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
B5.1 AND B5.3	B-G-1	<u>PRESSURE RETAINING BOLTS AND STUDS, IN PLACE (\geq 2 IN. DIA.)</u>					
		<u>FLANGE BOLTS</u>					
		PUMP A	ONE	8	8	BOLTS 1 THRU 8	76-87
			TWO	8	8	BOLTS 9 THRU 16	78-67
			THREE	8	-		
		PUMP B	ONE	8	8	BOLTS 1 THRU 8	76-86
			TWO	8	8	BOLTS 9 THRU 16	78-68
			THREE	ITEM B5.2	-		
		<u>SEAL HOUSE BOLTING</u>					
		PUMP A	ONE	4	4	BOLTS 1 THRU 4	76-89
			TWO	4	4	BOLTS 5 THRU 8	78-69
			THREE	4	-		
B5.2 AND B5.3	B-G-1	<u>PRESSURE RETAINING BOLTS AND STUDS, WHEN REMOVED (2 IN. DIA.)</u>					
		PUMP A					
		SEAL HOUSE BOLTING	TWO	12	12	BOLT 1 THRU 12	81-46,47/81A-4,7
		FLANGE BOLTING	TWO	24	24	BOLT 1 THRU 24	81A-1,2,3,5,6,6R
		PUMP B					
		FLANGE BOLTING	THREE	24	-		
		SEAL HOUSE BOLTING	THREE	12	-		

NORTHERN STATES POWER CO.
PRAIRIE ISLAND UNIT 2
INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE S1.5
PAGE 2 OF 3
MAJOR ITEM: REACTOR CORE COOLANT PUMPS

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
B5.4	B-K-1	<u>INTEGRALLY WELDED SUPPORTS</u> PUMP A PUMP B	TWO TWO THREE	3 3 3	3 3 -	SUPPORT A,B,C SUPPORT A,B,C	RELIEF NO. 47 81-129,131,130 81-132,134,137
B5.5	B-K-2	<u>SUPPORT COMPONENTS*</u> PUMP A COLUMN AND LATERAL SUPPORTS PUMP B COLUMN AND LATERAL SUPPORTS	ONE TWO THREE ONE TWO THREE	1 1 1 1 1 1	1 1 - 1 1 -	COLUMN 1 COLUMN 2 COLUMN 1 COLUMN 2	*COINCIDENT WITH SEISMIC BOLTING 77-67,163,158 80-181,107,174 77-64,162,161 80-181,107,108
B5.6	B-L-1	<u>PUMP CASING WELDS</u> PUMP A PUMP B	- -	- -	- -	-NONE- -NONE-	
B5.7	B-L-2	<u>PUMP CASINGS</u> PUMP A or B PUMP A	THREE TWO	1 1	- 1	PUMP CASING	81A-8
B5.8	B-P	<u>EXEMPTED COMPONENTS</u>	-	-	-	-NONE-	
B5.9	B-G-2	<u>PRESSURE RETAINING BOLTING (< 2 IN. DIA.)</u>	-	-	-	-NONE-	

NORTHERN STATES POWER CO.

PRAIRIE ISLAND UNIT 2

INSERVICE INSPECTION-EXAMINATION SUMMARY

TABLE SI.5

PAGE 3 OF 3

MAJOR ITEM: REACTOR CORE COOLANT PUMPS

SUB ITEM	EXAM CATE- GORY	COMPONENT OR SYSTEM AND DESCRIPTION OF ITEM TO BE EXAMINED	INSP. PER.	REQ'D. AMT.	AMT. EXAM	ITEM IDENTIFICATION	INSPECTION REPORT NO.
-	-*	<u>PUMP FLYWHEELS</u> PUMP A & B	ONE TWO THREE	2 2 -	2* 2 -	PUMP-21, FLYWHEEL PUMP-22, FLYWHEEL PUMP-21, FLYWHEEL PUMP-22, FLYWHEEL	76-113, 117, 116 76-93, 82, 92 80-141, 142, 143 80-124, 139, 140 *BOTH FLYWHEELS WERE REMOVED AS A RESULT OF MODIFICA- TION TO THE PUMP LUBRICATION SYSTEM THE BORE AND KEY- WAY'S WERE PT EXAM- INED & THE REMAIN- ING SURFACES WERE MT EXAMINED. U.T. WAS USED TO VOLUME- TRICALLY EXAMINE THE FLYWHEELS (NOTE TECH SPEC 4.2-1)

NORTHERN STATES POWER COMPANY
PRAIRIE ISLAND UNIT II
BASELINE COMPARISON SUMMARY

TABLE II
PAGE 1 OF 1

COMPONENT/SYSTEM	NSP ISO	NDE METHOD	W BASELINE IDENT.	REPORT NO.	BASELINE INDICATIONS	ISI INDICATIONS	EXAMINATION LIMITATIONS
REACTOR COOLANT PUMPS							
B 5.2 PRESSURE RETAINING BOLTS AND STUDS,							
B 5.3 WHEN REMOVED							
Pump A	43	V,MT	12 BOLTS	81A - 7	N/A	NONE	NONE
SEAL HOUSE BOLTS		UT	12 BOLTS	81A - 4	NONE	NONE	NONE
FLANGE BOLTS	44	V,MT	24 BOLTS	81A -5,6	N/A	2 BOLTS WITH LINEAR INDICA- TIONS	NONE
				81A-6R		1 BOLT REPLACED AND 1 BOLT WITH INDICATIONS FILED OFF	
		UT	24 BOLTS	81A-1,2, &3	NONE	NONE	NONE
B5.7 PUMP CASINGS							
PUMP A	-	V	INTERIOR SURFACES	81A-8	N/A	NONE	NONE
S/N 510							

NORTHERN STATES POWER CO.
PRAIRIE ISLAND UNIT 2
ISOMETRIC SUMMARY CLASS 1

Table III

PAGE 1 OF 4

NSP ISO NUMBER	REVISION	COMPONENT OR SYSTEM	LOOP	LINE SIZE	LINE NUMBER	UT - CAL. STANDARD
2-ISI-1	0	SEAL INJECTION (GENERAL VIEW)	A	1½" & 2"	-	-
2-ISI-1A	0		A	1½"	1½-2VC-21A	1
2-ISI-1B	0		A	2"	2-2VC-21A	3
2-ISI-1C	0		A	2"	2-2VC-21A	3
2-ISI-2	0	CROSSOVER DRAIN	A	2"	2-2RC-10A	3
					2-2RC-11A	3
2-ISI-3	0	RTD TAKEOFF COLD LEG	A	2"	2-2RC-8A	3
2-ISI-4	0	RTD TAKEOFF HOT LEG	A	2"	2-2RC-7A	3
2-ISI-5	0	SAFETY INJECTION HIGH HEAD	A	2"	2-2SI-35A	3
2-ISI-6	0	RTD RETURN	A	3"	3-2RC-6A	4
2-ISI-7	0	SPRAY TO PRESSURIZER (GENERAL VIEW)	A&B	3"	-	-
2-ISI-7A	0		A	3"	3-2RC-5	4
2-ISI-7B	0		A	3"	3-2RC-5	4
2-ISI-7C	0		A	3"	3-2RC-5	4
2-ISI-7D	0		B	3"	3-2RC-5	4
2-ISI-8	0	SAFETY INJECTION HIGH HEAD	A	6"	6-2RC-13B	6
2-ISI-9	0	PLO-CAP	A	6"	6-2RC-13A	6
2-ISI-10	0	RHR TAKE OFF (GENERAL VIEW)	A	8"	-	-
2-ISI-10A	0			8"	8-2RC-15A	8
2-ISI-10B	0			8"	8-2RH-1A	8
2-ISI-10C	0			8"	8-2RH-1A	8
2-ISI-11	0	ACCUMULATOR DISCHARGE	A	12"	12-2RC-16A	11
					12-2SI-27A	11

NORTHERN STATES POWER CO.
PRAIRIE ISLAND UNIT 2
ISOMETRIC SUMMARY

Table III

PAGE 2 OF 4

NSP ISO NUMBER	REVISION	COMPONENT OR SYSTEM	LOOP	LINE SIZE	LINE NUMBER	UT - CAL. STANDARD
2-ISI-12	0	SEAL INJECTION (GENERAL VIEW)	B	1½" & 2"	-	-
2-ISI-12A	0		B	2"	2-2VC-21B	3
2-ISI-12B	0		B	2"	2-2VC-21B	3
2-ISI-12C	0		B	1½"	1½-2VC-21B	1
2-ISI-13	0	CHARGING LINE (GENERAL VIEW)	B	2"	-	-
2-ISI-13A	0		B	2"	2-2RC-17	3
2-ISI-13B	0		B	2"	2-2VC-5	3
2-ISI-13C	0		B	2"	2-2VC-6	3
2-ISI-13D	0		B	2"	2-2VC-6	3
2-ISI-14	0	RTD TAKEOFF COLD LEG	B	2"	2-2RC-8B	3
2-ISI-15	0	RTD TAKEOFF HOT LEG	B	2"	2-2RC-7B	3
2-ISI-16	0	CROSSOVER DRAIN AND LETDOWN	B	2"	2-2RC-10B 2-2RC-11B 2-2RC-12	3 3 3
2-ISI-17	0	RTD RETURN	B	3"	3-2RC-6B	4
2-ISI-18	0	SAFETY INJECTION HIGH HEAD	B	6"	6-2RC-13D	6
2-ISI-19	0	PLO-CAP	B	6"	6-2RC-13C	6
2-ISI-20	0	PHR TAKEOFF (GENERAL VIEW)	B	8"	-	-
2-ISI-20A	0		B	8"	8-2RC-15B	8
2-ISI-20B	0		B	8"	8-2RH-1B	8
2-ISI-20C	0		B	8"	8-2RH-1B	8
2-ISI-21	0	RHR RETURN	B	10"	10-2SI-26	10
2-ISI-22	0	ACCUMULATOR DISCHARGE	B	12"	12-2RC-16B 12-2SI-27B	11 11

NORTHERN STATES POWER CO.
PRAIRIE ISLAND UNIT 2
ISOMETRIC SUMMARY

Table III
PAGE 3 OF 4

NSP ISO NUMBER	REVISION	COMPONENT OR SYSTEM	LOOP	LINE SIZE	LINE NUMBER	UT - CAL. STANDARD
2-ISI-23	0	SAFETY INJECTION HIGH HEAD	B	2"	2-2SI-35B	3
2-ISI-24	0	AUXILIARY SPRAY	-	2"	2-2RC-19 2-2VC-4	3 3
2-ISI-25	0	REACTOR VESSEL SAFETY INJECTION	A	2"	2-2SI-24A	3
2-ISI-26	0	REACTOR VESSEL SAFETY INJECTION	B	2"	2-2SI-24B	3
2-ISI-27	0	PRESSURIZER RELIEF	A&B	3"	3-2RC-21	4
2-ISI-28	0	REACTOR VESSEL SAFETY INJECTION	B B B	4" 6" 6"	4-2RC-14B 6-2RC-14B 6-2SI-25B	5 6 6
2-ISI-29	0	REACTOR VESSEL SAFETY INJECTION	A A A	4" 6" 6"	4-2RC-14A 6-2RC-14A 6-2SI-25A	5 6 6
2-ISI-30	0	PRESSURIZER SAFETY	A B	6" 6"	6-2RC-20A 6-2RC-20B	6 6
2-ISI-31	0	PRESSURIZER SURGE	B	10"	10-2RC-4	10
2-ISI-32	0	REACTOR COOLANT	A A A	29" 31" 27½"	29-2RC-1A 31-2RC-2A 27½-2RC-3A	15 15 15
2-ISI-33	0	REACTOR COOLANT	B B B	29" 31" 27½"	29-2RC-1B 31-2RC-2B 27½-2RC-3B	15 15 15
2-ISI-34	0	REGENERATIVE HEAT EXCHANGER	-	-	-	6
2-ISI-35	0	PRESSURIZER SAFETY AND RELIEF NOZZLES	-	-	-	-

NORTHERN STATES POWER CO.
PRAIRIE ISLAND UNIT 2
ISOMETRIC SUMMARY

Table III
PAGE 4 OF 4

NSP ISO NUMBER	REVISION	COMPONENT OR SYSTEM	LOOP	LINE SIZE	LINE NUMBER	UT - CAL. STANDARD
2-ISI-36	0	PRESSURIZER	-	-	-	25A/16
2-ISI-37	0	STEAM GENERATORS	A&B	-	-	25A
2-ISI-38	0	REACTOR VESSEL CONOSEAL BOLTING	-	-	-	-
2-ISI-39	0	REACTOR VESSEL STUDS, NUTS & WASHERS	-	-	-	STUDS-17
2-ISI-40	0	REACTOR VESSEL NOZZLES	-	-	-	-
2-ISI-41	0	REACTOR VESSEL HEAD WELD	-	-	-	25A
2-ISI-42	0	REACTOR VESSEL SHELL WELDS	-	-	-	-
2-ISI-43	0	RC PUMP SEAL HOUSING BOLTING	A&B	-	-	-
2-ISI-44	0	RC PUMP FLANGE BOLTING	A&B	-	-	-
2-ISI-45	0	RC PUMP FLYWHEEL	A&B	-	-	-
2-ISI-46 CL-1	0	EXCESS LETDOWN HEAT EXCHANGER	-	-	-	6
2-ISI-47 CL-1	0	REACTOR VESSEL CLOSURE HEAD CLAD PATCHES	-	-	-	-
2-ISI-48 CL-1	0	REACTOR VESSEL CLAD PATCH IDENTIFICATION	-	-	-	-

APPENDIX C

FSAR AUGMENTED EXAMINATION

- NO EXAMINATIONS SCHEDULED THIS OUTAGE -

APPENDIX B
ASME CLASS 2 EXAMINATION
NO EXAMINATIONS SCHEDULED THIS OUTAGE

APPENDIX D

SEISMIC BOLTING EXAMINATION

- NO EXAMINATIONS SCHEDULED THIS OUTAGE -

APPENDIX E

TABLE I	- PERSONNEL LISTING
TABLE II	- PROCEDURE LISTING
TABLE III	- EQUIPMENT AND MATERIALS

NORTHERN STATES POWER COMPANY
PRAIRIE ISLAND UNIT II
PERSONNEL LISTING

APPENDIX E
TABLE I
PAGE 1 of 1

EXAMINER	TITLE	ORGANIZATION	ASNT LEVEL			
			UT	PT	MT	VT
L.C.Dahlman	M&SP Specialist	NSP	II	II		II(1)
D.B.Hansen	Assoc.M&SP Engrn.	NSP	III	III	III	III (1)
J.Williams	ANII	Hartford Steam Boiler Insp. & Insurance Co.				
P.E.Bukes	Technician	W	II	II	-	IIA

FOOTNOTES:

- (1) Inspection experience and NDE Qualifications were judged to be adequate to perform Visual Examinations in accordance with NSP-VT-1.
- (2) Organization: Westinghouse
Nuclear Services Division
P.O.Box 2728
Pittsburgh, PA 15230

NORTHERN STATES POWER COMPANY
PRAIRIE ISLAND UNIT II
PROCEDURE LISTING

APPENDIX E
TABLE II
PAGE 1 OF 1

PROCEDURE NUMBER AND REVISION	FIELD CHANGE	PROCEDURE TITLE	PLANT APPROVAL DATE	FIELD CHANGE REMARKS	CHANGE DESCRIPTION
NSP-MT-2, REV. 0	N/A	WET MAGNETIC PARTICLE EXAMINATION	1-8-81	NONE	
NSP-UT-4, REV. 1	N/A	ULTRASONIC EXAMINATION OF STUDS, BOLTS AND NUTS	1-8-81	NONE	
NSP-VT-1, REV. 2	N/A	VISUAL EXAMINATION	1-8-81	NONE	
ISI-8, REV. 7	1	VISUAL EXAMINATION	8-29-80	1	ADDED RECORDING CRITERIA

NORTHERN STATES POWER COMPANY
PRAIRIE ISLAND - UNIT 2
EQUIPMENT AND MATERIALS

APPENDIX E
TABLE III
PAGE 1 OF 1

MATERIAL OR EQUIPMENT	TYPE OR SERIAL NUMBER	CALIBRATION DATE OR BATCH NUMBER	REMARKS
<u>ULTRASONIC:</u>			
NORTEC 131D	S/N 360	CAL. 5-29-81	
<u>TRANSDUCERS:</u>			
NORTEC	S/N - 6807	3/4" Ø	2.25 MHZ
NORTEC	S/N - 6829	1/2" Ø	3.5 MHZ
<u>MAGNETIC PARTICLE:</u>			
MAGNAFLUX YOKE	S/N GTL-001	CAL. 7-7-81	ON SITE QUALIFICATION
MAGNAFLUX COIL	S/N GTL-2	QUAL. 7-7-81	ON SITE QUALIFICATION
BLAK-RAY METER	S/N 15544	CAL. 2-27-81	
<u>MATERIALS</u>			
ULTRASONIC COUPLANT	LMT GEL	BATCH NO.111778	

APPENDIX F

FORM NIS-1

OWNERS' DATA REPORT FOR INSERVICE INSPECTION

FORM NIS-1 OWNERS' DATA REPORT FOR INSERVICE INSPECTIONS

(As Required by the Provisions of the ASME Code Rules)

- 1.) Owner NORTHERN STATES POWER COMPANY
 Address 414 NICOLLET MALL, MINNEAPOLIS, MINN.
 2.) Plant PRARIE ISLAND NUCLEAR GENERATING PLANT, UNIT II
 Address WELCH, MINNESOTA
 3.) Plant Unit II 4.) Owner (Certificate of Authorization) --
 5.) Commercial Service Date 12-21-74 6.) National Board Number for Unit --
 7.) Components Inspected

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
------------------------------	------------------------------	--	--------------------------	-----------------------

B5.0 REACTOR CORE COOLANT PUMPS

B5.2 & B5.3 PRESSURE RETAINING BOLTS AND STUDS, WHEN REMOVED

PUMP A				
SEAL HOUSE	WESTINGHOUSE	--	--	--
FLANGE BOLTS	WESTINGHOUSE	--	--	--

B5.7 PUMP CASINGS

PUMP A	WESTINGHOUSE	510	--	--
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FORM NIS-1 (back)

- 8.) Examination Dates 7-1-81 to 7-13-81 9.) Inspection Interval 12-21-74 to 12-21-84
 10.) Abstract of Examinations. Include a list of examinations and a statement concerning status of work required for current interval.

These examinations were performed during a maintenance outage during the end of the Second Period of the First Ten Year Interval. The examinations completed the requirements for visual examination of the reactor coolant pump casings and for the flange and seal house bolting.

- 11.) Abstract of Conditions Noted.

The results of these examinations indicated that the integrity of these systems was maintained. The only anomalies detected were the linear magnetic particle indications (oriented axially along the bolt shank) of the reactor coolant pump flange bolts.

- 12.) Abstract of Corrective Measures Recommended and Taken.

All anomalies were corrected. The linear indications on one flange bolt were lightly filed off and the other flange bolt was replaced. The new flange bolt and the bolt with the indications filed off were examined with the same method that located the original indications.

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 August 20 1981 Signed Lawrence Stetson By J.B. Hansen
 Owner

Certificate of Authorization No. (if applicable) - Expiration Date -

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 Minnesota and employed by Hartford Steam Boiler Inspecting Co. of Hartford Ct. have inspected the components described in this Owner's Data Report during the period July 1, 1981 to July 13 1981, 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 loss of any kind arising from or connected with this inspection.

Date August 20 1981

John J. Williams
 Inspector's Signature

Commissions NB 8607, MN 221
 National Board, State, Province & No.