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

- 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 -

COMPONENT OR APPURTENANCE	MANUFACTURER OR INSTALLER	MANUFACTURER OR INSTALLER SERIAL NO.	STATE OR PROVINCE NO.	NATIONAL BOARD NO.
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 8ending	7,77		•••
Reactor Coolant Pump RCP-1A	Westinghouse	1A-1-618J871- GO1	• • • •	•••

- 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
- 6. NATIONAL BOARD NUMBER FOR UNIT N/A
- 7. COMPONENTS INSPECTED -

COMPONENT OR APPURTENANCE	MANUFACTURER OR INSTALLER	MANUFACTURER OR INSTALLER SERIAL NO.	STATE OR PROVINCE NO.	NATIONAL BOARD NO.	
Reactor Coolant Pump RCP-1B	Westinghouse	1B-2-618J871- GO2	•••		
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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COMPONENT OR APPURTENANCE	MANUFACTURER OR INSTALLER	MANUFACTURER OR INSTALLER SERIAL NO.	STATE OR PROVINCE NO.	NATIONAL BOARD NO.
Seal Water Heat Exchanger AHSW	Atlas	734	U11404	596
Volume Control Tank VCT	Joseph Oat and Sons	17 87 - 1 C	U11425	376
Regenerative Heat Exchanger ARG	Joseph Oat and Sons	1831-13	U11409 U11410 U11411	413 414 415
Letdown Heat Exchanger AHLD	At1 a s	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

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COMPONENT OR APPURTENANCE	MANUFACTURER OR INSTALLER	MANUFACTURER OR INSTALLER SERIAL NO.	STATE OR PROVINCE NO.	NATIONAL BOARD NO.
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

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``	COMPONENT OR APPURTENANCE	MANUFACTURER OR INSTALLER	MANUFACTURER OR INSTALLER SERIAL NO.	STATE OR PROVINCE NO.	NATIONAL BOARD NO.
	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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	COMPONENT OR APPURTENANCE	MANUFACTURER OR INSTALLER	MANUFACTURER OR INSTALLER SERIAL NO.	STATE OR PROVINCE NO.	NATIONAL BOARD NO.
He	pent Fuel Pool eat Exchanger HSF	Struther Wells	1-68-06-1519	U11445	
	omponent Cooling urge Tank ATCS	Sharpsville Steel	714	U1 1421	714
	afety Injection ump APSI-1A	Bingham Pump	290696		
	afety Injection ump APSI-1B	Bingham Pump	290697	• • •	•••
Pu	nfety Injection ump Lube Oil poler AHSC-1A	Thermxchanger	X10199A2	•••	•••

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COMPONENT OR APPURTENANCE	MANUFACTURER OR INSTALLER	MANUFACTURER OR INSTALLER SERIAL NO.	STATE OR PROVINCE NO.	NATIONAL BOARD NO.
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	681N027 6		

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COMPONENT OR APPURTENANCE	MANUFACTURER OR INSTALLER	MANUFACTURER OR INSTALLER SERIAL NO.	STATE OR PROVINCE NO.	NATIONAL BOARD NO.
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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- 7. COMPONENTS INSPECTED -

COMPONENT OR APPURTENANCE	MANUFACTURER OR INSTALLER	MANUFACTURER OR INSTALLER SERIAL NO.	STATE OR PROVINCE NO.	NATIONAL BOARD NO.
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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- 7. COMPONENTS INSPECTED -

COMPONENT OR APPURTENANCE	MANUFACTURER OR INSTALLER	MANUFACTURER OR INSTALLER SERIAL NO.	STATE OR PROVINCE NO.	NATIONAL BOARD NO.
Service Water Pump Strainer ASSW-1A1	S.P.Kinney Engineers	2278	<u>.</u>	•••
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) Date Thirdy 12 19 99 Signed Wissonsal Above Sandicus By Alexandra Owner
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of
Date <u>Vanuay</u> 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

- 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
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- 5. COMMERCIAL SERVICE DATE JUNE 16, 1974
- 6. NATIONAL BOARD NUMBER FOR UNIT N/A
- 7. COMPONENTS INSPECTED -

COMPONENT OR APPURTENANCE	MANUFACTURER OR INSTALLER	MANUFACTURER OR INSTALLER SERIAL NO.	STATE OR PROVINCE NO.	NATIONAL BOARD NO.
Reactor Building Containment Vessel	Chicago Bridge and Iron Company	C4454	U11423	
Personnel Airlock	Chicago Bridge and Iron Company	C4454	U11423	

FORM NIS-1 (Back)

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)

As Required by the Provisions of the ASME Code Section XI

	onsin Public Service Corp.			Date 1		_	_
700 North Adams P.O. Box 19001 Green Bay, WI 54307-9001			Sheet	Sheet1 of2			
2. Plant Kewaunee Nuclear Power Plant			Unit <u>N</u>	Unit No. 1			
N490 HWY 42 Kewaunee, WI 54216-9510			Work Re	Work Request Number 207750			
3. Work Performe	ed By Wisconsin Public Se	rvice Corp.		Туре Со	de Symb	ool Stamp NA	
700 North Ada	ıms P.O. Box 19001 Green I	Bay, WI 54307-9001		Authoriz	ation No.	NA_	
4. Identification o	of System 23 Class 2	CONTAINMENT SP	RAY	Expiration	n Date	NA	
5. (a) Applicable	Construction Code B16.5-	<u>-1967</u>	•	Cod e Ca	ise <u>NA</u>		
		d for Demoire on Deale	acements 198	9			
	Edition of Section XI Utilized for Components Repaired or R			_			
., .,				_	Year Built	Repaired, Replaced, or Replacement	ASME Code Stampe
6. Identification o	f Components Repaired or R	Replaced and Replace	ement Compone National	Other		Replaced, or	Code
6. Identification o Name of Component	Name of Manufacturer CRANE COMPANY Work INSPECT FOR LEA	Manufacturer Serial No. NA NA Pneumatic	National Board No. NA	Other ID ICS006-006	1970 R-400B.	Replaced, or Replacement REPAIRED	Code Stamp
6. Identification of Name of Component RHR-400B	Name of Manufacturer CRANE COMPANY Work INSPECT FOR LEA	Manufacturer Serial No. NA	National Board No. NA	Other ID ICS006-006	1970 1970 2-400B.	Replaced, or Replacement REPAIRED	Code Stamp

Sheet 2 of 2

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 the ASME Code Section XI.	repaired conforms to the rules of the repair or replacement
Type Code Symbol Stamp NA	
	Expiration Date NA
Signed Phillip C. Bukes Inspection analyst Owner or Owner's Designee, Title	Date January 4 , 19 99
Certificate of INSERV	/ICE INSPECTION
I, the undersigned, holding a valid commission issued by the Nationa	al Board of Boiler and Pressure Vessel Inspectors and the
State or Province of Wisconsin and employed by Hartford Steam Bo	iler Inspection and Ins. Co. of Hartford, CT have inspected
the components described in this Owner's Report during the period _	7-1-97 to 1-26-99, 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, Sec	tion XI.
By signing this certificate neither the Inspector nor his employer m	nakes any warranty, expressed or implied, concerning the
examinations and corrective measures described in this Owner's Re	port. Furthermore, neither the Inspector nor his employer
shall be liable in any manner for any personal injury or property dam	age or a loss of any kind arising from or connected with
this inspection.	

Commissions NB7741, I, N, IS, A WIS 100024

National Board, State, Province, and Endorsements

As Required by the Provisions of the ASME Code Section XI

1. Owner Wiscon	sin Public Service Corp.			Date 0	9/18/98		
700 North Adam	ns P.O. Box 19001 Green	Bay, WI 54307-9001		Sheet	1	of:	2
2. Plant <u>Kewaune</u>	ee Nuclear Power Plant			Unit <u>N</u>	<u>o. 1</u>		
N490 HWY 42	Kewaunee ,WI 54216-951	0		Work Re	equest Nu	umber <u>210559</u>	
3. Work Performed	By Wisconsin Public Ser	rvice Corp.		Туре Со	de Symb	ool Stamp <u>NA</u>	
700 North Adam	ns P.O. Box 19001 Green I	Bay, WI 54307-9001		Authoriz	ation No.	<u>NA</u>	
4. Identification of	System 34 Class 2	RESIDUAL HEAT R	EMOVAL	Expiration	on Date	NA	
5. (a) Applicable C	Construction Code <u>B31.1-</u>	1967	•	Code Ca	ase <u>NA</u>		
(b) Applicable E	Edition of Section XI Utilized	d for Repairs or Repla	cements 1989	9			
, ,	Edition of Section XI Utilized Components Repaired or R Name of Manufacturer			-	Year Bullt	Repaired, Replaced, or Replacement	ASMI Code Stamp
6. Identification of	Components Repaired or R Name of	eplaced and Replace	ment Componer	other		Replaced, or	Co
6. Identification of one of the state of the component of the state of	Name of Manufacturer CRANE VALVE CO. Ork REPAIR CLASS 2 ROPERATE.	eplaced and Replace Manufacturer Serial No.	Mational Board No. NA	Other ID AC010-008	Bullt 1972 HR-100B	Replaced, or Replacement REPAIRED DUE TO BEING H.	Stan
6. Identification of the Name of Component RHR-100B	Name of Manufacturer CRANE VALVE CO. //ork REPAIR CLASS 2 ROPERATE.	Manufacturer Serial No. NF RESIDUAL HEAT REM	Mational Board No. NA	Other ID AC010-008 M 8" VALVE R	Bullt 1972 HR-100B	Replaced, or Replacement REPAIRED DUE TO BEING H.	Co Star

Sheet 2 of 2

Date: 09/18/98

Name of Component: RHR-100B

Work Request Number: 210559

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 Phillips Bukes I Inspection analyst Date Languary 1, 19 99	Certificate of	Compliance	
repair or replacement ASME Code Section XI. Type Code Symbol Stamp NA Certificate of Authorization No. NA Expiration Date NA Signed Phillips Bukes I magnifum Analyst Date January 4 , 19 99	We certify that the statements made in the report are correct and the	nis repaired	conforms to the rules of the
Certificate of Authorization No. NA Expiration Date NA Signed Phillips Bukes I repetion analyst Date January 4, 19 99			
Signed Phillip C Bukes I respection analyst Date January 4, 19 99	Type Code Symbol Stamp NA		
	Certificate of Authorization No. NA	Expiration Date	· NA
Owner or Owner's Designee, Title	Signed Phillip C Buked I moseution 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-/-97 to /-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.

inis inspection.		
Roya Miffurs Inspector's Bignature	Commissions	NB7741, I, N, IS, A WIS 100024 National Board, State, Province, and Endorsements
Date <u>January</u> 20 19 99		

As Required by the Provisions of the ASME Code Section Xi

1. Owner Wisc	ensin Bublic Conside Com						
	onsin Public Service Corp.			Date 1	2/15/98		
700 North Ad	ams P.O. Box 19001 Gree	en Bay, WI 54307-9001	<u>L</u>	Sheet	1	of	2
2. Plant Kewau	nee Nuclear Power Plant			Unit <u>N</u>	lo. 1		
N490 HWY 4	12 Kewaunee, WI 54216-9	<u>510</u>		Work R	equest Nu	ımber <u>210704</u>	
3. Work Perform	ed By Wisconsin Public S	Service Corp.		Type Co	ode Symb	ol Stamp <u>NA</u>	
700 North Ada	ams P.O. Box 19001 Gree	n Bay, WI 54307-9001		Authoriz	ation No.	NA	
4. Identification of	of System 35 Class 2	CHEMICAL AND VO	DLUME CONTR	OL Expiration	on Date	NA.	
5. (a) Applicable	Construction Code B16	<u>5-1967</u>		Code C	ase <u>NA</u>		
(b) Applicable	e Edition of Section XI Utiliz	ed for Repairs or Repla	acements 198	9			
						Repaired,	
Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nationai Board No.	Other ID	Year Built	Replaced, or Replacement	ASME Code Stamped
Component						Replaced, or	
Component	Manufacturer	Serial No.	Board No.	ID	Buiit	Replaced, or Replacement	Code Stamped
Component	Manufacturer	Serial No.	Board No.	ID	Buiit	Replaced, or Replacement	Code Stamped
Component CVC-212	Manufacturer ALOYCO, INC.	Serial No.	Board No.	ID CS030-001	Built 1970	Replaced, or Replacement REPAIRED	Code Stamped
Component CVC-212	Manufacturer ALOYCO, INC.	Serial No. 70 A 636 8	Board No.	ID CS030-001	Built 1970	Replaced, or Replacement REPAIRED	Code Stamped
CVC-212 7. Description of	Manufacturer ALOYCO, INC. Work REPAIR CLASS 2	Serial No. 70 A 636 8	Board No.	CS030-001	Built 1970	Replaced, or Replacement REPAIRED	Code Stamped
CVC-212 7. Description of	Manufacturer ALOYCO, INC. Work REPAIR CLASS 2	Serial No. 70 A 636 8 CHEMICAL AND VOL	Board No. NA UME CONTRO Nominal Opera	CS030-001	Built 1970 VALVE C	Replaced, or Replacement REPAIRED VC-212.	Code Stamped
Component CVC-212 7. Description of 8. Tests Conducte	Manufacturer ALOYCO, INC. Work REPAIR CLASS 2 ed: Hydrostatic	Serial No. 70 A 636 8 CHEMICAL AND VOL Pneumatic	Board No. NA UME CONTRO Nominal Opera	CS030-001 L SYSTEM 3"	Built 1970 VALVE C	Replaced, or Replacement REPAIRED VC-212.	Code Stamped
Component CVC-212 7. Description of 3. Tests Conducte	Manufacturer ALOYCO, INC. Work REPAIR CLASS 2 ed: Hydrostatic	Serial No. 70 A 636 8 CHEMICAL AND VOL Pneumatic	Board No. NA UME CONTRO Nominal Opera	CS030-001 L SYSTEM 3"	Built 1970 VALVE C	Replaced, or Replacement REPAIRED VC-212.	Code Stamped

Sheet 2 of 2

Date: 12/15/98

Name of Component: CVC-212

Work Request Number: 210704

Certificate of C	ompliance	
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 replaceme	
Type Code Symbol Stamp NA		
	piration Date	NA
Signed Phillips Bukes Flont I manuer of Designee, Title	Date Jan	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.

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

As Required by the Provisions of the ASME Code Section XI

700 North Adams P.O. Box 19001 Green Bay, WI 54307-9001 Sheet 1 2. Plant Kewaunee Nuclear Power Plant Unit No. 1	
2. Plant Kewaunee Nuclear Power Plant Unit No. 1	of <u>2</u>
N490 HWY 42 Kewaunee, WI 54216-9510 Work Request Number 2	10803
3. Work Performed By Wisconsin Public Service Corp. Type Code Symbol Stam	» <u>NA</u>
700 North Adams P.O. Box 19001 Green Bay, WI 54307-9001 Authorization No. NA	<u>. </u>
4. Identification of System 35 Class 2 CHEMICAL AND VOLUME CONTROL Expiration Date NA	_
5. (a) Applicable Construction Code <u>NA</u> Code Case <u>NA</u>	
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989	
	lired, ASME aced, or Code acement Stampa
	AIRED N
APCH-1B AJAX IRON WORKS 6576 NA 00076 1967 REPA	
7. Description of Work REPAIR EXCESSIVE SEAL LEAKOFF ON CLASS 2 CHEMICAL AND VOLUME CONTI	ROL SYSTEM
7. Description of Work REPAIR EXCESSIVE SEAL LEAKOFF ON CLASS 2 CHEMICAL AND VOLUME CONTI	ROL SYSTEM

Sheet 2 of 2

Date: 09/25/97

Name of Component: <u>APCH-1B</u>
Work Request Number: <u>210803</u>

Certificate of Co	ompliance	
We certify that the statements made in the report are correct and this	repair e d	conforms to the rules of the
The series and statements made in the report are connected and	repair or repl	
ASME Code Section XI.		
Type Code Symbol Stamp NA		

Certificate of Authorization No. NA Ex	piration Date	NA NA
Signed Phillips C. Bukes Inspection analyst	Date	January 4 , 19 99
Owner or Owner's Designee, Title		A The state of the
Certificate of INSERVIO	TE INSDEC	TION
Certificate of INSERVIC		HON
I, the undersigned, holding a valid commission issued by the National E	Board of Boile	r and Pressure Vessel Inspectors and
State or Province of Wisconsin and employed by Hartford Steam Boile	r inspection a	nd Ins. Co. of Hartford. CT have inspe

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-/-97 to /- 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.

this inspection.		
Nogr Mymm- Inspector's Agnature Date January 20 19 99	Commissions	NB7741, i, N, IS, A WIS 100024 National Board, State, Province, and Endorsements

As Required by the Provisions of the ASME Code Section XI

	consin Public Service Corp. dams P.O. Box 19001 Gre		Į.	Date <u>0</u> Sheet		of	2	
2. Plant <u>Kewa</u>	unee Nuclear Power Plant			Unit <u>N</u>	lo. 1			
N490 HWY 42 Kewaunee, WI 54216-9510					Work Request Number 211518			
Work Performed By <u>Wisconsin Public Service Corp.</u>					ode Symb	ool Stamp <u>NA</u>		
700 North Ac	iams P.O. Box 19001 Gree	Authoriz	ation No.	NA_				
4. Identification	of System 35 Class 2	CHEMICAL AND VO	DLUME CONTR	OL Expiration	on Date	NA		
5. (a) Applicable	e Construction Code B16	<u> 3.5-1967</u>		Code Ca	se <u>NA</u>			
		zeo for Repairs of Repla	cements 198	<u>9</u>				
, ,	le Edition of Section XI Utili							
, ,	of Components Repaired o			nts				
, ,				Other ID	Year Bullt	Repaired, Replaced, or Replacement	ASME Code Stampa	
6. Identification	of Components Repaired o	r Replaced and Replace Manufacturer	ment Compone	Other		Replaced, or	Code	
6. Identification Name of Component CVC-212 7. Description o	of Components Repaired of Name of Manufacturer ALOYCO, INC.	Manufacturer Serial No. 70 A 636 8	National Board No. NA	Other ID CS030-001	Bullt 1970 ONTROL	Replaced, or Replacement REPAIRED	Code Stampa N	
6. Identification Name of Component CVC-212	of Components Repaired of Name of Manufacturer ALOYCO, INC.	Manufacturer Serial No. 70 A 636 8	National Board No.	Other ID CS030-001	Bullt 1970	Replaced, or Replacement REPAIRED	Code Stampa N	

Sheet 2 of 2

Date: <u>07/24/97</u>

Name of Component: <u>CVC-212</u>

Work Request Number: <u>211518</u>

Certificate of C	ompliance	
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	•
ASIVE COUR SECTION AT.		
Type Code Symbol Stamp NA		
Certificate of Authorization No. NA Ex	piration Date	NA
Signed Phillip C. Bukes Impection analyst Owner or Owner's Designee, Title	Date Januar	19 99
Certificate of INSERVI	CE INCRECTION	
I, the undersigned, holding a valid commission issued by the National		
State or Province of Wisconsin and employed by Hartford Steam Boile		•
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 a	nd taken corrective mea	sures described in this Owner's
Report in accordance with the requirements of the ASME Code, Section	on XI.	
By signing this certificate neither the Inspector nor his employer mail	kes anv warrantv. expre	ssed or implied concerning the
examinations and corrective measures described in this Owner's Repo		_
	•	
shall be liable in any manner for any personal injury or property damag	je or a loss of any Kind a	arising from or connected with
this inspection.		
1 9 4		
Kogn Mognen Commiss		
✓ inspector's Stanature	National Board, S	State, Province, and Endorsements
Date <u>January</u> 20 19 99		

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

rth Adams	Owner Wisconsin Public Servico Corp.							
700 North Adams P.O. Box 19001 Green Bay, WI 54307-9001					1	of2	2	
2. Plant Kewaunee Nuclear Power Plant					Unit No. 1			
N490 HWY 42 Kewaunee, WI 54216-9510			Work Ro	Work Request Number 212409				
Work Performed By <u>Wisconsin Public Service Corp.</u>				Type Co	ode Symb	ol Stamp <u>NA</u>		
rth Adams	P.O. Box 19001 Green	n Bay, WI 54307-9001		Authoriz	ation No.	NA		
ation of S	ystem 33 Class 2	SAFETY INJECTION	<u>N</u>	Expiration	on Date	NA		
licable Co	onstruction Code <u>B16.</u>	<u>5-1967</u>		Code C	ase <u>NA</u>			
etion of C	omponents Repaired or	Replaced and Replace	ment Compone	- nts				
nt	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other ID	Year Bulit	Repaired, Replaced, or Replacement	ASME Code Stampe	
nt		Manufacturer	National	Other		Replaced, or	Code	
	of Wo	Name of Manufacturer VELAN VALVE CORPORATION	Name of Manufacturer Manufacturer Serial No. VELAN VALVE NF CORPORATION	Name of Manufacturer National Manufacturer Serial No. Board No. VELAN VALVE NF NA CORPORATION	Name of Manufacturer National Other Manufacturer Serial No. Board No. ID VELAN VALVE NF NA SI014-001 CORPORATION	Name of Manufacturer National Other Year Manufacturer Serial No. Board No. ID Built VELAN VALVE NF NA SI014-001 1967 CORPORATION	Name of Manufacturer National Other Year Replaced, or Manufacturer Serial No. Board No. ID Built Replacement VELAN VALVE NF NA SI014-001 1967 REPAIRED CORPORATION	

Date: 12/15/98

this inspection.

Name of Component: SI-8A

Report in accordance with the requirements of the ASME Code, Section XI.

Date <u>Jamesy</u> 20 19 99

Work Request Number: 212409

Certificate of C	ompliance	,
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 repla	
Type Code Symbol Stamp NA		
Certificate of Authorization No. NA Ex	piration Date	NA
Signed Phillip C. Bukes I nopertion analyse Owner or Owner's Designee, Title	≵ Date _	January 4 , 19 99
Certificate of INSERVI	CE INSPEC	TION
, 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 Boile	r Inspection an	nd Ins. Co. of Hartford, CT have inspected
he components described in this Owner's Report during the period	<u>7-1-97</u> to	1-20-99, and state that to the bes
of my knowledge and belief, the Owner has performed examinations a	nd taken corre	ctive measures desoribed in this Owner's

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

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

National Board, State, Province, and Endorsements

As Required by the Provisions of the ASME Code Section XI

1 Owner Wiscon	sin Public Service Corp.			Date 1	0/22/97			
-				_				
700 North Adam	ns P.O. Box 19001 Green B	lay, WI 54307-9001		Sheet	1	of2	2	
Plant Kewaunee Nuclear Power Plant				Unit <u>N</u>	Unit No. 1			
N490 HWY 42 Kewaunee, WI 54216-9510				Work R	equest Nu	m ber <u>212483</u>		
Work Performed By <u>Wisconsin Public Service Corp.</u>					ode Symbo	ol Stamp NA		
700 North Adam	ns P.O. Box 19001 Green Ba	ay, WI 54307-9001		Authoriz	ation No.	_NA		
4. Identification of S	System <u>35</u> Class 2	CHEMICAL AND VO	LUME CONTRO	<u>DL</u> Expiration	on Date	NA		
5 (a) Applicable C	Construction Code SEC.III	CL2-1980 ADD		Code C	ase NA		•	
						•		
(b) Applicable E	Edition of Section XI Utilized	for Repairs or Repla	cements 1989					
				4				
6. Identification of	Components Repaired or Re	placed and Replace	ment Componen	ts				
6. Identification of	Components Repaired of Re	placed and Replace	ment Componen	ts				
Name of	Name of	Manufacturer	National	Other	Year	Repaired, Replaced, or	Code	
Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other ID	Bullt	Replaced, or Replacement	Stampe	
Name of Component	Name of	Manufacturer	National	Other		Replaced, or	Code	
Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other ID	Bullt	Replaced, or Replacement	Code Stampe	
Name of Component APSS-1A	Name of Manufacturer GREER HYDRAULICS	Manufacturer Serial No. GH1-10234	National Board No. 568	Other ID 162-935	Bullt 1981	Replaced, or Replacement REPAIRED	Code Stampe Y	
Name of Component APSS-1A	Name of Manufacturer GREER HYDRAULICS	Manufacturer Serial No. GH1-10234 HEMICAL AND VOL	National Board No. 568 UME CONTROL	Other ID 162-935	Bullt 1981	Replaced, or Replacement REPAIRED	Code Stampe Y	
Name of Component APSS-1A	Name of Manufacturer GREER HYDRAULICS	Manufacturer Serial No. GH1-10234 HEMICAL AND VOL	National Board No. 568 UME CONTROL	Other ID 162-935	Bullt 1981	Replaced, or Replacement REPAIRED	Code Stampe Y	
Name of Component APSS-1A 7. Description of W	Name of Manufacturer GREER HYDRAULICS Vork REPAIR CLASS 2 CH STABILIZER DUE TO	Manufacturer Serial No. GH1-10234 HEMICAL AND VOL	National Board No. 568 UME CONTROL	Other ID 162-935	Bullt 1981	Replaced, or Replacement REPAIRED	Code Stampe Y	
Name of Component APSS-1A 7. Description of W	Name of Manufacturer GREER HYDRAULICS Vork REPAIR CLASS 2 CH STABILIZER DUE TO	Manufacturer Serial No. GH1-10234 HEMICAL AND VOL	National Board No. 568 UME CONTROL ABILIZER.	Other ID 162-935	Built 1981 HARGING	Replaced, or Replacement REPAIRED PUMP 1A SUCTIO	Code Stamp Y	
Name of Component APSS-1A	Name of Manufacturer GREER HYDRAULICS Vork REPAIR CLASS 2 CH STABILIZER DUE TO	Manufacturer Serial No. GH1-10234 HEMICAL AND VOL D NOISE IN THE ST	National Board No. 568 UME CONTROL ABILIZER.	Other ID 162-935 SYSTEM CH	Built 1981 HARGING	Replaced, or Replacement REPAIRED PUMP 1A SUCTIO	Code Stamp Y	

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 repair or replacement ASME Code Section XI.
Type Code Symbol Stamp NA
Certificate of Authorization No. NA Expiration Date NA
Signed Phillip C. Buked Inspection analyst Date January 4, 1999 Owner or Owner's Designed, 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
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 X1.
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.
Commissions NB7741, I, N, IS, A WIS 100024 Inspector Signature Date January 20 19 99

As Required by the Provisions of the ASME Code Section Xi

6. Identification of C	Components Repaired or Re	placed and Replace	ment Componen	nts	-	Repaired,	ASME	
, , , ,	dition of Section XI Utilized	for Repairs or Repla	cements 1989	!				
5. (a) Applicable C	onstruction Code SEC.III-	CL2 1980 ADD		Code C	ase <u>NA</u>			
4. Identification of S	System <u>35</u> Class 2 <u>(</u>	CHEMICAL AND VO	LUME CONTRO	<u>OL</u> Expirati	on Date	NA		
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								
N490 HWY 42 Kewaunee, WI 54216-9510 3. Work Performed By Wisconsin Public Service Corp.								
·		_	Unit No. 1 Work Request Number 212878					
•	s P.O. Box 19001 Green B e Nuclear Power Plant	Sheet		of2	<u>'</u>			
		_	0/24/97		· ·			

Sheet 2 of 2

Date: 10/24/97

Name of Component: <u>APSS-1B</u>
Work Request Number: <u>212878</u>

Certificate of C	ompliance	
We certify that the statements made in the report are correct and this ASME Code Section XI.	repaired repair or replacement	_ conforms to the rules of the
Type Code Symbol Stamp NA		
	piration Date	NA
Signed Phillip C. Bukeo I maerice Owner or Owner's Designee, Title	T Date Jonu	any 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 measuras 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.

uns inspection.		
Inspector & Signature	Commissions	NB7741, I, N, IS, A WIS 100024 National Board, State, Province, and Endorsements
Date <u>January</u> 20 19 99		

As Required by the Provisions of the ASME Code Section XI

700 North Ad-	ams P.O. Box 19001 Green I	Ray MI 54307-0001		Sheet	4	of	2
700 North Ada	ams P.O. Box 19001 Green	Bay, WI 54507-9001	•	Sileet	. ———	of	
Plant Kewaunee Nuclear Power Plant					No. 1		
N490 HWY 4	2 Kewaunee, WI 54216-9510	<u>o</u>		Work R	equest Nu	umber <u>213477</u>	
3. Work Perform	ed By Wisconsin Public Ser	vice Corp.		Type C	ode Symb	ol Stamp <u>NA</u>	
700 North Ada	ams P.O. Box 19001 Green B	Bay, WI 54307-9001		Authoria	zation No.	NA	
4. Identification of	of System 35 Class 2	CHEMICAL AND VO	LUME CONTRO	<u>OL</u> Expirati	on Date	_NA	•
	•			Code C	ase NA		
5. (a) Applicable	e Construction Code <u>NA</u>		,	00000			
(b) Applicable	e Edition of Section XI Utilized		*******	9	<u></u>	·	
(b) Applicable	_		*******	9	<u></u>	·	
(b) Applicable 3. Identification of Name of	e Edition of Section XI Utilized		*******	9	Year Bulit	Repaired, Replaced, or Replacement	ASI Coo Stan
(b) Applicable	e Edition of Section XI Utilized of Components Repaired or Re	eplaced and Replace Manufacturer	ment Componer	g nts Other	Year	Replaced, or	Co
(b) Applicable 6. Identification of Name of Component	e Edition of Section XI Utilized of Components Repaired or Re Name of Manufacturer	eplaced and Replace Manufacturer Seriai No.	ment Componer Nationai Board No.	9 nts Other ID	Year Bulit	Replaced, or Replacement	Coo Stan
(b) Applicable 6. Identification of Name of Component	e Edition of Section XI Utilized of Components Repaired or Re Name of Manufacturer	eplaced and Replace Manufacturer Seriai No.	ment Componer Nationai Board No.	9 nts Other ID	Year Bulit	Replaced, or Replacement	Coo Stan
(b) Applicable 3. Identification of Name of Component	e Edition of Section XI Utilized of Components Repaired or Re Name of Manufacturer AJAX IRON WORKS	eplaced and Replace Manufacturer Seriai No.	ment Componer Nationai Board No. NA	Other ID 00075	Year Bulit	Replaced, or Replacement REPAIRED	Coc Stan
(b) Applicable Identification of Name of Component APCH-1A	e Edition of Section XI Utilized of Components Repaired or Re Name of Manufacturer AJAX IRON WORKS Work REPAIR CLASS 2 C PUMP).	Manufacturer Serial No. 6578	ment Componer Nationai Board No. NA	Other ID 00075	Year Bulit 1967	Replaced, or Replacement REPAIRED	Coc Stan

Sheet 2 of 2

Date: 03/17/98

Name of Component: APCH-1A

Work Request Number: 213477

Certificate of Co	mpliance	-
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		· .
	piration Date	NA
Signed Phillip C. Bukes Inspection makes Owner or Owner's Designee, Title	Z Date Janu	19 49

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, concorning 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.

Commissions NB7741, I, N, IS, A WIS 100024 Inspector's Spnature Date January 20 19 99	this inspection.			
	Inspector's Sphature Date January 80	19 99	Commissions	

As Required by the Provisions of the ASME Code Section XI

700 North Adar	ms P.O. Box 19001 Green E	Bay, WI 54307-900	01		03/17/98			
2. Plant Kewaunee Nuclear Power Plant					Sheet1 of2			
				Unit	Unit <u>No. 1</u>			
N490 HWY 42 Kewaunee, WI 54216-9510				Work I	Work Request Number 213612			
Work Performed By <u>Wisconsin Public Service Corp.</u>					Type Code Symbol Stamp NA			
700 North Adam	ns P.O. Box 19001 Green Ba	ay, WI 54307-9001	<u>1</u>	Author	ization No	. <u>NA</u>		
4. Identification of	System <u>89A</u> Class MC <u>E</u>	BUILDINGS - STRU	JCTURES .	Expirat	tion Date	NÀ_		
5. (a) Applicable Construction Code SEC. III-CL.B-1965W					Code Case NA			
(b) Applicable E	dition of Section XI Utilized f	for Repairs or Repla	acements 1992	2 Addenda		•		
	dition of Section XI Utilized for			2 Addenda				
	dition of Section XI Utilized for Repaired or Rep							
6. Identification of C Name of Component	Components Repaired or Rep Name of Manufacturer				Year Built	Repaired, Repiaced, or Replacement	ASME Code Stamps	
6. Identification of C Name of Component	Components Repaired or Rep	placed and Replace	ement Componer	Other		Replaced, or Replacement	Code Stamp	
	Name of Manufacturer CHICAGO BRIDGE AND	Diaced and Replace Manufacturer Serial No.	Pment Componer National Board No.	Other ID	Built	Replaced, or	Code	
6. Identification of C Name of Component	Name of Manufacturer CHICAGO BRIDGE AND	Diaced and Replace Manufacturer Serial No.	Pment Componer National Board No.	Other ID	Built	Replaced, or Replacement	Code Stamp	
6. Identification of C Name of Component PERSN. AIRLOCK	Name of Manufacturer CHICAGO BRIDGE AND IRON COMPANY	Manufacturer Serial No.	National Board No.	Other iD 1S-0002	Built 1969	Replaced, or Replacement REPLACEMENT	Code Stamp	
6. Identification of C Name of Component PERSN. AIRLOCK	Name of Manufacturer CHICAGO BRIDGE AND IRON COMPANY	Manufacturer Serial No.	National Board No.	Other iD 1S-0002	Built 1969	Replaced, or Replacement REPLACEMENT	Code Stamp	
6. Identification of C Name of Component PERSN. AIRLOCK 7. Description of Wo	Name of Manufacturer CHICAGO BRIDGE AND IRON COMPANY	Manufacturer Serial No. C4454	National Board No. NA	Other iD 1S-0002	Built 1969	Replaced, or Replacement REPLACEMENT	Code Stamp	
6. Identification of C Name of Component PERSN. AIRLOCK	Name of Manufacturer CHICAGO BRIDGE AND IRON COMPANY	Manufacturer Serial No. C4454	National Board No.	Other iD 1S-0002	Built 1969 ONNEL A	Replaced, or Replacement REPLACEMENT	Code Stamp	

Sheet 2 of 2

Date: 03/17/98

Name of Component: PERSN. AIRLOCK

Work Request Number: 213612

replacement replacement	_ conforms to the rules of the
piration Date	NA
Z Date Jone	19 99
	ď
	·

Certificate of INSERVICE INSPECTION

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in 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.

shall be liable in any manner for any personal injury or prop	erty damage or a	a loss of any kind arising from or connected with
this inspection.		•
Roya Motrum Inspector's Signature Date January 20 19 99	Commissions	NB7741, I, N, IS, A WIS 100024 National Board, State, Province, and Endorsements

As Required by the Provisions of the ASME Code Section XI

1. Owner Wisco							
700 North Ada	ms P.O. Box 19001 Green B	Bay, WI 54307-9001	<u>l</u>	Sheet	1	of	2
2. Plant Kewaur	nee Nuclear Power Plant			Unit <u>N</u>	No. 1		
N490 HWY 42	2 Kewaunee, WI 54216-9510	<u>)</u>		Work R	equest Nu	ımber <u>213785</u>	
3. Work Performe	ed By Wisconsin Public Serv	vice Corp.		Type C	ode Symb	ol Stamp <u>NA</u>	
700 North Ada	ms P.O. Box 19001 Green Ba	ay, WI 54307-9001		Authoria	zation No.	NA	
4. Identification o	f System 35 Class 2	CHEMICAL AND VO	OLUME CONTRO	OL Expirati	on Date	NA	
5. (a) Applicable	Construction Code SEC.III	CL2-1980 ADD		Code C	ase <u>NA</u>		
				_			
(b) Applicable	Edition of Section XI Utilized	for Repairs or Repla	acements 1989	9			
(b) Applicable	Edition of Section XI Utilized	for Repairs or Repla	acements 1989	9			
	Edition of Section XI Utilized for Components Repaired or Re	,		-			
	•	,		-		·	
	•	,		-	Year Built	Repaired, Replaced, or Replacement	ASME Code Stampe
6. Identification o Name of Component	f Components Repaired or Re Name of	eplaced and Replace	ement Componer	Other		Replaced, or	Code
6. Identification o	f Components Repaired or Re Name of Manufacturer	pplaced and Replace Manufacturer Serial No.	nent Componer National Board No.	Other ID	Built	Replaced, or Replacement	Code Stamp
6. Identification o Name of Component	f Components Repaired or Re Name of Manufacturer	pplaced and Replace Manufacturer Serial No.	nent Componer National Board No.	Other ID	Built	Replaced, or Replacement	Code Stamp
6. Identification o Name of Component APSS-1A	f Components Repaired or Re Name of Manufacturer GREER HYDRAULICS Work REPAIR CLASS 2 CH	Manufacturer Serial No. GH1-10234	National Board No. 568	Other ID 162-935	1981	Replaced, or Replacement REPAIRED	Code Stamp Y
6. Identification o Name of Component APSS-1A	f Components Repaired or Re Name of Manufacturer GREER HYDRAULICS	Manufacturer Serial No. GH1-10234	National Board No. 568	Other ID 162-935	1981	Replaced, or Replacement REPAIRED	Code Stamp Y
6. Identification of Name of Component APSS-1A 7. Description of Name of Name of Component	Name of Manufacturer GREER HYDRAULICS Work REPAIR CLASS 2 CH	Manufacturer Serial No. GH1-10234	National Board No. 568	Other iD 162-935	1981	Replaced, or Replacement REPAIRED	Code Stamp
6. Identification of Name of Component APSS-1A 7. Description of Name of Name of Name of Component	Name of Manufacturer GREER HYDRAULICS Work REPAIR CLASS 2 CH	Manufacturer Serial No. GH1-10234	National Board No. 568	Other iD 162-935	1981	Replaced, or Replacement REPAIRED	Code Stamp
6. Identification of the second of the secon	Name of Manufacturer GREER HYDRAULICS Work REPAIR CLASS 2 CH STABILIZER DUE TO	Manufacturer Serial No. GH1-10234	National Board No. 568	Other iD 162-935	Built 1981 HARGING	Replaced, or Replacement REPAIRED PUMP 1A SUCTIO	Code Stamp Y
6. Identification of Name of Component APSS-1A 7. Description of Name of Name of Component	Name of Manufacturer GREER HYDRAULICS Work REPAIR CLASS 2 CH STABILIZER DUE TO	Manufacturer Serial No. GH1-10234 HEMICAL AND VOLOCLICKING NOISE	National Board No. 568	Other ID 162-935 SYSTEM CH	Built 1981 HARGING	Replaced, or Replacement REPAIRED PUMP 1A SUCTIO	Code Stamp Y

Sheet 2 of 2

Date: <u>03/24/98</u>

this inspection.

Name of Component: <u>APSS-1A</u>
Work Request Number: <u>213785</u>

Certificate of Co	ompliance	
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 Exp	piration Date	NA
Signed Phillip C. Bukes Impection analysi	t Date Jones	AM 4 , 19 99
Owner or Owner's Designee, Title	_ 4	4
Certificate of INSERVIC	SE INSPECTION	
I, the undersigned, holding a valid commission issued by the National E	Board of Boiler and Pr€	essure Vessel Inspectors and the
State or Province of Wisconsin and employed by Hartford Steam Boiler	r Inspection and Ins. C	o. of Hartford, CT have inspected
the components described in this Owner's Report during the period	7-1-97 to 1-2	o -99, and state that to the best
of my knowledge and belief, the Owner has performed examinations ar	nd taken corrective me	asures described in this Owner's
Report in accordance with the requirements of the ASME Code, Section	n XI.	
By signing this certificate neither the Inspector nor his employer make	es any warranty, expr	essed or implied, concerning the
examinations and corrective measures described in this Owner's Report	rt. Furthermore, neithe	er the Inspector nor his employer
shall be liable in any manner for any personal injury or property damage	a or a loss of any kind	arising from or connected with

Commissions NB7741, I, N, IS, A WIS 100024
National Board, State, Province, and Endorsements
ate January 20 19 99

As Required by the Provisions of the ASME Code Section Xi

4. O	sain Bublic Consider Com						
	sin Public Service Corp.			Date 1	1/13/98		
700 North Adam	ns P.O. Box 19001 Green B	Say, WI 54307-9001		Sheet	1	of	2
2. Plant Kewaune	ee Nuclear Power Plant			. Unit <u>N</u>	<u>lo. 1</u>		
N490 HWY 42	Kewaunee, WI 54216-9510			Work Re	equest Nu	ımber <u>214001</u>	
3. Work Performed	d By Wisconsin Public Servi	ice Corp.		Type Co	de Symb	ol Stamp <u>NA</u>	
7 <u>00 North Adan</u>	ns P.O. Box 19001 Green Ba	a yWI 54307-9001		Authoriz	ation No.	NA	
4. Identification of	System <u>05B</u> Class 2	AUXILIARY FEEDW	ATER	Expiration	on Date	<u>NA</u>	
5. (a) Applicable (Construction Code B31.1-19	<u>967</u>		Code Ca	ase <u>NA</u>		
	- 1701 - 1.00 - 1.00 - 1.00	for Bonoim or Bonio	cements 1969			•	
/h) Annlicable E							
(b) Applicable i	Edition of Section XI Utilized f	ioi Repails of Repla	Coments 1909	•			
	edition of Section XI Utilized f Components Repaired or Rej			_			
				_			
				_	Year Built	Repeired, Replaced, or Replacement	ASME Code Stamped
6. Identification of a	Components Repaired or Rep	placed and Replaced	ment Componen	Other		Replaced, or	Code
6. Identification of o	Components Repaired or Rep Name of Manufacturer	placed and Replaced Manufacturer Serial No.	Mational Board No.	Other ID	Built	Replaced, or Replacement	Code Stamped
6. Identification of o	Components Repaired or Rep Name of Manufacturer	placed and Replaced Manufacturer Serial No.	Mational Board No.	Other ID	Built	Replaced, or Replacement	Code Stamped
6. Identification of o	Components Repaired or Rep Name of Manufacturer WILLIAM POWELL CO.	placed and Replaced Manufacturer Serial No.	Mationai Board No.	Other ID F015-002	Built 1972	Replaced, or Replacement REPAIRED	Code Stamped
6. Identification of a Name of Component AFW-4B	Components Repaired or Rep Name of Manufacturer WILLIAM POWELL CO.	placed and Replaced Manufacturer Serial No.	Mationai Board No.	Other ID F015-002	Built 1972	Replaced, or Replacement REPAIRED	Code Stamped
6. Identification of a Name of Component AFW-4B	Components Repaired or Rep Name of Manufacturer WILLIAM POWELL CO.	Manufacturer Serial No. NF	Mationai Board No.	Other ID F015-002	Built 1972	Replaced, or Replacement REPAIRED	Code Stamped
6. Identification of the Name of Component AFW-4B 7. Description of W	Name of Manufacturer WILLIAM POWELL CO.	Manufacturer Serial No. NF FION CALSS 2 AUX	National Board No. NA	Other ID F015-002	Built 1972 M 3" VAL	Replaced, or Replacement REPAIRED VE AFW-4B.	Code Stamped
Name of Component AFW-4B 7. Description of W. 8. Tests Conducted	Name of Manufacturer WILLIAM POWELL CO.	Manufacturer Serial No. NF FION CALSS 2 AUX	National Board No. NA	Other ID F015-002	Built 1972 M 3" VAL	Replaced, or Replacement REPAIRED VE AFW-4B.	Code Stamped

Sheet 2 of 2

Date: <u>11/13/98</u>

Name of Component: <u>AFW-4B</u>

Work Request Number: <u>214001</u>

Certificate of Compliance
We certify that the statements made in the report are correct and this 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. Bukas Inspection Unalyst Date January 4, 19 99 Dwner 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 warrenty, 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.
Commissions NB7741, I, N, IS, A WIS 100024 National Board, State, Province, and Endorsements
Date <u>January</u> 20 19 99

As Required by the Provisions of the ASME Code Section Xi

1. Owner Wisconsin Public Service Corp.					06/11/98			
700 North Adams P	700 North Adams P.O. Bcx 19001 Green Bay, WI 54307-9001					cf	2	
Plant Kewaunee Nuclear Power Plant				Unit <u>I</u>	Unit No. 1			
N490 HWY 42 Kewaunee, WI 54216-9510				Work R	equest No	umber <u>214036</u>		
Work Performed By <u>Wisconsin Public Service Corp.</u>				Туре С	ode Symb	ool Stamp <u>NA</u>		
700 North Adams P.	O. Box 19001 Green Ba	ay, WI 54307-9001	•	Authoria	zati o n No.	NA_		
4. Identification of Syste	em <u>35</u> Class 2	CHEMICAL AND VO	DLUME CONTRO	<u>OL</u> Expirati	on Date	_NA_		
5. (a) Applicable Const	truction Code SEC.III-	CL2 1980 ADD		Code C	ase <u>NA</u>			
/L\		faa Dawat yn 1904						
(n) wholicenie Edition	on of Section XI Utilized to	ior Repairs or Repla	cements 1989	1				
				_				
6 Identification of Com	nonents Renaired or Re	niaced and Peniace	ment Componen	- nte				
6. Identification of Comp	ponents Repaired or Re	placed and Replace	ment Componen	nts				
6. Identification of Com _l	pon e nts Repaired or Re	placed and Replace	ment Componen	nts				
Name of Na	ponents Repaired or Repaired or Repaired or Repaired or arms of anufacturer	placed and Replace Manufacturer Serial No.	ment Componen National Board No.	Other ID	Year Built	Repaired, Repiaced, or Repiacement	ASi Coo Stan	
Name of Na Component Ma	ame of	Manufacturer	National	Other		Repiaced, or	Co	
Name of Na Component Ma	ame of anufacturer	Manufacturer Serial No.	National Board No.	Other ID	Built	Replaced, or Replacement	Coo Stan	
Name of Na Component Ma	ame of anufacturer	Manufacturer Serial No.	National Board No.	Other ID	Built	Replaced, or Replacement	Co Stan	
Name of Na Component Ma APSS-1B GF	ame of anufacturer REER HYDRAULICS	Manufacturer Serial No. GH1-10235	National Board No. 569	Other ID 162-936	Built 1981	Replaced, or Replacement REPAIRED	Co Stan	
Name of Na Component Ma APSS-1B GF	ame of anufacturer REER HYDRAULICS REPAIR CLASS 2 CH	Manufacturer Seriai No. GH1-10235	National Board No. 569 UME CONTROL	Other ID 162-936	Built 1981	Replaced, or Replacement REPAIRED	Co Star	
Name of Na Component Ma APSS-1B GF	ame of anufacturer REER HYDRAULICS	Manufacturer Seriai No. GH1-10235	National Board No. 569 UME CONTROL	Other ID 162-936	Built 1981	Replaced, or Replacement REPAIRED	Co Stan	
Name of Na Component Ma APSS-1B GF 7. Description of Work	ame of anufacturer REER HYDRAULICS REPAIR CLASS 2 CH STABILIZER DUE TO	Manufacturer Seriai No. GH1-10235	National Board No. 569 UME CONTROL	Other ID 162-936	Built 1981	Replaced, or Replacement REPAIRED	Coc Stan	
Name of Na Component Ma APSS-1B GF 7. Description of Work	ame of anufacturer REER HYDRAULICS REPAIR CLASS 2 CH STABILIZER DUE TO	Manufacturer Seriai No. GH1-10235	National Board No. 569 UME CONTROL	Other ID 162-936	Built 1981	Replaced, or Replacement REPAIRED	Coc Stan	
Name of Na Component Ma APSS-1B GF 7. Description of Work	ame of anufacturer REER HYDRAULICS REPAIR CLASS 2 CH STABILIZER DUE TO	Manufacturer Serial No. GH1-10235 HEMICAL AND VOLUD NOISE IN SUCTIO	National Board No. 569 UME CONTROL IN STABILIZER.	Other ID 162-936	Built 1981 ARGING	Replaced, or Replacement REPAIRED PUMP 1B SUCTIO	Coc Stan	
Component Ma	ame of anufacturer REER HYDRAULICS REPAIR CLASS 2 CH STABILIZER DUE TO	Manufacturer Serial No. GH1-10235 HEMICAL AND VOLO NOISE IN SUCTIO	National Board No. 569 UME CONTROL IN STABILIZER.	Other ID 162-936 SYSTEM CH	Built 1981 ARGING	Replaced, or Replacement REPAIRED PUMP 1B SUCTIO	Co Star	

Date: 06/11/98

Name of Component: APSS-1B Work Request Number: 214036

Certificate of Co	ompliance	
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 repla	
Type Code Symbol Stamp NA		
	piration Date	NA
Signed Phillip C. Bukes Inspection (malys Owner or Owner's Designee, Title	<u></u> ⊅ Date	January 4 19 99
Certificate of INSERVIC	CE INSPEC	TION

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 cf 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 prop	perty damage or a	a loss of any kind arising from or connected with
this inspection.		
Inspector's Signature Date January 20 19 99	Commissions	NB7741, I, N, IS, A WIS 100024 National Board, State, Province, and Endorsements

As Required by the Provisions of the ASME Code Section Xi

	<u></u>						
700 North Adar	ms P.O. Box 19001 Green Ba	ay, WI 54307-9001		Sheet	1	of	2
2. Plant <u>Kewaun</u>	Plant Kewaunee Nuclear Power Plant				<u>lo. 1</u>		
N490 HWY 42	Kewaunee, WI 54216-9510			Work Re	equest Nu	ımber <u>214273</u>	
3. Work Performed By Wisconsin Public Service Corp.				Type Co	ode Symb	ol Stamp <u>NA</u>	
700 North Adams P.O. Box 19001 Green Bay, WI 54307-9001				Authoriz	ation No.	NA	
4. Identification of	System <u>35</u> Class 2 <u>C</u>	CHEMICAL AND VO	LUME CONTR	OL Expiration	on Date	_NA	-
5 (a) Annliceble	Construction Code <u>B31.1-19</u>	967	1	Code Ca	ase <u>NA</u>	•	
o. (a) Applicable							
	Edition of Section XI Utilized for	or Repairs or Repla	cements 198	9			
	Edition of Section XI Utilized fo	or Repairs or Repla	cements 198	<u>9</u>			
(b) Applicable	Edition of Section XI Utilized for Components Repaired or Rep			_			
(b) Applicable				_			
(b) Applicable				_	Year Bulit	Repaired, Replaced, or Replacement	ASMI Code Stamp
(b) Applicable 6. Identification of Name of	Components Repaired or Rep	Manufacturer Serial No.	ment Compone	nts Other		Replaced, or	Code
(b) Applicable 6. Identification of Name of Component	Components Repaired or Rep Name of Manufacturer GRINNELL FIRE PROTECTION SYSTEMS	Manufacturer Serial No.	ment Compone National Board No.	other	Bulit	Replaced, or Replacement	Code Stamp
(b) Applicable 6. Identification of Name of Component CVC-4B	Name of Manufacturer GRINNELL FIRE PROTECTION SYSTEMS CO.	Manufacturer Serial No.	Mational Board No.	Other ID CS033-006	Bullt 1973	Replaced, or Replacement REPAIRED	Code Stamp N
(b) Applicable 6. Identification of Name of Component	Name of Manufacturer GRINNELL FIRE PROTECTION SYSTEMS CO.	Manufacturer Serial No.	Mational Board No.	Other ID CS033-006	Bullt 1973	Replaced, or Replacement REPAIRED	Code Stamp N
(b) Applicable 6. Identification of Name of Component CVC-4B	Name of Manufacturer GRINNELL FIRE PROTECTION SYSTEMS CO.	Manufacturer Serial No.	Mational Board No.	Other ID CS033-006	Bullt 1973	Replaced, or Replacement REPAIRED	Code Stamp N

Date: 11/24/98

Name of Component: Work Request Number: 214273

Certificate of C	ompliance	
We certify that the statements made in the report are correct and this	repaired	conforms to the rules of the
ASME Code Section XI.	Topan of Topi	acomoni
Type Code Symbol Stamp NA		
· · · · · · · · · · · · · · · · · · ·	piration Date	NA
Signed Philip C Bukes I repetion analyst owner or Owner's Designee, Title	Date	January 4 , 19 99
		
Certificate of INSERVIC	TE INSDEC	TION

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 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, concorning 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.

Rom Mitimi	Compositorio	ND7744 N IS A 18/10 400004
toon I my un	Commissions	NB7741, I, N, IS, A WIS 100024
Inspector's Signature		National Board, State, Province, and Endorsements
Date 20 19 99	<u> </u>	

As Required by the Provisions of the ASME Code Section XI

1. Owner Wiscon	sin Public Service Corp.			Date 1	Date <u>12/15/98</u>		
700 North Adam	ns P.O. Box 19001 Green Ba	ay, WI 54307-9001		Sheet	Sheet1 of2		
2. Plant Kewaune	Plant Kewaunee Nuclear Power Plant			Unit <u>N</u>	Unit <u>No. 1</u>		
N490 HWY 42	N490 HWY 42 Kewaunee WI 54216-9510			Work Re	equest Nu	ımber <u>214412</u>	
3. Work Performed	Work Performed By <u>Wisconsin Public Service Corp.</u>				de Symb	ol Stamp <u>NA</u>	
700 North Adams P.O. Box 19001 Green Ba y, WI 54307-9001				Authoriz	ation No.	NA_	
4. Identification of	System <u>07</u> Class 2 <u>S</u>	TEAM GENERATO	R BLOWDOWN	NT Expiration	n Date	NA_	
5. (a) Applicable C	Construction Code <u>B31.1-199</u>	96		Code Ca	ıse <u>N41</u>	<u>6-1</u>	
		•		•			
(b) Applicable E	Edition of Section XI Utilized fo	or Repairs or Replac	cements 1989)			
(b) Applicable E	Edition of Section XI Utilized fo	or Repairs or Replac	cements 1989	9			
	Edition of Section XI Utilized fo Components Repaired or Repl			=			
				=	·		
				=	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped
6. Identification of 6	Components Repaired or Repl	laced and Replacer	ment Componer	nts Other		Replaced, or	Code
6. Identification of 6 Name of Component	Components Repaired or Repl Name of Manufacturer	laced and Replacer Manufacturer Serial No.	nent Componer National Board No.	Other ID	Built	Replaced, or Replacement	Code Stamped
6. Identification of 6 Name of Component	Components Repaired or Repl Name of Manufacturer	laced and Replacer Manufacturer Serial No.	nent Componer National Board No.	Other ID	Built	Replaced, or Replacement	Code Stamped
6. Identification of 6 Name of Component	Name of Manufacturer EDWARDS VALVES INC.	Manufacturer Serial No. NF	National Board No. NA	Other iD SD041-008	Built 1998	Replaced, or Replacement REPLACEMENT	Code Stamped N
6. Identification of 6 Name of Component BT-2A-1	Name of Manufacturer EDWARDS VALVES INC.	Manufacturer Serial No. NF	National Board No. NA	Other iD SD041-008	Built 1998	Replaced, or Replacement REPLACEMENT	Code Stamped N
6. Identification of 6 Name of Component BT-2A-1 7. Description of W	Name of Manufacturer EDWARDS VALVES INC.	Manufacturer Serial No. NF	National Board No. NA	Other ID SD041-008	Built 1998	Replaced, or Replacement REPLACEMENT	Code Stamped N
6. Identification of 6 Name of Component BT-2A-1	Name of Manufacturer EDWARDS VALVES INC. Fork INSTALL 3/4" BY PASS STEAM AND STEAM INSTALL 3/4" BY PASS STEAM BY PASS STEAM INSTALL 3/4" BY PASS STEAM INSTALL	Manufacturer Serial No. NF S CHECK VALVE E DUMP SYSTEM 2"	National Board No. NA ST-2A-1 AND 2" BLOWDOWN I	Other ID SD041-008	Built 1998 " PIPING	Replaced, or Replacement REPLACEMENT AROUND CLASS 2 2A. Exempt	Code Stamped N

Sheet 2 of 2

Date: 12/15/98

Name of Component: <u>BT-2A-1</u>
Work Request Number: 214412

Certificate of Co	ompliance	
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	,	
the state of the s	piration Date	NA
Signed Phillips: Bukes I negestion analyst Owner or Owner's Designee, Title	Date Januar	, 19 99
Certificate of INSERVIO	E INSPECTION	
I, the undersigned, holding a valid commission issued by the National E	Board of Boiler and Pres	ssure Vessel Inspectors and the
State or Province of Wisconsin and employed by Hartford Steam Boiler	r 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

As Required by the Provisions of the ASME Code Section XI

		D G D 40004 G =						
700 No	orth Adams	P.O. Box 19001 Green Ba	ay, WI 54307-9001	<u>l</u>	Sheet	1	of2	
2. Plant	Kewaunee M	Nuclear Power Plant			Unit <u>N</u>	lo. 1		
N490	HWY 42 Ke	waunee, WI 54216-9510			Work Re	equest Nu	umber <u>214414</u>	•
Work Performed By <u>Wisconsin Public Service Corp.</u>					Type Co	de Symb	ool Stamp <u>NA</u>	
700 No	orth Adams I	P.O. Box 19001 Green Ba	y, WI 54307-9001		Authoriz	ation No.	NA	
4. Identifi	cation of Sys	stem <u>07</u> Class 2 <u>S</u>	TEAM GENERATO	OR BLOWDOWN	NT Expiration	on Date	NA	
	plicable Con	struction Code B31.1-19	96		Code Ca	ase <u>N-4</u>	<u>16-1</u>	
(b) Ap	pplicable Edit	ion of Section XI Utilized fo			-			
(b) Ap 6. Identific	oplicable Edit			ement Componer	nts Other	Year Bulit	Repaired, Replaced, or Replacement	Co
(b) Ap	oplicable Edit	ion of Section XI Utilized for mponents Repaired or Rep	placed and Replace	ement Componer	nts	Year Bulit 1998		ASi Coo Stan

Date: 12/15/98

Name of Component: BT-2B-1 Work Request Number: 214414

Certificate of C	Compliance	
We certify that the statements made in the report are correct and this	s replaceme	nt conforms to the rules of the
ASME Code Section XI.	repair or rep	
Type Code Symbol Stamp NA		
	xpiration Date	NA
Signed Philip C Bukes Inspection analyomer or Owner's Designee, Title	ot Date	January 4 , 19 99

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 $\frac{7-1-97}{2}$ to $\frac{1-20-99}{2}$, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer

shall be liable in any manner for any personal injury or prop	erty damage or	a loss of any kind arising from or connected with
this inspection.		
Inspectors signature Date January 20 19 99	Commissions	NB7741, I, N, IS, A WIS 100024 National Board, State, Province, and Endorsements

As Required by the Provisions of the ASME Code Section XI

i. Owner <u>vviscor</u>	nsin Public Service Corp.			Date	11/28/98		
700 North Adar	ns P.O. Box 19001 Gree	n Bay, WI 54307-9001		Sheet	1	of2	
2. Plant <u>Kewaun</u>	ee Nuclear Power Plant			Unit <u>I</u>	<u>No. 1</u>		
N490 HWY 42	Kewaunee, WI 54216-95	510		Work R	equest Nu	mber <u>214573</u>	
3. Work Performed	d By Wisconsin Public S	ervice Corp.		Type C	ode Symb	ol Stamp <u>NA</u>	
700 North Adar	ns P.O. Box 19001 Green	Ba, WI 54307-9001		Authoria	zati o n No.	_NA_	
4. Identification of	System 35 Class 2	CHEMICAL AND VO	DLUME CONTRO	<u>OL</u> Expirati	on Date	_NA_	
5. (a) Applicable (Construction Code <u>ASM</u> I	E III CLASS C	•	Code C	ase <u>NA</u>		
(b) Applicable	Edition of Section XI Utilize	ed for Repairs or Repla	cements 1989	<u> </u>			
(b) Applicable	Edition of Section XI Utilize	ed for Repairs or Repla	cements 1989	2			
.,	Edition of Section XI Utilize Components Repaired or			-			
.,				-			
6. Identification of				-	Year Built	Repaired, Repiaced, or Repiacement	ASME Code Stampe
6. Identificetion of Name of Component	Components Repaired or	Replaced and Replace Manufacturer	ment Componer	other		Repiaced, or	Code
6. Identificetion of Name of Component	Components Repaired or Name of Manufacturer	Replaced and Replace Manufacturer Serial No.	ment Componer National Board No.	Other ID	Buiit	Repiaced, or Repiacement	Code Stampe
6. Identificetion of Name of Component	Components Repaired or Name of Manufacturer	Replaced and Replace Manufacturer Serial No.	ment Componer National Board No.	Other ID	Buiit	Repiaced, or Repiacement	Code Stampe
6. Identification of Name of Component	Components Repaired or Name of Manufacturer ATLAS	Manufacturer Serial No. 1206	National Board No. 1031	Other iD 00060	Built 1970	Replaced, or Replacement REPLACEMENT	Code Stampe Y
6. Identification of Name of Component AHLD (CLASS 2)	Components Repaired or Name of Manufacturer ATLAS	Replaced and Replace Manufacturer Serial No.	National Board No. 1031	Other iD 00060	Built 1970	Replaced, or Replacement REPLACEMENT	Code Stampe Y
6. Identification of Name of Component AHLD (CLASS 2)	Components Repaired or Name of Manufacturer ATLAS	Manufacturer Serial No. 1206	National Board No. 1031	Other iD 00060	Built 1970	Replaced, or Replacement REPLACEMENT	Code Stampe Y
6. Identification of Name of Component AHLD (CLASS 2) 7. Description of V	Name of Manufacturer ATLAS Vork OPEN CLASS 2 CTUBE BUNDLE/TUBE	Manufacturer Serial No. 1206	National Board No. 1031	Other iD 00060	Built 1970 DOWN HE	Replaced, or Replacement REPLACEMENT	Code Stampe Y
6. Identification of Name of Component AHLD (CLASS 2) 7. Description of V	Name of Manufacturer ATLAS Vork OPEN CLASS 2 CTUBE BUNDLE/TUBE	Manufacturer Serial No. 1206 HEMICAL AND VOLUI	National Board No. 1031	Other iD 00060	Built 1970 DOWN HE	Replaced, or Replacement REPLACEMENT EAT EXCHANGER TO Exempt	Code Stampe Y
6. Identification of Name of Component AHLD (CLASS 2) 7. Description of V 3. Tests Conducted	Components Repaired or Name of Manufacturer ATLAS Vork OPEN CLASS 2 C. TUBE BUNDLE/TUBE	Manufacturer Serial No. 1206 HEMICAL AND VOLUI JBSHEET ASSEMBLY	National Board No. 1031	Other iD 00060	Built 1970 DOWN HE	Replaced, or Replacement REPLACEMENT EAT EXCHANGER TO Exempt	Code Stampe Y

Sheet 2 of 2

Certificate of Compliance

Date: <u>11/28/98</u>

Name of Component: AHLD (CLASS 2)

Work Request Number: 214573

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 Ex	piration Date	NA
Signed <u>Phillips C. Bukeo Inspection Analysis</u> 6wner or Owner's Designee, Title	Date Janua	My 4 19 99
Certificate of INSERVI	CE INSPECTION	
I, the undersigned, holding a valid commission issued by the National	Board of Boiler and Pres	sure Vessel Inspectors and the
State or Province of Wisconsin and employed by Hartford Steam Boile	r 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 a	nd taken corrective meas	sures described in this Owner's
Report in accordance with the requirements of the ASME Code, Section	on XI.	
By signing this certificate neither the Inspector nor his employer ma	kes any warranty, expres	sed or implied, concorning the
examinations and corrective measures described in this Owner's Repo	ort. Furthermore, neither	the Inspector nor his employer
shall be liable in any manner for any personal Injury or property damage	e or a loss of any kind a	rising from or connected with
this inspection.		
Commiss Olinspector's Signature Date Samuel 20 19 99		A WIS 100024 late, Province, and Endorsements

As Required by the Provisions of the ASME Code Section XI

Name of Manufacturer National Other Year Replaced, or Code Component Manufacturer Serial No. Board No. iD Built Replacement Stam CS-6A CRANE VALVE COMPAN NF NA ICS006-002 1970 REPAIRED N CS-6A CRANE VALVE COMPAN NF		700 North Adores B.O. Berr 40004, Ocean Bay, Mil. 54007,0004						
N490 HWY 42 Kewaunee, WI 54216-9510 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 Lidentification of System 23 Class 2 CONTAINMENT SPRAY Expiration Date NA (b) Applicable Construction Code B16.5-1967 Code Case NA Lidentification of Components Repaired or Replaced and Replacement Components Alame of Name of Manufacturer National Other Year Replaced, or Replaced Na Component Manufacturer Serial No. Board No. ID Built Replacement Stam CS-6A CRANE VALVE COMPAN NF NA ICS006-002 1970 REPAIRED N	700 North Adams P.O. Box 19001 Green Bay, WI 54307-9001					1	of	2
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 Light Identification of System 23 Class 2 CONTAINMENT SPRAY Expiration Date NA Code Case NA (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989 Light Identification of Components Repaired or Replaced and Replacement Components Manufacturer National Other Year Replaced, or Replaced, or Code Component Name of Manufacturer Serial No. Board No. ID Built Replacement Stam CS-6A CRANE VALVE COMPAN NF NA ICS006-002 1970 REPAIRED N	Plant Kewaunee Nuclear Power Plant				Unit N	Unit No. 1		
700 North Adams P.O. Box 19001 Green Bay, WI 54307-9001 Authorization No. NA Light Identification of System 23 Class 2 CONTAINMENT SPRAY Expiration Date NA Code Case NA (b) Applicable Construction Code B16.5-1967 Code Case NA (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989 Components Repaired or Replaced and Replacement Components Assume of Name of Manufacturer National Other Year Replaced, or Replaced, or Code Component Manufacturer Serial No. Board No. ID Built Replacement Stam CS-6A CRANE VALVE COMPAN NF NA ICS006-002 1970 REPAIRED N CD Description of Work DISASSEMBLE, INSPECT AND REPAIR CLASS 2 INTERNAL CONTAINMENT SPRAY SYSTEM 6" VALVE	N490 HWY 42 Kewaunee, WI 54216-9510				Work Re	quest Nu	ımber <u>214641</u>	
I. 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 5. Identification of Components Repaired or Replaced and Replacement Components Alame of Name of Manufacturer National Other Year Replaced, or Code Component National Other Year Replaced, or Code Component National Other Year Replaced, or Code Component National Other Year Replaced, or Replacement Stam CS-6A CRANE VALVE COMPAN NF NA ICS006-002 1970 REPAIRED N CD-6COMPAN NF NA ICS006-002 1970 REPAIRED N CD-6COMPAN NF NA ICS006-002 1970 REPAIRED N	3. Work Performed	By Wisconsin Public Service	e Corp.		Type Co	de Symb	ol Stamp <u>NA</u>	
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989 5. Identification of Components Repaired or Replaced and Replacement Components Same of Name of Manufacturer National Other Year Replaced, or Cod Component Manufacturer Serial No. Board No. iD Built Replacement Stam CS-6A CRANE VALVE COMPAN NF NA ICS006-002 1970 REPAIRED N CD Description of Work DISASSEMBLE, INSPECT AND REPAIR CLASS 2 INTERNAL CONTAINMENT SPRAY SYSTEM 6" VALVE	700 North Adams	P.O. Box 19001 Green Bay	, WI 54307-9001		Authoriz	ation No.	<u>NA</u>	
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989 5. Identification of Components Repaired or Replaced and Replacement Components Ask Component Compo	4. Identification of S	ystem <u>23</u> Class 2 <u>CC</u>	ONTAINMENT SP	RAY	Expiratio	n Date	NA_	
i. Identification of Components Repaired or Replaced and Replacement Components Name of Name of Manufacturer National Other Year Replaced, or Cod Component Manufacturer Serial No. Board No. iD Built Replacement Stam CS-6A CRANE VALVE COMPAN NF NA ICS006-002 1970 REPAIRED N CS-6A DISASSEMBLE, INSPECT AND REPAIR CLASS 2 INTERNAL CONTAINMENT SPRAY SYSTEM 6" VALVE	4	anatrustian Cada - P16 E 106	\$ 7	•	Code Ca	ise <u>NA</u>		
7. Description of Work DISASSEMBLE, INSPECT AND REPAIR CLASS 2 INTERNAL CONTAINMENT SPRAY SYSTEM 6" VALVE	(b) Applicable E	dition of Section XI Utilized fo	r Repairs or Repla	•	_			
	(b) Applicable E	dition of Section XI Utilized fo components Repaired or Repl Name of	r Repairs or Replace and Replace	ement Compone	nts Other		Replaced, or	ASME Code Stampe
	(b) Applicable Ed	dition of Section XI Utilized fo	r Repairs or Repla	ement Compone	nts	Year		
	(b) Applicable Ed. 3. Identification of Control Name of Component CS-6A	dition of Section XI Utilized for Replacements Repaired or Replacements Name of Manufacturer CRANE VALVE COMPAN	r Repairs or Replace aced and Replace Manufacturer Serial No.	National Board No.	Other ID ICS006-002	1970	Replaced, or Replacement REPAIRED	Code Stamp N
Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure X Exempt	(b) Applicable Ed 6. Identification of C Name of Component	Name of Manufacturer CRANE VALVE COMPAN DISASSEMBLE, INSPE	Manufacturer Serial No.	National Board No. NA	Other iD ICS006-002	Built 1970	Replaced, or Replacement REPAIRED	Code Stamp

Sheet 2 of 2

Date: 11/23/98

Name of Component: ICS-6A

Work Request Number: 214641

	Certificate of Co	ompliance	
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 Ex	piration Date	NA
Signed Philip C. Bukus Owner or Owner's De	Plant I merryce Inapaction makyst signee, Title	Date Janu	any 4 , 19 99

Certificate of INSERVICE INSPECTION

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, cencerning 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.

Commissions NB7741, I, N, IS, A WIS 100024
Inspector's Signature

Ate Danis 30 19 99

As Required by the Provisions of the ASME Code Section XI

1. Owner Wisco	onsin Public Service Corp.			Date 1	1/23/98		
700 North Ada	ıms P.O. Box 19001 Green	n Bay, WI 54307-9001		Sheet	1	of	2
2. Plant <u>Kewaur</u>	nee Nuclear Power Plant			Unit <u>N</u>	<u>o. 1</u>		
N490 HWY 42 Kewaunee Wi 54216-9510				Work Re	quest N u	mber <u>214642</u>	
Work Performed By <u>Wisconsin Public Service Corp.</u>				Type Co	de Symb	oi Stamp <u>NA</u>	
700 North Ada	ms P.O. Box 19001 Green	Bay, WI 54307-9001		Authoriz	ation No.	NA	
4. Identification o	of System 23 Class 2	CONTAINMENT SP	RAY	Expiration	n Date	NA_	
5. (a) Applicable	Construction Code <u>B16.5</u>	5-196 <u>7</u>		Code Ca	se <u>NA</u>		
(b) Applicable	Edition of Section XI Utilize	ed for Repairs or Repla	cements 198	<u>9</u>			
				-			
	f Components Repaired or F			nts			
				nts			
				Other ID	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped
6. Identification o	f Components Repaired or F	Replaced and Replace Manufacturer Serial No.	ment Compone	Other		Replaced, or	Code
6. Identification o Name of Component ICS-5A	f Components Repaired or F Name of Manufacturer	Replaced and Replace Manufacturer Serial No.	ment Compone National Board No.	Other iD	Bulit	Replaced, or Replacement	Code Stamped
6. Identification o Name of Component ICS-5A	f Components Repaired or F Name of Manufacturer CRANE VALVE COMP	Manufacturer Serial No.	National Board No.	Other ID ICS006-001	Built 1970	Replaced, or Replacement REPAIRED	Code Stamped N
6. Identification o Name of Component ICS-5A	f Components Repaired or F Name of Manufacturer CRANE VALVE COMP	Replaced and Replace Manufacturer Serial No.	National Board No.	Other ID ICS006-001	Built 1970	Replaced, or Replacement REPAIRED	Code Stamped N
6. Identification o Name of Component ICS-5A	f Components Repaired or F Name of Manufacturer CRANE VALVE COMP	Manufacturer Serial No.	National Board No.	Other ID ICS006-001	Built 1970	Replaced, or Replacement REPAIRED	Code Stamped N
6. Identification o Name of Component ICS-5A 7. Description of	Name of Manufacturer CRANE VALVE COMP. Work DISASSEMBLE, IN	Manufacturer Serial No.	National Board No.	Other iD ICS006-001	Built 1970	Replaced, or Replacement REPAIRED	Code Stamped N
6. Identification o Name of Component ICS-5A 7. Description of	Name of Manufacturer CRANE VALVE COMP. Work DISASSEMBLE, IN	Manufacturer Serial No. AN NF NSPECT AND REPAIR	National Board No. NA	Other iD ICS006-001	Built 1970	Replaced, or Replacement REPAIRED SPRAY SYSTEM Exempt	Code Stamped N
6. Identification of Name of Component ICS-5A 7. Description of Name of Name of Component ICS-5A	Name of Manufacturer CRANE VALVE COMPA	Manufacturer Serial No. AN NF NSPECT AND REPAIR Pneumatic	National Board No. NA	Other iD ICS006-001 ERNAL CONTA	Built 1970 AINMENT	Replaced, or Replacement REPAIRED SPRAY SYSTEM Exempt	Code Stamped N

Sheet 2 of 2

Date: 11/23/98

Name of Component: <u>ICS-5A</u>
Work Request Number: <u>214642</u>

Certificate of Co	ompliance	
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		
	piration Date	NA
Signed Phillip C. Bukes Flont Inserver analysis owner or Owner's Designee, Title	Date Jones	my 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, cencerning 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.

this hispection.	•	
•		
Loga Motion	Commissions	NB7741, I, N, IS, A WIS 100024
Inspector's Signature	_	National Board, State, Province, and Endorsements
Date		

As Required by the Provisions of the ASME Code Section XI

700 No.					_			
	rth Adams P.	O. Box 19001 Green Ba	, WI 54307-9001		Sheet	1	of ·:	2
2. Plant <u>I</u>	Kewaunee Nu	clear Power Plant			Unit <u>N</u>	<u>o. 1</u>		
N490 F	HWY 42 Kewa	aunee, Wi 54216-9510			Work Re	equest Nu	ımber <u>215134</u>	
3. Work Po	erformed By	Wisconsin Public Service	e Corp.		Type Co	de Symb	ol Stamp <u>NA</u>	
700 No	rth Adams P.0	D. Box 19001 Green Bay	, WI 54307-9001	÷	Authoriz	ation N o.	NA_	
4. Identific	ation of Syste	m <u>35</u> Class 2 <u>Cl</u>	HEMICAL AND VO	LUME CONTR	OL Expiration	on Date	NA_	
5. (a) App	olicable Const	ruction Code B31.1-196	<u> </u>		Code Ca	se <u>NA</u>		
/L\ A	dicable Felili-	n of Section XI Utilized fo	u Banaise es Basis	cements 1989	•			
\-/ · \P				100.	-			
8. Identific	etion of Comp	onents Repaired or Repl	laced and Replace	ment Componei	nts			
8. Identific	etion of Comp	ponents Repaired or Repl	laced and Replace	ment Compone	nts			
						Vear	Repaired,	ASM
8. Identific Name of Componer	Na	onents Repaired or Repl me of inufacturer	laced and Repiace Manufacturer Seriai No.	Mational Board No.	Other ID	Year Buiit	Repaired, Replaced, or Replacement	ASM Code Stam
Name of	Na nt Ma	me of nufacturer RINNELL FIRE ROTECTION SYSTEMS	Manufacturer	National	Other		Replaced, or	Code
Name of Componer	Na nt Ma GF PR	me of nufacturer RINNELL FIRE ROTECTION SYSTEMS	Manufacturer Serial No.	National Board No.	Other ID	Built	Replaced, or Replacement	Code Stamp
Name of Componer CVC-4A	Na nt Ma GF PR	me of inufacturer RINNELL FIRE ROTECTION SYSTEMS	Manufacturer Seriai No. NF	National Board No. NA	Other ID CS033-007	Built 1973	Replaced, or Replacement REPAIRED	Cod Stam
Name of Componer CVC-4A	nt Ma GF PR CC	me of nufacturer RINNELL FIRE ROTECTION SYSTEMS	Manufacturer Seriai No. NF	National Board No. NA	Other ID CS033-007	Built 1973	Replaced, or Replacement REPAIRED	Cod Stam N
Name of Componer CVC-4A	nt Ma GF PR CC	me of inufacturer RINNELL FIRE ROTECTION SYSTEMS	Manufacturer Seriai No. NF	National Board No. NA	Other ID CS033-007	Built 1973	Replaced, or Replacement REPAIRED	Cod Stam N
Name of Componer CVC-4A	nt Ma GF PR CC tion of Work	me of inufacturer RINNELL FIRE ROTECTION SYSTEMS). INSPECT AND REPAIR	Manufacturer Seriai No. NF	National Board No. NA	Other ID CS033-007 UME CONTRO	Built 1973	Replaced, or Replacement REPAIRED	Cod Stam

Date: 11/18/98

Name of Component: CVC-4A Work Request Number: 215134

Certificate of Co	ompliance	
We certify that the statements made in the report are cerrect and this	repaired	conforms to the rules of the
ASME Code Section XI.	repair or replacement	
Type Code Symbol Stamp NA		
	piration Date	NA
Signed Philip C. Buken Flant I noenuce Owner or Owner's Designee, Title	Date Janua	<u>ing Y</u> , 19 <u>99</u>

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 $\frac{7-1-97}{}$ to $\frac{1-26-99}{}$ and state that to the best of my knowledge and belief, the Owner has performed examinations and taken cerrective 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 prothis inspection.	perty damage or	a loss of any kind arising from or connected with
Inspectors signature Date January 30 19 99	Commissions	NB7741 N IS A WIS 100024 National Board, State, Province, and Endorsements

As Required by the Provisions of the ASME Code Section XI

•	. Owner <u>Wisconsir</u>	n Public Service Corp.			Date 1	12/17/98		
	700 North Adams	P.O. Box 19001 Green	Bay WI 54307-9001		Sheet	1	of	2
2	. Plant <u>Kewaunee</u>	Nuclear Power Plant			Unit <u>I</u>	No. 1		
	N490 HWY 42 K	ewaunee ,WI 54216-951	10		Work R	equest Nu	ımber <u>215246</u>	
3	. Work Performed B	By Wisconsin Public Ser	rvice Corp.		Type C	ode Symb	ol Stamp <u>NA</u>	
	700 North Adams	P.O. Box 19001 Green I	Bay, Wi 54307-9001		Authori	zation No.	_NA_	
4	. identification of Sy	rstem 35 Class 2	CHEMICAL AND VO	DLUME CONTRO	<u>OL</u> Expirat	ion Date	<u>NA</u>	
5	. (a) Applicable Cor	nstruction Code ASME	III CLASS C		Code C	ase <u>NA</u>		
	(b) Applicable Edi	ition of Section XI Utilized	d for Repairs or Repla	cements 1989	<u>)</u>			
6	. Identification of Co	omponents Repaired or R	Replaced and Replace	ment Componer	nts			
٠		•						
_								
	ame of omponent	Name of Manufacturer	Manufacturer Seriai No.	Nationai Board No.	Other ID	Year Buiit	Repaired, Replaced, or Replacement	ASME Code Stamped
NO	omponent						Replaced, or	Code

Sheet 2 of 2

Date: 12/17/98

Name of Component: AHLD (CLASS 2)

Work Request Number: 215246

ASME Code Section XI. Type Code Symbol Stamp NA	conforms to the rules of the
Signed Plant I nature Signed Plant I nature Trapettary (Indiget) Certificate of INSERVICE INSPECTION I, the undersigned, holding a valid commission issued by the National Board of Boiler and Press State or Province of Wisconsin and employed by Hartford Steam Boiler Inspection and Ins. Co. the components described in this Owner's Report during the period 7-1-97 to 1-20 of my knowledge and belief, the Owner has performed examinations and taken corrective meas 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, express	
Signed Philips Burks Traperton (Instruct Owner's Designee, Title) Certificate of INSERVICE INSPECTION I, the undersigned, holding a valid commission issued by the National Board of Boiler and Press State or Province of Wisconsin and employed by Hartford Steam Boiler Inspection and Ins. Co. the components described in this Owner's Report during the period 7-1-97 to 1-20 of my knowledge and belief, the Owner has performed examinations and taken corrective meas 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, express	
Certificate of INSERVICE INSPECTION I, the undersigned, holding a valid commission issued by the National Board of Boiler and Press State or Province of Wisconsin and employed by Hartford Steam Boiler Inspection and Ins. Co. the components described in this Owner's Report during the period 7-/-97 to /-20 of my knowledge and belief, the Owner has performed examinations and taken corrective meas 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, express	NA
t, the undersigned, holding a valid commission issued by the National Board of Boiler and Press State or Province of Wisconsin and employed by Hartford Steam Boiler Inspection and Ins. Co. the components described in this Owner's Report during the period 7-1-97 to 1-20 of my knowledge and belief, the Owner has performed examinations and taken corrective meas 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, express	4 19 <u>99</u>
t, the undersigned, holding a valid commission issued by the National Board of Boiler and Press State or Province of Wisconsin and employed by Hartford Steam Boiler Inspection and Ins. Co. the components described in this Owner's Report during the period 7-1-97 to 1-20 of my knowledge and belief, the Owner has performed examinations and taken corrective meas 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, express	
State or Province of Wisconsin and employed by Hartford Steam Boiler Inspection and Ins. Co. the components described in this Owner's Report during the period 7-1-91 to 1-20 of my knowledge and belief, the Owner has performed examinations and taken corrective meas 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, express	
the components described in this Owner's Report during the period 7-1-97 to 1-20 of my knowledge and belief, the Owner has performed examinations and taken corrective meas 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, express	
of my knowledge and belief, the Owner has performed examinations and taken corrective meas 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, express	•
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, express	
By signing this certificate neither the Inspector nor his employer makes any warranty, express	ures described in this Owners
examinations and corrective measures described in this Owner's Report. Furthermore, neither	•
	•
shall be liable in any manner for any personal injury or property damage or a loss of any kind ar	sing from or connected with
this inspection.	
Commissions NB7741, I, N, IS, A Inspector's Signature Commissions NB7741, I, N, IS, A National Board, Sta	

As Required by the Provisions of the ASME Code Section XI

	sin Public Service Corp.	•			11/11/98		
700 North Adam	ns P.O. Box 19001 Gre	en Bay, WI 54307-9001	_	Sheet	1	of	2
2. Plant Kewaune	e Nuclear Power Plant			Unit	<u>No. 1</u>		
N490 HWY 42	Kewaunee, WI 54216-9	<u>9510</u>		Work F	Request Nu	umber <u>215262</u>	
3. Work Performed	By Wisconsin Public	Service Corp.		Туре С	ode Symb	ool Stamp <u>NA</u>	
700 North Adam	ns P.O. Box 19001 Gree	en Bay, Wi 54307-9001		Author	ization N o.	NA_	
4. Identification of \$	System <u>05B</u> Class 2	AUXILIARY FEEDW	/ATER	Expirat	ion Date	NA	
5. (a) Applicable C	Construction Code <u>B31</u>	· I <u>.1-1967</u>		Code (Case <u>NA</u>		=
(h) Annlicable F	dition of Section XI Litili	zed for Repairs or Repla	acements 1989	1	_		
(b) Applicable L		zou ioi riopano oi riopie	100min 100m	2			
6. Identification of (Components Repaired o	r Replaced and Replace	ment Componer	nts			
Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other iD	Year Bulit	Repaired, Repiaced, or Replacement	ASMI Code Stamp
						Replaced, or	Code
Component	Manufacturer	Serial No.	Board No.	iD	Bulit	Replaced, or Replacement	Code Stamp
Component	Manufacturer	Serial No.	Board No.	iD	Bulit	Replaced, or Replacement	Code Stamp
Component	Manufacturer UNKNOWN	Serial No.	Board No.	ID NA	Built 1967	Replaced, or Replacement REPAIRED	Code Stamp
Component FDW-H56	Manufacturer UNKNOWN	Seriai No.	Board No.	ID NA	Built 1967	Replaced, or Replacement REPAIRED	Code Stamp
Component FDW-H56	Manufacturer UNKNOWN ork REPAIR CLASS	Seriai No.	Board No.	ID NA " HANGER F	Built 1967	Replaced, or Replacement REPAIRED	Code Stamp
Component FDW-H56 7. Description of W	Manufacturer UNKNOWN ork REPAIR CLASS	Seriai No. NA 2 AUXILAIRY FEEDWA	Board No. NA TER SYSTEM 3 Nominal Operat	ID NA " HANGER F	Built 1967	Replaced, or Replacement REPAIRED DUE TO 4 LOOSE N Exempt X	Code Stamp

Sheet 2 of 2

Date: 11/11/98

Name of Component: FDW-H56

Work Request Number: 215262

Certificate of Co	ompliance	
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 Ccde Symbol Stamp NA		
Certificate of Authorization No. NA Ex	piration Date	NA
Signed Phillip C Bukes Inspection and Gwner or Owner's Designee, Title	pot Date Janu	any 4 . 19 99
Certificate of INSERVIC	CE INSPECTION	
I, the undersigned, holding a valid commission issued by the National I		ssure Vessel inspectors and the
State or Province of Wisconsin and employed by Hartford Steam Boile	r Inspection and Ins. Co	o. 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 at	nd taken corrective mea	asures described in this Owner's
Report in accordance with the requirements of the ASME Code, Section	n XI.	
By signing this cortificate neither the Inspector nor his employer make	es any warranty, expre	ssed or implied, concerning the
examinations and corrective measures described in this Owner's Repo	rt. Furthermore, neithe	r the Inspector nor his employer
shall be liable in any manner for any personal injury or property damag		•
this inspection.	•	•
Roga Morner Commissi	***************************************	
Date Armson 30 19 97	National Board, S	State, Province, and Endorsements

As Required by the Provisions of the ASME Code Section Xi

0111.01 111.00011	sin Public Service Corp.			·	11/11/98		
700 North Adam	s P.O. Box 19001 Green Ba	ay, WI 54307-9001	_	Sheet	1	of	2
2. Plant <u>Kewaune</u>	e Nuclear Power Plant			Unit	<u>No. 1</u>		
N490 HWY 42	Kewaunee, WI 54216-9510			Work I	Request Nu	umber <u>215319</u>	
3. Work Performed	By Wisconsin Public Service	ce Corp.		Туре С	Code Symb	ool Stamp <u>NA</u>	
700 North Adam	s P.O. Box 19001 Green Bay	y, Wi 54307-9001		Author	ization No.	NA	
4. Identification of	System <u>05B</u> Class 2 <u>A</u>	UXILIARY FEEDW	ATER	Expira	tion Date	NA	
E (a) Ammlianti- C	onstruction Code <u>B31.1-19</u>	<u> 167</u>		Code (Case NA		
(b) Applicable E	dition of Section XI Utilized fo			-			
(b) Applicable E 6. Identification of C Name of	7			-	Year Built	Repaired, Repiaced, or Repiacement	AS Coo
(b) Applicable E	Components Repaired or Rep	Manufacturer Serial No.	ment Componer	Other	Year Built 1967		Co Star
(b) Applicable E 6. Identification of C Name of Component	Components Repaired or Rep Name of Manufacturer ITT GRINNEL COMPANY	Manufacturer Serial No.	National Board No.	Other ID NA	Built 1967	Replaced, or Replacement REPAIRED	Co Stan
(b) Applicable E 6. Identification of C Name of Component FDW-H66	Name of Manufacturer ITT GRINNEL COMPANY ork REPAIR CLASS 2 AUX	Manufacturer Serial No.	National Board No.	Other ID NA " HANGER F	Built 1967 FDW-H66 D	Replaced, or Replacement REPAIRED	Co Stan

Sheet 2 of 2

Date: 11/11/98

Name of Component: <u>FDW-H66</u>
Work Request Number: <u>215319</u>

We certify that the statements made in the conert are correct and this	
We certify that the statements made in the report are correct and this conform	ns to the rules of the
ASME Code Section XI.	
Type Code Symbol Stamp NA	
Certificate of Authorization No. NA Expiration Date NA	
Signed Phillips C. Bukes Inspection analyst Date January Owner or Owner's Designee, Title	<u>4</u> , 19 <u>99</u>

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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shall be liable in any manner for any personal injury or property damage	ge or a loss of any kind ansing from or connected with
this inspection.	
Commiss Commiss	ions NB7741, I, N, IS, A WIS 100024 National Board, State, Province, and Endorsements
Date 30 19 99	

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

i. Owner <u>vvisco</u>	onsin Public Service Corp.				11/11/98		
700 North Ada	ams P.O. Box 19001 Green B	Bay, WI 54307-9001	<u>l</u>	Sheet	1	of	2 .
2. Plant <u>Kewau</u>	nee Nuclear Power Plant			Unit	<u>No. 1</u>		
N490 HWY 4	2 Kewaunee, WI 54216-9510	1		Work F	Request No	umber <u>215319</u>	
3. Work Performe	ed By Wisconsin Public Serv	rice Corp.		Туре С	ode Symb	ool Stamp NA	
700 North Ada	ams P.O. Box 19001 Green Ba	ay, WI 54307-9001		Author	ization No.	NA_	
4. Identification of	of System <u>05B</u> Class 2	AUXILIARY FEEDW	ATER	Expirat	tion Date	NA	
5. (a) Applicable	Construction Code <u>B31.1-1</u>	<u>967</u>		Code (Case <u>NA</u>		
	Edition of Section XI Utilized of Components Repaired or Re			•			
	Edition of Section XI Utilized of Components Repaired or Re Name of Manufacturer		ement Componen	•	Year Built	Repaired, Replaced, or Replacement	ASM Code Stamp
6. Identification o	of Components Repaired or Re	placed and Replace Manufacturer Serial No.	ement Componen	Other			C
6. Identification of Name of Component	Name of Manufacturer ITT GRINNEL COMPANY	Manufacturer Serial No.	National Board No.	Other ID NA	Bullt 1967	Replaced, or Replacement REPAIRED	Coc Stam
6. Identification of Name of Component	Name of Manufacturer ITT GRINNEL COMPANY Work REPAIR CLASS 2 AL	Manufacturer Serial No.	National Board No.	Other ID NA	Built 1967	Replaced, or Replacement REPAIRED	Cod Stam N
Name of Component FDW-H67 7. Description of	Name of Manufacturer ITT GRINNEL COMPANY Work REPAIR CLASS 2 AL	Manufacturer Serial No.	National Board No. NA TER SYSTEM 3'	Other ID NA	Built 1967	Replaced, or Replacement REPAIRED DUE TO 3 LOOSE N Exempt X	Cod Stam N

Date: 11/11/98

Name of Component: FDW-H67 Work Request Number: 215319

Certificate of	of Compliance		
We certify that the statements made in the report are correct and	this <u>repaired</u>	conforms to the	ules of the
ASME Code Section XI.	repair or replacem	ent	
Type Code Symbol Stamp NA			
Certificate of Authorization No. NA	Expiration Date	· NA	
Signed Phillip C. Burkes Inspection and Country Designee, Fitle	elyst Date	muany 4.	19 99
Owner or Owner's Designee, Title	•	4	

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 $\frac{7-1-97}{2}$ to $\frac{1-36-99}{2}$, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his er	nployer makes a	ny warranty, expressed or implied, concerning the
examinations and corrective measures described in this Ov	wner's Report. Fr	urthermore, neither the Inspector nor his employer
shall be liable in any manner for any personal injury or prop	perty damage or a	a loss of any kind arising from or connected with
this inspection.	•	
Inspectors signature Date January 20 19 99	Commissions	NB7741, I, N, IS, A WIS 100024 National Board, State, Province, and Endorsements

As Required by the Provisions of the ASME Code Section XI

Name of Component SG-1A (CLASS 1		1141	68-28 1 REACTOR CO	00035	1968 STEM STE	REPAIRED	<u>A</u>
Component	WESTINGHOUSE	1141	68-28	00035	1968	REPAIRED	`
	Name of Manufacturer	Manufacturer Serial No.	Nationai Board No.	Other ID	Year Built	Repaired, Replaced, or Replacement	ASI Cod Stam
6. Identification of	f Components Repaired or I	Replaced and Replace	ment Componer	nts			
(b) Applicable	Edition of Section XI Utilize	ed for Repairs or Repla	cements 1989	9			
5. (a) Applicable	Construction Code ASMI	E III CL. A-1966		Code C	ase <u>NA</u>		
4. Identification of	f System 38 Class 1	REACTOR COOLAR	<u>NT</u>	Expirat	ion Date	NA_	
700 North Ada	ıms P.O. Box 19001 Green	Bay, WI 54307-9001		Authori	ization No.	NA	
3. Work Perform	ed By Wisconsin Public Se	ervice Corp.	,	Type C	ode Symb	ool Stamp <u>NA</u>	
N490 HWY 4	2 Kewaunee, WI 54216-95	<u>10</u>		Work F	Request No	ımber <u>215326</u>	
2. Plant <u>Kewau</u>	nee Nuclear Power Plant			Unit	<u>No. 1</u>		
		n Bay, WI 54307-9001		Sheet	1	of2	2

Sheet 2 of 2

Date: 11/11/98

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

Work Request Number: 215326

npliance	
repaired	conforms to the rules of the
epair or replacement	
ation Date	NA
t Date Janu	any 4 , 19 99
INSPECTION	
	repaired epair or replacement ration Date Date

As Required by the Provisions of the ASME Code Section XI

1: \	VIIII <u>VVISCOIIS</u>	in Public Service Corp.						
3	700 North Adams	s P.O. Box 19001 Green E	Bay, WI 54307-9001	<u>l</u>	Sheet	1	of	2
2. F	Plant <u>Kewaunee</u>	Nuclear Power Plant			Unit	<u>No. 1</u>		
<u>!</u>	N490 HWY 42 I	Kewaunee, Wi 54216-9510	<u>o</u>		Work F	Request Nu	umber <u>215393</u>	
3. V	Work Performed	By Wisconsin Public Serv	vice Corp.		Туре С	Code Symb	ool Stamp NA	
7	700 North Adams	ms P.O. Box 19001 Green Bay, WI 54307-9001			Author	ization No.	NA_	
4. le	dentification of S	ystem 36 Class 1	REACTOR COOLAR	<u>NT</u>	Expirat	tion Date	NA_	
5. (i	a) Applicable Co	onstruction Code <u>B31.1-1</u>	1967		Code (Case <u>NA</u>		
,	. , , ,	dition of Section XI Utilized			-			
6. ld	dentification of C	omponents Repaired or Re	eplaced and Replace	ment Componer	nts .	Voor	Repaired,	AS
6. lo	. , , ,				-	Year Built	Repaired, Repiaced, or Replacement	AS Co Stan
6. k	dentification of C ne of nponent	omponents Repaired or Re	eplaced and Replace	ment Componer	Other		Replaced, or	Co
Nam Con	dentification of C ne of nponent	Name of Manufacturer ITT GRINNELL VALVE COMPANY	Manufacturer Serial No. NA PRING SUPPORT R	National Board No.	Other ID NA	Built 1967	Replaced, or Replacement REPAIRED	Co Stan
Nam Con	dentification of Connection of	Name of Manufacturer ITT GRINNELL VALVE COMPANY ORK REPAIR HANGER-SI TIGHTENING LOOSE	Manufacturer Serial No. NA PRING SUPPORT R	National Board No.	Other ID NA	Built 1967	Replaced, or Replacement REPAIRED	Co Stan

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 a	nd this repaired	conforms to the rules of the
ASME Code Section XI.	repair or replaceme	nt
Type Code-Symbol Stamp NA	·	
Certificate of Authorization No. NA	Expiration Date	NA
Signed Philip C. Bukes Ingretion & Owner or Owner's Designee, Title	nalyst Date Jan	wang 4 , 19 99
Owner of Owner's Designee, Title	V V	

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

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

700 North Adams	P.O. Box 19001 Green E	3a v.Wi 54307-9001		Sheet	1	· of 2	2
		3a y, 441 04007-3001	- .	Sileet		Or	<u>2</u>
2. Plant <u>Kewaunee N</u>	uclear Power Plant			Unit <u>N</u>	<u>o. 1</u>		
N490 HWY 42 Ke	waunee WI 54216-9510)		Work Re	equest Nu	ımber <u>215447</u>	
3. Work Performed By	Wisconsin Public Serv	rice Corp.		Туре Со	de Symb	ol Stamp <u>NA</u>	
700 North Adams P	.O. Box 19001 Green B	a y, WI 54307-9001		Authoriz	ation No.	NA_	
4. Identification of Sys	tem <u>33</u> Class 2	SAFETY INJECTION	<u>v</u>	Expiration	on Date	NA_	
	•						
5. (a) Applicable Cons (b) Applicable Editi	on of Section XI Utilized nponents Repaired or Re	for Repairs or Repla		<u>9</u>	ase <u>NA</u>		
5. (a) Applicable Cons (b) Applicable Editi 6. Identification of Cons Name of	on of Section XI Utilized	for Repairs or Repla		<u>9</u>	Year Bullt	Repaired, Repiaced, or Replacement	ASME Code Stampe
5. (a) Applicable Cons (b) Applicable Editi 6. Identification of Cons Name of Scomponent Name of Scomponent Name Applicable Cons	on of Section XI Utilized nponents Repaired or Re	for Repairs or Repla placed and Replace Manufacturer	ment Componer	onts Other	Year	Replaced, or	C

Sheet 2 of 2

Date: 12/01/98

Name of Component: SI-5B

Work Request Number: 215447

Certificate of Co	ompliance	
We certify that the statements made in the report are correct and this ASME Code Section XI.	repaired replacement	conforms to the rules of the
Type Code Symbol Stamp NA		
	piration Date	NA
Signed Philip C Bukes Inspection analysis Swner or Owner's Designee, Title	t Date Janua	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, concoming 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 kirid arising from or connected with this inspection.

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

As Required by the Provisions of the ASME Code Section XI

	ee Nuclear Power Plant Kewaunee, WI 54216-9	<u>510</u>		_	<u>o. 1</u> equest Nu	umber <u>215450</u>	
3. Work Performed	By Wisconsin Public S	ervice Corp.		Туре Со	de Symb	ool Stamp <u>NA</u>	
700 North Adam	ns P.O. Box 19001 Green	Bay, WI 54307-9001		Authoriz	ation No.	NA	•
4. Identification of	System 36 Class 1	REACTOR COOLAI	<u>NT</u>	Expiration	on Date	NA	
	Construction Code - D46	5-1967		Code Ca	se <u>NA</u>		
	Edition of Section XI Utiliz	ed for Repairs or Repla		_			
(b) Applicable I	Edition of Section XI Utiliz	ed for Repairs or Repla		_	Year Bullt	Repaired, Replaced, or Replacement	ASME Code Stamped
(b) Applicable E 6. Identification of Name of	Edition of Section XI Utilize Components Repaired or Name of	ed for Repairs or Repla Replaced and Replace Manufacturer	ement Compone	nts Other		Replaced, or	Code

Sheet 2 of 2

Date: <u>11/30/98</u>

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 repair or replacement ASME Code Section XI.
Type Code Symbol Stamp NA
Certificate of Authorization No. NA Expiration Date NA
Signed Philips Bukes 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 $\underline{9-1-97}$ to $\underline{1-3e-99}$, 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 cartificate 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.
1 -
from Motion Commissions NB7741, I, N, IS, A WIS 100024
Inspector's Signature National Board, State, Province, and Endorsement
Date

As Required by the Provisions of the ASME Code Section XI

Name of Component SI-H42 7. Description of \	Name of Manufacturer ITT GRINNELL VALVE CORP. Work REPAIR CLASS 2 SA	Manufacturer Serial No. NA	National Board No. NA SYSTEM 3" HAN	Other ID NA NGER SI-H4	Year Built 1967 2 DUE TO	Repaired, Replaced, or Replacement REPAIRED	A C Sta
Component	Manufacturer ITT GRINNELL VALVE	Serial No.	Board No.	ID	Bullt	Replaced, or Replacement	Ç
						Replaced, or	Ç
,,	f Components Repaired or Re			-			
	Construction Code B31.1-1 Edition of Section XI Utilized		cements 1989		Case <u>NA</u>		
4. Identification of	<u> </u>	SAFETY INJECTION	<u>N</u>	Expira	tion Date	NA	
700 North Ada	ms P.O. Box 19001 Green B	ay, WI 54307-9001		Author	ization N o.	NA	
3. Work Performe	ed By Wisconsin Public Serv	vice Corp.		Туре	Code Symb	ol Stamp <u>NA</u>	
N490 HWY 42	2 Kewaunee, WI 54216-9510	<u>)</u>		Work I	Request Nu	ımber <u>215462</u>	
2. Plant <u>Kewaun</u>	ee Nuclear Power Plant			Unit	<u>No. 1</u>		
		Bay, WI 54307-9001		Sheet	1	of2	<u> </u>

NIS-2 (Back)

Sheet 2 of 2

Date: 11/19/98

Name of Component: SI-H42

Work Request Number: 215462

Certificate of Co	ompliance	
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 replaceme	
Type Code Symbol Stamp NA		
	piration Date	NA
Signed Phillip C Bukes Flant Inserver analyse of Signed Trapection analyses of Title	et Date Jan	many 4 , 19 99
Certificate of INSERVIO	EF 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.

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.

this inspection.		•
Roge Mitue	Commissions	NB7741, I, N, IS, A WIS 100024 National Board, State, Province, and Endorsements
Date January 20 19 99		

As Required by the Provisions of the ASME Code Section XI

Name of Manufacturer National Other Year Replaced, or Code Component Manufacturer Serial No. Board No. ID Bullt Replacement Stampe								
2. Plant Kewaunee Nuclear Power Plant N490 HWY 42 Kewaunee, WI 54216-9510 3. Work Performed By Wisconsin Public Service Corp. Type Code Symbol Stamp NA Type Code Symbol Stamp NA Type Code Symbol Stamp NA 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 Replacad and Replacement Components Name of Name of Manufacturer National Other Year Replaced, or Replaced, or Code Component Manufacturer Serial No. ID Built Replaced, or Replacement SI-H18 ITT GRINNELL VALVE 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 RONG NOT CARRYING LOAD. 8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Exempt Code Code Code Code Code Code Code Code	1. Owner Wiscon	nsin Public Service Corp.			Date	11/20/98		
Name of Name of Manufacturer Serial No. Serial No. Name of No. Name of Manufacturer Serial No. Name of Manufacturer Serial No. Name of No. Name of Manufacturer Serial No. Name of No. No. No. No. No. No. No. No.	700 North Adar	ms P.O. Box 19001 Green B	Bay, WI 54307-9001		Sheet	1	of	2
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 Replacad and Replacement Components Name of Name of Manufacturer Serial No. Board No. ID Built Replaced, or Replaced, or Code Component ITT GRINNELL VALVE 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 RONOT CARRYING LOAD. 3. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Exempt X Other Pressure psi Test Temp. deg. F	2. Plant <u>Kewaun</u>	ee Nuclear Power Plant			Unit	<u>No. 1</u>		
700 North Adams P.O. Box 19001 Green Bay, WI 54307-9001 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 Replacad and Replacement Components Name of Name of Manufacturer Serial No. Board No. ID Built Replaced, or Replaced, or Code Component ITT GRINNELL VALVE 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 RONOT CARRYING LOAD. 8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Exempt X Other Pressure psi Test Temp. deg. F	N490 HWY 42	Kewaunee, WI 54216-9510	•		Work F	Request Nu	ımber <u>215510</u>	
4. Identification of System 33	3. Work Performe	d By Wisconsin Public Serv	vice Corp.		Туре С	Code Symb	ol Stamp <u>NA</u>	
5. (a) Applicable Construction Code B31.1-1967	700 North Adar	ms P.O. Box 19001 Green Ba	ay, WI 54307-9001		Author	ization No.	NA	
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989 6. Identification of Components Repaired or Replacad and Replacement Components Name of Name of Manufacturer National Other Year Replaced, or Code Component Manufacturer Serial No. Board No. ID Bullt Replacement Stampe SI-H18 ITT GRINNELL VALVE 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 RONOT CARRYING LOAD. 8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Exempt X Other Pressure psi Test Temp. deg. F	4. Identification of	System 33 Class 2	SAFETY INJECTION	<u>N</u>	Expirat	tion Date	NA	
Name of Name of Manufacturer National Other Year Replaced, or Code Component Manufacturer Serial No. Board No. ID Bullt Replaced, or Code Stampe SI-H18 ITT GRINNELL VALVE NA NA NA 1967 REPAIRED N CO. 7. Description of Work REPAIR CLASS 2 SAFETY INJECTION SYSTEM 3" HANGER SI-H18 DUE TO MISALIGNED CLAMP AND RONOT CARRYING LOAD. 8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Exempt X Other Pressure psi Test Temp. deg. F	5. (a) Applicable	Construction Code <u>B31.1-1</u>	<u>967</u>		Code (Case <u>NA</u>		
Name of Name of Manufacturer National Other Year Replaced, or Code Component Manufacturer Serial No. Board No. ID Bullt Replaced, or Code Stampe SI-H18 ITT GRINNELL VALVE NA NA NA 1967 REPAIRED N CO. 7. Description of Work REPAIR CLASS 2 SAFETY INJECTION SYSTEM 3" HANGER SI-H18 DUE TO MISALIGNED CLAMP AND RONOT CARRYING LOAD. 8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Exempt X Other Pressure psi Test Temp. deg. F		•						
Name of Component Name of Manufacturer Serial No. Board No. ID Bullt Replaced, or Stampe Stampe SI-H18 ITT GRINNELL VALVE 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 RONDT CARRYING LOAD. 8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Exempt X Other Pressure psi Test Temp. deg. F	(b) Applicable	Edition of Section XI Utilized	for Repairs or Repla	cements 1989	9			
7. Description of Work REPAIR CLASS 2 SAFETY INJECTION SYSTEM 3" HANGER SI-H18 DUE TO MISALIGNED CLAMP AND RONOT CARRYING LOAD. 3. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Exempt X Other Pressure psi Test Temp. deg. F				•	-			
NOT CARRYING LOAD. 3. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Exempt X Other Pressure psi Test Temp. deg. F	6. Identification of	Components Repaired or Re	placad and Replace	ment Componer	other		Replaced, or	ASME Code Stampe
NOT CARRYING LOAD. 3. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Exempt X Other Pressure psi Test Temp. deg. F	6. Identification of	Components Repaired or Re Name of Manufacturer ITT GRINNELL VALVE	pplacad and Replace Manufacturer Serial No.	ment Componer National Board No.	other ID	Bullt	Replaced, or Replacement	Code Stampe
Other Pressure psi Test Temp. deg. F	6. Identification of Name of Component	Components Repaired or Re Name of Manufacturer ITT GRINNELL VALVE	pplacad and Replace Manufacturer Serial No.	ment Componer National Board No.	other ID	Bullt	Replaced, or Replacement	Code Stampe
	6. Identification of Name of Component SI-H18	Name of Manufacturer ITT GRINNELL VALVE CO.	Manufacturer Serial No.	National Board No.	Other ID NA	Bullt 1967	Replaced, or Replacement REPAIRED	Code Stampe N
9. Remarks NOT APPLICABLE.	6. Identification of Name of Component SI-H18 7. Description of V	Name of Manufacturer ITT GRINNELL VALVE CO. Vork REPAIR CLASS 2 SA	Manufacturer Serial No. NA	National Board No. NA	Other ID NA	Built 1967 8 DUE TO	Replaced, or Replacement REPAIRED	Code Stampe N
	6. Identification of Name of Component SI-H18 7. Description of V	Name of Manufacturer ITT GRINNELL VALVE CO. Vork REPAIR CLASS 2 SA NOT CARRYING LOAD	Manufacturer Serial No. NA AFETY INJECTION :	National Board No. NA SYSTEM 3" HAN	Other ID NA	Built 1967 8 DUE TO	Replaced, or Replacement REPAIRED MISALIGNED CLAI Exempt X	Code Stampe N

Date: 11/20/98

Name of Component: SI-H18 Work Request Number: 215510

Certificate of Co	ompliance	
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 Ex	piration Date	NA
Signed Philip C. Bukes Inspection analysis Gwner or Owner's Designee, Title	T Date James	am 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 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 er	mployer makes a	ny warranty, expressed or implied, concerning the
examinations and corrective measures described in this O	wner's Report. F	urthermore, neither the inspector nor his employer
shall be liable in any manner for any personal injury or prop	perty damage or	a loss of any kind arising from or connected with
this inspection.		
Inspector's Mignature Date January 30 19 99	Commissions	NB7741, I, N, IS, A WIS 100024 National Board, State, Province, and Endorsements

As Required by the Provisions of the ASME Code Section XI

	sin Publio Service Corp.			Date	11/20/98		
	· · · · · · · · · · · · · · · · · · ·						
700 North Adam	s P.O. Box 19001 Green E	Bay, WI 54307-9001	<u></u>	Sheet	1	of	2
2. Plant <u>Kewaunee</u>	e Nuclear Power Plant			Unit	<u>No1</u>		
N490 HWY 42	Kewaunee, WI 54216-9510	<u>)</u>		Work F	Request Nu	ımber <u>215511</u>	
3. Work Performed	By Wisconsin Public Serv	vice Corp.		Туре С	ode Symb	ol Stamp <u>NA</u>	•
700 North Adam	s P.O. Box 19001 Green B	ay, WI 54307-9001		Author	ization No.	NA	
4. Identification of S	System <u>05A</u> Class 2	FEEDWATER		Expira	tion Date	NA	
5. (a) Applicable C	onstruction Code B31.1-1	<u>967</u>		Code (Case <u>NA</u>		
(h) Annlicable E	dition of Section XI Utilized	for Panairo or Ponis	cements 1989				
(b) Applicable L	dition of dection at offized	TO Repairs of Repie	icellieliks 130	2			
6. Identification of C	Components Repaired or Re	placed and Poplace	mont Compone	nte			
	somponents repaired of re	piaced and Nepiace	ment Comboner	its			
	· · · · · · · · · · · · · · · · · · ·	spiaced and Replace	inent Componer	11.5			
Name of	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other ID	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped
Name of Component FDW-H116	Name of	Manufacturer	National	Other		Replaced, or	Code
Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other ID	Bullt	Replaced, or Replacement	Code Stamped
Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other ID	Bullt	Replaced, or Replacement	Code Stamped
Name of Component	Name of Manufacturer ITT GRINNELL VALVE CO.	Manufacturer Serial No. NA	National Board No. NA	Other ID NA	Bullt 1967	Replaced, or Replacement REPAIRED	Code Stamped
Name of Component FDW-H116	Name of Manufacturer ITT GRINNELL VALVE CO.	Manufacturer Serial No. NA	National Board No. NA	Other ID NA	Bullt 1967	Replaced, or Replacement REPAIRED	Code Stamped
Name of Component FDW-H116	Name of Manufacturer ITT GRINNELL VALVE CO. ork REPAIR CLASS 2 FE	Manufacturer Serial No. NA	National Board No. NA	Other ID NA FDW-H116	Built 1967 DUE TO L	Replaced, or Replacement REPAIRED	Code Stamped
Name of Component FDW-H116 7. Description of Wo	Name of Manufacturer ITT GRINNELL VALVE CO. ork REPAIR CLASS 2 FE	Manufacturer Serial No. NA EEDWATER SYSTE	National Board No. NA M 16" HANGER Nominal Opera	Other ID NA FDW-H116	Built 1967 DUE TO L	Replaced, or Replacement REPAIRED OOSE EYE NUT.	Code Stamped

NIS-2 (Back)

Sheet 2 of 2

Date: 11/20/98

Name of Component: FDW-H116

Work Request Number: 215511

Certificate of C	ompliance	
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 Ex	piration Date	NA
Signed Phillip C. Bukes Inspection analytics of Owner's Designee, Title	ot Date Janu	any 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 certificete 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.

this inspection.		
Inspector's Signature Date Jonuary 20 19 99	Commissions	NB7741, I, N, IS, A WIS 100024 National Board, State, Province, and Endorsements

As Required by the Provisions of the ASME Code Section XI

1. Owner Wisconsin				Date 1			`
700 North Adams	P.O. Box 19001 Green Ba	y, WI 54307-9001		Sheet	1	of2	2
2. Plant <u>Kewaunee N</u>	luclear Power Plant			Unit <u>I</u>	<u>No. 1</u>		
N490 HWY 42 Ke	waunee, WI 54216-9510	•		Work R	Request Nu	mber <u>215515</u>	
3. Work Performed By	Wisconsin Public Service	ce Corp.		Type C	ode Symbo	ol Stamp NA	
700 North Adams I	P.O. Box 19001 Green Ba	y, WI 54307-9001		Authori	zation No.	NA	
4. Identification of Sys	stem <u>06</u> Class 2 <u>M</u>	IAIN STEAM AND	STEAM DUMP	Expirat	ion Date	NA	
			•				
5. (a) Applicable Con (b) Applicable Edit	struction Code <u>B31.1-19</u> ion of Section XI Utilized for mponents Repaired or Rep	or Repairs or Repla		!	case <u>NA</u>		
5. (a) Applicable Con (b) Applicable Edit 6. Identification of Con	ion of Section XI Utilized fo	or Repairs or Repla		!	Year Built	Repaired, Replaced, or Replacement	ASME Code Stampe
5. (a) Applicable Con (b) Applicable Edit 6. Identification of Con Name of Component	ion of Section XI Utilized fo mponerits Repaired or Rep Name of	or Repairs or Repia placed and Replace	ment Componen	otts	Year	Replaced, or	C

NIS-2 (Back)

Sheet 2 of 2

Date: 11/19/98

Name of Component: MS-W19BC

Work Request Number: 215515

Certificate of Co	ompliance	
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		
	piration Date	NA
Signed Phillip C. Bukes Inspection and Owner or Owner's Designee, Title	hystoate Jan	many 4 , 19 99

Certificate of iNSERVICE INSPECTION

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snali be liable in any manner for any personal injury or prop	eπy damage or	a loss of any kind arising from or connected with
this inspection.		
Inspector's signature Date January 20 19 99	Commissions	NB7741, I, N, IS, A WIS 100024 National Board, State, Provinco, and Endorsements
		·

As Required by the Provisions of the ASME Code Section XI

1. Owner Wiscon							
	nsin Public Service Corp.			Date 1	12/03/98		
700 North Adar	ms P.O. Box 19001 Green Ba	y, WI 54307-9001	Ĺ	Sheet	1	of	2
2. Plant <u>Kewaun</u>	Plant Kewaunee Nuclear Power Plant				No. 1		
N490 HWY 42	N490 HWY 42 Kewaunee, WI 54216-9510				e quest Nu	ımber <u>215562</u>	
3. Work Performed By Wisconsin Public Service Corp.				Type C	ode Symb	ol Stamp <u>NA</u>	
700 North Adams P.O. Box 19001 Green Bay, WI 54307-9001				Authoriz	zation No.	NA	
4. Identification of	System <u>89A</u> Class MC <u>BI</u>	UILDINGS - STRU	CTURES	Expirati	on Date	NA	
5. (a) Applicable	Construction Code SEC. III-C	CL.B-1965W		Code C	ase <u>NA</u>		
(b) Applicable	Edition of Section XI Utilized fo	or Repairs or Repla	cements 1992	2 Addenda			
6. Identification of	Components Repaired or Repl	laced and Replace	ement Componer	nts		•	
	, , ,		•				
Name of Component	Name of Manufacturer	Manufacturer Seriai No.	National Board No.	Other ID	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped
						Replaced, or	Code
Component	Manufacturer CHICAGO BRIDGE AND IRON COMPANY Vork REPAIR SURFACE BL AND PLATE 107 ON A	Seriai No. C4454 EMISHES ON CL	Board No.	1S-0002	Built 1969	Replaced, or Replacement REPAIRED	Code Stamped Y
Component RBCV 7. Description of V	Manufacturer CHICAGO BRIDGE AND IRON COMPANY Vork REPAIR SURFACE BL AND PLATE 107 ON A	Serial No. C4454 EMISHES ON CL. NNULUS SIDE.	Board No. NA ASS MC REACT Nominal Operat	1S-0002	Built 1969	Replaced, or Replacement REPAIRED INMENT VESSEL I	Code Stamped Y

Date: 12/03/98

Name of Component: 'RBCV

Work Request Number: 215562

Certificate of C	ompliance	
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 Ex	piration Date	NA
Signed Phillips C. Burkes Inspertion and y Owner or Owner's Designee, Title	ot Date Jane	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 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.

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

As Required by the Provisions of the ASME Code Section XI

1. Owner <u>Wisco</u>	nsin Public Service Corp.			Date <u>1</u>	1/28/98		
700 North Ada	ms P.O. Box 19001 Green	n Bay, WI 54307-9001		Sheet	1	of	2 .
2. Plant Kewaun	ee Nuclear Power Plant			Unit <u>N</u>	lo. 1		
N490 HWY 42	2 Kewaunee, WI 54216-95	<u>10</u>		Work Re	equest Nu	ımber <u>CMP</u> 36-0	007
3. Work Performe	ed By Wisconsin Public Se	ervice Corp.		Type Co	ode Symb	ol Stamp <u>NA</u>	
700 North Ada	ms P.O. Box 19001 Green	Bay, WI 54307-9001		Authoriz	ation No.	<u>NA</u>	
4. Identification of	f System 36 Class 1	REACTOR COOLAR	<u>NT</u>	Expiration	on Date	NA	
5. (a) Applicable	Construction Code ASME	<u> </u>		Code Ca	ase <u>NA</u>		
// * * / ·							
(b) Applicable	Edition of Section XI Utilize	ed for Repairs or Repla	cements 198	9			
	Edition of Section XI Utilize						
	Edition of Section XI Utilize f Components Repaired or F						
	•						
	•				Year Built	Repaired, Repiaced, or Replacement	ASME Code Stamped
6. Identification of Name of Component	Name of Manufacturer CROSBY, ASHTON	Replaced and Replace Manufacturer	ment Compone	nts Other		Replaced, or	Code
6. Identification of Name of Component	f Components Repaired or F Name of Manufacturer	Replaced and Replace Manufacturer Serial No.	ment Compone National Board No.	other	Built	Replaced, or Replacement	Code Stampe
6. Identification of Name of Component	Name of Manufacturer CROSBY, ASHTON	Replaced and Replace Manufacturer Serial No.	ment Compone National Board No.	other	Built	Replaced, or Replacement	Code Stampe
6. Identification of Name of Component	Name of Manufacturer CROSBY, ASHTON GAGE COMPANY	Replaced and Replace Manufacturer Serial No.	National Board No.	Other ID RC008-001	Built 1972	Replaced, or Replacement REPAIRED	Code Stampe
6. Identification of	Name of Manufacturer CROSBY, ASHTON GAGE COMPANY	Manufacturer Serial No.	National Board No.	Other ID RC008-001	Built 1972	Replaced, or Replacement REPAIRED	Code Stampe
6. Identification of Name of Component	Name of Manufacturer CROSBY, ASHTON GAGE COMPANY	Manufacturer Serial No.	National Board No.	Other ID RC008-001	Built 1972	Replaced, or Replacement REPAIRED	Code Stampe
6. Identification of Name of Component PR-3A 7. Description of N	Name of Manufacturer CROSBY, ASHTON GAGE COMPANY	Manufacturer Serial No. NF REACTOR COOLAN	National Board No. NA T SYSTEM 6" \	Other ID RC008-001 /ALVE PR-3A	Built 1972 FOR TES	Replaced, or Replacement REPAIRED STING.	Code Stampe
6. Identification of Name of Component PR-3A 7. Description of N	Name of Manufacturer CROSBY, ASHTON GAGE COMPANY Nork REMOVE CLASS 1	Manufacturer Serial No. NF REACTOR COOLAN	National Board No. NA T SYSTEM 6" \	Other ID RC008-001	Built 1972 FOR TES	Replaced, or Replacement REPAIRED STING.	Code Stampe
6. Identification of Name of Component PR-3A 7. Description of V	Name of Manufacturer CROSBY, ASHTON GAGE COMPANY Nork REMOVE CLASS 1	Manufacturer Serial No. NF REACTOR COOLAN	National Board No. NA T SYSTEM 6" \	Other ID RC008-001 /ALVE PR-3A	Built 1972 FOR TES	Replaced, or Replacement REPAIRED STING.	Code Stamp

NIS-2 (Back)

Sheet 2 of 2

Certificate of Compliance

Date: <u>11/28/98</u>

Name of Component: PR-3A

Work Request Number: CMP 36-007

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 repla	
ype Code Symbol Stamp NA		•
ertificate of Authorization No. NA		NA NA
igned Phillip C. Bukes Inspection Uni Owner or Owner's Designee, Title	xpiration Date ce abyt Date	January 4, 19 99
Certificate of INSERV	ICE INSPEC	TION
the undersigned, holding a valid commission issued by the National		
tate or Province of Wisconsin and employed by Hartford Steam Boil		·
ne components described in this Owner's Report during the period	7-1-97 to	1-20-99, and state that to the best
f my knowledge and belief, the Owner has performed examinations	and taken corre	ctive measures described in this Owner's
teport in accordance with the requirements of the ASME Code, Sect	ion Xi.	
By signing this certificate neither the Inspector nor his employer.ma	akee any warren	ty expressed or implied concerning the
		· · · · · · · · · · · · · · · · · · ·
xaminations and corrective measures described in this Owner's Rep		
hall be liable in any manner for any personal Injury or property dama	ige or a loss of a	my kind arising from or connected with
nis inspection.		
Roger Moture Commis		I, N, IS, A WIS 100024
inspector's Signature	national	Board, State, Province, and Endorsement
Date January 30 19 99		

As Required by the Provisions of the ASME Code Section XI

N490 HWY 42 Kewaunee, WI 54216-9510 3. Work Performed By Wisconsin Public Service Corp.					Work Request Number <u>CMP</u> 36-007 Type Code Symbol Stamp NA				
700 North Adams P.O. Box 19001 Green Ba y.WI 54307-9001					ation No.	NA			
4. Identification of	System <u>36</u> Class 1	REACTOR COOLA	<u>NT</u>	Expiration	on Date	_NA_			
	Construction Code ASME	: III-1968		Code Ca	ase <u>NA</u>	,			
	Edition of Section XI Utilize Components Repaired or F	d for Repairs or Repia			·				
(b) Applicable	Edition of Section XI Utilize	d for Repairs or Repia			Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped		
(b) Applicable 6. Identification of Name of	Edition of Section XI Utilize Components Repaired or F Name of	d for Repairs or Repia Replaced and Replace Manufacturer	ement Compone National	nts Other		Replaced, or	Code		
(b) Applicable 6. Identification of Name of Component	Edition of Section XI Utilize Components Repaired or F Name of Manufacturer CROSBY, ASHTON GAGE COMPANY Vork REMOVE CLASS 1	d for Repairs or Replace Replaced and Replace Manufacturer Serial No.	National Board No.	Other ID RC008-002	Bullt 1972	Replaced, or Replacement REPAIRED	Code Stampe		

NIS-2 (Back)

Sheet 2 of 2

Date: 11/28/98

Name of Component: PR-3B

Work Request Number: CMP 36-007

Certificate of Co	ompliance	
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 repla	
Type Code Symbol Stamp NA		
	piration Date	NA
Signed Phillips Bukes Inspection analy 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 Prassure 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-/-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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Commissions NB7741, I, N, IS, A WIS 100024
Inspector's Signature

Date January 20 19 99

As Required by the Provisions of the ASME Code Section XI

1. Owner Wisco	nsin rubiic service corb.						
	700 North Adams P.O. Box 19001 Green Bay, WI 54307-9001				12/02/98		
700 North Ada	ms P.O. Box 19001 Green	n Bay, WI 54307-900	<u>1</u>	Sheet	1	of	2
2. Plant Kewaun	Kewaunee Nuclear Power Plant				No. 1		
N490 HWY 42	N490 HWY 42 Kewaunee, WI 54216-9510				Request No	umber <u>PM</u> 36-0	64
3. Work Performe	. Work Performed By Wisconsin Public Service Corp.				ode Symb	ool Stamp <u>NA</u>	
700 North Adar	ms P.O. Box 19001 Green	Bay, WI 54307-9001		Author	zation No.	NA	
4. Identification of	System 36 Class 1	REACTOR COOLAI	NT	Expirat	ion Date	NA	
5. (a) Applicable	Construction Code ASME	E III CL. A-1966		Code (ase <u>NA</u>		
(b) Applicable	Edition of Section XI Utilize	ed for Repairs or Repla	cements 1989	<u>9</u>			
6. Identification of	Components Repaired or I	Replaced and Replace	ment Componer	ıte			
	į (· · · · · · · · · · · · · · · · · ·	Topiage	ment componer	il S			
Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nationai Board No.	Other ID	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped
	Manufacturer						
Component	Manufacturer	Serial No.	Board No.	ID	Built	Replaced, or Replacement	Code Stamped
Component	Manufacturer	Serial No.	Board No.	ID	Built	Replaced, or Replacement	Code Stamped
Component SG-1A (CLASS 1)	Manufacturer WESTINGHOUSE	Serial No. 1141 EET SI EEVES AND N	Board No. 68-28	00035	Built 1968	Replaced, or Replacement REPAIRED	Code Stamped Y
Component	Manufacturer WESTINGHOUSE	Serial No.	Board No. 68-28	00035	Built 1968	Replaced, or Replacement REPAIRED	Code Stamped Y
Component SG-1A (CLASS 1)	Manufacturer WESTINGHOUSE Vork INSTALL TUBESHE THE CLASS 1 REA	Serial No. 1141 EET SLEEVES AND N	Board No. 68-28	00035 00035 UGS IN PRI	Built 1968	Replaced, or Replacement REPAIRED	Code Stamped Y
Component SG-1A (CLASS 1) 7. Description of W	Manufacturer WESTINGHOUSE Vork INSTALL TUBESHE THE CLASS 1 REA	Serial No. 1141 EET SLEEVES AND N. CTOR COOLANT SY	Board No. 68-28 MECHANICAL PI STEM STEAM C	00035 00035 UGS IN PRI	Built 1968	Replaced, or Replacement REPAIRED DE HOTLEG AND C	Code Stamped Y

NIS-2 (Back)

Sheet 2 of 2

Date: 12/02/98

Name of Component: SG-1A (CLASS 1)
Work Request Number: PM 36-064

Certificat	e 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 replaceme	nt
Type Code Symbol Stamp NA		
Certificate of Authorization No. NA	Expiration Date	NA
Signed Phillip C. Bukes Impection Owner or Owner's Designee, Title	n analyst Date Jane	19 99 19 99

Certificate of INSERVICE INSPECTION

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

As Required by the Provisions of the ASME Code Section ${\sf XI}$

1. Owner Wiscons	sin Public Service Corp.		·	Date	12/02/98		
700 North Adams	s P.O. Box 19001 Green	Bay, WI 54307-9001	<u>1</u>	Sheet	1	of	2
2. Plant <u>Kewaunee</u>	2. Plant Kewaunee Nuclear Power Plant				No. 1		
N490 HWY 42 H	Kewaunee, WI 54216-951	<u>10</u>		Work F	Request No	ımber <u>PM</u> 36-0	066
3. Work Performed	Work Performed By <u>Wisconsin Public Service Corp.</u>				ode Symb	ol Stamp <u>NA</u>	
700 North Adams P.O. Box 19001 Green Bay, WI 54307-9001				Authori	ization No.	NA	
4. Identification of S	System 36 Class 1	REACTOR COOLAI	<u>NT</u>	Expirat	ion Date	NA	
5. (a) Applicable Co	onstruction Code ASME	III CL.A-1966		Code C	ase <u>NA</u>		
(b) Applicable Ed	dition of Section XI Utilized	d for Repairs or Repla	acements 1989	9		•	
6. Identification of C	components Repaired or R	Santanad and Bank are		, 			
	omponents repaired or re	replaced and Replace	ement Componer	nis			
	omponents (tapaned of the	Replaced and Replace	ement Compone	nis			
Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other ID	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped
Name of	Name of	Manufacturer	Nationai	Other		Replaced, or	Code
Name of Component	Name of Manufacturer	Manufacturer Serial No.	Nationai Board No.	Other ID	Built	Replaced, or Replacement	Code Stamped
Name of Component	Name of Manufacturer WESTINGHOUSE	Manufacturer Serial No.	National Board No. 68-29	Other ID 00036	1968	Replaced, or Replacement REPAIRED	Code Stamped Y
Name of Component SG-1B (CLASS 1)	Name of Manufacturer WESTINGHOUSE	Manufacturer Serial No. 1142	National Board No. 68-29	Other ID 00036 MANICAL PLU	Built 1968 JGS IN PRERATOR	Replaced, or Replacement REPAIRED	Code Stamped Y
Name of Component SG-1B (CLASS 1) 7. Description of Woo	Name of Manufacturer WESTINGHOUSE ork INSTALL TUBESHE COLDLEG IN CLAS	Manufacturer Serial No. 1142 EET SLEEVES, WELD S 1 REACTOR COO	National Board No. 68-29 DED AND MECH LANT SYSTEM Nominal Opera	Other ID 00036 MANICAL PLU	Built 1968 JGS IN PRERATOR	Replaced, or Replacement REPAIRED RIMARY SIDE HOT 1B.	Code Stamped Y

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 ar	nd this repaired	conforms to the rules of the
ASME Code Section XI.	repair or replaceme	
ype Code Symbol Stamp NA		
Certificate of Authorization No. NA	Expiration Date	NA
Signed Philip C. Bukes Inspection or Owner's Designee, Title	ce <u>ahyst</u> Date <u>fo</u>	muary 4 , 19 99
- The state of the		
	ERVICE INSPECTION	

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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D 9.10		
Rosn Mitsuin	Commissions	NB7741, i, N, IS, A WIS 100024
Inspectors signature		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: IST 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 Pressurc 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 Vesel 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 occurance 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

TYPE OR LOCATION OF RECORDABLE INDICATION (RI)	METHOD	NO. OF RI'S
Seal Water Injection Filter Circumferential Weld	Ultrasonic (UT)	1 Weld
Class 1 Safety Injection Piping Weld Class 2 Feedwater Piping	Ultrasonic (UT)	1 Weld
Class 2 Feedwater Figure Class 2 Feedwater Piping	Ultrasonic (UT) Radiography (RT)	2 Welds 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 System Pressure Tests	Visual (VT-3) Visual (VT-2)	18 Supports 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 Radiograhy, 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. Rexaminations 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 perforned 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 C. Bukes December 9, 1998

Date

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

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 Longitudional 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 Vesel 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 occurance 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

TYPE OR LOCATION OF
RECORDABLE INDICATION (RI)

METHOD

NO. OF RI'S

Reactor Building Containment Vessel

General Visual

4 Plates

1. Two (2) Visual Recordable Indications on the Reactor Building Containment Vessel Plate 98 and Plate 107 were recorded during performance of General Visual Examinations. The Recordable Visual Indications were removed by grinding under Work Request 215562. Ultrasonic, Magnetic Particle and General Visual Examinations were performed following Repair and No Indications were recorded. Two (2) Visual Recordable Indications on the Reactor Building Containment Vessel Plate 120 and Plate 155 were recorded during performance of General Visual Examinations,. The Recordable Indications were apparent gouges in the Base Metal. Supplemental Ultrasonic Examaintion determined there was no violation of minimum wall and the gouges were Accepted As Is.

SUMMARY

An Inservice Inspection 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). Examinations were performed as scheduled in the Kewaunee Nuclear Power Plant First 10-Year Inservice Inspection (ISI) Program 1996-2006 and started the requirements for the 1st Interval; 1st Period. A total of 4 Recordable Indications were detected. All Recordable Indications were corrected or accepted by ASME Boiler and Pressure Vessel Code Section XI 1992 Edition up to and including 1992 Addenda Acceptance Criteria, Repair/Replacement or Evaluation.

Phillip C. Bukes January 5, 1999

Phillip E. Bukes

Date

Engineering and Technical Support Plant Inservice Inspection Analyst

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

SP-36-084 File

cc - CR Steinhart

KH Evers

ML Marchi

DE Cole

KH Weinhauer

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.

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>	2
	7 5	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>	1996
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:	1	2
	40	

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.

<u>Tubesheet Crevice Recovery</u>

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.

<u>Tubesheet Sleeving</u>

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 seconddary side pressure

following the repairs; no leakage was noted.

Final Numbers

1	27" ABB Sleeves	SG A	SG B	
2		102	64	
	The state of the s	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 Sivs (PTS)	15	3	
9	30" W HEJ Sivs (PTS)	31	21	
10	36" W HEJ Sivs (PTS)	187	50	
11	Total HEJ Sleeves (PTS) (8+9+10)	233	74	
12	30"W HEJ Sivs (HE LWR)	130	114	
13	36"W HEJ Sivs (HE LWR)	148	80	
14	Total HEJ Sleeves (HE LWR's) (12+13)	278	194	
15	30" W HEJ SIvs (HR LWR)	9	13	
16	36"W HEJ Sivs (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		
24	% Plugged (22/3388)	25.89%	949	
25	Equivalent SGTP		25.5 170	
			1.62%	

TP Olson

STEAM GENERATOR EDDY CURRENT FINAL RESULTS

	STEA	M GENERA	ATOR A		
Scope	Description	Total	Repairs		L*
		Tubes Tested	Pluggcd	Sleeved	met
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	3 0	
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	

STEAM GENERATOR B					
Scope	Description	Total Tubes	1 1	pairs	L* met
		Tested	Plugged	Sleeved	
20% ŲT	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	
2 0% 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	

STEAM GENERATOR B

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%)

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%)



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: Drag Force: Lockup Velocity: Bleed Rate:	1721 lbs. 4558 lbs. 1.08 IPM 0.1315 IPM	1628 lbs. 4186 lbs. 0.96 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 J. Millin Sn. 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

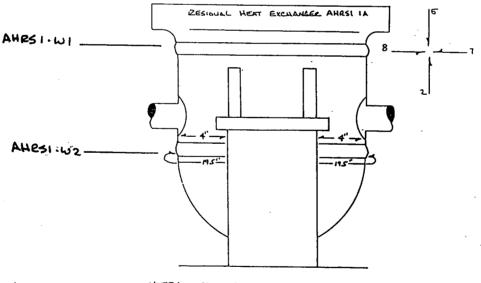
VISUAL EXAMINATION LIMITATION TO EXAMINATION RECORD REACTOR VESSEL CLOSURE HEAD FLANGE SYSTEM OR COMPONENT: AND CONTROL ROD DRIVE MECHANISM DRAWING NO .: M-1198 SH.1 of 2 COMPONENT IDENTIFICATION: RV-WI2 PROCEDURE: NEP NO. 15.9 REVISION: ORIG ULTRASONIC: X LIQUID PENETRANT: MAGNETIC PARTICLE: VISUAL: ____ **EXAMINER:** DATE: 10/27/98 777 DATE: 10-27-98 SKETCH TO PROVIDE: APPROXIMATE SIZE, LOCATION, ORIENTATION, TYPE OF LIMITATION AND PERCENTAGE OF REDUCED EXAMINATION COVERAGE. PV. NII2 (2) (1) (2) WCW - 3.5" T - 6.1" ENGTH . 138" NOTE: ALL SLANS, 0°, 45° ! 60° EXAMINATIONS LIMITED QUE TO REACTOR HEAD TO FLANCE CONFIGURATION. SCAN 5, 45° (60° EXAMINATIONS LIMITED DUE TO INTEGRAL WELSES ATTACHMENT (LIPTING LOC) LOCATED AT STUD HOLE 27 (85.5°). REDUCED CODE / PROCEDURAL CONERAGE: 23% * 4 23% of 138"(E of 5TUO HOLE 17 to E of 5TUD HOLE 33) KEWAUNEE NUCLEAR Phillip C. Buker POWER PLANT REVIEW: **AUTHORIZED NUCLEAR INSERVICE INSPECTOR REVIEW:** DATE: 10-30-98

SYSTEM OR COMPONENT: PRESSURIZER PZR
DRAWING NO.: M-1200_
COMPONENT IDENTIFICATION: P-W3 / P-W5 PROCEDURE: NEP No. 15.9 REVISION: OFIS
ULTRASONIC: X LIQUID PENETRANT: MAGNETIC PARTICLE: VISUAL:
EXAMINER: Jeff Owes II DATE: 10/31/98 LEVEL
EXAMINER: DATE: NA LEVEL
LEVEL
SKETCH TO PROVIDE: APPROXIMATE SIZE, LOCATION, ORIENTATION, TYPE OF LIMITATION AND PERCENTAGE OF REDUCED EXAMINATION COVERAGE.
-2.5"- WELD CROWN WINTH 3.5" LENGTH OF EXAM 97.0"
(.2" 1 1 1 1 1 1 1 1 1 1
NOTE: 0°, 45°, \$ 60° EXAMINATIONS LIMITED IN EACH SLAN DIRECTION DUE TO INTEGRAL WELDED ATTACHMENTS AT 145.5" CLOCKWISE WITH DIMENSIONS SHOWN ABOUE.
(1) DIMENSIONS ILDUSTIONS ARE THE SAME FOR WELD P.W.S.
PELLENTAGE OF PROCEDURAL I CODE LIMITATION: 1.4% OF 97.0"
KEWAUNEE NUCLEAR POWER PLANT REVIEW: Phillip C. Bukes DATE: November 3,1998
AUTHORIZED NUCLEAR INSERVICE INSPECTOR REVIEW: Roya Mate: 11-3-98

SYSTEM OR COMPONENT: RC PUMPS RCP-IA AND RCP-IB MA	IN FLANGE AND No. I SEAL HOUSING BOLTING
DRAWING NO.: M - 1205 SHT 1 of 2	
RCP-B9, RCP-BII COMPONENT IDENTIFICATION: THRU RCP-BIT PROC	EDURE: NEP No. 15.15 REVISION: Orig.
ULTRASONIC: X LIQUID PENETRANT: MAGN	ETIC PARTICLE: VISUAL:
EXAMINER: 4 Carlina 77	
LEV	<u> </u>
EXAMINER: Jug Whome LEN	DATE: <u>10 - 30 - 98</u>
LEV	/EL
SKETCH TO PROVIDE: APPROXIMATE SIZE, LOCATION, C PERCENTAGE OF REDUCED EXAM	RIENTATION, TYPE OF LIMITATION AND
PERCENTAGE OF REDUCED EXAM	MINATION COVERAGE.
/ ////////////////////////////////////	
Griff	
AREA OF REQUIRED VOLUME	
AREA OF REQUIRED VOLUME NOT EXAMINED DUE TO	
BOLT CONFIGURATION FOR	7.3% NOT EXAMINED
90° SURFACE EXAM AND 70° FORWARD EXAM	(PER STUD)
· .	
KEWAUNEE NUCLEAR Phillips C Bulley	D N 1. 5.000
POWER PLANT REVIEW: Philip C. Bukes AUTHORIZED NUCLEAR INSERVICE INSPECTOR DEVIEW: Review Review	DATE: November 5,1998
INSERVICE INSPECTOR REVIEW: Koga Motion	DATE: //-6-98

SYSTEM OR COMPONENT: RESIDUAL HEAT EXCH	ANGERS AHRSI.	A AND AH	252 -16
DRAWING NO.: M.1267			
COMPONENT IDENTIFICATION: AHRS 1 . W 2	_ PROCEDURE: ME	PNO.15.16 F	REVISION: Ons
ULTRASONIC: X LIQUID PENETRANT:	MAGNETIC PART	TICLE:	_ VISUAL:
EXAMINER: 4 (and and and and and and and and and and	LEVEL		
EXAMINER: Jell Dues	LEVEL	DATE:	10/24/98

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



NOTE: SLAN 2.5,7,8 100 EMMUNTION LIMITED TO ALEN NOTED ABOUR DUE TO SUPPORTS I SADOLE WELD INTERFERENCE.

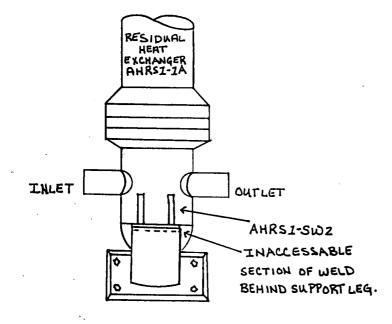
REDUCED PROCESSAL COLERAGE: 30.2%, ZEDUCED CODE COUESAGE: 37.6%.

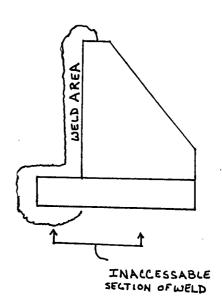
REWAUNEE NUCLEAR
POWER PLANT REVIEW: Philip C. Bukes

AUTHORIZED NUCLEAR
INSERVICE INSPECTOR REVIEW: Roga Instrum

DATE: 10-30-98

SYSTEM OR COMPONENT: RESIDUAL HERT EXCH	anger Rhrs	1-1A AND AHRS2-1B
DRAWING NO.:		•
COMPONENT IDENTIFICATION: AHRS 1 - SW2	PROCEDURE:	NEP NO. 15.6 REVISION: OR 1G.
ULTRASONIC: LIQUID PENETRANT: _X	MAGNETIC PA	RTICLE: VISUAL:
EXAMINER: Saul Paul	II_ LEVEL	_ DATE: <u>10-23-98</u>
EXAMINER: NA		DATE: NA
	LEVEL	
SKETCH TO PROVIDE: APPROXIMATE SIZE, LOCAT PERCENTAGE OF REDUCE		





PERCENTAGE OF REDUCED EXAMINATION COVERAGE = 20.7%

REWAUNEE NUCLEAR POWER PLANT REVIEW: Philip C. Bukes	DATE: October 30,1998
AUTHORIZED NUCLEAR INSERVICE INSPECTOR REVIEW: Roger Morriem	DATE:98

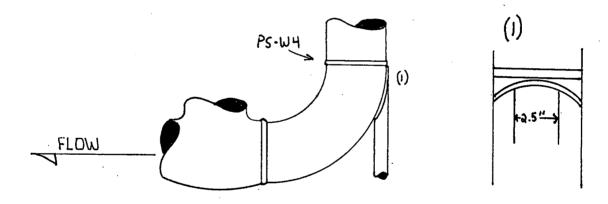
SYSTEM OR COMPONENT: REGENERATIVE HEAT EXCHANGER ARG	
DRAWING NO .: M-1208	
COMPONENT IDENTIFICATION: ARG-W9 PROCEDURE: NEP NO. 15.17 REVISION	: ORIG
ULTRASONIC: X LIQUID PENETRANT: MAGNETIC PARTICLE: VISUAI	
EXAMINER: DATE: 1/-1/-9 LEVEL	8
EXAMINER: DATE: DATE:	
SKETCH TO PROVIDE: APPROXIMATE SIZE, LOCATION, ORIENTATION, TYPE OF LIMITAT PERCENTAGE OF REDUCED EXAMINATION COVERAGE.	ON AND
WELD CROWN 1.0	ш
1.25"	
45° SCAN 2 LIMITED DUE TO NOZZLE CONFIGURATION. ON TOP AND BOTTOM. REDUCED CODE COVERAGE REDUCED PRIZEOURAL COVERAGE	1.5%
KEWAUNEE NUCLEAR POWER PLANT REVIEW: Phillip C. Bukes DATE: November 1	cs 11,1998
NOWER PLANT REVIEW: Philip C. Bukes AUTHORIZED NUCLEAR INSERVICE INSPECTOR REVIEW: Rogn Wifnin DATE: 11-13	

SYSTEM OR COMPONENT: SEALWATER INJECTION FILTERS AFSI- IA AND AFSI- IB
DRAWING NO.: <u>M - 1212</u>
COMPONENT IDENTIFICATION: AFSI-WZ PROCEDURE: NEPNo. 15. 16 REVISION: Orig.
ULTRASONIC: X LIQUID PENETRANT: MAGNETIC PARTICLE: VISUAL:
EXAMINER:
EXAMINER:
SKETCH TO PROVIDE: APPROXIMATE SIZE, LOCATION, ORIENTATION, TYPE OF LIMITATION AND PERCENTAGE OF REDUCED EXAMINATION COVERAGE.
PERCENT OF LIMITED CODE COVERAGE: 35.87 PERCENT OF LIMITED PROCEDURE COVERAGE: 35.97 45° AND 60° SCANS LIMITED BY 2" INLET NOZZLE 1.3" FROM TOE OF IA-2 (AFSI-WZ). O°, 45° AND 60° SCANS LIMITED BY 4.25 INCHES FROM AFSI-SWI, AFSI-SWI AND AFSI-SW3 FOR A TOTAL OF 12.75" AFSI-SW1 AFSI-SW3
KEWAUNEE NUCLEAR POWER PLANT REVIEW: Phillip C. Bukes DATE: Wormber 16, 1998

SYSTEM OR COMPONENT: SAFETY INJECTION PUMPS APSI - 1A AND APSI - 1B			
DRAWING NO.: <u>M-1707</u>			
APSI - 18 - 53 COMPONENT IDENTIFICATION: APSI - 1A - 52 PROCEDURE: NEP No. 15. 7 REVISION: Orig.			
ULTRASONIC: LIQUID PENETRANT: MAGNETIC PARTICLE: _X VISUAL:			
EXAMINER: Jung Shome II DATE: 11-3-98 LEVEL EXAMINER: DATE: 11-3-98			
EXAMINER: DATE: 11-3-98 LEVEL			
SKETCH TO PROVIDE: APPROXIMATE SIZE, LOCATION, ORIENTATION, TYPE OF LIMITATION AND PERCENTAGE OF REDUCED EXAMINATION COVERAGE.			
83% EXAMINED 17% NOT EXAMINED (due to limitation)			
LIMITED WELD EXAM AREA BEHIND ATTACHMENT			
KEWAUNEE NUCLEAR POWER PLANT REVIEW: Phillys C. Bukes DATE: November 5,1998			
KEWAUNEE NUCLEAR POWER PLANT REVIEW: Phillips C. Bukes AUTHORIZED NUCLEAR INSERVICE INSPECTOR REVIEW: Roya Migrain DATE: 11-6-98			

SYSTEM OR COMPONENT:3" R	.C. TO PRESSURIZER
DRAWING NO .: ISIM - 874-2	
COMPONENT IDENTIFICATION: PS-W4	PROCEDURE: NEP NO. 15. GREVISION: DRIG.
	T: X MAGNETIC PARTICLE: VISUAL:
EXAMINER: Drais Thomas_	
EXAMINER: N A	DATE: N A

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: Philip C. Bukes

DATE: October 30, 1998

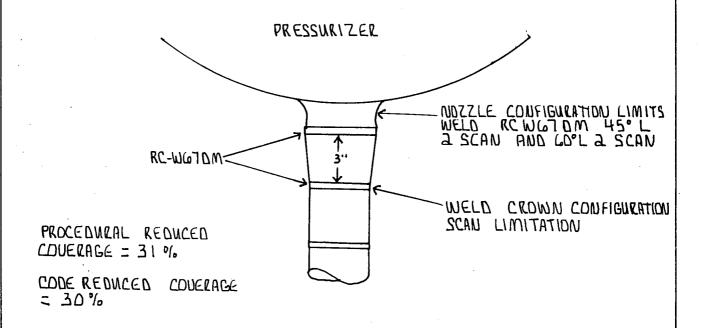
AUTHORIZED NUCLEAR
INSERVICE INSPECTOR REVIEW: Programming DATE: 10-21-98

SYSTEM OR COMPONENT: PRESSURIZER SURGE LINE	
DRAWING NO .: ISIM- 892	
COMPONENT IDENTIFICATION: RC-WGU PROCEDURE: NEP NO. 1516 REVIS	SION: DRIG.
ULTRASONIC: X LIQUID PENETRANT: MAGNETIC PARTICLE: VIS	SUAL:
EXAMINER: Jan Homa II DATE: 11-19	-98
EXAMINER: DATE:	1-93
SKETCH TO PROVIDE: APPROXIMATE SIZE, LOCATION, ORIENTATION, TYPE OF LIMI PERCENTAGE OF REDUCED EXAMINATION COVERAGE.	TATION AND
RESTRAINT RRIBH-6	
6"	
(RESTRAINT LIMITS ALL ANGLES D°, 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. Bukes DATE: No.	member 19, 1998
POWER PLANT REVIEW: Philips C. Bukes DATE: No. AUTHORIZED NUCLEAR INSERVICE INSPECTOR REVIEW: Royn Mogram DATE:	

SYSTEM OR COMPONENT: PRESSURIZER SURGE LINE
DRAWING NO .: ISIM - 892
COMPONENT IDENTIFICATION: RC-W64 PROCEDURE: NEPNO. 15.6 REVISION: 6R16.
ULTRASONIC: LIQUID PENETRANT: X MAGNETIC PARTICLE: VISUAL:
EXAMINER: DATE: 11-18-98 LEVEL
EXAMINER: DATE: DATE: DATE:
SKETCH TO PROVIDE: APPROXIMATE SIZE, LOCATION, ORIENTATION, TYPE OF LIMITATION AND PERCENTAGE OF REDUCED EXAMINATION COVERAGE.
RESTRAINT RR134-6 LIMITATION AREA 2" CW AND 2" CCW
4" LIRC AREA LIMITED DUE TO NON REMOUABLE RESTRAINT.
REDUCED EXAMINATION COVERAGE
<u>/2.7%</u>
KEWAUNEE NUCLEAR POWER PLANT REVIEW: Phillip C. Butes DATE: November 19, 1998
AUTHORIZED NUCLEAR INSERVICE INSPECTOR REVIEW: Kogn Moun DATE: 11-19-98

SYSTEM OR COMPONENT: PRESSURIZER	SURGE LINE
DRAWING NO.:	
COMPONENT IDENTIFICATION: RC-WG7 DM	PROCEDURE: NER NO. 15.14 REVISION: OR16.
ULTRASONIC: X LIQUID PENETRANT:	MAGNETIC PARTICLE: VISUAL:
EXAMINER: <u>Jrans Thomas</u>	
EXAMINER: 4 Can Can	DATE:

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



KEWAUNEE NUCLEAR POWER PLANT REVIEW:	lles C. Bukes	DATE: November 18,1998
AUTHORIZED NUCLEAR INSERVICE INSPECTOR REVIEW:	Rogn Mynn	DATE: 11-19-98

REV.: ORIG.

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

	ION TO EXAMINATION RECORD
SAFETY INJECTION SYSTEM OR COMPONENT: DISCH, PIPING TO	
DRAWING NO.: 15/M - 934 - 2	
COMPONENT IDENTIFICATION: 51- W249	PROCEDURE: NEPNo. 15.16 REVISION: Oria
	MAGNETIC PARTICLE: VISUAL:
EXAMINER: Jug Valorer EXAMINER: 2ran Ilonar	<u>ゴ</u> DATE: <u>// - 9 - 98</u> LEVEL
EXAMINER: <u>Irani Ikoman</u>	<u>ガ</u> DATE: <u>// 9 - 98</u> LEVEL
SKETCH TO PROVIDE: APPROXIMATE SIZE, LOCA PERCENTAGE OF REDUCE WCW = .625" THICKNESS = .438" SI-W249 A*X3" RED TEE SCANS 5, 7, AND 8 LIMITED DUE - SEE ABOVE SKETCH FO	REDUCED CODE COVERAGE: 15.5% REDUCED PROCEDURE COVERAGE: 40.5%.

INSERVICE INSPECTOR REVIEW:

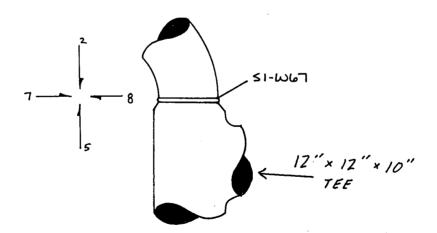
SAF	ETY INJECTION PUMPS	DICCH
SYSTEM OR COMPONENT: PIF	PING TO PEN 28N E	
DRAWING NO.: ISIM-934-	<u>a</u>	
COMPONENT IDENTIFICATION: _S	SI-HITA PROCEDURE:	VEPNO. 15.6 REVISION: DRIG.
ULTRASONIC: LIQUID PE		RTICLE: VISUAL:
EXAMINER: Irain 2km	asLEVEL	DATE: 10- 26- 98
EVANINED		
EXAMINER:	N A LEVEL	DATE: N A
SKETCH TO PROVIDE: APPROXIM PERCENT	MATE SIZE, LOCATION, ORIENTAT AGE OF REDUCED EXAMINATION	COVERAGE.
<u>SI-HI</u> 7A		<u>SI-H17</u>
		OK
	WELDED NAME PLATE LUES	0
	PLATE . 20" FRDM DN 2 LUGS	TDE DF
	ENTAGE OF REDUCED E RAGE = 1%	NOITAMINAX
KEWAUNEE NUCLEAR POWER PLANT REVIEW: Phi	elle C. Bukes	DATE: October 27, 1998
AUTHORIZED NUCLEAR INSERVICE INSPECTOR REVIEW:	Roza Mitjuin	DATE: /0-28-98

REV.: ORIG.

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

SI-FROM CUTAT DENIO TO REACTOR SYSTEM OR COMPONENT: FROM ACMTR 18 TO LOUP B COLO LEG			
DRAWING NO .: 151M - 938-1			
COMPONENT IDENTIFICATION: SI- אוניסיט	PROCEDURE:	NED No. 15:16 REVISION: Oris	
ULTRASONIC: X LIQUID PENETRANT: MAGNETIC PARTICLE: VISUAL:			
EXAMINER: Jell Dues	LEVEL	DATE: 11/06/98	
EXAMINER: Jug Shome	# LEVEL	_ DATE:	

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



NOTE: NO SCAN 5, SCAN 7 & B LIMITED TO WELD ! DOWN STREAM BASE METAL ONLY DUE TO O.D. TAPER OF TEE.

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

REWAUNEE NUCLEAR POWER PLANT REVIEW: Philip C. Bukes	DATE: November 7,1998
AUTHORIZED NUCLEAR INSERVICE INSPECTOR REVIEW: Roga Traffun	DATE: //-7-98

SYSTEM OR COMPONENT: REACTOR COOLANT FRO	om Pressurizer to Pressurizer relief tank
DRAWING NO .: 151M-940-1	
COMPONENT IDENTIFICATION: PR - WIDM	PROCEDURE: NEP Na 15.14 REVISION: Org
ULTRASONIC: X LIQUID PENETRANT:	
EXAMINER: Jell Duses	LEVEL DATE: 11/03/98
EXAMINER: Juy Whome	DATE:
SKETCH TO PROVIDE: APPROXIMATE SIZE, LOCA PERCENTAGE OF REDUCE	ATION, ORIENTATION, TYPE OF LIMITATION AND ED EXAMINATION COVERAGE.
NOTE: NO SCAN 5, SCAN 7 ! 8 LIMITED TO WELD AND UIS BASE METAL ONLY DUE TO 9/s MATERIAL. SCAN 2 LIMITED DUE TO 0.0. TAPER PERCENTAGE OF CODE/PROCEDURE LIMITATION: 5 ACTUAL PART THICKNESS: 1.2" CAL. BLOCK (WPS. 17) THICKNESS: 0.719" ADEIDUATE SCREEN RANGE ACHIEVEO UTILIZING 45° 1.D. ROLL AT 6.2 DIVISIONS.	(1) PR.WIDM + PR.WZLOM ARE TYPICAL OF ONE ANOTHER.
60° 1.3. ROLL AT B.1 DIVISIONS.	
KEWAUNEE NUCLEAR POWER PLANT REVIEW: Phillips C. Bus AUTHORIZED NUCLEAR INSERVICE INSPECTOR REVIEW: Property Pr	Res DATE: November 5, 1998
AUTHORIZED NUCLEAR INSERVICE INSPECTOR REVIEW. Roger 7	Information DATE: 11-6-98

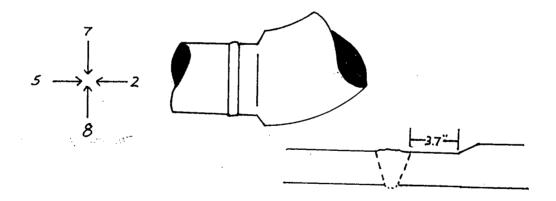
SYSTEM OR COMPONENT: REACTOR CONLAWT FED	M DEESSUEIZER TO PER	essulizer Relief Tank
DRAWING NO .: 151M-940-2		
COMPONENT IDENTIFICATION: PR-W26DM	PROCEDURE: NEO N	. 15.14 REVISION: 00 5
ULTRASONIC: X LIQUID PENETRANT:	MAGNETIC PARTICLE	:: VISUAL:
EXAMINER: Jell Junes	DAT	E: 11 03 98
EXAMINER: Jug Viliane	DATI	E: <u>//-03-98</u>
SKETCH TO PROVIDE: APPROXIMATE SIZE, LOCA PERCENTAGE OF REDUCE		
NOTE: NO SLAN 5, SLAN 7 ! 8 LIMITED TO WELD AND US BASE METAL ONLY DUE TO C/S MATERIAL. SCAN 2 LIMITED DUE TO O.O. TAPER US = UPSTREAM PRECENTAGE OF CODE/PROCEDURE LIMITATION: 50	OF ONE AN	PR·WZLOM ARE TYPICAL SOTHER.
ACTUAL PART THICKNESS: 1.2" CAL. BLOCK (WPS 17) THICKNESS: 0.719° ADECUATE SCREEN RANGE ACHIEVEO UTILIZIA 45° 1.D. ROLL AT 6.2 DIVISIONS. 60° 1.D. ROLL AT 8.1 DIVISIONS.	uc WPS-17	
KEWAUNEE NUCLEAR POWER PLANT REVIEW: Phillip C. Bu	kes	DATE: <i>November 5,</i> 1998
AUTHORIZED NUCLEAR INSERVICE INSPECTOR REVIEW: Royal	notium	DATE: _//-6-98

SYSTEM OR COMPONENT: REACTOR COCLANT-FROM PRESSURIZER TO PRESSURIZER DELIEF TANK.			
DRAWING NO.: 151M - 940 - 2			
COMPONENT IDENTIFICATION: PROCEDURE: NEP No. 15.16 REVISION: Ong			
ULTRASONIC: X LIQUID PENETRANT: MAGNETIC PARTICLE: VISUAL:			
EXAMINER: Jell Deves II DATE: 10/28/98 LEVEL			
EXAMINER: DATE: DATE: DATE:			
SKETCH TO PROVIDE: APPROXIMATE SIZE, LOCATION, ORIENTATION, TYPE OF LIMITATION AND PERCENTAGE OF REDUCED EXAMINATION COVERAGE.			
PERCENTAGE OF REDUCED EXAMINATION COVERAGE. Pe. WIT NOTE: NO SCAN 5; SCAN 7; 8 LIMITED DUE TO SAFE END TO ELGOW CONFIGURATION. PERCENTAGE OF LIMITATION DER PROCEDURE 49:82 PERCENTAGE OF LIMITATION DER CODE 51.820			
REWAUNEE NUCLEAR POWER PLANT REVIEW: Phillips C. Bukes DATE: October 39,1998			
AUTHORIZED NUCLEAR INSERVICE INSPECTOR REVIEW: Roya Material Date: 0-30-48			

TOUR TO EXAMINATION RECURD
CUC - FROM LOOP B OF PUMP SUCTION TO SYSTEM OR COMPONENT: REGENERATIVE HT. EXCH.
DRAWING NO.: ISIM-1474
COMPONENT IDENTIFICATION: LD-W95 PROCEDURE: NEP NO. 15. GREVISION: DR16.
ULTRASONIC: LIQUID PENETRANT: X MAGNETIC PARTICLE: VISUAL:
EXAMINER:
EXAMINER: DATE: DATE: N_ A
SKETCH TO PROVIDE: APPROXIMATE SIZE, LOCATION, ORIENTATION, TYPE OF LIMITATION AND PERCENTAGE OF REDUCED EXAMINATION COVERAGE.
LD-W9S RCUC-H32 LD-W8S
NOTE: NO EXAMINATION PERFORMED ON DOWNSTREAM BASEMETAL DUE TO RCUC-H32.
PERCENTAGE OF EXAM LIMITATION 27.8%
KEWAUNEE NUCLEAR POWER PLANT REVIEW: Phillip & Bukes DATE: October 30, 1998 AUTHORIZED NUCLEAR INSERVICE INSPECTOR REVIEW: Roam Marin DATE: 18-38-98

SYSTEM OR COMPONENT: REACTOR COOLANT PIPING LOOP A			
DRAWING NO.:		. • •	
COMPONENT IDENTIFICATION: RC - W.5	PROCEDURE: NEPNo. 15.13 REVISIO	ON:A	
ULTRASONIC: X LIQUID PENETRANT:	_ MAGNETIC PARTICLE: VISU	JAL:	
EXAMINER: Lend Paul	DATE:		

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



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

PERCENTAGE OF PROCEDURAL LIMITATION 4.6%

REWAUNEE NUCLEAR POWER PLANT REVIEW: Phillip C. Bukes	_ DATE: November 7, 1998
AUTHORIZED NUCLEAR INSERVICE INSPECTOR REVIEW: Roga Motion	DATE: 11-7-98

SYSTEM OR COMPONENT: REACTOR COOLANT PIPING LOOP A	
DRAWING NO.: ISIM-1703	
COMPONENT IDENTIFICATION: RC-W4BC PROCEDURE: NEP NO. 15.39 REVISION: ORIG.	
ULTRASONIC: X LIQUID PENETRANT: MAGNETIC PARTICLE: VISUAL: VISUAL:	
EXAMINER:	
EXAMINER: Jy Whom II DATE: 11-7-98 LEVEL	
SKETCH TO PROVIDE: APPROXIMATE SIZE, LOCATION, ORIENTATION, TYPE OF LIMITATION AND PERCENTAGE OF REDUCED EXAMINATION COVERAGE.	
RC PIPE HOT LEG RC-W4BC X NO SCAN 5 DUE TO BRANCH CONFIGURATION. X SCANS 76 8 LIMITED DUE TO BRANCH CONFIGURATION. PROCEDURE COVERAGE REDUCED BY LS %.	
AUTHORIZED NUCLEAR INSERVICE INSPECTOR REVIEW: Roan Instrum DATE: 11-9-98	
INSERVICE INSPECTOR REVIEW: Roan Months DATE: 11-9-98	