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Document Control Branch (Document Control Desk)

SUBJECT: Forwards response to 970417 RAI re 1995 inservice insp summary rept.Exam data sheets for each of exams limited by geometric, metallurgical or design/access restrictions, encl.

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NRC-97-62

#### WISCONSIN PUBLIC SERVICE CORPORATION

600 North Adams • P.O. Box 19002 • Green Bay, WI 54307-9002

June 16, 1997

U.S. Nuclear Regulatory Commission ATTN: Document Control Desk Washington, D.C. 20555

Ladies/Gentlemen:

Docket 50-305
Operating License DPR-43
Kewaunee Nuclear Power Plant
1995 Inservice Inspection Summary Report - Request for Additional Information

Reference:

- 1) Letter from ML Marchi (WPSC) to Document Control Desk (US NRC) dated August 11, 1995.
- 2) Letter from RJ Laufer (US NRC) to ML Marchi (WPSC) dated April 14, 1997.

By letter dated August 11, 1995, Wisconsin Public Service Corporation (WPSC) submitted the 1995 Inservice Inspection Summary Report for the Kewaunee Nuclear Power Plant (KNPP) to the Nuclear Regulatory Commission (NRC). On April 14, 1997, the NRC informed WPSC that the staff has performed a review of the 1995 Inservice Summary Report and that additional information is needed related to the augmented reactor vessel examination and to the examinations that were limited by geometric, metallurgical, or design/access restrictions.

WPSC's responses to each of the NRC's questions are provided in Attachment 1 to this letter. Attachment 2 to this letter includes a copy of the examination data sheets for each of the examinations that were limited by geometric, metallurgical, or design/access restrictions.

If you have any additional questions or require additional information please contact a member of my staff.

Sincerely,

M. L. Marchi

Manager-Nuclear Business Group

CAT Attach.

cc - US NRC - Region III

mxmarles

US NRC Senior Resident Inspector

A0471.

50-305

KEWAUNEE

**WPSC** 

RAI - 1995 INSERVICE INSPECTION SUMMARY

Rec'd w/ 1tr dtd 6/16/97.....9706240250

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#### **ATTACHMENT 1**

Letter from M. L. Marchi (WPSC)

To

Document Control Desk (NRC)

Dated

June 16, 1997

Response to NRC Request for Additional Information

Regarding the 1995 Inservice Inspection Summary Report

#### Request 1

The 1995 Inservice Inspection (ISI) Summary Report for the Kewaunee Nuclear Power Plant states that 10 CFR 50.55a(g)(6)(ii)(A) augmented examinations of the reactor vessel were performed. However, it is not clear from the report whether it was possible to examine essentially 100% of the length of all reactor vessel shell welds as described in the regulation. Clarification on the regulation was provided in NRC Information Notice (IN) 96-32, "Implementation of 10 CFR 50.55a(g)(6)(ii)(A), 'Augmented Examination of Reactor Vessel,' "dated June 5, 1996.

Taking into consideration the information provided in IN 96-32, please clarify whether essentially 100% of each reactor vessel shell weld was examined.

#### **WPSC** Response

The augmented examination specified in 10 CFR 50.55a(g)(6)(ii)(A) applies to reactor vessel shell welds specified in Item B1.10 of Examination Category B-A, "Pressure Retaining Welds in Reactor Vessel," in Table IWB-2500-1 of Subsection IWB of the 1989 Edition of Section XI, Division 1, of the ASME Boiler and Pressure Vessel Code. The KNPP reactor vessel contains two (2) circumferential shell welds that fall under Item B1.10 of Examination Category B-A. Both of these reactor vessel shell welds, RV-W2 and RV-W3, were examined during the 1995 refueling outage. A review of our inspection records indicate that 100% coverage was achieved during examination of both of these welds.

#### Request 2

The Examination Summary portion of the 1995 ISI Summary Report for the Kewaunee Nuclear Power Plant states that:

Examinations performed were intended to examine 100% of the required surface or volume. In some cases, examinations were limited by geometric, metallurgical, or design/access restrictions. In each case, the occurrence and cause of the limitation was documented. In all cases, the maximum amount achievable was examined.

In the cases where the examinations were limited, please identify the component, why the examination was limited, and whether or not a relief request was submitted to the NRC. Also, please indicate if there were any preservice indications that were not reexamined due to the limitations described above.

#### **WPSC** Response

Neither Section XI nor the Code of Federal Regulation provides adequate guidance regarding examination coverage. Information Notice 96-32 provides guidance for examination coverage for

the one time augmented examination of the reactor vessel. The KNPP Third Ten Year Inservice Inspection Plan, applicable from June 16, 1994 thru June 16, 2004, invoked ASME Boiler and Pressure Vessel Code Case N-460 which is endorsed by Regulatory Guide 1.147. This Code Case establishes a minimum value of 90% coverage for examination of Class 1 and 2 welds. However, no guidance exists for examination coverage for visual inspections, surface examinations, or ultrasonic examination of non-welded components. KNPP's approach to implementing Section XI examinations is to conduct the best examination possible. To this end, the entire accessible portion of the examination boundary is examined by visual, surface, and/or volumetric methods.

For ultrasonic examination of pipe welds, Section XI only requires, as a minimum, the use of a 45° transducer and scanning from one side of the weld. WPSC has elected to augment these ultrasonic examinations. At KNPP, Class 1 and 2 pipe welds (excluding the cast stainless steel reactor coolant piping) are examined using 0°, 45°, and 60° transducers from both sides of the weld, if accessible. The cast stainless steel reactor coolant pipe welds are examined by using 0° and 41° transducers from both sides of the weld, if accessible. For ultrasonic examination of class 1 and 2 vessels, KNPP conducts each examination using 0°, 45°, and 60° transducers which satisfies the Code rules. The above description of how examinations are conducted at KNPP is necessary for understanding the data on the ISI limitations encountered at KNPP. To help interpret the data, the limitations are presented in four separate groups:

- 1) Surface examinations where the examination coverage is less than 100%,
- 2) Volumetric examinations for Class 1 and 2 vessels where the examination coverage is less than 100%,
- 3) Class 1 and 2 pipe welds where the examination coverage based on performing scans using 0°, 45°, and 60° transducers is less than 100%, and
- 4) Other examinations where the examination coverage is less than 100%.

It should be recognized that the numerical value representing the extent of limitation encountered for ultrasonic examination of the Class 1 and 2 pipe welds cannot be directly compared to the magnitude of limitation that would have been encountered had the examination only been performed using a 45° transducer from one side of the weld, especially if performed from only one side of the weld. The KNPP extent of limitation is based on an internal procedural requirement to perform two perpendicular and two parallel scans using 0°, 45°, and 60° transducers, resulting in a potential for 12 individual examinations. The method used at KNPP to calculate examination volume for the Class 1 and 2 welds subtracts the volume of weld not examined from each of these 12 potential scans from the total available weld volume, rather than adding the additional volume examined with the augmented scans to the volume achieved from the Code required 45° scan. Thus, for a case when 100% of a weld volume is ultrasonically examined from one or both sides of a pipe weld using a 45° transducer, thereby satisfying the minimum goal of achieving greater than 90% coverage; there still might be a limitation reported in the table below because less than 90% of the total calculated

volume may have been examined due to limitations encountered with the 0° and 60° transducers. In another case the ability to scan from only one side of the weld would be reported as a 25% limitation (completion of a perpendicular scan and two parallel scans with each transducer), even though 100% of the volume was examined 9 times. The ISI data sheets do not have the detailed information to convert the percent coverage based on scanning with 0°, 45°, and 60° transducers to a percent coverage based on scanning with only a 45° transducer. This approach (i.e., using 0°, 45°, and 60° transducers) for ultrasonic examination of the Class 1 and 2 pipe welds ensures that a maximum amount of weld volume is always examined.

Details regarding these limitations can be found on the examination data sheets which are located in Attachment 2. A review of the preservice and inservice inspection reports confirms that indications have not been found in these examination areas.

	Summary of Limitations for 1995 Inservice Inspection				
Item/ Group	Component Identification	Method of Examination	% Recorded As Not Examined and Limitation	Relief Request Submitted	
1-1	Integrally Welded Attachment AHRS1- SW1 to Residual Heat Exchanger AHRS1- 1A	PT	20.7%. Support Leg	No	
2-1	Integrally Welded Attachments APSI- 1A-S1 and APSI-1A- S4 to Safety Injection Pump APSI-1A	MT	14.6% each. Support Configuration	No	
3-1	Integrally Welded Attachment APSI-1B- S2 to Safety Injection Pump APSI-1B	MT	14.6%. Support Configuration	No	
4-1	Circumferential Weld PS-W34 on 3" dia Pipe from Reactor Coolant to Pressurizer	PT	37%. Whip Restraint	No	

	Summary of Limitations for 1995 Inservice Inspection				
Item/ Group	Component Identification	Method of Examination	% Recorded As Not Examined and Limitation	Relief Request Submitted	
5-1	Circumferential Weld PS-W3 on 3" dia Pipe from Reactor Coolant to Pressurizer	PT	27%. Branch Connection	No	
6-1	Circumferential Weld PS-W10 on 3" dia Pipe from Reactor Coolant to Pressurizer	PT	36%. Hanger Support	No	
7-1	Integrally Welded Attachment SI-H17A to Safety Injection Pump Discharge	PT	90%. Welded Name Plate and Shim	No	
8-1	Circumferential Weld FW-W53 on 16" dia Feedwater Pipe	MT	9%. Auxiliary Feedwater Line	No	
9-1	Circumferential Weld PR-W12 on 3" dia Reactor Coolant from Pressurizer	PT	74%. Whip Restraint	No	
9-2	Circumferential Weld P-W3 on Pressurizer	UT	Less than 2%. 3" diameter ground area 0.2" deep and four (4) welded lugs	No	
10-2	Circumferential Weld P-W5 on Pressurizer	UT	Less than 2%. Two (2) instrumentation lines and four (4) welded lugs	No	
11-2	Circumferential Weld AHRSI-W1 on Residual Heat Exchanger AHRSI-1A	UT	77%. Inlet and Outlet Nozzles, Welded Support, and Flange Configuration	No	

	Summary of Limitations for 1995 Inservice Inspection				
Item/ Group	Component Identification	Method of Examination	% Recorded As Not Examined and Limitation	Relief Request Submitted	
12-2	Circumferential Weld APD-1A-W1 to Charging Pump Pulsation Dampener APD-1A	UT	9%. Welded Name Plate	No	
13-2	Circumferential Welds on Pulsation Dampener S/N GHI 1846	UT	9%. Welded Name Plate	No	
14-2	Reactor Vessel Loop A Outlet Nozzle to Vessel Weld RV-W7	UT	Perpendicular 2.84% Tangent 56.76% Nozzle Boss Radius and Nozzle Boss	No	
15-2	Reactor Vessel Loop B Outlet Nozzle to Vessel Weld RV-W10	UT	Perpendicular 2.84% Tangent 56.76% Nozzle Boss Radius and Nozzle Boss	No	
16-2	Reactor Vessel Closure Head Flange Weld RV-W12	UT	12% (KNPP Calc.). Lifting Lug: Flange Configuration	No	
17-3	Circumferential Weld SI-W234 on 3" dia Safety Injection Pump Discharge Line	UT	20%. Elbow Intrados	No	
18-3	Circumferential Weld SI-W262 on 3" dia Safety Injection Pump Discharge Line	UT	20%. Elbow Intrados	No	
19-3	Circumferential Weld SI-W120 on 12" dia Safety Injection from Accumulator 1A	UT	50%. Valve to Pipe Configuration	No	

	Summary of Limitations for 1995 Inservice Inspection				
Item/ Group	Component Identification	Method of Examination	% Recorded As Not Examined and Limitation	Relief Request Submitted	
20-3	Circumferential Weld SI-W123 on on 12" dia Safety Injection from Accumulator 1A	UT	50%. Elbow to Branch Configuration	No	
21-3	Circumferential Weld RHR-W188 on 10" dia Safety Injection Line from Cntmt. Pen. 10	UT	49.8%. Tee Configuration	No	
22-3	Circumferential Weld SI-W13 on 6" dia Safety Injection Line from Cntmt. Pen. 48	UT	37.5%. Valve Body	No	
23-3	Circumferential Weld SI-W14 on 6" dia Safety Injection Line from Cntmt. Pen. 48	UT	6.5%. Socket	No	
24-3	Circumferential Weld PR-W2 on 6" dia Reactor Coolant from Pressurizer	UT	61.3%. Nozzle Configuration	No	
25-3	Circumferential Weld RHR-W33 on 8" dia Residual Heat Removal Line from RC Loops A and B	UT	62.5%. Valve Body	No	
26-3	Circumferential Weld FW-W29 on 16" dia Feedwater Line	UT	15%. Nozzle Taper	No	
27-3	Circumferential Weld FW-W53 on 16" dia Feedwater Line	UT	11%. Auxiliary Feedwater Line	No	

	Summary of Limitations for 1995 Inservice Inspection				
Item/ Group	Component Identification	Method of Examination	% Recorded As Not Examined and Limitation	Relief Request Submitted	
28-3	Branch Connection Weld RC-W23BC on Loop A RC Pipe	UT	100%. Branch Nozzle Configuration	No	
29-3	Circumferential Weld FW-W57 on 16" dia Feedwater Line	UT	8.8%. Nozzle Configuration	No	
30-3	Circumferential Weld MS-W3 on 30" dia 1A Main Steam Line	UT	37% (KNPP Calc.). Reducing Elbow OD Taper	No	
32-4	RCP-1A Flange Bolts RCP-B1 to RCP-B8	UT	7.3%. Bolt Configuration	No	

The process for conducting Section XI examinations at KNPP deals with these limitations as follows. Each limitation is considered on a case by case basis and is informally reviewed by the KNPP staff and Authorized Nuclear Inservice Inspector to determine if additional activities (i.e., base material scans, development and use of new ultrasonic techniques, etc.) can and should be initiated to improve the quality of the examination. After each limitation is evaluated and other options are pursued, as appropriate, to improve the quality of the examination, KNPP will classify each examination as acceptable or not acceptable based in part on satisfying the 90% examination volume criteria. For the credited examinations that are classified as not acceptable, a relief request will be generated and submitted to the NRC. WPSC would submit such a relief request within one year after completion of the ten-year inservice examination interval.

#### Request 3

Please clarify whether all of the examinations for the sample weld population were completed.

#### **WPSC** Response

The weld population at KNPP is defined in terms of an inspection period and interval which generally consists of a 40 month and 10 year duration, respectively. Inservice inspections were performed during the 1995 refueling outage to complete the 3rd period, 2nd Interval Code requirements and to satisfy the requirements of the 1st period of the 3rd Interval. The 2nd 10 year interval was extended by one year to permit 100% examination of the reactor vessel to be performed

in 1995 which eliminated the need to examine the reactor vessel using the automated equipment twice within a 40 month duration. Thus, the 2nd interval ran from June 16, 1984 thru June 16, 1995. For the 2nd Interval, taking into account that some of the originally scheduled welds were not examined for various reasons while other welds within the same category were substituted and examined in their place, the sample weld population was satisfied in terms of percent welds examined. Any examinations conducted during the 1995 refueling outage were credited to only one period/interval.

The 1st period of the 3rd Interval runs from June 16, 1994 thru October 16, 1997. Thus, an account of the sample weld population completed during the 1995 refueling outage by itself has little significance. A review of our inspection records after having completed inservice inspections during the 1996/97 refueling outage that finished the 1st period, taking into account that some of the originally scheduled welds were not examined for various reasons while other welds within the same category were substituted and examined in their place, indicates that the sample weld population was satisfied for the 1st period of the 3rd Interval in terms of percent welds examined.

#### **ATTACHMENT 2**

Letter from M. L. Marchi (WPSC)

To

Document Control Desk (NRC)

Dated

June 16, 1997

NDE Data Sheets for Examinations Limited by

Geometric, Metallurgical, or Design/Access Restrictions

Residual Heat Exchangers SYSTEM OR COMPONENT: AHRS1-1A AND AHRS2-1B DRAWING NO.: M-1207			
COMPONENT IDENTIFICATION: AHRS1 _ Sw1 PROCEDURE: QCP-961 REVISION: ORIG.			
ULTRASONIC: LIQUID PENETRANT:X_ MAGNETIC PARTICLE: VISUAL:			
EXAMINER: NA BY LEVEL DATE: 4.25.95			
EXAMINER: NA DATE: NA LEVEL			
SKETCH TO PROVIDE: APPROXIMATE SIZE, LOCATION, ORIENTATION, TYPE OF LIMITATION AND PERCENTAGE OF REDUCED EXAMINATION COVERAGE.			
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PERCENTAGE OF REDUCED  EXAMINATION COVERAGE = 20.7%  EXAMINATION COVERAGE = 20.7%  WELL			
KEWAUNEE NUCLEAR POWER PLANT REVIEW: S. A. Balstad DATE: 4/27/95  AUTHORIZED NUCLEAR INSERVICE INSPECTOR REVIEW: Rogn Truf.  DATE: 4/27/95			

SAFETY INJECTION PUMPS
SYSTEM OR COMPONENT: APSI-1A AND APSI-18 DRAWING NO.: M-1707  APSI-18-52
COMPONENT IDENTIFICATION: APSI-14-51 PROCEDURE: QCP-902 REVISION: ORIG
ULTRASONIC: LIQUID PENETRANT: MAGNETIC PARTICLE: VISUAL:
EXAMINER: DATE: 4-22-95  LEVEL
EXAMINER: MAN 1309 DATE: 4-22-95
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SKETCH TO PROVIDE: APPROXIMATE SIZE, LOCATION, ORIENTATION, TYPE OF LIMITATION AND PERCENTAGE OF REDUCED EXAMINATION COVERAGE.
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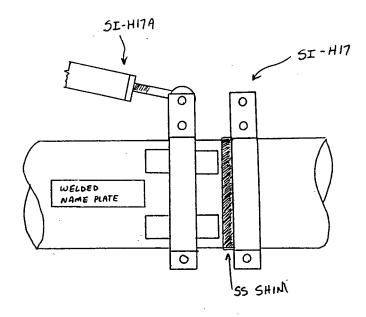
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SYSTEM OR COMPONENT: 3" RC. TO Pressurizer DRAWING NO.: ISIM - 874-1  COMPONENT IDENTIFICATION: PS_W34 PROCEDURE: QCP-901 REVISION: ORIG.  ULTRASONIC: LIQUID PENETRANT: X MAGNETIC PARTICLE: VISUAL:  EXAMINER: NA. Bol. II DATE: 4 - 14 - 15  LEVEL  EXAMINER: DATE: 4 - 14 - 95  LEVEL			
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KEWAUNEE NUCLEAR.  POWER PLANT REVIEW:  A. Balstan DATE: 4/15/95  AUTHORIZED NUCLEAR  DATE: 4/15/95			
INSERVICE INSPECTOR REVIEW: Koga Profes DATE: 4/18/95			

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v	TT DATE: 4-13-95
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	Page 2 of 2
KEWAUNEE NUCLEAR POWER PLANT REVIEW: Since A Company of the Compan	DATE: 4/15/95  DATE: 4/16/95

SYSTEM OR COMPONENT: PIPING TO PEN 28 N	
COMPONENT IDENTIFICATION: SI-H17A	PROCEDURE: <u>QCP-901</u> REVISION: <u>ORIG</u>
ULTRASCNIC: LIQUID PENETRANT: _X	MAGNETIC PARTICLE: VISUAL:
EXAMINER: MA. Bog.	T DATE: 4-18-95  LEVEL  DATE: 4-18-95  LEVEL

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

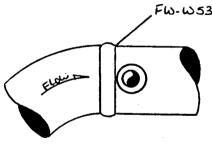


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- STAINLESS STEEL SHIM @ TOE OF WELD ON 4 LUGS

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KEWAUNEE NUCLEAR POWER PLANT REVIEW:	A	Balstal	_ DATE:_	4/18/95
AUTHORIZED NUCLEAR INSERVICE INSPECTOR REVIEW: _	Roga	Motion	DATE:	4/19/95
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COMPONENT IDENTIFICATION: FW-W53 PROCEDURE: QCP-902REVISION: Del6					
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EXAM LIMITED TO WELD ! UPSTREAM BASE METAL ONLY
FROM 37.0" TO 42.0" CW. DUE TO AUX. FEEDWATER TIE-IN.

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AUTHORIZED NUCLEAR INSERVICE INSPECTOR REVIEW:	Motion	DATE: 4/9/95

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COMPONENT IDENTIFICATION: PR-WIZ	PROCEDURE:QCP-961 REVISION: ORIG.	_
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PR-WIL	Percentage of Reduced  Examination Coverage = 71	4%
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AUTHORIZED NUCLEAR INSERVICE INSPECTOR REVIEW:	2 DATE: 4/19/95	

SYSTEM OR COMPONENT: PRESSURIZER	DRAWING NO.: 14 - 1200
COMPONENT IDENTIFICATION: P- W3	PROCEDURE: (202) 904 REVISION: ORTE
ULTRASONIC: X LIQUID PENETRANT:	MAGNETIC PARTICLE: VISUAL:
EXAMINER: Jeffy W. John	DATE: 4-13-75 4/9-95 LEVEL
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AUTHORIZED NUCLEAR INSERVICE INSPECTOR REVIEW:	DATE: 4/24/95.

SYSTEM OR COMPONENT: PRESSURIZER	DRAWING NO.: M - 1200
COMPONENT IDENTIFICATION: P-W5	PROCEDURE: <u>ACP-904</u> REVISION: <u>ORTG</u>
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VERICED EXAMINATE	ON COURTAGE LESS THAN IN
	$c\omega$
	P-W5 53" - UIG D' LUG 21/2 x 3/4 3" Typ of
1//////////////////////////////////////	1//////////////////////////////////////
95"	— 73% ————————————————————————————————————
	1 - 1 - 3 / 2 / 2
[ INSTRUMENTATION !	KINES MY
	•
·	
POWER PLANT REVIEW: Philips C. Bu	kes DATE: april 23, 1995
AUTHORIZED NUCLEAR INSERVICE INSPECTOR REVIEW:	DATE: 4/24/45  DATE: 4/24/45

VISUAL EXAMINATION LIMITATION TO EXAMINATION RECORD			
RESIDUAL HEAT EXCHANGERS  SYSTEM OR COMPONENT: AHRS1-1A AND AHRS2-1B DRAWING NO.: M-1207			
COMPONENT IDENTIFICATION: AHRS1 . W1 PROCEDURE: QCP-911 REVISION: ORIG.			
ULTRASONIC: X LIQUID PENETRANT: MAGNETIC PARTICLE: VISUAL:			
EXAMINER: NAN. BY DATE: 4-25-95 LEVEL			
EXAMINER: NA NA DATE: NA LEVEL			
SKETCH TO PROVIDE: APPROXIMATE SIZE, LOCATION, ORIENTATION, TYPE OF LIMITATION AND PERCENTAGE OF REDUCED EXAMINATION COVERAGE.			
PEHCENTAGE OF HEDUCED EXAMINATION COVERAGE.  FLANGE  144.15'CW  150  150  150  150  150  150  150  15			
REWAUNEE NUCLEAR POWER PLANT REVIEW: Sind A. Balatad DATE: 4/27/95			
AUTHORIZED NUCLEAR INSERVICE INSPECTOR REVIEW: Roge Motion DATE: 4/24/75			

RESIDUAL HEAT EXCHANGERS  SYSTEM OR COMPONENT: AHRS1-1A AND AHRS2-1B DRAWING NO.: M-1207			
_	NTIFICATION: AHRS 1 - W.1.		
ULTRASONIC:X	LIQUID PENETRANT:	_ MAGNETIC PARTI	CLE: VISUAL:
EXAMINER:	NJA. BY	LEVEL C	DATE: 4-25-95
EXAMINER:	NA	LEVEL	DATE: NA
SKETCH TO PROV	/IDE: APPROXIMATE SIZE, LOCA PERCENTAGE OF REDUC		
FLANGE CONFIGURE LIMITS SITES HIS SAND GO'S SCAN.  INLET AND OUTLE LIMIT 21748 SCAN.  US'S AND GO'S SCAN.	STATION SCAN FOR AND O° AND O° AND OR AND OR	69.86cw	Weld AHRSI-WI  OUTLET  HRSI-SW 2  WELD: Support  AHREI -SW 2 Limits  2,748 FOR 45°S AND  60°S AND 0° SCAN.  PERCENTAGE OF REDUCED  EXAMINATION COVERAGE.  77%  Sheet 1 OF 3
KEWAUNEE NUC	CLEAR REVIEW: Ein A. Bo	0.00	DATE: 4/27/95
AUTHORIZED NU		Miljuin	DATE: 4/27/95

SYSTEM OR COMPONENT: DAMBENER SIN GHI 1848 DRAWING NO .: M-1210	_
COMPONENT IDENTIFICATION: APO -1A - WI PROCEDURE: QCP-911 REVISION: URIG	_
ULTRASONIC: X LIQUID PENETRANT: MAGNETIC PARTICLE: VISUAL:	
EXAMINER: Johl P. Blf LEVEL DATE: 4.3-85	<del>-</del>
EXAMINER: DATE: 04/03/55  LEVEL  DATE: 04/03/55	<del></del>
SKETCH TO PROVIDE: APPROXIMATE SIZE, LOCATION, ORIENTATION, TYPE OF LIMITATION AND PERCENTAGE OF REDUCED EXAMINATION COVERAGE.  Welden Name Plate Located Affrontinate	
Scan  Scan  Scan  Welded Name Plate Located affraitmate  Jam's From Couterline af each weld.  Walded Name Plate Limits 00 Li 45°5, 4  Land Loo's.  Percentable of Reduced Coverable  Educis: Procedure: 15°40  RSME Code: 4°40  Name Plate  J.  Battom Weld  Battom Weld  Battom Weld  Battom Weld	5°L
* WELD LOCATION PAR VENDOR (GREER HYDRAULICS) INFORMATION RECEIVED FEDRUARY 24,1995.  KEWAUNEE NUCLEAR POWER PLANT REVIEW: A. A. B. L. D. DATE: 4/5/95	
POWER PLANT REVIEW:	_

SPare Charbing Pump Pulsation SYSTEM OR COMPONENT: Dampever SIN GH 1 1846 DRAWING NO.: M-1210		
COMPONENT IDENTIFICATION: Tot weld: Bottom Weld PROCEDURE: QCP 911 REVISION: ORIG.		
ULTRASONIC: LIQUID PENETRANT: MAGNETIC PARTICLE: VISUAL:		
EXAMINER: Philips C. Bukes II DATE: Feb. 3, 24, 1995  LEVEL  EXAMINER: James ERettmann III DATE: Jan 19324, 1995  LEVEL		
SKETCH TO PROVIDE: APPROXIMATE SIZE, LOCATION, ORIENTATION, TYPE OF LIMITATION AND PERCENTAGE OF REDUCED EXAMINATION COVERAGE.		
Scan  Scan		
* WELD LOCATION PER VENDOR (GREER HYDRAULICS) INFORMATION RECEIVED FEDRUARY 24.1995.		
KEWAUNEE NUCLEAR POWER PLANT REVIEW:  AUTHORIZED NUCLEAR INSERVICE INSPECTOR REVIEW:  Magnum Date: 2/28/95		

Wisconsin Public Service Corporation Kewaunee Nuclear Power Plant 1st Outage; 1st Period; 3rd Interval Automated Reactor Vessel Tool Examination Coverage

Program Item	Weld Number	Description	Direction	% Coverage	Limitations
2	RV-W7	Loop A Outlet Nozzle to Vessel Weld	Perpendicular Tangential		Nozzle Boss Radius Nozzle Boss
3	RV-W10	Loop B Outlet Nozzle to Vessel Weld	Perpendicular Tangential		Nozzle Boss Rádius Nozzle Boss
4	RV-IR7	Loop A Outlet Nozzle Inside Radius Section	Circumferential	100.00%	
5	RV-IR10	Loop B Outlet Nozzle Inside Radius Section	Circumferential	100.00%	
6 ·	RC-W1DM	Loop A Reactor Coolant Pipe Outlet Nozzle to Safe End	Parallel Perpendicular	100.00% 100.00%	i e
7	RC-W30DM	Loop B Reactor Coolant Pipe Outlet Nozzle to Safe End	Parallel Perpendicular	100.00% 100.00%	[

SYSTEM OR COMPONENT: AND CONTROL ROD DRIVE	HEAD FLONGE E MECHANISM DRAWING NO.: M- 1198
COMPONENT IDENTIFICATION: <u>RV · ω / J</u>	PROCEDURE: QCP 90-1 REVISION: ORIG.
ULTRASONIC: X LIQUID PENETRANT:	MAGNETIC PARTICLE: VISUAL:
EXAMINER: John My John	DATE: 4-11-95
EXAMINER: Much / Mon	DATE: 4-11-95 LEVEL
SKETCH TO PROVIDE: APPROXIMATE SIZE, LOCA PERCENTAGE OF REDUCE	ATION, ORIENTATION, TYPE OF LIMITATION AND ED EXAMINATION COVERAGE.
REACTA	OR VESSLE HEAD
STUD=17  FLANGE	STUD #1  STUD #1  LIFTING LUG AT 88" CW FROM  3" FROM WELD & GIN AND DIDNOT INTERFERE WITH THE
KEWAUNEE NUCLEAR POWER PLANT REVIEW: S. A. B. AUTHORIZED NUCLEAR INSERVICE INSPECTOR REVIEW:	DATE: 4/13/95  DATE: 4/14/95

SYSTEM OR CO	SAFETY INJECTION HAD MPONENT: <u>DISCURRECE 7 HAG FROM</u>	PED. 28E ! ZWITE	DRAWING NO.: 151M - 934-1
COMPONENT I	DENTIFICATION: <u>St-6234</u>	PROCEDU	RE: QCP -911 REVISION: ORIG
ULTRASONIC: _	X LIQUID PENETRANT:	MAGNETIC PA	ARTICLE: VISUAL:
EXAMINER:	July 1. Blef	I EVEL	_ DATE: 4-22-55
EXAMINER:			DATE: NA
		LEVEL	
SKETCH TO PF	ROVIDE: APPROXIMATE SIZE, LOC PERCENTAGE OF REDUC		
	45° SHEAR AND 60° SHE 6" TO 10" ON INTRA OF ELBOW.		UNITED CONTACT FLOM  W DUE TO CURVATURE
	45° SHEAR	- 2090 lease	ED EXAM. LOJERACE
	60° SHEAR -	- 2070 Reas	CED ELAM. COUERAGE.
	S1-W234 251AN	INTERPOZE	OF ELACL
	FLOW		PAGE 1 OF 2
KEWAUNEE N POWER PLAN		Buken	DATE: april 24,1995
AUTHORIZED INSERVICE IN	NUCLEAR ISPECTOR REVIEW:	Motion	DATE: 4/25/85

			<del></del>	
SYSTEM OR CO	SAFETY INJECTION PUMPS MPONENT: DISCHARGE PAROU TO PEN	s 28N ; RWST D	RAWING N	Q.: <u>ISIM - 934-2</u>
COMPONENT IDENTIFICATION: 51 - 4262		PROCEDUP	RE: <u>QCP - 9</u>	REVISION: Olic
ULTRASONIC: _	X LIQUID PENETRANT:	MAGNETIC PAI	RTICLE:	VISUAL:
EXAMINER:	Jodel P. Blif	LEVEL	_ DATE: _	4-22-95
EXAMINER:	NA	LEVEL	_ DATE: _	NA
SKETCH TO PR	OVIDE: APPROXIMATE SIZE, LOC PERCENTAGE OF REDUC			
·				
	45° SHEAR AND 60° CONTACT FROM 6"TO 1	0" on luterbose		
	• • • • •	2090 REDUCE 2090 REDUCE		
	S1-W262 251AW	INTEADOSE &	s⊂ Elhow	
	FLDW			PAGE 1 0 = 2
KEWAUNEE NU POWER PLANT AUTHORIZED I	REVIEW: <u>Thelip C. 10</u> NUCLEAR	Tukes		DATE: 4/25/95
I INSERVICE INS	SPECTOR REVIEW: Fram /	Thy ven		DATE: 4/25/75

SYSTEM OR COMPONENT: SI FROM ACCUMULATOR IA	TO LOOPA COOLEG DRAWING NO .: 151 M-935
COMPONENT IDENTIFICATION: SI- WIZO	PROCEDURE: QCP-911 REVISION: 026
ULTRASONIC: X LIQUID PENETRANT:	MAGNETIC PARTICLE: VISUAL:
$\mathcal{W}$	14 DATE: 4-22-55
EXAMINER: Jan Thom	エ DATE: <u>५-22-95</u> LEVEL
SKETCH TO PROVIDE: APPROXIMATE SIZE, LOC PERCENTAGE OF REDUC	ATION, ORIENTATION, TYPE OF LIMITATION AND ED EXAMINATION COVERAGE.
51-22A	51 - 6120
COVERAGE NOT OBTAINED - 50%	· ·
NO SCAN'S' DUE TO VALUE TO PIP	E CONFIDURATION.
SCAN '?' !'8' LIMITED TO WEL	•
ONLY DOE TO VALUE TO DIDE  DO SCALL ALSO LIMITED TO WELL  ONLY, DOE TO VALUE TO DIDE	ALLO NOWNSTREAM BASE METAL
	4 of 5
KEWAUNEE NUCLEAR POWER PLANT REVIEW: Phillip C.  AUTHORIZED NUCLEAR INSERVICE INSPECTOR REVIEW: Roger	Bukes DATE: April 25, 1998 Mfan DATE: 4/25/95

SYSTEM OR COMPONENT: SI CROW ACCOMPLATOR 14 TO LOGP A COREGED PRAWING NO .: 151M-935

COMPONENT IDENTIFICATION: SI- WIZ 3 PROCEDURE: QLD GII REVISION: 6216
ULTRASONIC:X LIQUID PENETRANT: MAGNETIC PARTICLE: VISUAL:
EXAMINER: DATE:
EXAMINER:
SKETCH TO PROVIDE: APPROXIMATE SIZE, LOCATION, ORIENTATION, TYPE OF LIMITATION AND PERCENTAGE OF REDUCED EXAMINATION COVERAGE.
S1 - w.23
Flow
CONERAGE NOT OBTAINED - 50%  NO SCAN '2' DUE TO ELBOW TO BRANCH CONDECTION CONFIDERTION.  SCAN '7' ! 'B' LIMITED TO WELD AND UPSTREAM BASE METAL  ONLY DUE TO ELBOW TO BRANCH CONDECTION CONFIGURATION.
DO SCALL ALSO LIMITED TO WELD AND WOSTLEAM BASE METAL DUE TO ELBUW TO BLANCH LONDELTION CONCLUDENTION.
5 of 5
KEWAUNEE NUCLEAR POWER PLANT REVIEW: Phillips C. Bukes  DATE: April 34,1995  AUTHORIZED NUCLEAR
INSERVICE INSPECTOR REVIEW: Koza Mafair DATE: 4/25/95

SI. FROM CHT MT Pen: 10 TO ReactOR SYSTEM OR COMPONENT: FROM ACMTR 1B TO LOOP B COLL Leg. DRAWING NO.: 151M -938-25H1		
COMPONENT IDENTIFICATION: RHR-W 188	PROCEDURE: QCP 911 REVISION: ORIG.	
ULTRASONIC: X LIQUID PENETRANT:	MAGNETIC PARTICLE: VISUAL:	
EXAMINER: NAA. 1309	DATE: 4-10-95	
EXAMINER: NA	NA DATE: NA LEVEL	
SKETCH TO PROVIDE: APPROXIMATE SIZE, LOCA PERCENTAGE OF REDUCE	ATION, ORIENTATION, TYPE OF LIMITATION AND ED EXAMINATION COVERAGE.	
Pipe 2 Side	Weld SSIDE	
Tee Configuration L 45°S, 60°S And 45	imited 0° Scan And 5 Scan For	
Percentage of Redu	iced Examination Coverage = 49.8%	
,		
	Page 2 of 3	
KEWAUNEE NUCLEAR POWER PLANT REVIEW: AUTHORIZED NUCLEAR	5-1	
INSERVICE INSPECTOR REVIEW:	DATE: 4/12/55	

SYSTEM OR COMPONENT: CNIMT PEN 48 TO REACTOR DRAWING NO.: ISIM - 939 SHIFZ
COMPONENT IDENTIFICATION: SI-W 13 PROCEDURE: QCR911 REVISION: ORIG
ULTRASONIC: X LIQUID PENETRANT: MAGNETIC PARTICLE: VISUAL:
EXAMINER: NAA. 134 II DATE: 4-8-95 LEVEL
EXAMINER: DATE: 4-8-95 LEVEL
SKETCH TO PROVIDE: APPROXIMATE SIZE, LOCATION, ORIENTATION, TYPE OF LIMITATION AND PERCENTAGE OF REDUCED EXAMINATION COVERAGE.
2 SCAN 5 SCAN
VALVE BODY
VALUE BODY LIMITED 5,7 & SCANS FOR 45%, 45°RL
60°S & D° PERCENTAGE OF REDULED EXAMINATION
COVERAGE : 62.5%
Pg 3 of 4
KEWAUNEE NUCLEAR POWER PLANT REVIEW: E A Balaba DATE: 4/12/95
AUTHORIZED NUCLEAR INSERVICE INSPECTOR REVIEW: Home Date: 4/12/95

SAFETY INJECTION FROM  SYSTEM OR COMPONENT: <u>CNIMT PEN 48 TO REACTOR</u> DRAWING NO.: <u>ISIM</u> -939 SH 1 2
COMPONENT IDENTIFICATION: SI-WIH PROCEDURE: OCP-911 REVISION: ORIG
ULTRASONIC: X LIQUID PENETRANT: MAGNETIC PARTICLE: VISUAL:
EXAMINER: N.LA. 13.9 II DATE: 4-8-95 LEVEL
EXAMINER: Jan P. W. II DATE: 4-8-95 LEVEL
SKETCH TO PROVIDE: APPROXIMATE SIZE, LOCATION, ORIENTATION, TYPE OF LIMITATION AND PERCENTAGE OF REDUCED EXAMINATION COVERAGE.
251DE SSIDE
2.2"
WC 1.3"  SOCKET
SOCKET @ 8.3" TO ID.S" . 8" FROM TOE OF WELD
LIMITED SCANS 5 FOR THE 45°s, 45°RL & 60°S
PERCENTAGE OF REDUCED EXAMINATION COUERAGE = 93.5%
Pg 4 of 4
KEWAUNEE NUCLEAR POWER PLANT REVIEW: En A. Balila DATE: 4/12/95
AUTHORIZED NUCLEAR INSERVICE INSPECTOR REVIEW: 2007 DATE: 4/12/95

SYSTEM OR COM	Reactor CoolanT-FR PONENT: <u>to Pressurizer</u>	com Pressurizer Relief TANK D	RAWING NO .: ISIM - 940-1
COMPONENT IDE	COMPONENT IDENTIFICATION: PR-W2 PROCEDURE: QCP-911 REVISION: OREG.		
ULTRASONIC:	LIQUID PENETRANT: _	MAGNETIC PA	RTICLE: VISUAL:
EXAMINER:	la By	 LEVEL	DATE: 4-15-9-5
EXAMINER:	. NA	N A LEVEL	DATE: NA
SKETCH TO PROVIDE: APPROXIMATE SIZE, LOCATION, ORIENTATION, TYPE OF LIMITATION AND PERCENTAGE OF REDUCED EXAMINATION COVERAGE.			
			j.
·	Nozzle S:DE 5 5:12	F Low Work	J 2:96 ETBOM 2:96
		94	
	For 45° And Co	Shear AND 45	ion Coucrase = 61.3%
	·		Page 3 of 3
AUTHORIZED NU	REVIEW: A:	7.4	DATE: <u>4/18/9.5</u> DATE: <u>4/18/9.5</u>

RHR FROM RC. LOOPS A4B HOT LEG. TO SYSTEM OR COMPONENT: CNIMT Pen. 9410 TO CNIMT SUMP B DRAWING NO .: 151M - 957-15H.1
COMPONENT IDENTIFICATION: RHR-W33 PROCEDURE: QCP 911 REVISION: ORIG.
ULTRASONIC: X LIQUID PENETRANT: MAGNETIC PARTICLE: VISUAL:
EXAMINER: 11 DATE: 4-8-95 LEVEL
EXAMINER: DATE: DATE:
SKETCH TO PROVIDE: APPROXIMATE SIZE, LOCATION, ORIENTATION, TYPE OF LIMITATION AND PERCENTAGE OF REDUCED EXAMINATION COVERAGE.
VALue 5 Side
Pipe 2 Side
Value body Limited 45°S   60°S   45° RL AND 0°
Percentage of Reduced Examination Coverage = 62.5 %
PAGE 3 OF3
KEWAUNEE NUCLEAR POWER PLANT REVIEW: 2. A. Balslad DATE: 4/11/95
AUTHORIZED NUCLEAR INSERVICE INSPECTOR REVIEW: Any Profession DATE: 4/12/15

SYSTEM OR COMPONENT: FW FR	M ANCHORED EU TO STM GEN IA DRAWING NO.: 15/M-976
COMPONENT IDENTIFICATION:F	W-W29 PROCEDURE: OCP-913 REVISION: ORIG
ULTRASONIC:X LIQUID PENE	TRANT: MAGNETIC PARTICLE: VISUAL:
EXAMINER: John P. Bly	
EXAMINER: Much / Ma	LEVEL DATE: 4-6-95
	TE SIZE, LOCATION, ORIENTATION, TYPE OF LIMITATION AND BE OF REDUCED EXAMINATION COVERAGE.
	5 17 2
DUE TO	PIPE NUZZLE
KEWAUNEE NUCLEAR POWER PLANT REVIEW:	Rom Myum DATE: 4/27/55

FEED WATER FROM ANCHORED  SYSTEM OR COMPONENT: ELL TO STM GEN 18 DRAWING NO.: ISIM - 971
COMPONENT IDENTIFICATION: FW- W53 PROCEDURE: QCP-9/3 REVISION: ORIG
ULTRASONIC: X LIQUID PENETRANT: MAGNETIC PARTICLE: VISUAL:
EXAMINER: Dang P. Wm II DATE: 4-9-95  LEVEL
EXAMINER: NUM. BY TI DATE: 4-9-95
SKETCH TO PROVIDE: APPROXIMATE SIZE, LOCATION, ORIENTATION, TYPE OF LIMITATION AND PERCENTAGE OF REDUCED EXAMINATION COVERAGE.
AUX FEEDWATER FW-W53
8" AUY. FEEDWATER SADDLE WELD LIMITED SCANS 2,7,8  FOR THE US, LOS, CO FROM 33" to 44" From TOC.
PERCENTAGE OF REDULED EXAM COVERAGE; 89% EXAMINED
11% NOT EXAMINED
Page 2 of 2
KEWAUNEE NUCLEAR POWER PLANT REVIEW: Phellip C. Bukes  AUTHORIZED NUCLEAR INSERVICE INSPECTOR REVIEW: Page Profuse  DATE: 4/25/95

SYSTEM OR COMPONENT: REACTOR, COOLANT PIRING LOOP A DRAWING NO.: 151M-1703
COMPONENT IDENTIFICATION: RC. WIBSC PROCEDURE: QCP-908 REVISION: ORDS.
ULTRASONIC: X LIQUID PENETRANT: MAGNETIC PARTICLE: VISUAL:
EXAMINER: ANA. BY- II DATE: 4-20-95 LEVEL
EXAMINER: DATE: 4-20-95  LEVEL  LEVEL
SKETCH TO PROVIDE: APPROXIMATE SIZE, LOCATION, ORIENTATION, TYPE OF LIMITATION AND PERCENTAGE OF REDUCED EXAMINATION COVERAGE.  EXAMINED BASE MATERIAL OF WELL RC_W23 BC FROM B.C. Loop Piping ONLY WITH SCANS 5,7,18 DIRECTIONS  WELL RC_W23 BC  100% NOT EXAMINED OF CODE Required Volume.  Branch  Connection
KEWAUNEE NUCLEAR POWER PLANT REVIEW: Phillip C. Bukes DATE: April 23, 1995  AUTHORIZED NUCLEAR INSERVICE INSPECTOR REVIEW: Program DATE: 4/24/95

VISUAL EXAMINATION LIMITATION TO EXAMINATION RECORD		
SYSTEM OR COMPONENT: FO STM GEN. 18 DRAWING NO .: ISIM - 97/		
COMPONENT IDENTIFICATION: FW-W57 PROCEDURE: QCP 913 REVISION: ORIG		
ULTRASONIC: X LIQUID PENETRANT: MAGNETIC PARTICLE: VISUAL: VISUAL:		
EXAMINER: NAA. BOJ. II DATE: 4-9-95 LEVEL		
EXAMINER: DATE: 4-9-95  LEVEL  LEVEL		
SKETCH TO PROVIDE: APPROXIMATE SIZE, LOCATION, ORIENTATION, TYPE OF LIMITATION AND PERCENTAGE OF REDUCED EXAMINATION COVERAGE.		
PIPE  F. W.  NoZZLC  HOZZLC CONFIGURATION Limited 25CAN FOR 45°S AND 60°S		
Page 1 of 2		
KEWAUNEE NUCLEAR POWER PLANT REVIEW: A Balata DATE: 4/25/95  AUTHORIZED NUCLEAR INSERVICE INSPECTOR REVIEW: Roga Mitua DATE: 4/24/95		

CYCTEM OF COMPONENT: MALLISTM CTM (TALL IA) PRANTING NO. 16:00 071		
SYSTEM OR COMPONENT: MAIN STM STM GEN 1A DRAWING NO.: 151M - 871		
COMPONENT IDENTIFICATION: M5-W3 PROCEDURE: OCP-913 REVISION: ORIG		
ULTRASONIC: X LIQUID PENETRANT: MAGNETIC PARTICLE: VISUAL: VISUAL:		
EXAMINER: Jodd P. Blif II DATE: 4-18-95 LEVEL		
EXAMINER:		
SKETCH TO PROVIDE: APPROXIMATE SIZE, LOCATION, ORIENTATION, TYPE OF LIMITATION AND PERCENTAGE OF REDUCED EXAMINATION COVERAGE.		
2 . 5 . 5 . 5 . 5 . 5 . 5 . 5 . 5 . 5 .		
PIPE RED. FLBOW		
NO SCANS 5, 7,8 ON RED. ELBOW DUE TO OD TAPER AND THICKNESS CHANGE. NO O' SCAN DUE TO TAPER.		
2 of Z		
KEWAUNEE NUCLEAR POWER PLANT REVIEW: A. Balstad DATE: 4/19/95  AUTHORIZED NUCLEAR INSERVICE INSPECTOR REVIEW: Argan. Date: 4/20/85		

SYSTEM OR COMPONENT: R.C. PUMP BOLT DRAWING  COMPONENT IDENTIFICATION: WP5 - 41 PROCEDURE: 910  ULTRASONIC: LIQUID PENETRANT: MAGNETIC PARTICLE:	REVISION: _ <i>ORIG</i>
EXAMINER: DATE:  LEVEL  EXAMINER: DATE:  LEVEL  DATE:  LEVEL	4-21.95
SKETCH TO PROVIDE: APPROXIMATE SIZE, LOCATION, ORIENTATION, TYPE PERCENTAGE OF REDUCED EXAMINATION COVER AREA OF REQUIRED VOLUME NOT EXAMINED OUE TO BOLT CONFIGURATION FOR 90° SURFACE EXAM \$ 70° FORWARD EXAM	AGE
KEWAUNEE NUCLEAR POWER PLANT REVIEW: Philips C. Bukes  AUTHORIZED NUCLEAR INSERVICE INSPECTOR REVIEW: And Management of the Principle of the P	7.3% NOT EXAMINED  DATE: Uprel 23, 1995  DATE: 4/24/95