

# CATEGORY 1

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 WEBRING, R.L.: Washington Public Power Supply System  
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SUBJECT: Provides requested 30 day rept re insp of reactor core  
 shroud welds for indications of stress corrosion cracking.

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WASHINGTON PUBLIC POWER SUPPLY SYSTEM

P.O. Box 968 • Richland, Washington 99352-0968

June 18, 1998  
GO2-98-101

Docket No. 50-397

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

Gentlemen:

Subject: **WNP-2, OPERATING LICENSE NPF-21, 30-DAY REPORT  
OF INSPECTION RESULTS, GENERIC LETTER 94-03,  
"INTERGRANULAR STRESS CORROSION CRACKING  
OF CORE SHROUDS"**

- References:
- 1) NRC Generic Letter 94-03, dated July 25, 1994, "Intergranular Stress Corrosion Cracking of Core Shrouds in Boiling Water Reactors"
  - 2) Letter GO2-96-010, dated January 15, 1996, JV Parrish (SS) to NRC, "Amendment to Generic Letter 94-03 Response"
  - 3) Letter GO2-98-010, dated January 16, 1998, JV Parrish (SS) to NRC, "Amended Response to Generic Letter 94-03"
  - 4) Letter GO2-98-090, dated May 22, 1998, PR Bemis (SS) to NRC, "Clarification of Amended Response to Generic Letter 94-03"
  - 5) BWR Vessel and Internals Project (BWRVIP) Document BWRVIP-01, "BWR Core Shroud Inspection and Flaw Evaluation Guideline," Revision 2
  - 6) Letter dated December 10, 1997, Carl Terry (BWROG) to NRC, "Change to Category B Core Shroud Inspection Recommendations"

In Reference 1 the Staff requested that the Supply System perform an inspection of reactor core shroud welds for indications of stress corrosion cracking, and report the results of the inspection within 30 days from completion. In Reference 2 the Supply System informed the Staff that core shroud inspection would be completed during the Spring 1998 refueling outage. References 3 and 4 provided the Staff information regarding the intended scope and methodology to be used for the inspection. The purpose of this letter is to provide the requested 30 day report and inform the Staff that the shroud inspection requested by Reference 1 has been completed.

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# **30-DAY REPORT OF INSPECTION RESULTS, GL 94-03, "INTERGRANULAR STRESS CORROSION CRACKING OF CORE SHROUDS"**

In accordance with References 5 and 6, the Supply System has completed a category B, limited core shroud weld inspection of the four core shroud representative areas. The BWRVIP category B inspection scope is for the H3, H4, H5, and H7 circumferential welds. The H3 weld connects the top guide ring to the shroud central upper cylinder. The H4 weld connects the shroud central cylinders. As discussed in Reference 4, WNP-2 is a BWR-5 and has two type H4 welds. The lower H4 weld was examined. The H5 weld connects the shroud central lower cylinder to the core plate. The WNP-2 designator for the BWRVIP H5 weld is H6A. The H7 weld connects the shroud lower cylinder to the shroud support structure.

The examination coverage exceeded the minimum required inspection length ( $L_{min}$ ) for each weld. Total weld length examined exceeded 50% for each weld. The examinations were performed on 100% of accessible weld lengths using the ultrasonic examination method.

No indication of stress corrosion cracking was detected. One planar flaw indication was detected in the lower H4 weld. This indication measured 3 inches long and 0.16 inch in depth. This length is 0.3% of the examined length. The signal characteristics of the indication were not indicative of stress corrosion cracking. The following table summarizes the examination results.

Weld Number (WNP-2)	Weld Number (BWRVIP)	% Weld Examined	% of Accessible Region Examined	% of Examined Length Flawed	% of Examined Length Cracked
H3	H3	67.6	100	0	0
H5 (lower BWRVIP H4)	H4	75.2	100	0.3	0
H6A	H5	75.2	100	0	0
H7	H7	50.6	100	0	0



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**30-DAY REPORT OF INSPECTION RESULTS, GL 94-03, "INTERGRANULAR  
STRESS CORROSION CRACKING OF CORE SHROUDS"**

Should you have any questions or desire additional information regarding this matter, please call CM King at (509) 377-4515 or PJ Inserra at (509) 377-4147.

Respectfully,



R. L. Webring  
Chief Executive Officer (Acting)  
Mail Drop 1023

REB


cc: EW Merschoff - NRC RIV  
C Poslusny, Jr. - NRR  
KE Perkins, Jr. - NRC RIV, Walnut Creek Field Office  
NRC Sr. Resident Inspector - 927N  
DL Williams - BPA/399  
PD Robinson - Winston & Strawn

STATE OF WASHINGTON )  
 )  
COUNTY OF BENTON )

Subject: 30-Day Report of  
Inspection Results GL 94-04

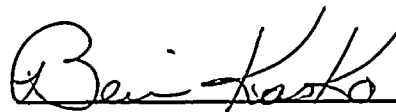
I, R. L. WEBRING, being duly sworn, subscribe to and say that I am the Acting Chief Executive Officer for the WASHINGTON PUBLIC POWER SUPPLY SYSTEM, the applicant herein; that I have the full authority to execute this oath; that I have reviewed the foregoing; and that to the best of my knowledge, information, and belief the statements made in it are true.

DATE June 18, 1998

  
\_\_\_\_\_  
R. L. Webring  
Acting Chief Executive Officer

On this date personally appeared before me R. L. Webring, to me known to be the individual who executed the foregoing instrument, and acknowledged that he signed the same as his free act and deed for the uses and purposes herein mentioned.

GIVEN under my hand and seal this 18 day of June 1998

  
\_\_\_\_\_  
Notary Public in and for the  
STATE OF WASHINGTON



Residing at Kennewick, WA

My Commission Expires 4/28/02

