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ACCESSION NBR: 8603310176 DOC. DATE: 86/03/24 NOTARIZED: NO DOCKET #
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SORENSEN, G. C. Washington Public Power Supply System
RECIP. NAME RECIPIENT AFFILIATION
ADENSAM, E. G. BWR Project Directorate 3

SUBJECT: Notifies of plans to perform addl heat stress improvement on untreated welds during Spring 1986 outage, per NUREG-0313, Rev 1 re IGSCC mitigation. Following outage, all welds addressed in Generic Ltr 84-11 will be in conformance.

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March 24, 1986
G02-86-253

Docket No. 50-397

Director of Nuclear Reactor Regulation
Attn: E. G. Adensam, Project Director
BWR Project Directorate No. 3
Division of BWR Licensing
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Dear Ms. Adensam:

Subject: NUCLEAR PLANT NO. 2
IHSI OF WELDS AND UPDATE OF STATUS OF
IGSCC MITIGATION

Reference: Letter, G02-83-833, G. C. Sorensen (SS) to A. Schwencer (NRC), "Update on Implementation of NUREG-0313, Revision 1", dated September 14, 1983

In a continuing effort to mitigate intergranular stress corrosion cracking (IGSCC) at WNP-2, the Supply System plans to perform additional induction heating stress improvement (IHSI) on previously untreated welds during the Spring 1986 refueling outage (R1). In addition, the two inch portion of the reactor recirculation loop drain lines will be replaced with a more IGSCC resistant material at the next refueling outage (R2).

In the fourth quarter of 1983, 113 welds received IHSI. This left 12 sweepolets to pipe welds and 38 small diameter welds as non-conforming per NUREG-0313, Rev. 1. Note the number of welds which was stated in the reference letter on this same subject is slightly different from the correct number given here.

At the time the first IHSI was done, a proven coil design was not available to provide adequate assurance that IHSI treatment would be effective on "saddle" welds. Since then, coil design has been improved and now the 12 sweepolet welds will receive the IHSI treatment. In addition, 23 four inch welds which were planned for material replacement will now receive the IHSI treatment instead. Ultrasonic examination for IGSCC detection will be performed on all 35 welds prior to and after IHSI treatment.

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In conclusion, at the end of R1, all welds subject to IGSCC as addressed in Generic Letter 84-11 will be "conforming". The 15 2" welds in the RRC loop drain which are not covered by 84-11 are anticipated to be replaced at R2. Attachment 1 gives a description of all stainless steel reactor coolant pressure boundary welds and shows how they are being mitigated with respect to IGSCC.

Should you have any questions please contact Mr. P. L. Powell, Manager, WNP-2 Licensing. For your information, IHSI treatments are scheduled to commence in the end of May and will take 9 days to complete.

Very truly yours,

GC Sorensen

G. C. Sorensen, Manager
Regulatory Programs

TFH/tmh
Attachment

cc: JO Bradfute - NRC
JB Martin - NRC RV
E Revell - BPA
NS Reynolds - BLCP&R
NRC Site Inspector

ATTACHMENT 1

MITIGATION FOR IGSCC OF WNP-2 RCPB WELDS

o	Butt Welds - IHSI	113	(10/83)
o	Butt Welds - Solution Heat Treated 12" Riser Elbows	20	
o	Sweepolets - Solution Heat Treated Riser to Header	8	
o	Butt Welds - Corrosion Resistant Clad, Low Carbon Content 12" Riser to Safe-End	10	
o	Butt Welds - RPV Nozzle to Safe-End, Low Carbon, 12"	10	
o	Butt Welds - RPV Nozzle to Safe-End, Low Carbon, 24"	2	
o	Butt Welds - Jet Pump Nozzle (N-9), Low Carbon	4	
o	Sweepolet - IHSI	12	(5/86)
o	Butt Welds - IHSI 4" Cross Connect to RWCU	23	(5/86)
o	Butt Welds - RRC System Drain Lines, 2" - Replacement	15	(Future)
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