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 SORESEN, G.C. Washington Public Power Supply System
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SUBJECT: Responds to Generic Ltr 89-08 re erosion/corrosion-induced
 pipe wall thinning.

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WASHINGTON PUBLIC POWER SUPPLY SYSTEM

P.O. Box 968 • 3000 George Washington Way • Richland, Washington 99352

July 20, 1989
G02-89-122

Docket No. 50-397

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

Gentlemen:

Subject: NUCLEAR PLANT NO. 2
OPERATING LICENSE NPF-21
RESPONSE TO GENERIC LETTER 89-08
EROSION/CORROSION INDUCED PIPE WALL THINNING

Reference: 1) NRC Generic Letter 89-08, "Erosion/Corrosion
Induced Pipe Wall Thinning", dated May 2, 1989
2) Letter, G02-87-245 G.C. Sorensen to NRC, "Response
to NRC Bulletin No. 87-01: Thinning of Pipe Walls
in Nuclear Powers Plants", dated September 14, 1987
3) Letter, G02-89-098, G.C. Sorensen to NRC, "Generic
Letter 89-08 Erosion/Corrosion - Induced Pipe Wall
Thinning", dated May 24, 1989

NRC Generic Letter 89-08 requested that licensees provide assurance that a program has been implemented which consists of systematic measures to ensure that erosion/corrosion does not lead to degradation of single phase and two phase high-energy carbon steel systems. The Supply System requested a response date of July 22, 1989 (Reference 3).

The Supply System is committed to maintaining the design margin in all plant piping systems. A long term pipe wall thinning monitoring program was implemented by Plant Procedure 8.3.63 "Surveillance Procedure for Monitoring Pipe Wall Thinning", dated 4/6/87. The procedure details the organizational responsibilities for selection, evaluation and acceptance criteria for monitoring pipe wall thinning. To further strengthen the erosion/corrosion activities of WNP-2 an engineering program has recently been implemented. The WNP-2 Pipe Wall Thinning Program dated 7/13/89 provides the overall guidance to ensure that an effective, long term pipe wall thinning program is in place for erosion/corrosion monitoring. This program is based on current industry experience and covers all high-energy single phase and two phase carbon steel piping systems at WNP-2. The program is structured on the NUMARC guidelines and EPRI recommendations.

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Page Two

RESPONSE TO GENERIC LETTER 89-08 EROSION/
CORROSION INDUCED PIPE WALL THINNING

In response to NRC Bulletin 87-01, the Supply System described its pipe wall thinning program. The WNP-2 Pipe Wall Thinning Program now being implemented is similar to that described in the response to Reference 2. One difference, however, is that the Supply System will generally inspect items estimated to violate the design minimum wall thickness two years before the projected end of life instead of the three years as described in Reference 2). Two years ensures the minimum wall thickness is maintained and yet allows additional resources to be placed on other areas which have not been inspected.

As is the case with the rest of the industry, the WNP-2 Pipe Wall Thinning Program is evolving and improving with added industry experience. It is expected that the program will change in the future. However, the basic intent which is to ensure WNP-2 single phase and two phase carbon steel piping systems are monitored to ensure early detection of degradation, will be maintained.

In summary, the Supply System has implemented an effective pipe wall thinning program for both single phase and two phase carbon steel piping systems. This program is formally implemented through plant procedures.

Very truly yours,



G. C. Sorensen, Manager
Regulatory Programs

TFH/bk

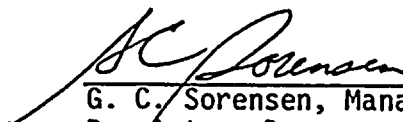
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STATE OF WASHINGTON)
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Subject: GENERIC LETTER 89-08
RESPONSE - WNP-2

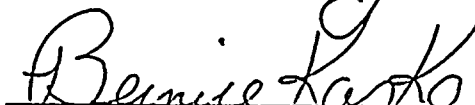
I, G. C. Sorensen, being duly sworn, subscribe to and say that I am the Manager, Regulatory Programs, for the WASHINGTON PUBLIC POWER SUPPLY SYSTEM, the applicant herein; that I have full authority to execute this oath; that I have reviewed the foregoing; and that to the best of my knowledge, information and belief the statements made in it are true.

DATE 20 July, 1989


G. C. Sorensen, Manager
Regulatory Programs

On this day personally appeared before me G. C. Sorensen 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 20th day of July 1989.


Notary Public in and for the STATE
OF WASHINGTON

Residing at Kennecook, Wa.
My commission expires 8/1/90

