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 SORESENSEN, G.C. Washington Public Power Supply System
 RECIP. NAME RECIPIENT AFFILIATION
 Document Control Branch (Document Control Desk)

SUBJECT: Suppls 880928 response to NRC Bulletin 88-004, "Potential Safety-Related Pump Loss," submitting results of analysis by Ingersoll-Rand in long-term development evaluation for applicable ECCS pumps.

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 TITLE: Bulletin 88-004 re Potential Safety-Related Pump Loss

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WASHINGTON PUBLIC POWER SUPPLY SYSTEM

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April 1, 1993
G02-93-079

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
RESPONSE TO IEB 88-04, POTENTIAL SAFETY RELATED PUMP LOSS**

Reference: 1) NRC Bulletin No. 88-04, "Potential Safety-Related Pump Loss,"
 dated May 5, 1988
 2) Letter G02-88-208 dated September 28, 1988, GC Sorensen (SS) to
 NRC, "Response to IEB 88-04, Potential Safety Related Pump Loss"

In response to the IEB 88-04, the Supply System committed in Reference 2 to include the results of analysis by Ingersoll-Rand in the long term development evaluation for the applicable ECCS pumps. The information provided to Ingersoll-Rand was incorrect and resulted in an underestimation of the Residual Heat Removal (RHR) Remaining Pump Life (RPL) before servicing. Consequently, the Ingersoll-Rand results were not used in the evaluation. In further conversations with Ingersoll-Rand, it was confirmed that the terms used in their RPL equation are arbitrary and that it is the pump user's responsibility to determine when servicing should be performed. Based upon a plan developed by the Supply System and an assessment of available vibration data, it has been determined that the RHR pumps do not exhibit any symptoms that would suggest mechanical degradation that would affect pump operability. Quarterly ASME inservice testing substantiates this position.

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RESPONSE TO IEB 88-04, POTENTIAL SAFETY RELATED PUMP LOSS"

Sufficient bases have been established to allow a departure from the manufacturer's recommendation for service life limitations and for the use of condition monitoring to establish when the pump should be opened and inspected. The plan for monitoring uses condition data that has been collected during the operating life of the RHR pumps to establish their ability to perform their safety related function. The main thrust of this approach relates the current conditions of the equipment to the initial bases that justified using the pumps as six month active units in a post accident situation.

Parameters measured and analyzed include vibration data, pressure, flow and differential pressures and temperatures. The bases for using condition monitoring are derived from a careful study of the available performance data and the available condition monitoring program trending data. It also includes a thorough design analysis of the rotordynamics, hydraulics, and pump rotor and stator components. The condition of the RHR pumps is considered to be good and there are no near term plans for disassembly and inspection.

Sincerely,



G. C. Sorensen, Manager
Regulatory Programs (Mail Drop PE20)

MGE/bk

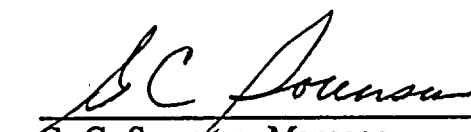
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STATE OF WASHINGTON)
)
COUNTY OF BENTON)

Subject: Response to IEB 88-04
Potential Safety Related
Pump Loss

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 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.

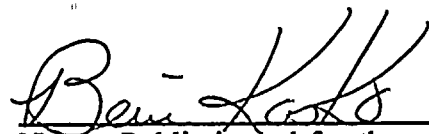
DATE 1 April, 1993



G. C. Sorensen, Manager
Regulatory Programs

On this date 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 1 day of April, 1993.



Notary Public in and for the
STATE OF WASHINGTON

Residing at Kennewick, Washington

My Commission Expires April 28, 1994