REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR: 8604150315 DDC. DATE: 86/04/08 NOTARIZED: YES DDCKET # FACIL: 50-397 WPPSS Nuclear Project, Unit 2, Washington Public Powe 05000397

--AUTH. NAME

AUTHOR AFFILIATION

SORENSEN, C. C.

Washington Public Power Supply System

RECIP. NAME

RECIPIENT AFFILIATION

BWR Project Directorate 3

SUBJECT: Application for amend to License NPF-21, changing Tech Specs

delete chlorine detection sys due to permanent plant change removing chlorine gas storage from immediate site area. Fee

paid.

NOTES:

	RECIPIENT ID CODE/NAME		COPIES		RECIPIENT	COP	COPIES	
			LTTR	ENCL	ID CODE/NAME	LTTR	ENCL	
	BWR ADTS		1	0	BWR EB	1	1	
	BUR EICSB		2	2	BWR FOB	1	1	
	BUR PD3 PD	01	5	5	BRADFUTE, J	1	1	
	BWR PSB		1	1	BWR RSB	1	1.	
INTERNAL:	ACRS	09	6	6	ADM/LFMB	1	0	
	ELD/HDS2		1	0	NRR/DHET/TSCB	1	1	
	NRR/ORAS	~	1	0	REG FILE 04	1	1	
	RGN5		1	1				
EXTERNAL:	24X		1	1	EG&G BRUSKE, S	1	1	
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	NSIC	05	1	1				

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Washington Public Power Supply System

3000 George Washington Way P.O. Box 968 Richland, Washington 99352-0968 (509)372-5000

April 8, 1986 G02-86-322

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

REQUEST FOR AMENDMENT TO TECHNICAL SPECIFICATIONS;

DELETION OF CHLORINE DETECTION SYSTEM

In accordance with the Code of Federal Regulations, Title 10, Parts 50.90 and 2.101, the Supply System hereby requests an amendment to the WNP-2 Technical Specifications sections 3.3.7.8, 4.3.7.8, 4.7.2, index pages vi and xiii, and Bases 3/4.3.7.8 (Attachment). This change requests the deletion of the chlorine detection system due to permanent plant changes having removed chlorine gas storage from the immediate site area. As a result, the threat to control room habitability due to chlorine gas incapacitation has been eliminated.

As discussed in the WNP-2 Final Safety Analysis Report Section 6.4.4.2, chlorine gas was previously stored on site for use in circulating water chemical treatment. Analysis of the amount stored and location with respect to the control room per Regulatory Guide 1.95, Revision 1 "Protection of Nuclear Power Plant Control Room Operators Against An Accidental Chlorine Release", indicated that the WNP-2 control room design should meet the guidance for a Class III type control room. Accordingly, redundant quick response chlorine detectors with automatic isolation were incorporated to ensure control room habitability following a chlorine release on site. The Supply System has recently changed the circulating water treatment system to a system using sodium hypochlorite. As a result, chlorine gas is no longer stored on the WNP-2 site and the WNP-2 chlorine detection system is no longer needed to ensure control room habitability in the event of a non-credible chlorine gas release. Furthermore, Regulatory Guide 1.78 "Assumptions for Evaluating the Habitability of a Nuclear Power Plant Control Room During A Postulated Hazardous Chemical Release" uses, as a threshold for evaluation due

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REQUEST FOR AMENDMENT TO TECHNICAL SPECIFICATIONS; DELETION OF CHLORINE
DETECTION SYSTEM

to transportation, a frequency of 10 to 30 shipments of chlorine gas cylinders per year for truck and rail respectively on transportation routes within five miles of the site. It is estimated that truck shipments on such routes are 4 per year. There have been no rail shipments since June 1983, and none are anticipated in the future period. Hence, transportation of chlorine gas in the immediate vicinity does not pose a threat to control room habitability and chlorine monitors are not necessitated by this concern.

The only other areas within a five mile radius in which chlorine might be stored are the WNP-1 and the Fast Flux Test Facility sites. Neither of these facilities have significant chlorine gas storage and therefore do not represent a threat to control room habitability or a potential challenge to the chlorine monitors.

The Supply System has reviewed this request per 10 CFR 50.59 and 50.92 and has determined that it does not represent an unreviewed safety question or significant hazard and does not:

- 1) Involve a significant increase in the probability or consequences of an accident previously evaluated because, the possibility of the accident for which the monitors were required has been made mechanistically impossible. Hence, removal of the monitors can not possibly increase the probability or consequences of an accident for which the motive force has been eliminated.
- 2) Create the possibility of a new or different kind of accident than previously evaluated because no new systems or procedures interacting with the plant are introduced by this request and presently installed systems and procedures will also not be affected by removal of the monitors.
- Involve a significant reduction in a margin of safety because, the margin of safety with respect to a chlorine gas release has been maximized by removal of chlorine gas from the site. Obviously, the only recognized contribution of the chlorine monitors to safety was in the chlorine release accident. Hence, removal of the monitors can not affect the margin of safety.

This technical specification change has been reviewed and approved by the WNP-2 Plant Operations Committee and the Supply System Corporate Nuclear Safety Review Board.

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In accordance with 10 CFR 170.21, an application fee of One hundred fifty dollars (\$150.00) accompanies this request. In accordance with 10 CFR 50.91, the State of Washington has been provided a copy of this letter.

Should you require any further information or assistance to aid in evaluating this request, please contact Mr. P. L. Powell, Manager, WNP-2 Licensing.

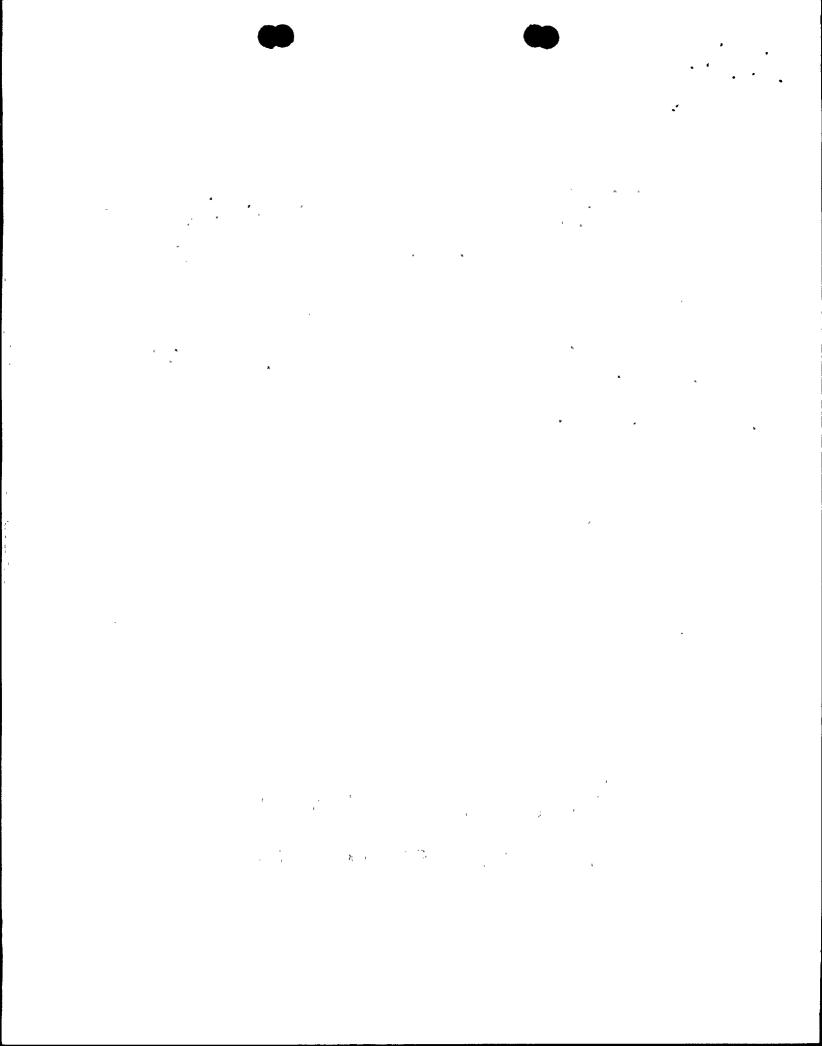
Very truly yours,

v G. C. Sorensen, Manager Regulatory Programs

> PLP/tmh Attachments

cc: JO Bradfute - NRC C Eschels - EFSEC JB Martin - NRC RV E Revell - BPA NS Reynolds - BLCP&R

NRC Site Inspector



REQUEST FOR AMENDMENT TO TECHNICAL SPECIFICATIONS; DELETION OF CHLORINE

Subject: DETECTION SYSTEM STATE OF WASHINGTON COUNTY OF BENTON

I, R. B. GLASSCOCK, being duly sworn, subscribe to and say that I am the Director, Licensing & Assurance, 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.

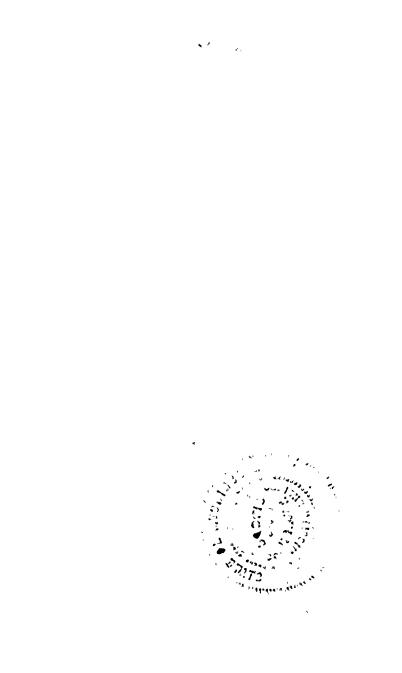
GLASSCOCK, Director Licensing & Assurance

On this day personally appeared before me R. B. GLASSCOCK 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 therein mentioned.

GIVEN under my hand and seal this __ _day of

State of Washington

Residing at <u>Richland</u>, WA
(February 4, 1990)



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