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ACCESSION NBR: 8606110297 DDC DATE: 86/06/05 NOTARIZED: NO DOCKET #
 FACIL: 50-397 WPPSS Nuclear Project, Unit 2, Washington Public Powe 05000397
 AUTH. NAME AUTHOR AFFILIATION
 SORENSEN, G. C. Washington Public Power Supply System
 RECIP. NAME RECIPIENT AFFILIATION
 ADENSAM, E. G. BWR Project Directorate 3

SUBJECT: Supplemental application for amend to License NPF-21,
 changing Tech Spec Section 3.7.1.3 (UHS) to permit reliance
 on single spray pond for DHR when plant in mode "star".

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Washington Public Power Supply System

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June 5, 1986
G02-86-537

Docket No. 50-397

Director of Nuclear Reactor Regulation
Attn: Ms. 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
OPERATING LICENSE NPF-21, REQUEST FOR AMENDMENT
TO LICENSE - (ULTIMATE HEAT SINK), SUPPLEMENTAL
INFORMATION

Reference: 1) Letter, G02-86-243, G.C. Sorensen to E.G. Adensam,
same subject, dated March 21, 1986.
2) Letter, G02-86-333, G.C. Sorensen to E.G. Adensam,
same subject, dated April 10, 1986.

The referenced letters discuss the background to and the request for an amendment to Section 3.7.1.3 (Ultimate Heat Sink) of the WNP-2 Technical Specification. This amendment would allow reliance on a single spray pond for decay heat removal when the plant is in mode "star" as defined in the Technical Specification. This letter supplies additional information about the proposed technical specification amendment and addresses questions discussed by Messrs. J.O. Bradfute of your staff and P.L. Powell of the Supply System, during an April 10, 1986 phone conversation on this subject.

In this phone conversation, additional information was requested on the safety impact of a postulated loss of both inflatable plugs in the siphon of the standby service water cross-connection. During startup testing it was shown that the siphon would not continue to function when the water level in the pond with the most water was below the level of the inter-connecting pipe between the ponds and the water level on the other side dropped below the end of the 30 inch siphon pipe, which is 18 inches above the pond bottom. With the siphon plugged and only one pond full of water, failure of the plugs would allow water to flow to the other pond until the levels equalized. Under this condition, the siphon is self priming because the normal water level in the full pond

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E. G. Adensam

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REQUEST FOR AMENDMENT TO LICENSE (ULTIMATE HEAT SINK), SUPP. INFO.

is at least 3 feet above the centerline of the 30 inch siphon where it crosses between the ponds (see attached figure). The siphon is then functional, and the water in both ponds is available for use by the operating SW pump except for 1.5' of water in the previously dry pond that the siphon can not access. This water could be transferred with portable pumps or the other division of SW could be put into operation. The loss of direct access to this 1.5' of water still leaves over 19 days to effect the transfer since the balance of the water inventory will last that long. After the 19 days further flow of water through the siphon is not possible and water inventory would be transferred with portable pumps or operation of the other SW division.

The flow of water to the previously empty pond is, therefore, not a loss of water, and constitutes usable volume if the Standby Service Water (SW) pump associated with that pond is brought into service, or other temporary means are used to transfer water from one pond to the other. Ample time is available to make provisions to transfer water back to the original pond, or to bring the other division of SW into operation. The Supply System has analyzed this change according to the criteria of 10CFR50.92 and determined that the subject request can not create the possibility of a new or different kind of accident, as sufficient time is available to marshal the resources necessary to meet the design 30 day inventory requirement.

With these considerations in mind, and with the low probability of a loss of two independent plugs, we have concluded that the proposed design assures the safe condition of the plant. Please direct any questions regarding this matter to Mr. P. L. Powell, Manager, WNP-2 Licensing.

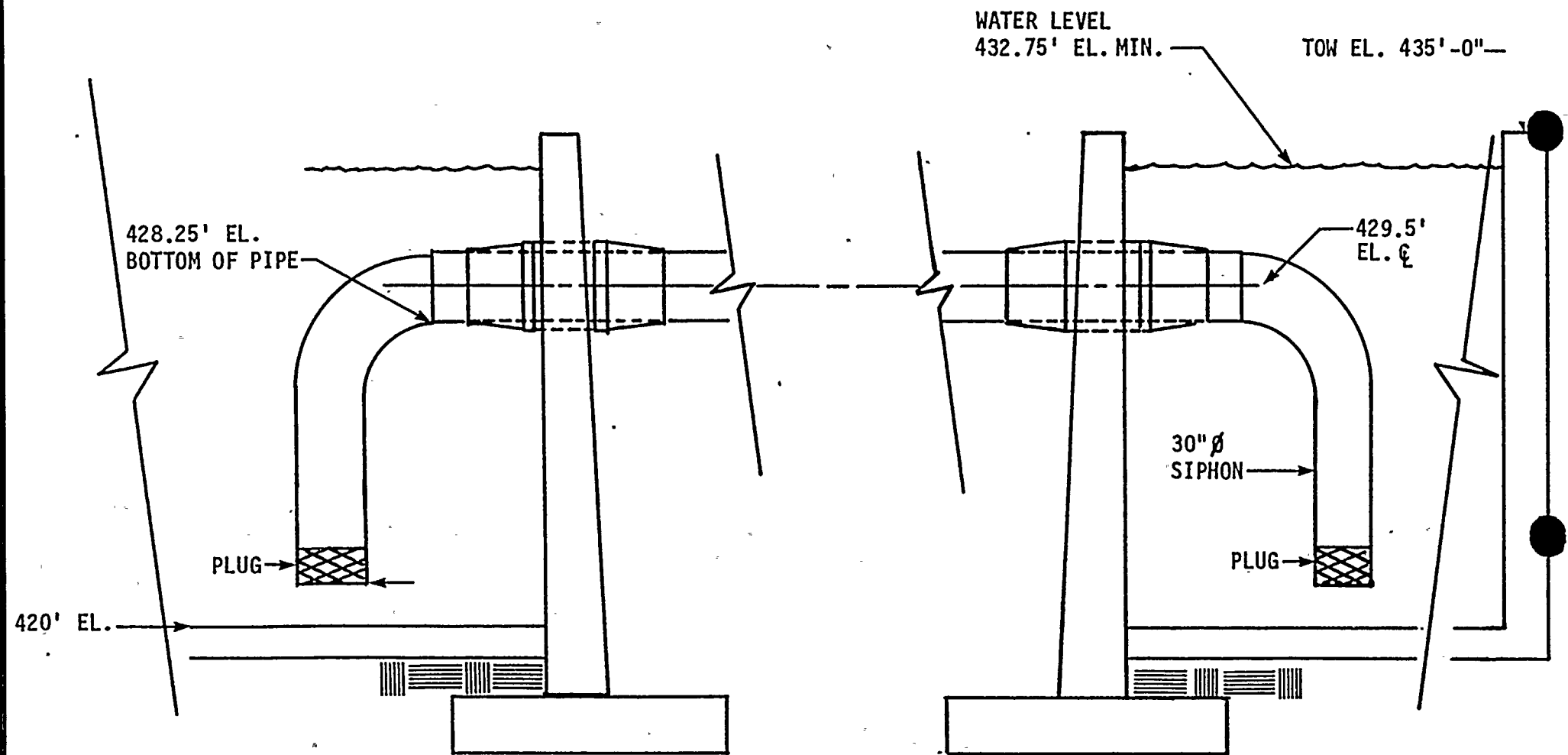
Very truly yours,



G. C. Sorensen, Manager
Regulatory Programs

SIS/bk
Attachment

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



SIPHON GEOMETRY