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AUTH.NAME AUTHOR AFFILIATION
BOUCHEY,G.D. Washington Public Power Supply System
RECIP.NAME RECIPIENT AFFILIATION
SCHWENCER,A. Licensing Branch 2

SUBJECT: Requests extension of time from fuel load to end of first refueling outage for completion of mods to existing interior manual fire nose installation,Response requested.

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Washington Public Power Supply System
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G02-82-571
June 30, 1982

Docket No. 50-397

Mr. A. Schwencer, Chief
Licensing Branch No. 2
Division of Licensing
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Dear Mr. Schwencer:

Subject: NUCLEAR PROJECT NO. 2
FIRE HOSE/STANDPIPE MODIFICATIONS

Reference: (a) Telecon, R. Nelson and D. Evans, Supply System, to R. Auluck and D. Kubicki, NRC, on May 24, 1982

(b) Telecon, R. Auluck and D. Kubicki, NRC, to R. Nelson and D. Evans, Supply System on May 14, 1982

(c) Letter, G02-82-396, dated April 22, 1982, GD Bouchey, Supply System, to A. Schwencer, NRC, subject, "Response to SER on FSAR Section 9.5.1, Fire Protection Program"

(d) Letter, G02-82-116, dated January 27, 1982, GD Bouchey, Supply System, to A. Schwencer, NRC, subject, "Response to Request for Commitment on Open Fire Protection Issues"

(e) Telecon, R. Nelson and D. Evans, Supply System, to P. Sears, NRC, on January 25, 1982

The purpose of this letter is to request an extension of time from fuel load to the end of the first refueling outage, for the completion of modifications to the existing interior manual fire hose installation, as discussed in references (a) and (b). The Supply System has agreed to modify the existing interior manual fire hose installation in safety related areas to provide standpipes with hose connections equipped with a maximum of 100 feet of 1½ inch fire hose, as stated in references (c), (d), and (e). As noted in references (d) and (e), it is the Supply System's understanding that these modifications may be made before or during the first refueling outage, rather than completed by fuel load. However, as there is still an NRC concern regarding this matter, the following is presented as the basis for this request.

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The modification will require the addition of twenty-three hose stations and considerable piping in the Reactor, Radwaste/Control, and Diesel Generator buildings. Due to the magnitude of the changes, it is the Supply System's intent to extend the work over a period of time to the end of the first refueling outage. Plans for doing the work are underway and areas are being identified where changes will be made before fuel load. These areas are primarily where access will be limited after operations or are areas where water system outages should be avoided later. The remainder of the work will be scheduled so as not to disrupt operations and will be completed before the end of the plant's first refueling outage.

The existing interior standpipe installation will be capable of providing sufficient hose stations before fuel load so that an effective hose stream can reach any area of the plant with a maximum of 150 feet of 1½ inch hose at each hose station. This will be arranged with 100 feet of preconnected fire hose equipped with an adjustable spray nozzle, and a separate hose shutoff valve immediately upstream of the nozzle. An extra 50 feet of fire hose will be stored at each hose station with the preconnected hose. The fire brigade will be trained to initiate an attack on a fire with the preconnected 100 feet of hose. If the situation demands a greater reach, the hose shutoff valve immediately upstream of the nozzle can be closed, the nozzle removed, and the extra 50 feet of hose attached to the shutoff valve. The nozzle will then be attached to the end of the 150 feet of hose and the shutoff valve opened. This will take less than one minute to accomplish with a trained fire brigade. This arrangement has been accepted in the plant by American Nuclear Insurers (ANI), for insurance purposes.

The fire pump systems as designed will have sufficient volume and pressure to provide an effective hose stream, as defined by NFPA 14, anywhere in the plant including at the highest outlet, with 150 feet of fire hose attached. This can be accomplished with any three of four fire pumps out of service.

In summary, the Supply System requests an extension of time up to the end of the first refueling outage to accomplish the hose/standpipe changes. This will allow a more manageable time frame to accomplish the necessary changes,so that a maximum length of 100 feet of 1½ inch fire hose will reach any safety related area. It is the opinion of the Supply System that the present 150 foot hose/standpipe arrangement, as accepted by ANI, will provide sufficient fire fighting capability to maintain plant safety while the modifications are being completed.

Your assessment of this proposal and related response to this letter is requested at your earliest convenience in order to minimize construction delays.

Very truly yours,

GD Bouchey

G. D. Bouchey
Deputy Director, Safety and Security

GDB:DTE:cph

cc: Mr. R. Auluck - NRC
Mr. E. F. Beckett - NPI
Mr. W. S. Chin
Mr. R. Feil - NRC Site
Mr. S. A. Guisti - BPC (904A)
Mr. D. Kubicki - NRC
Mr. H. Plagge - BPC (904A)
Mr. J. Plunkett - NUS
Mr. N. S. Reynolds - D&L
Mr. J. Rogoza - BPC - (904A)
Mr. P. Sears - NRC
Mr. R. E. Snaith - B&R NY
Mr. J. J. Verderber - B&R NY
Mr. J. Zalavadia - B&R Site (980S)
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