

# REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

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 FACIL: 50-397 WPPSS Nuclear Project, Unit 2, Washington Public Power 05000397  
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 RECIP. NAME: SCHWENCER, A. RECIPIENT AFFILIATION: Licensing Branch 2

SUBJECT: Forwards response to NRC request for info re fire protection evaluation rept.

SEE RPT

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 TITLE: Fire Protection (Prior to Issuance of OL).

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1. The first part of the report is a summary of the work done during the year.

2. The second part of the report is a detailed account of the work done during the year, and is divided into two main sections: (a) the work done in the laboratory, and (b) the work done in the field.

3. The third part of the report is a summary of the results of the work done during the year, and is divided into two main sections: (a) the results of the work done in the laboratory, and (b) the results of the work done in the field.

4. The fourth part of the report is a summary of the conclusions drawn from the work done during the year, and is divided into two main sections: (a) the conclusions drawn from the work done in the laboratory, and (b) the conclusions drawn from the work done in the field.

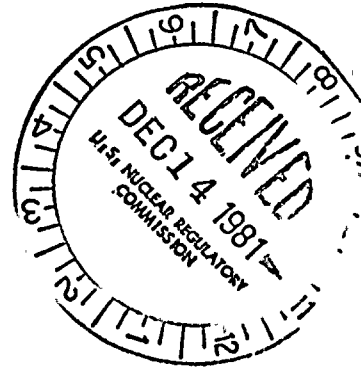
5. The fifth part of the report is a summary of the recommendations made during the year, and is divided into two main sections: (a) the recommendations made from the work done in the laboratory, and (b) the recommendations made from the work done in the field.

6. The sixth part of the report is a summary of the work done during the year, and is divided into two main sections: (a) the work done in the laboratory, and (b) the work done in the field.

## Washington Public Power Supply System

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

December 9, 1981  
G02-81-511



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: SUPPLY SYSTEM NUCLEAR PROJECT NO. 2  
RESPONSE TO REQUEST FOR INFORMATION

The following is in response to requests made by Mr. Pat Sears, NRC, during a recent telephone conversation to clarify information in the Fire Protection Evaluation Report:

1. It is the intent of the Supply System to comply with the PGCC Licensing Topical Report, NEDO-10466-A, for Fire Protection by providing the following features:
  - a. An approved supply and distribution system to permit Halon 1301 to be introduced into each of the floor sections longitudinal cable ducts. The Halon system will provide a 20% concentration by volume for a twenty (20) minute duration in the floor section ducts.
  - b. Smoke and thermal detectors in the floor section longitudinal ducts. Smoke detectors will pre-alarm to allow a manual response. Thermal detectors will automatically release the Halon 1301.
  - c. Zoned detection and alarm grouped by floor section.
  - d. Smoke detectors in the termination cabinets.
  - e. PGCC floor plates that are quickly removable to allow hand-held extinguishers to be used as a backup to the fixed system.
  - f. Unlocked termination cabinet doors to allow the rapid use of a hand-held extinguisher.
  - g. Tile floor covering (not carpet).
  - h. Fire stops and penetration seals, qualified by recognized fire tests.

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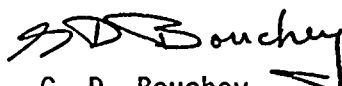
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2. The fire pump systems use U.L. listed fire protection equipment. The attached documentation verifies the use of labeled fire pumps as requested (Attachment I).
3. Verification of the fire rating of door assemblies in fire barriers will be provided at the site by either: 1) U.L. labels affixed to the particular door and respective frame; 2) A Certificate of Compliance for the particular door assembly; or, 3) In the case of special doors (watertight, airtight and blast doors), letters of qualification and submittal data from the manufacturer.
4. All penetration seals in fire barriers (vertical and horizontal) will meet the requirements of the Standard for Fire Tests of Building Construction and Materials ASTM E-119, (NFPA 251). The sealing material (Dow Corning 3-6548 Silicone RTV Foam or approved equivalent) will be installed in strict compliance with tested methods and assemblies. Numerous tests to verify the fire resistance rating of the fire barrier penetration seals have been conducted by U.L., FMRC, or other nationally recognized testing laboratories, and many of them have been accepted by the American Nuclear Insurers. All installation work will be done by contractors and companies experienced in the specialty (Bisco, Chemtrol, etc.). The installation contractor has not been selected as of this date. Specific test data provided by the contractor will be made available upon request. (See Attachment II).
5. All fire barrier walls and ceilings in safety related areas are reinforced concrete, with a few selected walls constructed of concrete block. All of these walls and ceilings comply with ASTM E-119 for the specific hourly fire rating designated in the Fire Protection Evaluation Report, Amendment No. 19, dated October, 1981. Penetrations and openings in these walls and ceilings are protected as stated previously and in the Fire Protection Evaluation Report.
6. The presently installed Fire Alarm System is Class "B", as stated in the Fire Protection Evaluation Report. The conversion of detection circuits on suppression systems in safety related areas to Class "A", as verbally recommended by the NRC on November 20, 1981, is presently under study by the Supply System.

Very truly yours,



G. D. Bouchey  
Deputy Director, Safety and Security

GDB/DTE/jca  
Attachments (2)

cc: R Auluck - NRC  
R Bahl - B&R Site  
M Bursztein - B&R Site  
WS Chin - BPA  
R Feil - NRC Site  
P Sears - NRC  
J Rogoza - BECH (904A)  
RE Snaith - B&R NY  
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