

# REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

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 FACIL: 50-397 WPPSS Nuclear Project, Unit 2, Washington Public Powe 05000397  
 AUTH. NAME: SØRENSEN, G. C. AUTHOR AFFILIATION: Washington Public Power Supply System  
 RECIP. NAME: SCHWENCER, A. RECIPIENT AFFILIATION: Licensing Branch 2

SUBJECT: Forwards addl info requested in 831027 telcon re procedural requirements for post-accident sampling per TMI Action Item II.F.1.2. Addl info will be reflected in next amend to FSAR.

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## Washington Public Power Supply System

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

November 4, 1983  
G02-83-1022

Docket No. 50-397

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

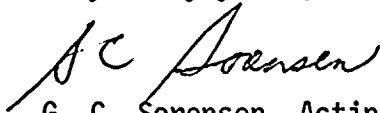
Dear Mr. Schwencer:

Subject: NUCLEAR PROJECT NO. 2  
POST ACCIDENT SAMPLING SYSTEM

Reference: Letter, G02-83-918, G.C. Sorensen (SS) to A. Schwencer (NRC),  
"Post Accident Sampling and Analysis of Dissolved Gases",  
dated October 13, 1983

A request was made by C. Miller (NRC) in a telephone conversation on October 27, 1983, to include the mention of procedural requirements for post accident sampling in the Supply System response to TMI Item II.F.1.2. Attached is the addition requested which will be reflected in the next amendment to the FSAR.

Very truly yours,



G. C. Sorensen, Acting Manager  
Nuclear Safety and Regulatory Programs

BP/jdb

Attachment: As stated

cc: R Auluck - NRC      D Hoffman - NRC  
WS Chin - BPA      A Toth - NRC Site

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accept flow control devices which have the capability of maintaining isokinetic conditions with variations in stack or duct design flow velocity of  $\pm 20\%$ . Further departure from the isokinetic condition need not be considered in design. Corrections for non-isokinetic sampling conditions, as provided in Appendix C of ANSI 13.1-1969, may be considered on an ad hoc basis.

- d. Effluent streams which may contain air with entrained water, e.g., air ejector discharge, shall have provisions to ensure that the absorber is not degraded while providing a representative sample, e.g., heaters.

#### WNP-2 Position

A shielded low flow particulate/iodine sampling system is being installed to monitor the post-accident effluent air from the reactor building ventilation exhaust. The sample system consists of a shielded filter holder, a running time meter, and a low volume positive displacement sample pump which draws a sample from the reactor building elevated release duct. The sample is drawn through the particulate and iodine filter assembly at a rate of about 0.1 cfm and then returned to the release duct. The pump is automatically started when the high-high level alarm on the associated noble gas monitor is activated. The pump will continue to run until manually reset. The sample filter holder has a quick-release allowing it to be removed and handled with remote tools reducing any potential personnel exposure.

To protect personnel, a 2-inch thick lead shield is positioned around the filter holder. This will reduce the dose rate to 5 mR/hr at one foot from the filter under worst postulated conditions following a reactor accident based on Table II.F.1-2, Design Basis Shielding Envelope.

The shielded sample assembly will be used on the reactor building because of potential leakage from primary containment into the reactor building following a reactor accident releasing fission products from the core. Particulate/iodine sampling of the other buildings' (radwaste and turbine) exhausts will be handled by the normal effluent samplers where the post-accident release concentration is quite low.

Samples will be obtained and analyzed per approved plant procedures.

