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 SCHWENCER, A. Licensing Branch 2

SUBJECT: Clarifies diesel generator bldg air intake, per discussion re design basis dust storm effect. Response closes out SER outstanding concern.

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## Washington Public Power Supply System

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August 5, 1982  
G02-82-641

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  
DESIGN BASIS DUST STORM EFFECT ON  
DIESEL GENERATOR BUILDING AIR INTAKE

Discussions with Mr. R. Giardina of your PSB staff have indicated a need for clarification of the potential impact of a design basis dust storm on the Diesel Generator Building air intake. The air intake provides combustion air for the Diesel Generators, and outside air for the Diesel Generator Building HVAC system. There are louvers on the building air intake and a large area just inside the louvers where dust could conceivably collect. The louvered opening is approximately 10 feet by 12 feet and its lowest portion is 2 feet above grade elevation. A 20-foot high wall inside of the louvers provides tornado missile protection, and forms a rectangular volume open at the top.

The Supply System evaluated the potential for dust accumulation in the volume behind the louvers, using the design basis dust loading given in Section 2.3.1 of the WNP-2 FSAR. The results showed that less than one cubic foot of dust would be drawn into the louvers by the building air flow. Even if the air flow through the louvers were increased somewhat by the winds associated with the design basis dust storm, dust could not be accumulated in sufficient quantities to cause air flow problems. More than 130 feet<sup>3</sup> of dust would have to be accumulated before the dust level began to affect intake air flow.


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This clarification of the Diesel Generator Building air intake should close-out the SER outstanding concern for this subject. If you need additional information, please feel free to contact Mr. R.M. Nelson, Manager, WNP-2 Project Licensing.

Very truly yours,



G. D. Bouchey  
Deputy Director, Safety and Security

DM/jca

cc: R Auluck - NRC  
WS Chin - BPA  
R Feil - NRC Site  
R Giardina-NRC

