

Washington Public Power Supply System
A JOINT OPERATING AGENCY

P.O. Box 968 3000 GEO. WASHINGTON WAY RICHLAND, WASHINGTON 99352 PHONE (509) 375-5000

February 13, 1981
G01-81-035

Docket Nos. 50-460
50-513

Office of Nuclear Reactor Regulation
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Dear Mr. Youngblood:

Subject: Washington Public Power Supply System
WPPSS Nuclear Projects Nos. 1 & 4
Diesel Engine Combustion Air Intake
And SRP 9.5.8

In Standard Review Plan 9.5.8, Item 6 of Section II, it is stated that, "each emergency diesel should be provided with an independent and reliable combustion air intake and exhaust system."

The WNP-1/4 design includes a common rather than a separate intake structure for the diesels. From this common structure separate ducts lead to each diesel. Within the common intake there are no active components servicing the diesels with the possible exception of redundant heat tracing on the intake louvers which may be added. These features are shown in the attached drawing.

The intake structure will withstand the effects of the Safe Shutdown Earthquake, the Operating Basis Earthquake, the Probable Maximum Flood, Tornado and Tornado generated missiles, as required by GDC 2. An evaluation of potential accidents which could occur in the vicinity of the site as required by SRP 2.2.3 has confirmed the acceptability of using a common intake.

As required by SRP 9.5.8, Item 8 of Section II, the Supply System has also taken the necessary design precautions to ensure that there is no plausible event that could reduce the oxygen content below acceptable levels at the common intake location.

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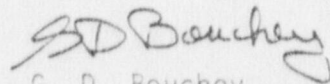
Mr. Youngblood
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On this basis the Supply System has determined that the use of a common diesel air intake structure is acceptable.

We would appreciate receiving NRC agreement with the use of a common intake structure for both diesel generators at WNP-1/4 by February 27, 1981.

Very truly yours,

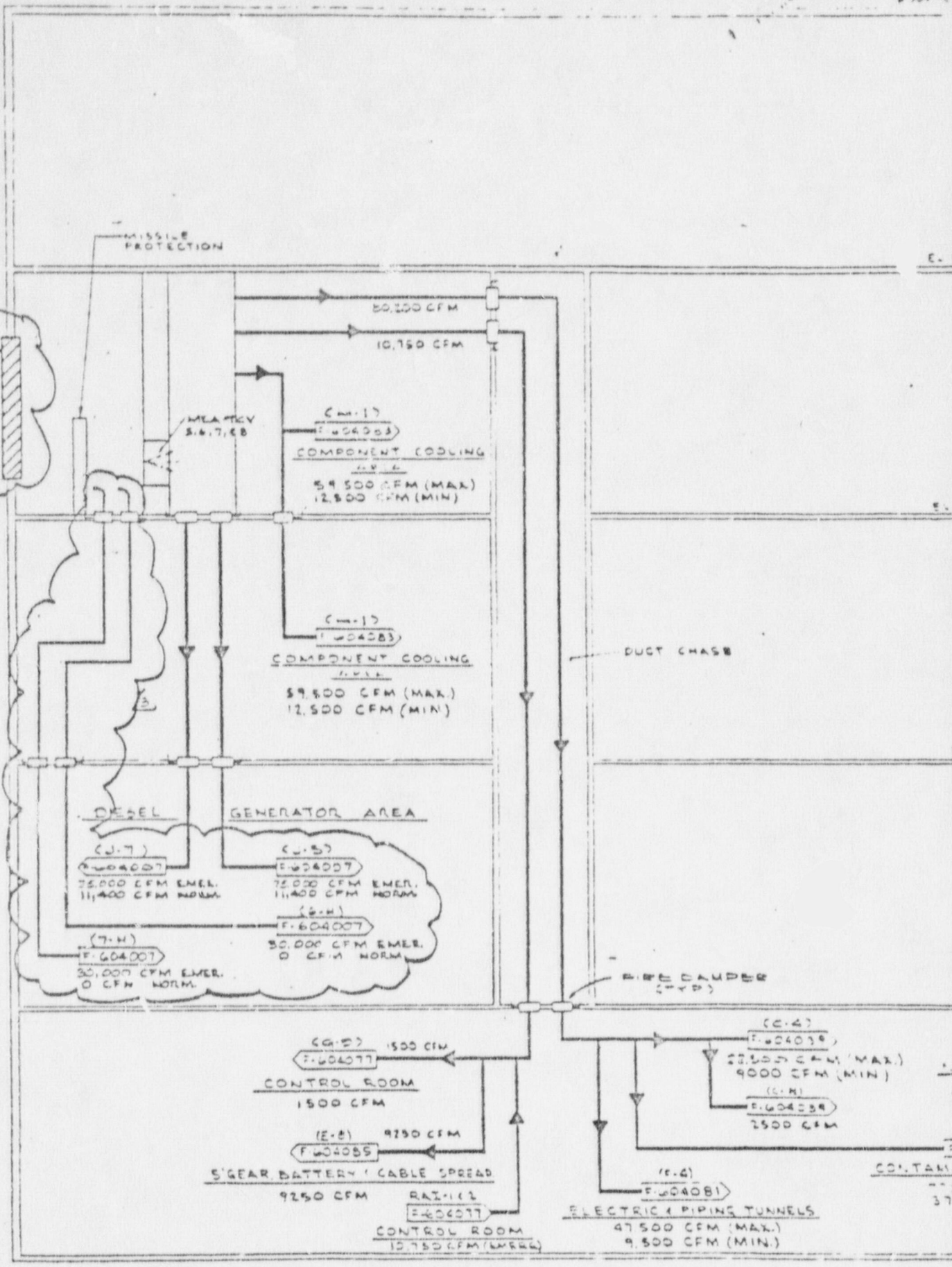
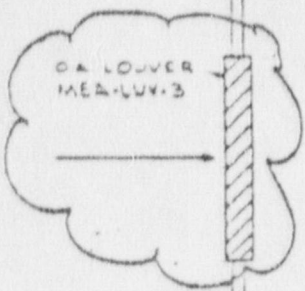


G. D. Bouchey
Director, Nuclear Safety

GDB:AGH:sh

Attachment

cc: CR Bryant, Bonneville Power Administration
V Mani, United Engineers & Constructors, Inc.-PA
A Bournia, Nuclear Regulatory Commission
EDC Files - 1/4
FDCC



REF. DVG 61
5K-1, 5K-2, 5K-3 & 5K-4

CATEGORY 1 O.A. INTAKE AT EL. 479'-0"

AIR INTAKE NO 3

PROPOSED CHANGES TO DIESEL COMBUSTION AIR INTAKES

(CIRCLED NO. 3)

11-8-80

REF. DVG 61
5K-1, 5K-2, 5K-3 & 5K-4