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 FACIL: 50-397 WPPSS Nuclear Project, Unit 2, Washington Public Power 05000397
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 MATLOCK, R.G. Washington Public Power Supply System
 RECIP. NAME: RECIPIENT AFFILIATION
 ENGELKNE, R.H. Region 5, San Francisco, Office of the Director

SUBJECT: Interim deficiency report re diesel generator bldg heating, ventilation & air conditioning sys design, initially reported on 810305. Final report by 810701.

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 TITLE: Construction Deficiency Report (10CFR50.55E)

NOTES: PM: 2 copies of all material.

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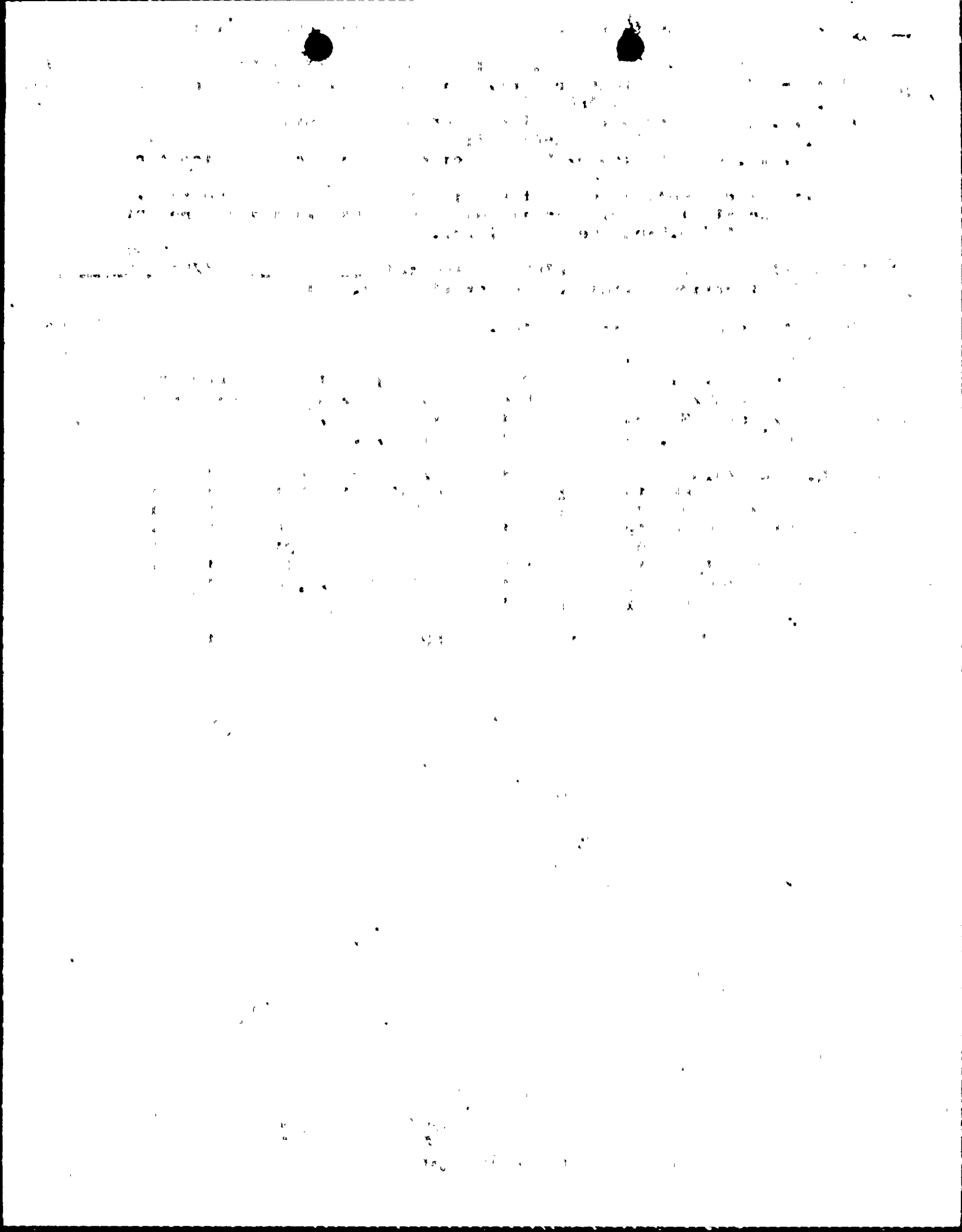
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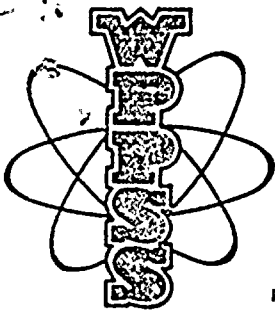
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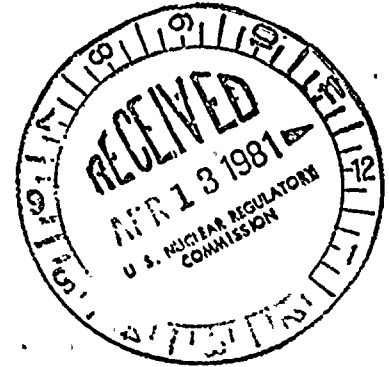
April 7, 1981
G02-81-72

Docket No. 50-397

Nuclear Regulatory Commission
Region V
Suite 202, Walnut Creek Plaza
1990 N. California Blvd.
Walnut Creek, California 94596

Attention: Mr. R. H. Engelken
Director

Subject: WPPSS Nuclear Project No. 2
Docket No. 50-397, CPPR-93
Potentially Reportable 10CFR50.55(e)
Condition - WNP-2 No. 142
"Diesel Generator Building HVAC Systems"



Gentlemen:

In accordance with provisions of 10CFR50.55(e), your staff was informed by telephone on March 5, 1981, of a "Potentially Reportable" condition in respect to a possible design deficiency in the Diesel Generator Building HVAC systems. The deficiency may result in failure of HVAC ductwork during a tornado event which could degrade the capability of the systems to perform their intended function.

Attached is an interim report on the subject condition. Please contact us if you have additional questions.

Very truly yours,

R.G. Matlock
R.G. Matlock
Program Director, WNP-2

RGM:HLB:cph
attachment

cc w/att: V. Stello - NRC
AD Toth - NRC Resident Inspector
RE Snaith - Burns & Roe
JJ Verderber - Burns & Roe
RC Root - Burns & Roe, site
TA Mangelsdorf - Bechtel, site
W. Wood - NUS Corporation
WS Chin - Bonneville Power Admin.
WNP-2 Files

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Interim Report

POTENTIALLY REPORTABLE CONDITION
WPPSS NUCLEAR PROJECT NO. 2
DIESEL GENERATOR BUILDING HVAC SYSTEMS

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
DOCKET NO. 50-397
LICENSE NO. CPPR-93

Potential Problem

The potential problem involves the adequacy of the Emergency Diesel-Generator Building HVAC ductwork to withstand damage and loss of function during a tornado event. This concern resulted from a similar potentially deficient condition reported to the NRC by our WNP-1/4 Projects.

Designs of the systems for WNP-2 and WNP-1/4 are similar in that common intakes are utilized for both diesel engine air and HVAC air. The WNP-2 systems, however, do not include tornado dampers as utilized by WNP-1/4 projects and as incorrectly reported in the telephone notification of the potential condition on March 5, 1981.

Approach to Resolution of the Problem

1. Determine the differential pressure conditions and rates of change in pressure the HVAC ductwork will be subjected to during a tornado event considering the relative venting rates of the ductwork and surrounding building volumes.
2. Evaluate the capability of the present ductwork to withstand, without damage, the pressure conditions determined to exist from Item 1 above.
3. Determine design modifications to the ductwork or system arrangement required to correct any deficient conditions which are identified.

In addition to the Emergency Diesel Generator Building HVAC systems, reviews will be made of other WNP-2 safety related HVAC systems to determine if similar potential deficiencies may exist. Parameters specified for Region III in Table I of Regulatory Guide 1.76, Revision 0, dated April 1974 will apply for all system reviews.

Status of Proposed Resolution

The WNP-2 Architect/Engineer was directed by letter, WPBR-81-39 dated February 27, 1981, to perform the required analyses and evaluations of the safety related HVAC systems and to determine design or system modifications required.

The required work is currently in progress.

Reason Why a Final Report Will Be Delayed

Additional time required to accomplish the system evaluations and to determine modifications required.

Projected Completion of Corrective Action and Report

It is expected a final report identifying deficient conditions and corrective action can be provided to the NRC by July 1, 1981.

