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ACCESSION NBR: 8103030786 DOC. DATE: 81/02/23 NOTARIZED: NO DOCKET #
 FACIL: 50-397 WPPSS Nuclear Project, Unit 2, Washington Public Powe 05000397
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 MATLOCK, R.G. Washington Public Power Supply System
 RECIP. NAME RECIPIENT AFFILIATION
 ENGELKEN, R.H. Region 5, San Francisco, Office of the Director

SUBJECT: Deficiency rept re overloads on supports for spray pond piping, initially reported on 801114. Missing axial restraint lugs will be installed by contractor.

DISTRIBUTION CODE: 8019S COPIES RECEIVED: LTR 1 ENCL 1 SIZE: 2
 TITLE: Construction Deficiency Report (10CFR50.55E)

NOTES: PM: 2 copies of all material.

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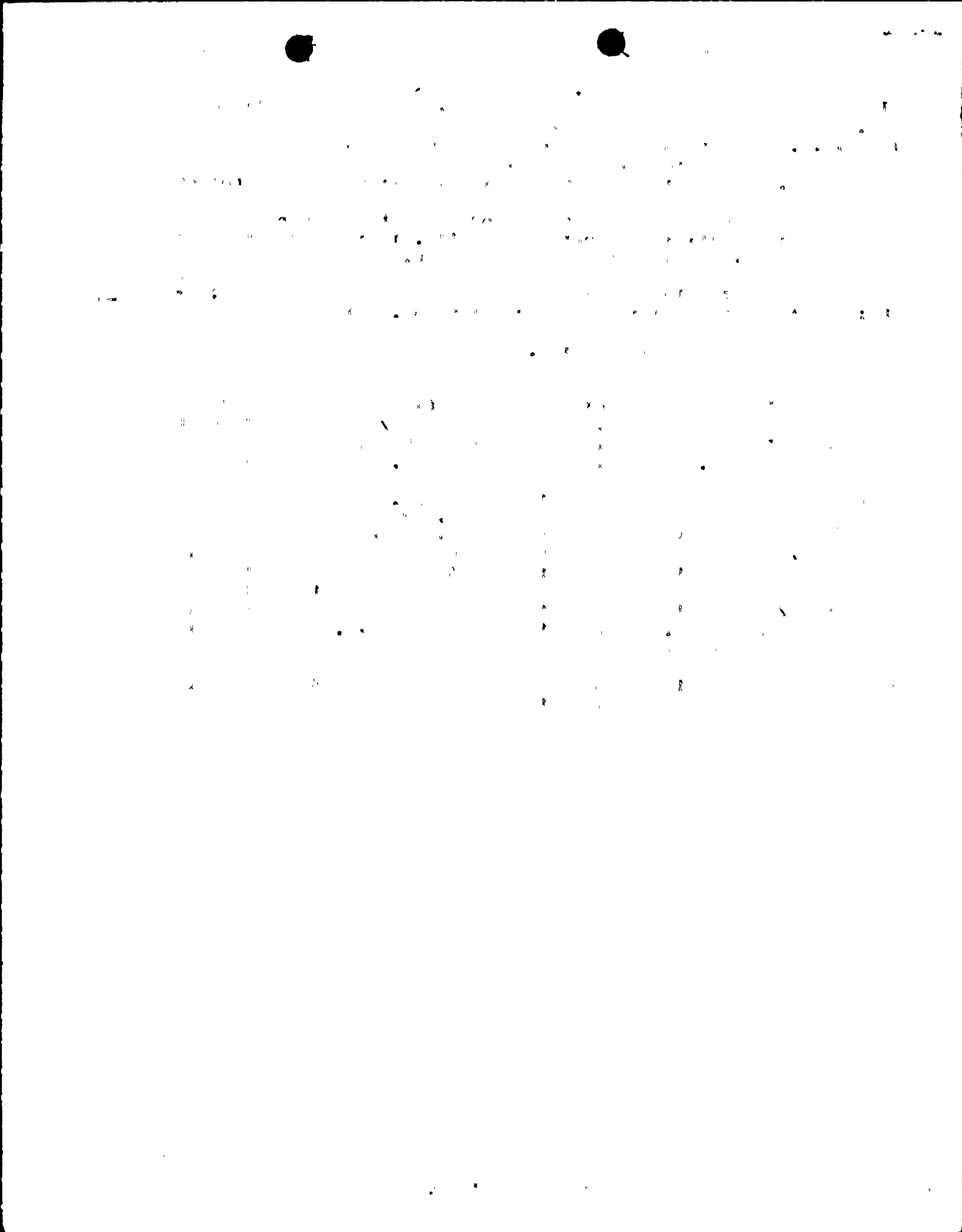
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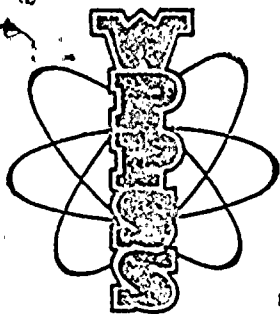
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Washington Public Power Supply System
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Docket No. 50-397, CPPR-93

February 23, 1981
602-81-30

Nuclear Regulatory Commission
Region V

Suite 202, Walnut Creek Plaza
1990 North California Blvd.
Walnut Creek, CA 94596

Attention: Mr. R. H. Engelken, Director

Gentlemen:

Subject: WPPSS NUCLEAR PROJECT NO. 2
REPORTABLE DEFICIENCY - 10CFR50.55(e)
OVERLOADS ON SUPPORTS FOR SPRAY POND PIPING

In accordance with the guidelines established for the reporting of 10CFR50.55(e) conditions, your staff was informed by telephone on November 14, 1980 of a "Potentially Reportable" condition regarding overloads on supports for spray pond piping. An interim report describing the deficiency and our approach to the resolution was submitted per 602-80-290, dated December 15, 1980.

The WNP-2 Project has completed its evaluation and has determined this condition to be reportable under the provisions of 10CFR50.55(e).

Attached is our report on this deficiency.

Please contact us if you have additional questions.

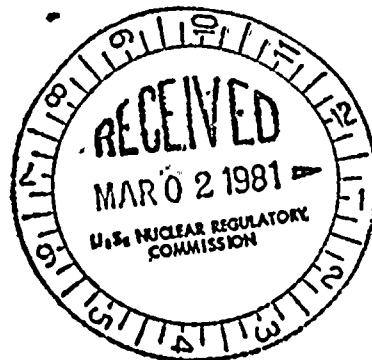
Very truly yours,

R.G. MATLOCK
Program Director, WNP-2

RGM:PEP:cd

Attachment: Deficiency Report

cc: WS Chin - BPA
ND Lewis - EFSEC, Olympia
V. Stello - NRC
AD Toth - NRC Resident Inspector
JJ Verderber - B&R NY
B. Wood - NUS Corporation
WNP-2 Files



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WPPSS NUCLEAR PROJECT NO. 2

REPORTABLE DEFICIENCY AND CORRECTIVE ACTION
FOR THE OVERLOADS ON SUPPORTS
FOR SPRAY POND PIPING

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

Nature of Deficiency

In reviewing the effect of new seismic loads on the Standby Service Water System, loads in excess of the design allowables for expansion bolts were identified in four of the pipe supports and axial restraint lugs were found missing at one support. These overloads were not a result of the revised seismic loads but due to the original hardware design.

Safety Significance

Although the design margins for the expansion bolts were reduced, they were not eliminated. Failure of these bolts would not be predicted. In addition, the new flexible plate analysis shows that the stress in these bolts will not exceed the design allowable.

The maximum stress in the pipe was found to be above the yield strength of the material due to the missing restraint lugs. Although the amount of deformation predicted is small and the stress is well below the ultimate strength of the material, the design margin has been eliminated. It is felt that due to any uncertainties that may exist, it is possible that the piping system might not be able to perform its intended function as a result of a seismic event. This could adversely affect the ability to safely shut down the plant if an active failure were to occur in the alternate Standby Service Water loop.

Corrective Action

A contractor has been directed to install the missing axial restraint lugs. This action reduces the calculated pipe stress to below the maximum ASME allowable.

