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 RECIP. NAME: RECIPIENT AFFILIATION
 ENGELKEN, R.H. Region 5, San Francisco, Office of the Director

SUBJECT: Interim deficiency rept re design basis for pipe whip supports inside containment on high energy lines containing check valve or normally closed valve. Extent of pipe whip due to jet impingement will be analyzed. Next rept by 810630.

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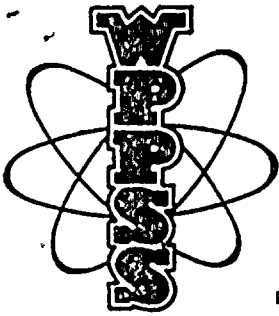
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Washington Public Power Supply System
A JOINT OPERATING AGENCY

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Docket No. 50-397
CPPR-93

January 29, 1981
G02-81-18

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

Attention: Mr. R. H. Engelken, Director

Gentlemen:

Subject: WPPSS Nuclear Project No. 2
Potentially Reportable Deficiency - 10CFR50.55(e)
Design Basis for Pipe Whip Supports
Inside Containment

Your staff was previously informed by telephone on December 29, 1980, of a potentially reportable 10CFR50.55(e) condition regarding the design basis for pipe whip supports inside containment on high energy lines containing a check valve or normally closed valve. Attached please find the WNP-2 Project's Interim Report which identifies the approach that is being taken to resolve this condition.

An updated report on this condition will be submitted on June 30, 1981. At that time, the majority of the analysis should be complete. A final report will be issued when the analysis is finished and an evaluation of the resulting safety significance is completed.

Please contact us if you have additional questions.

Very truly yours,

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

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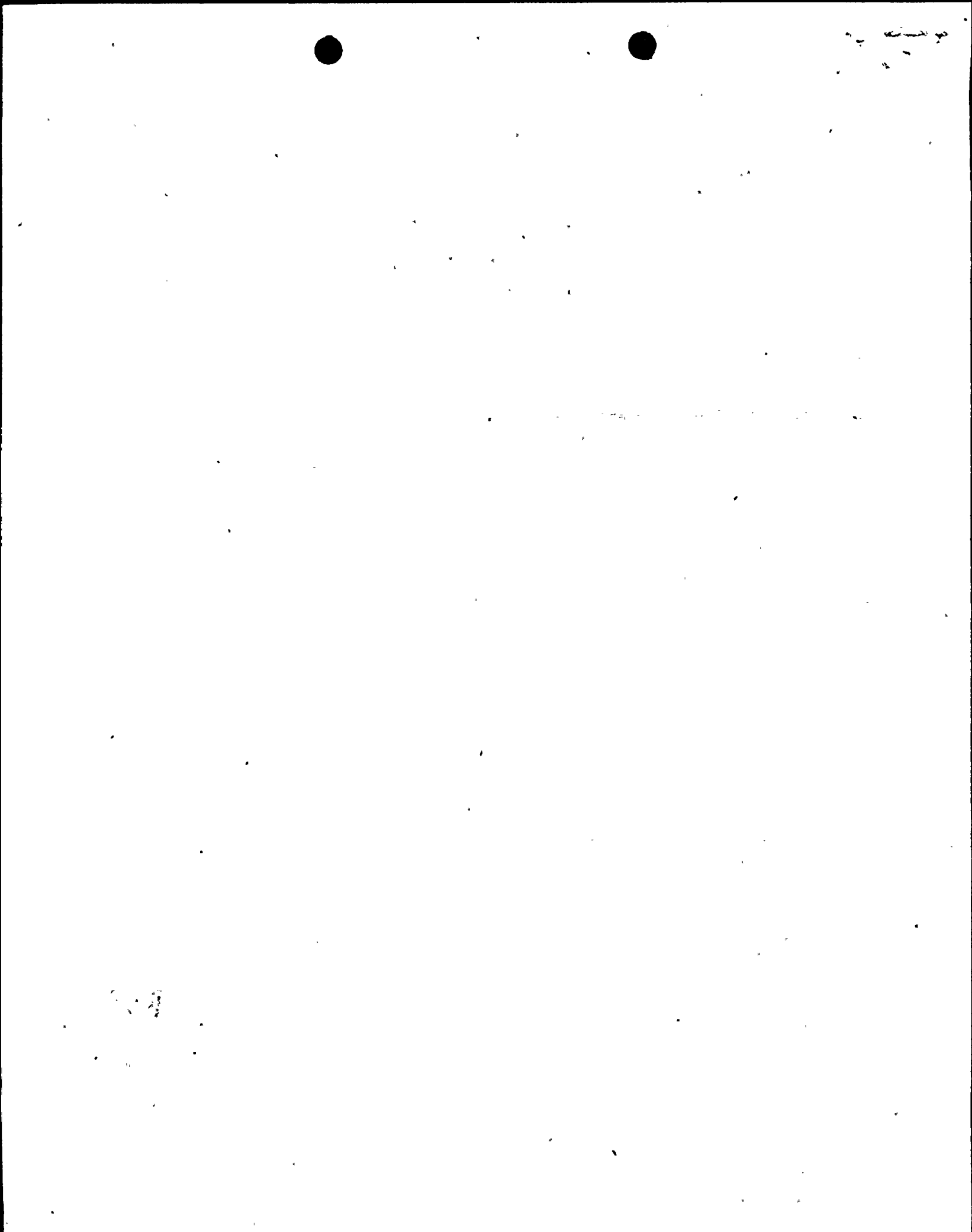
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WASHINGTON PUBLIC POWER SUPPLY SYSTEM
DOCKET NO. 50-397
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INTERIM REPORT

POTENTIALLY REPORTABLE CONDITION
WPPSS NUCLEAR PROJECT NO. 2
DESIGN BASIS FOR PIPE WHIP SUPPORTS
INSIDE CONTAINMENT

Statement of Problem: The jet impingement forces that could act on a section of pipe downstream of a postulated pipe break which contains a check valve or normally closed valve were not considered when pipe whip supports were designed inside containment. The downstream pipe section could whip, causing damage to safety related equipment. This damage, when combined with a single active component failure, could prevent safe operation or shutdown.

Proposed Approach to Resolution: The Architect-Engineer will provide the Supply System with the locations of all high energy lines inside containment that contain check valves or normally closed valves. The Supply System will continue analysis of postulated pipe ruptures, concentrating on those systems identified above. The extent and effect of pipe whip due to jet impingement at each location identified above will be analyzed. Supply System Field Engineering is currently providing a field inspection of potential problem areas to supplement the analysis. Additional pipe whip supports will be provided where the analysis indicates pipe whip cannot be tolerated.

An updated report on this condition will be submitted on June 30, 1981. At that time, the majority of the analysis should be complete. A final report will be issued when the analysis is finished and an evaluation of the resulting safety significance is completed.

