

Washington Public Power Supply System

P.O. Box 968 3000 George Washington Way Richland, Washington 99352 (509) 372-5000

June 8, 1981
G02-81-147

Docket No. 50-397

U. S. 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:

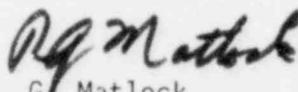
Subject: SUPPLY SYSTEM NUCLEAR PROJECT NO. 2
POTENTIALLY REPORTABLE DEFICIENCY - 10CFR50.55(e)
PIPE WHIP RESTRAINTS INSIDE CONTAINMENTReference: Letter G02-81-18, dated January 29, 1981,
RG Matlock to RH Engelken

The Reference letter informed your office of a condition regarding the design basis for pipe whip restraints which was considered to be potentially reportable under the provisions of 10CFR 50.55(e). As indicated in the Reference, it was found that portions of unrestrained piping systems downstream of check valves or normally closed valves could whip, causing damage to safety related components. For this condition, the unrestrained pipe is not driven by jet reaction forces, since the piping is moderate energy piping, but by jet impingement forces acting on the pipe from a postulated break in the high energy piping upstream of the unrestrained piping.

In one case representative of this condition, safety related electrical conduit, not yet installed, which was to have been located within 18 inches of the unrestrained pipe would have been impacted, and possibly damaged due to a postulated break in the piping upstream of the unrestrained piping. This conduit has been rerouted. In several other cases analyzed so far, it has been determined that no safety related systems or components are threatened.

The purpose of this letter is to advise you of the results of our investigations to date, and of our conclusion that this condition is not a reportable deficiency, under the terms of 10 CFR 50.55(e). The basis for this is that even though, in at least one case, the design of installed piping had been such that a postulated break could have resulted in damage to a safety related system, the overall normal design process, which includes pipe break and missile studies and any resulting plant modification, was not completed. It was as a result of the design review process that this condition was found.

Very truly yours,



R. G. Matlock
Program Director
WNP-2

EAF:kjf

cc: WS Chin - BPA
ND Lewis - EFSEC, Olympia
TA Mangelsdorf - Bechtel 954K
RC Root - B&R Site 901A
RE Snaith - B&R NY
AD Toti - NRC Resident Inspector
JJ Verderber - B&R NY
W. Wood - NUS Corporation
A. Schwencer - NPC
WNP-2 Files
PE Grady - BPA

NRC COMMITMENTS

Responsible Engineer: E. A. Fredenburg

Due Date: June 30, 1981

Summary: Previously identified potentially reportable deficiency regarding unrestrained piping inside containment, subjected to jet impingement forces, is determined to be not reportable.