

50-305
September 18, 1973

J. M. Hendrie, Deputy Director for Technical Review

TECHNICAL ASSISTANCE REQUEST

Your assistance is requested in evaluating the adequacy of the valve discs of the main steam isolation and check valve assemblies for the Prairie Island and Kewaunee nuclear plants. The following information is provided:

Plant Names: Prairie Island Nuclear Generating Plant,
Units 1 and 2
Kewaunee Nuclear Power Plant

Licensing Status: OL

Docket Numbers: 50-282, 50-306, 50-305

Responsible Branch: PWR-2

Project Managers: L. L. Kintner (x7407)
L. P. Crocker (x7407)

Technical Review
Branch Involved: Mechanical Engineering Branch

Target Date for
Completion: September 28, 1973

Description of Request: Evaluation of design analysis of
replacement valve discs

The main steam isolation and check valve assemblies for the Prairie Island and Kewaunee plants were among those that experienced problems with cracked valve discs. The original valves have now been modified on both plants by changing the valve disc material to 410 stainless steel and by adding a rupture disc assembly to the isolation valve air-cylinder actuators.

The applicants for these plants have jointly submitted two topical reports prepared by the Nuclear Services Corporation which analyze the disc impact energy and provide a structural analysis of the valves.

These reports are P10-02-03 "Analysis Report - Maximum Energy of Disc Impact - Main Steam Check and Isolation Valves for Kewaunee Unit 1", and NSC-P10-01-06

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"Analysis Report - Structural Analysis of Main Steam Check and Isolation Valves for Prairie Island Unit 1." Taken together, these reports describe the analyses of the valves for both the Prairie Island and Kewaunee plants.

The acceptability of these replacement valve discs needs to be verified prior to plant operation, which for Prairie Island is scheduled for about September 28, 1973.

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R. C. DeYoung, Assistant Director
for Pressurized Water Reactors
Directorate of Licensing

cc: R. R. Maccary
J. P. Knight
R. W. Klecker

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