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 FACIL: 50-397 WPPSS Nuclear Project, Unit 2, Washington Public Power 05000397  
 AUTH. NAME: SORENSEN, G.C. AUTHOR AFFILIATION: Washington Public Power Supply System  
 RECIP. NAME: BUTLER, W.R. RECIPIENT AFFILIATION: Licensing Branch 2

SUBJECT: Requests approval to use encl ASME Section XI Code, Case N-416, "Alternative Rules for Hydrostatic Testing of Repair or Replacement of Class 2 Piping, Section XI, Div 1," at facility to reduce exposure & sys down time.

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## Washington Public Power Supply System

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

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DOCKET NO. 50-397

June 14, 1985  
G02-85-313

Director of Nuclear Reactor Regulation  
Attention: Mr. W. R. Butler, Chief  
Licensing Branch No. 2  
Division of Licensing  
U. S. Nuclear Regulatory Commission  
Washington, D.C. 20555

Dear Mr. Butler:

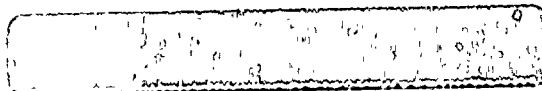
Subject: NUCLEAR PLANT NO. 2  
USE OF ASME SECTION XI CODE CASE N-416  
ALTERNATIVE RULES FOR HYDROSTATIC TESTING OF REPAIR OR  
REPLACEMENT OF CLASS 2 PIPING, SECTION XI, DIVISION 1

The Supply System requests approval to use the above referenced Code Case at our WNP-2 plant.

WNP-2 is committed to the Winter 1980 Addenda and 1980 Edition of ASME Section XI. This Code Case permits the deferral of a system hydrostatic test, as required by IWA 4000, until the next scheduled system hydrostatic test, if the repaired or replaced piping cannot be isolated by existing valves or if safety or safety relief valves must be secured from isolation.

Both of the following conditions are to be met as the alternative to the hydro.

- (a) Prior to or immediately upon return to service, a Visual Examination (VT-2) for leakage shall be conducted during a system functional test or during a system inservice test in the replaced or repaired portion of the piping system.



A047  
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THE UNITED STATES OF AMERICA  
DO hereby certify that  
[Name] is a citizen of the United States of America  
and is entitled to the rights and privileges of citizenship.

WITNESSETH my hand and seal this [Date] day of [Month], 19[Year].

Attest: [Signature] Secretary of State

[Signature] [Name]  
[Address]  
[City, State, ZIP]

THIS CERTIFICATE IS VALID FOR THE PURPOSES OF THE NATURALIZATION ACT OF 1906, AS AMENDED, AND THE NATURALIZATION ACT OF 1940, AS AMENDED.

IN WITNESS WHEREOF, I have hereunto set my hand and seal this [Date] day of [Month], 19[Year].

Attest: [Signature] Secretary of State

[Signature] [Name]  
[Address]  
[City, State, ZIP]

Mr. W. R. Butler, Chief  
Licensing Branch No. 2 - NRC  
Use of ASME Section XI Code Case N-416  
Page 2

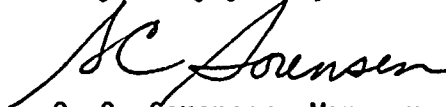
- (b) The repair or replacement welds shall be examined in accordance with IWA 4000 and IWA 7000, using volumetric examination methods (IWA 2230) for full penetration welds or surface examination welds (IWA 2220) for partial penetration welds.

The interest and attention that this Code Case received at ASME Section XI meetings indicates that it will be listed in Regulatory Guide 1.147 and will be incorporated into the Code in the future Edition.

The use of this Code Case would be of significant benefit to us in reducing exposure and system down time, and actually would require a more stringent examination of the repair or replacement.

Your prompt approval is requested.

Very truly yours,



G. C. Sorensen, Manager  
Regulatory Programs

Attachment: Code Case N-416

cc: Mr. J. Bradfute, Nuclear Regulatory Commission  
Mr. W.S. Chin, Bonneville Power Administration  
Mr. M. Hum, Nuclear Regulatory Commission  
Mr. J.B. Martin, Nuclear Regulatory Commission  
Mr. E. Revell, Bonneville Power Administration  
Mr. N.S. Reynolds, Bishop, Liberman, Cook, Purcell & Reynolds  
Mr. A. Toth, Nuclear Regulatory Commission, WNP-2

1. The first step is to identify the problem. In this case, the problem is that the company is not meeting its sales targets.

2. The second step is to analyze the problem. This involves identifying the causes of the problem and determining the impact of the problem on the company.

3. The third step is to develop a solution. This involves identifying the actions that need to be taken to solve the problem and determining the resources that will be required.

4. The fourth step is to implement the solution. This involves putting the solution into action and monitoring the progress of the implementation.

5. The fifth step is to evaluate the results. This involves assessing the effectiveness of the solution and determining whether the problem has been solved.

Figure 1. The effect of the concentration of the *Agrobacterium* suspension on the transformation efficiency of *Agrobacterium* strains. The *Agrobacterium* strains were grown in YEA medium for 24 h at 28 °C. The cell concentration of the strains was adjusted to 10<sup>8</sup> cells/ml. The cell suspension was then diluted to 10<sup>6</sup>, 10<sup>7</sup>, 10<sup>8</sup>, 10<sup>9</sup>, and 10<sup>10</sup> cells/ml. The cell suspension was then inoculated into the plant tissue. The transformation efficiency was determined by the number of transformants per plant. The data were presented as the mean ± SD of three independent experiments. The asterisk (\*) indicates a significant difference between the control and the treatment groups.

Figure 1. The effect of the concentration of the *Agrobacterium* suspension on the transformation efficiency of *Agrobacterium* strains. The *Agrobacterium* strains were grown in YEA medium for 24 h at 28 °C. The cell concentration was adjusted to 1.0 × 10<sup>8</sup> cells/ml. The cell suspension was mixed with the plant tissue and incubated for 24 h at 28 °C. The plant tissue was then cultured on the selective medium. The transformation efficiency was calculated as the number of transformants per 100 mg of plant tissue. The data are the mean ± SD of three independent experiments.

1. *Chlorophyll a* and *Chlorophyll b* were determined by the method of Lichtenthal and Whistler (1973). The total chlorophyll content was determined by the method of Arar and Cook (1977). The carotenoid content was determined by the method of Lichtenthal and Whistler (1973). The total carotenoid content was determined by the method of Arar and Cook (1977). The total protein content was determined by the method of Lowry et al. (1951). The total lipid content was determined by the method of Bligh and Dyer (1959). The total carbohydrate content was determined by the method of Dubois and Gilles (1950). The total nucleic acid content was determined by the method of Burton (1956). The total ash content was determined by the method of AOAC (1970). The total water content was determined by the method of AOAC (1970). The total dry weight was determined by the method of AOAC (1970). The total organic matter content was determined by the method of AOAC (1970). The total inorganic matter content was determined by the method of AOAC (1970). The total mineral content was determined by the method of AOAC (1970). The total nutrient content was determined by the method of AOAC (1970). The total quality index was determined by the method of AOAC (1970).

Figure 1 is a 3D scatter plot showing the distribution of 1000 random samples from the posterior distribution of the parameters of the 1000 simulated models. The x-axis represents the 'Model' (from 1 to 1000), the y-axis represents the 'Parameter' (from 1 to 10), and the z-axis represents the 'Value' (from 0 to 100). The points are colored based on their value, with a color scale from blue (low) to red (high). The plot shows a dense distribution of points, with higher values concentrated in the later models and parameters.

CASES OF ASME BOILER AND PRESSURE VESSEL CODE

Approval Date: December 5, 1984

*See Numeric Index for expiration  
and any reaffirmation dates.*

Case N-416  
Alternative Rules for Hydrostatic Testing of Repair or  
Replacement of Class 2 Piping  
Section XI, Division 1

*Inquiry:* For Section XI, Division 1, repair or replacement of Class 2 piping that cannot be isolated by existing valves or that requires securing safety or relief valves from isolation, may the system hydrostatic test required by IWA-4400 (IWA-4210 in earlier Code editions) be deferred until the next regularly scheduled system hydrostatic test (IWC-5000) for that system?

*Reply:* It is the opinion of the Committee that the system hydrostatic test required by IWA-4400 (IWA-4210 in earlier Code editions) for repair or replacement

of Class 2 piping that cannot be isolated by existing valves or that requires securing safety or relief valves from isolation may be deferred until the next regularly scheduled system hydrostatic tests (IWC-5000), provided both of the following conditions are met.

(a) Prior to or immediately upon return to service, a visual examination (VT-2) for leakage shall be conducted during a system functional test or during a system inservice test in the repaired or replaced portion of the piping system.

(b) The repair or replacement welds shall be examined in accordance with IWA-4000 and IWA-7000 using volumetric examination methods (IWA-2230) for full penetration welds or surface examination methods (IWA-2220) for partial penetration welds.





Distribution  
w/o Enclosure  
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EHylton  
JBradfute

DOCKET NO(S). 50-397

Mr. G. C. Sorensen, Manager  
Regulatory Programs  
Washington Public Power Supply System  
P.O. Box 968  
3000 George Washington Way  
Richland, Washington 99352  
SUBJECT: WPPSS NUCLEAR PROJECT NO. 2

The following documents concerning our review of the subject facility are transmitted for your information.

- ☐ Notice of Receipt of Application, dated \_\_\_\_\_.
- ☐ Draft/Final Environmental Statment, dated \_\_\_\_\_.
- ☐ Notice of Availability of Draft/Final Environmental Statement, dated \_\_\_\_\_.
- ☐ Safety Evaluation Report, or Supplement No. \_\_\_\_\_, dated \_\_\_\_\_.
- ☐ Notice of Hearing on Application for Construction Permit, dated \_\_\_\_\_.
- ☐ Notice of Consideration of Issuance of Facility Operating License, dated \_\_\_\_\_.
- ☒ Monthly Notice; Applications and Amendments to Operating Licenses Involving no Significant Hazards Considerations, dated June 4, 1985.
- ☐ Application and Safety Analysis Report, Volume \_\_\_\_\_.
- ☐ Amendment No. \_\_\_\_\_ to Application/SAR dated \_\_\_\_\_.
- ☐ Construction Permit No. CPPR- \_\_\_\_\_, Amendment No. \_\_\_\_\_ dated \_\_\_\_\_.
- ☐ Facility Operating License No. \_\_\_\_\_, Amendment No. \_\_\_\_\_, dated \_\_\_\_\_.
- ☐ Order Extending Construction Completion Date, dated \_\_\_\_\_.
- ☐ Other (Specify) \_\_\_\_\_

Office of Nuclear Reactor Regulation

Enclosures:

As stated See next page

cc:

OFFICE	LB#2/DL						
SURNAME	EHylton						
DATE	6/13/85						

