Washington Public Power Supply System

Box 1223 Elma, Washington 98541 (206) 482-4428

Docket No. 50-508

March 17, 1983 G03-83-231

Document Control Desk
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Subject: POTENTIAL 10CFR50.55(e) DEFICIENCY

STRUCTURAL WELDS - FAILURE TO MEET AWS MINIMUM WELD SIZE REQUIREMENTS

(D/N #47)

Attached is a copy of the final report provided to Region V concerning a potential 10CFR50.55(e) deficiency associated with the subject condition.

Should you have any questions or desire further information, please contact me directly.

R. S. Leddick (760) Program Director, WNP-3

DRC:nj

Attachment

cc: J. Adams - NESCO, wo/a
D. Smithpeter - BPA, wo/a
Ebasco - New York, wo/a
WNP-3 Files - Richland, wo/a
Records Center - INPO, w/a

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Docket No. 50-508

March 14, 1983 G03-83-203

U. S. Nuclear Regulatory Commission, Region V Office of Inspection and Enforcement 1450 Maria Lane, Suite 260 Walnut Creek, California 94596-5368

Attention:

Mr. D. M. Sternberg, Chief Reactor Projects Branch No. 1

Subject:

POTENTIAL 10CFR50.55(e) DEFICIENCY STRUCTURAL WELDS - FAILURE TO MEET AWS MINIMUM WELD SIZE REQUIREMENTS

(D/N #47)

On November 24, 1982 the Supply System notified your office of a potential 10CFR50.55(e) deficiency concerning the subject condition. Attached is a Supply System approved final report that provides a description of the problem, corrective actions taken and analysis of the safety implications. Based on the satisfactory completion of qualification testing, the subject condition is not reportable in accordance with 10CFR50.55(e).

Should you have any questions or desire further information, please contact me directly.

R. S. Leddick (760) Program Director, WNP-3

DRC:ni

Attachments

cc: J. Adams - NESCO D. Smithpeter - BPA Ebasco - New York WNP-3 Files - Richland

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TENTIAL 100FR50.55(e) DEFICIENCY

"INIMUM WELDS - FAILURE TO MEET AWS "INIMUM WELD SIZE REQUIREMENTS (D/N #47) Page 2

Corrective Actions Taken (Continued)

Sec. 6: 60

- d) The test coupon was restrained to prevent movement during welding.
- e) The coupons were welded using the lowest amperage that would produce a visually acceptable weld.

The purpose of the above restrictions was to maximize the cooling rate and maximize restraint in order to provide a situation most likely to cause cracking.

To assure all field weld conditions were covered, the qualification testing also included a requirement for test coupons to be made for each electrode diameter and welding position used in production.

All of the specimens tested were acceptable per the acceptance criteria of AWS D1.1, Section 5. Of particular significance, was the fact that no cracks were found in the macro-etched samples.

Analysis of Safety Implications

Based on each of the contractor's test results, it has been concluded that fillet welding in accordance with the contractor's respective welding procedures will not produce the cracking which the provisions of AWS D1.1, Table 2.7, are intended to preclude. Since qualification testing has been successfully performed, the welds meet the requirements of AWS D1.1. Accordingly, the undersized welds are not reportable per the criteria of 10CFR50.55(e).