

Washington Public Power Supply System

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Docket Numbers 50-508 and 50-509

June 4, 1982

G03-82-564

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

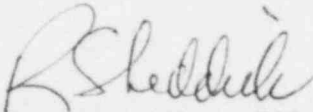
Attention: Mr. T. W. Bishop
Acting Chief, Reactor Construction Projects Branch

Subject: PROJECT NOS. 3 AND 5
POTENTIAL 10CFR50.55(e) DEFICIENCY
RT INDICATIONS, SAFETY INJECTION TANKS
AND REACTOR PUMP SUPPORTS (D/N #23)

In accordance with the provisions of 10CFR50.55(e), Region V was notified that the subject condition was potentially reportable. Subsequent investigation has determined that the deficiency is not significant and, were it to have remained uncorrected, it would not have adversely affected the safety of operations of the facility. Therefore, the deficiency is not reportable under 10CFR50.55(e).

Attached is the Supply System approved final report for the subject condition detailing a description of the deficiency, corrective/preventive actions taken and a safety analysis.

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



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

DRC/tt

Attachment

cc: J. Adams - NESCO
D. Smithpeter - BPA
Ebasco - New York
WNP-3/5 Files - Richland
A. A. Tuzes - C-E Power Systems

Washington Public Power Supply System
Potential 10CFR50.55(e) Deficiency
Safety Injection Tank and Reactor Pump
Support RT Indications (D/N #23)

Abstract

During the Ebasco on-site review of radiographs submitted by Combustion Engineering for the Safety Injection Tanks, Reactor Coolant Pump Volutes and Reactor Coolant Pump Motor Supports, radiographic procedural deviations and apparently unacceptable film indications were noted. A Nonconformance Report (NCR) was generated on April 10, 1981, documenting the above deficiencies. On April 28, 1981, the NRC was notified that the deficiencies were potentially reportable in accordance with 10CFR50.55(e).

An evaluation of these conditions was performed by Combustion Engineering and Ebasco. On July 6, 1981, a plan of action was initiated to resolve the discrepancies. The resolution required the correction of paperwork errors, performance of additional radiography and visual weld inspection. Upon completion of these required actions, the additional radiographs and documentation were reviewed. Upon review of this additional data, the discrepancies identified on the original Nonconformance Report were resolved.

When re-radiography of the safe-end welds on the Safety Injection Tanks was performed, linear indications were found that were not evident in the original CE radiographic film. Combustion Engineering notified the NRC of this condition by CE letter LD-82-052, dated May 4, 1982. The evaluation of these indications for reportability is not addressed in this report. CE will address this subject directly to the NRC. However, the corrective action for the conditions found at WNP-3/5 will be discussed.

Description of Problem

The potential problem involves questionable indications on radiographic film of WNP-3 Safety Injection Tanks, Reactor Coolant Pump Volutes and the Reactor Coolant Pump Motor Supports. Failure of welds in these components could result in failure of the associated Class I systems to perform their designed safety functions. The components and questionable film were supplied by Combustion Engineering.

Ebasco initiated a Nonconformance Report that identified all radiographs found unacceptable due to improper radiographic technique, process and documentation. Specifically, areas of concern were:

1. Conflict between Ebasco and CE concerning code description of porosity vs. slag.
2. Incorrect penetrameter used.
3. Reader sheet incorrect.

Description of Problem (Continued)

4. Geometric unsharpness.
5. Penetrameter not spaced per ASME V and portion of qualifying penetrameter cut-off of film.
6. No penetrameter on repair film and questionable station markers on weld.
7. Penetrameter and location markers in weld and reader sheet incorrect.

Corrective Actions

With the completion of the additional radiography and correction of the documentation errors, all welds were found acceptable with one exception. Linear indications were found in the Safety Injection Tank safe-ends. As previously noted, these indications will be evaluated and reported to the NRC by CE. Combustion Engineering has committed to repair these welds on site. Additionally, aggregate slag found in a weld on a Reactor Coolant Pump Motor Support was subject to differing interpretations as to acceptability to ASME Code Section III by Ebasco and CE NDE Level III's. However, during the normal fabrication process, prior to re-radiography, a vent hole had been drilled that removed the indication. As a result, the difference in interpretation between Ebasco and CE is no longer relevant. Since the indication has been removed, the hardware is considered acceptable and no corrective action is required.

Safety Implications

Combustion Engineering will address the reportability of the Safety Injection Tank safe-ends. All of the remaining discrepancies (previously identified in the "Description of Problem") were resolved by re-radiography and correction of documentation errors. No repairs were required for any of the remaining welds. Therefore, these deficiencies would not adversely affect the safety of operations of the facility and are not reportable in accordance with 10CFR50.55(e).