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ACCESSION NBR: 8101210327 DOC. DATE: 81/01/13 NOTARIZED: NO DOCKET #
 FACIL: 50-438 Bellefonte Nuclear Plant, Unit 1, Tennessee Valley Au 05000438
 50-439 Bellefonte Nuclear Plant, Unit 2, Tennessee Valley Au 05000439
 AUTH. NAME AUTHOR AFFILIATION
 MILLS, L.M. Tennessee Valley Authority
 RECIP. NAME RECIPIENT AFFILIATION
 O'REILLY, J.P. Region 2, Atlanta, Office of the Director

SUBJECT: Final deficiency rept, originally reported 801212, re threaded
 pipet qualification. WFI, Inc pipets identified, analyzed &
 accepted per design procedures. Remainder will be analyzed
 for stress intensity factors by 810306.

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 TITLE: Construction Deficiency Report (10CFR50.55E)

NOTES:

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JAN 22 1981

TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401

400 Chestnut Street Tower II

January 13, 1981

BLRD-50-438/81-03
BLRD-50-439/81-03

Mr. James P. O'Reilly, Director
Office of Inspection and Enforcement
U.S. Nuclear Regulatory Commission
Region II - Suite 3100
101 Marietta Street
Atlanta, Georgia 30303

Dear Mr. O'Reilly:

BELLEFONTE NUCLEAR PLANT UNITS 1 AND 2 - THREADED PIPET QUALIFICATION -
BLRD-50-438/81-03, BLRD-50-439/81-03 - FINAL REPORT

The subject nonconformance was initially reported to NRC-OIE Inspector
M. Thomas on December 12, 1980, in accordance with 10 CFR 50.55(e) as
NCR 1313. Enclosed is our final report.

If you have any questions concerning this matter, please get in touch with
D. L. Lambert at FTS 857-2581.

Very truly yours,

TENNESSEE VALLEY AUTHORITY

L. M. Mills, Manager
Nuclear Regulation and Safety

Enclosure

cc: Mr. Victor Stello, Jr., Director (Enclosure) ✓
Office of Inspection and Enforcement
U.S. Nuclear Regulatory Commission
Washington, DC 20555

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ENCLOSURE

BELLEFONTE NUCLEAR PLANT UNITS 1 AND 2
THREADED PIPET QUALIFICATION

BLRD-50-438/81-03

BLRD-50-439/81-03

10 CFR 50.55(e)

FINAL REPORT

Description of Deficiency

TVA specified "Bonny Forge Welded Thredolet or Equal" in a procurement document. TVA accepted "Threaded Pipets" manufactured by WFI, Inc., as equal to the Bonny Forge items. The WFI "Pipets" stress intensity factors are higher than the Bonny Forge items.

Safety Implications

The subject fittings are mathematically represented as stress intensity factors in dynamic loading analyses. The analyses indicate the ability of the piping system to withstand the loading configurations that might occur during an earthquake. In each system that the "threaded pipets" have been identified, the analysis has been checked with the higher stress intensity factors. In no case has the higher stress intensity factor altered the results of analysis.

As a result, there is no implication to safety.

Corrective Action

TVA has identified all cases in the Essential Raw Cooling Water System where WFI "Pipets" have been installed. The installed pipets have been analyzed and accepted per design procedures. For the remainder, TVA will analyze the stress intensity factors on a case-by-case basis. In any case that the analysis indicates the WFI fittings are inadequate, an acceptable alternative fitting will be used. The investigation and analysis should be completed by March 6, 1981.