



Tennessee Valley Authority, Post Office Box 2000, Spring City, Tennessee 37381

AUG 01 1991

John H. Garrity
Vice President, Watts Bar Nuclear Plant

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

Gentlemen:

In the Matter of the Application of) Docket Nos. 50-390
Tennessee Valley Authority) 50-391

WATTS BAR NUCLEAR PLANT (WBN) UNITS 1 AND 2 - NRC BULLETIN 88-05,
NONCONFORMING MATERIALS SUPPLIED BY PIPING SUPPLIES, INC., AT FOLSOM,
NEW JERSEY, AND WEST JERSEY MANUFACTURING (WJM) COMPANY AT WILLIAMSTOWN,
NEW JERSEY

This letter is to inform you of TVA's program to respond to NRC Bulletin
88-05. TVA has reviewed material records and has determined that there
have been approximately 1800 flanges manufactured by WJM delivered for
construction at WBN. TVA has not identified any material manufactured by
Piping Supplies, Inc., or Chews Landing Metal Manufacturers, Inc., at WBN.

Previous testing performed by the Nuclear Utilities Management and
Resource Council (NUMARC), and other utilities, demonstrated
acceptability for use of the material from the subject suppliers.
Therefore, TVA considers that demonstration of the acceptability of a
statistically significant sample of the WJM material fulfills the intent
of NRC Bulletin 88-05, and negates the need to test all WJM flanges.
This program is described in the Enclosure 1. Upon completion of the
described program, TVA will provide the results of the testing and
subsequent analysis as requested by the bulletin. TVA would be glad to
meet and discuss additional details as necessary.

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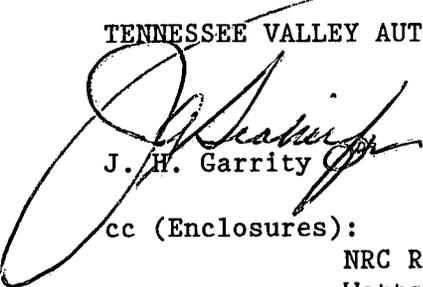
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The commitment to provide the results of the testing will be tracked in TVA's commitment tracking systems and is listed in Enclosure 2. If you have any questions concerning this material, please telephone M. C. Bryan at (615) 365-8819.

Very truly yours,

TENNESSEE VALLEY AUTHORITY



J. H. Garrity

cc (Enclosures):

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ENCLOSURE 1

WATTS BAR NUCLEAR PLANT (WBN) UNITS 1 AND 2
NONCONFORMING PIPING MATERIALS
NRC BULLETIN 88-05

The initial material records search identified that approximately 1800 items made from 44 separate heat numbers of West Jersey Manufacturing (WJM) Company were delivered to WBN. Those items were SA105 or A105 forged carbon steel pipe flanges. Flange sizes ranged from 3/4 inch to 24 inches (70 percent were in the range of 2 to 8 inches in diameter) and with pressure ratings ranging from 150 pounds to 1500 pounds (90 percent were 150 or 300 pound flanges). Flanges were received from two different suppliers: Capital and Dravo. None of the identified flanges have the heat number 7218 that was identified as nonconforming by Carolina Power & Light.

A statistically significant sample of WJM flanges (58 flanges is an acceptable sample size to an infinite population) will be located. Searches for WJM material will be focused on systems requiring carbon steel flanges with ratings of 150 and 300 pounds per square inch (e.g., ERCW, chilled water), as they contain 90 percent of the subject flanges. This search will continue until a sample of 58 WJM flanges has been located.

The WJM flanges to be sampled will be tested in place in order to ensure their acceptability for intended service. Testing will consist of surface hardness determination using EQUOTIP testing equipment and the hardness-to-tensile strength correlation developed and reported in NUMARC Report 88-01, "Response to NRC Bulletin 88-05," dated October 1988. Results obtained from testing and correlation will be reviewed against SA/A105 requirements for tensile strength and hardness. Any deviant results will be reviewed against specific design application requirements to ensure adequacy for service.

Based on the magnitude of WJM material testing performed by other utilities, the subsequent testing by NUMARC, and on the overall success of that testing, TVA considers that by determining acceptability of the application of WJM material for a statistically significant population, the need to test all WJM flanges is negated.

ENCLOSURE 2

WATTS BAR NUCLEAR PLANT (WBN) UNITS 1 AND 2
NONCONFORMING PIPING MATERIALS
NRC BULLETIN 88-05
COMMITMENT LIST

Upon completion of the described program, TVA will provide the results of the testing and subsequent analysis as requested by the bulletin.