

## UNITED STATES ATOMIC ENERGY COMMIS

DIVISION OF COMPLIANCE REGION I

970 BROAD STREET NEWARK, NEW JERSEY 07102 201 645.

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Metropolitan Edison Company Attention: Mr. J. G. Miller, Vice President P.O. Box 542 Reading, Pennsylvania 19603

Docket Nos. 50-289 50-320

## Gentlemen:

We recently received information from the Florida Power & Light Company concerning an occurrence during preoperational testing of the Turkey Point 3 pressurized water reactor which may relate to the performance of steam line pressure relief valve headers in your facility.

This letter provides you with a copy of the body of a telegram sent to all operating reactors by cognizant Regional Offices of the Division of Compliance.

For your reactors which are not yet licensed to operate, no response to this letter is required of you. We will review this watter during our continuing inspection program.

Should you have any questions concerning this matter, we will be pleased to discuss than with you.

Very truly yours,

James P. O'Reilly Director

Enclosure: Body of Telegram

bcc: A. Giambusso, CO

L. Kornblith, CO

R. Engelken, CO

J. G. Keppler, CO

J. B. Henderson, CO(5)

DR Central Files

1588 005

## ENCLOSURE

## BODY OF TELEGRAM TO LICENSEES OF OPERATING POWER REACTORS

WE RECENTLY RECEIVED INFORMATION FROM THE FLORIDA POWER & LIGHT COMPANY

OF AN OCCUPANCE DURING PREOPERATIONAL TESTING OF THE TURKEY POINT 3 (W)

PRESSURIZED WATER REACTOR THAT MAY RELATE TO PERFORMANCE OF THE STEAM

SUPPLY SYSTEM AT YOUR FACILITY. THE INFORMATION IS AS FOLLOWS:

DURING HOT FUNCTIONAL TESTING OF THE UNFUELED REACTOR. THREE OF FOUR RELIEF VALVES WERE CATASTROPHICALLY EJECTED FROM TWO MAIN STEAM LINE HEADERS TO WHICH THEY WERE MOUNTED. THE FAILED HEADERS WERE 12-INCH DIAMETER, SPOOL PIECES FABRICATED BY THE DRAVO CORPORATION, MARIETTA. OHIO FROM SCHEDULED 60 (.562-INCH WALL THICKNESS) A106 GRADE B CARBON STEEL PIPE MANUFACTURED BY U.S. STEEL, LORAIN WORKS, LORAIN, OHIO. MOUNTED HORIZONTALLY 180° FROM EACH OTHER ON THE TWO SIDES OF THE MAIN STEAM LINE. THE HEADERS WERE HYDROSTATICALLY TESTED AT 1356 PSIG UNDER COLD CONDITIONS PRIOR TO HOT FUNCTIONAL TESTING. ON ONE SIDE OF THE MAIN STEAM LINE, THE FAILURE OCCURRED IN THE VICINITY OF THE HEAT-AFFECTED ZONE OF THE WELD WHICH JOINS THE RISER TO THE HEADER AND APPEARS TO BE LARGELY CONFINED TO THE 12-INCH HEADER. ON THE OTHER SIDE OF THE MAIN STEAM LINE, THE FAILURE APPARENTLY ORIGINATED IN A SIMILAR MANNER AND PROPAGATED THROUGH THE PIPE HEADER CAUSING CATASTROPHIC DAMAGE TO THE HEADER ASSEMBLY. THE SECONDARY SYSTEM WAS AT 990 PSIG AND 545°F AND THE PRIMARY SYSTEM AT 2232 PSIG AND 546.6°F AT THE TIME OF THE HEADER FAILURE. THESE SYSTEMS HAD BEEN AT THEIR RESPECTIVE PRESSURES AND TEMPERATURES FOR NINE DAYS. NO TRANSIENT CONDITIONS WERE REPORTED TO