

Carolina Power & Light Company

Raleigh, North Carolina 27602

December 21, 1971

58-261

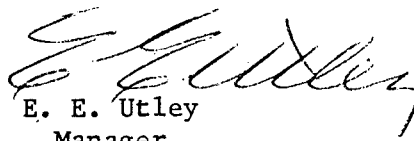
Mr. John G. Davis, Director
U. S. Atomic Energy Commission
Division of Compliance
230 Peachtree Street, Northwest
Atlanta, Georgia 30303

Dear Mr. Davis:

In response to your letter of December 10, 1971 concerning the failure of main steam line headers on the ~~Florida Power & Light Company's Turkey Point Nuclear Power Plant~~, it is reported that the design of the H. B. Robinson Plant is significantly different. At Robinson, the relief valves are mounted on the individual steam lines and there are no headers supporting the relief valves.

On April 28, 1970, while testing system relief valves during the hot functional testing period, a relief valve on the "C" main steam line failed at the H. B. Robinson Plant. This incident was reported to the Division of Reactor Licensing and a complete investigation conducted. As a result of the investigation, design changes were effected at the H. B. Robinson Plant.

Yours very truly,



E. E. Utley

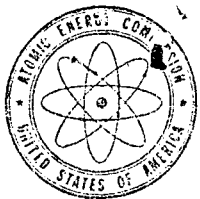
Manager

Generation & System Operations

NBB:mc

cc: Mr. C. D. Barham
Mr. G. P. Beatty
Mr. N. B. Bessac

maie



UNITED STATES
ATOMIC ENERGY COMMISSION
DIVISION OF COMPLIANCE
REGION II - SUITE 818
230 PEACHTREE STREET, NORTHWEST
ATLANTA, GEORGIA 30303

TELEPHONE: (404) 526-4503

In Reply Refer to:
CO:II:50-261, 324, 325,
400, 401, 402, and 403

December 10, 1971

Carolina Power and Light Company
Attn: Mr. J. A. Jones
Senior Vice President
Engineering and Operating
336 Fayetteville Street
Raleigh, North Carolina 27602

Gentlemen:


~~We recently received information from the Florida Power and 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 matter during our continuing inspection program.

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

Very truly yours,


John G. Davis
Director

Attachment:
Body of Telegram

BODY OF TELEGRAM TO LICENSEES OF OPERATING POWER REACTORS

We recently received information from the Florida Power and Light Company of an occurrence during preoperational testing of the Turkey Point 3 Westinghouse 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 Schedule 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 have existed in these systems at the time of failure.

The failed header assemblies each consist of two valves mounted vertically in a dead-end, 12-inch diameter pipe projecting at a 90° horizontal angle from the main steam line. The two headers are mounted at 180° to each other on the opposite sides of the main steam line. The headers were designed to meet Section I of the ASME Code by the Bechtel Corporation.

For your reactors which are licensed to operate, it is requested that you provide this office within ten days, in writing, as to whether headers as described above are installed in the steam lines of your facility.

Should you have any questions concerning this matter, we will discuss them with you.

CDB No. 3 - Carolina Power and Light Company
(H. B. Robinson No. 2)

5/1/72

Ltr fm Davis to Jones dtd 12/10/71 (Bulletin)
Ltr fm Utley to Davis dtd 12/21/71 (Reply)


DISTRIBUTION:

J. G. Keppler, CO (6)

L. Kornblith, Jr., CO

R. H. Engelken, CO

J. B. Henderson, CO

DR Central Files 

Local PDR (Darlington, South Carolina)

