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OCT 26 1970

Mr. Edward J. Bauser
Executive Director
Joint Committee on Atomic Energy
Congress of the United States

Dear Mr. Bauser:

I am enclosing for your information a report concerning the current status of investigations of the cracking of the prestressed concrete containment structure at the Florida Power and Light Company's Turkey Point No. 3 reactor facility. Preliminary information on this subject was forwarded to you on August 20, 1970.

The Division of Compliance reported the information contained in the enclosed report to Mr. James Graham of your staff by telephone on October 8, 1970.

Sincerely,

(Signed) H. L. Price

Harold L. Price
Director of Regulation

50-250/251, President

Enclosure:
Report on Turkey Point 3

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| bcc: H. L. Price, DR | GMKavanagh, AGMR |
| R. D. O'Neill, OCR (2) | CKBeck, DR |
| DR Reading File | SHHanauer, DR |
| DR Central File | MMann, DR |
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| LDLow | EGCase, DRS |
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| DATE ▶ | 10/13/70 | 10/13/70 | 10/20/70 | 10/23/70 | 10/26/70 |

ATOMIC ENERGY COMMISSION

CURRENT STATUS OF INVESTIGATIONS OF THE CRACKING
OF THE PRESTRESSED CONCRETE CONTAINMENT STRUCTURE
FLORIDA POWER AND LIGHT COMPANY (TURKEY POINT NO. 3)

Report by the Director, Division of Compliance

This summary report updates information that was provided in our preliminary report dated August 20, 1970, concerning the concrete cracking problem in the containment dome at Florida Power and Light Company's Turkey Point 3 facility. This summary reflects the status of investigations as of September 29, 1970.

- a. An independent evaluation of concrete samples, taken from the containment building dome, was performed by a Compliance consultant, the Department of the Army's Construction Engineering Research Laboratory. The results indicate that the installed concrete meets design requirements.
- b. Bechtel, the Architect Engineer, stated that they plan to have triaxial tests performed on samples of concrete to determine its true strain and tensile strength characteristics. The date for this testing is dependent on the availability of a consulting laboratory with adequate testing equipment.
- c. Contractor personnel have removed 26 four-inch diameter cores from the dome. Fifteen more are scheduled to be removed. The depth of the cores removed varied from 16 to 29 inches. The results showed

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a separation that ranged from 1/4 to 5/8 inch at various depths ranging from 5 to 15 inches below the surface. In addition, some of the core samples had multiple layer fractures. It was not possible to determine if the fractures were interconnected.

- d. The sequence procedure that was used for stressing the tendons was not identical to the procedure originally developed by Bechtel.
- e. The licensee and Bechtel have not been able to identify the cause of the cracking. Their investigations are continuing.
- f. The licensee stated that a report concerning this problem and a description of the proposed repair will be submitted to the Atomic Energy Commission in October 1970.
- g. The licensee stated that a delay in the overall construction schedule will not occur if the repair is completed within the next 90 days.

The safety significance of this problem and its applicability to other facilities are being reviewed by the Divisions of Reactor Licensing and Compliance. We will inform you of significant developments.

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