

AUG 20 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 on the cracking of containment concrete at Florida Power and Light Company's Turkey Point Unit No. 3. The Division of Compliance reported this information to your office by telephone on August 10, 1970.

Sincerely,

(Signed) H. L. Price

Harold L. Price  
Director of Regulation

Enclosure:  
Report on Turkey Point 3

bcc: H. L. Price, DR  
R. D. O'Neill, OCR (2)  
DR Reading File  
DR Central File  
CO:II  
LDLow  
AGiambusso  
RHEngelken  
LKornblith

GMKavanagh, AGMR  
CKBeck, DR  
SHHensauer, DR  
MMann, DR  
CLHenderson, DR  
EGCase, DRS  
MShaw, RDT  
PAMorris, DRL  
RCDeYoung, DRL  
CLong, DRL  
HKShapar, GC

(Commission advised in memo of  
8/11/70)

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SURNAME ▶	JPO'Reilly kt	RHEngelken	LDLow	HLLPrice	JH	Kewitz
DATE ▶	8-13-70	8/13/70	8/17	8/19/70	9w	8/17/70

ATOMIC ENERGY COMMISSION

INCIDENT INVOLVING CRACKING  
OF THE PRESTRESSED CONCRETE CONTAINMENT STRUCTURE  
FLORIDA POWER AND LIGHT COMPANY (TURKEY POINT 3)

Report by the Director, Division of Compliance

The Division of Compliance was informed by the licensee by telephone on August 6, 1970, that the outer three-inch concrete cover had cracked and flaked off of a 150 square foot area of the spherical section of the containment building dome during the tendon tensioning operation.

The following information is considered to be significant:

1. The spherical dome section is 39 inches thick and contains three layers of prestress tendons (total of 165), in individual tendon sheaths, plus normal reinforcing steel. The inner dome surface is covered with eight inches of concrete and the outer surface with three inches of concrete.
2. Prior to the detection of the cracking, 162 out of 165 tendons in the dome section had been installed, tensioned, and the tendon sheaths filled with protective grease.

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3. The failure was initially detected on or about July 15, 1970, when construction workers observed protective grease oozing from cracks in the outer surface of the dome.
4. Preliminary sounding measurements by the licensee and the constructor, Bechtel, revealed that the concrete in the entire one hundred foot diameter, 90-foot radius, spherical dome section is questionable.
5. The licensee and Bechtel have engaged a consultant, Law Engineering Company, to perform nondestructive testing of the structure to determine the extent and magnitude of the cracking. Another consultant, T. Y. Lin Associates, has been engaged to participate in the analysis of the causes and in the development of a corrective action program.

The licensee stated that he does not anticipate a delay in the overall construction schedule at this time since the containment structure is not now a limiting schedule item. However, he also stated that he will be in a better position to ascertain any effects on the schedule after

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nondestructive testing is completed. A written report of this cracking will be submitted by the licensee to the Atomic Energy Commission.

The Division of Compliance is currently investigating this problem. We will inform you of significant developments.

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