

UNITED STATES
ATOMIC ENERGY COMMISSION

DIVISION OF COMPLIANCE

REGION II - SUITE 818
230 PEACHTREE STREET, NORTHWEST
ATLANTA, GEORGIA 30303

TELEPHONE: 526-4537

November 3, 1970

J. P. O'Reilly, Chief, Reactor Inspection and Enforcement Branch
Division of Compliance, Headquarters

INQUIRY MEMORANDUM - FLORIDA POWER AND LIGHT COMPANY (TURKEY POINT 3),
LICENSE NO. CPPR-27, DOCKET NO. 50-250

W. Gaines, FP&L Quality Assurance Engineer, and S. Folsom, Bechtel Quality Assurance Engineer, telephoned R. C. Lewis on November 2, 1970, to inform him of the current status of the investigation of the containment dome concrete failure on Unit No. 3. The telecon was in response to a previous call from Lewis to Gaines inquiring about the status of the investigation. The following information was obtained:

1. A seven-foot by seven-foot area of concrete has been removed by air hammers from the southeast quadrant of the containment dome down to the separation, which varied from a depth of 11 to 13 inches below the surface. Folsom stated that the information gleaned from removing this section was to be used in planning repair of the dome, i.e., tooling, manpower, feasibility, etc.
2. The concrete separated readily from around the rebar, and the conclusion is that the concrete can be removed down to the separation without removal of the rebar.
3. Two of the upper tendons were exposed half way down as the separation ran parallel to the midsection of the tendons in this area.
4. One additional tendon from the second layer of tendons was purposely uncovered by chipping down to the 16-inch level to determine what manpower and effort would be required to remove concrete from the tendons below the separation, if required. The site reported that the tendon sheathing was punctured in two places, without damage to the tendon wires, and the conclusion is that uncovering tendons by chipping below the separation is not practical.
5. Draining of the grease from the dome tendon sheaths is in progress.
6. Two three-inch-horizontal cores were drilled in the containment wall at the 60-foot elevation. One of the two cores hit a tendon sheath

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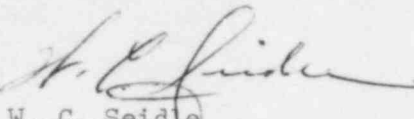
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(no damage to tendons reported) and drilling ceased. The second core was drilled to the 30-inch depth (36-inch concrete thickness at that area), and it was reported that there were no grease, voids or separation in that core.

7. A Bechtel and FP&L management meeting is scheduled to be held in Miami on November 3, 1970, to discuss the investigative effort to date and to arrive at the repair procedure to be followed.

Gaines and Folsom postulated that the course of action would be to remove all failed concrete down to the separation (approximately 15 inches below surface), resound and core for additional laminations below the separation, and remove all tendons that are exposed by chipping and replace same.

Gaines stated that he would report the outcome of the meeting of November 3 to Region II when such information was available.


W. C. Seidle
Senior Reactor Inspector

CO:II:RCL

cc: E. G. Case, DRS (3)
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