Consumers Power Company

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December 23, 1980

Director, Nuclear Reactor Regulation
Att Mr Dennis M Crutchfield, Chief
Operating Reactors Branch No 5
U S Nuclear Regulatory Commission
Washington, DC 20555

DOCKET 50-255 - LICENSE DPR-20 -
PALISADES PLANT - RESPONSE TO
CONCRETE CONTAINMENT STRUCTURES

NRC letter dated November 25, 1980 requested Consumers Power Company, on a voluntary basis, to supply information for an Inservice Inspection Program for Prestressed Concrete Containment Structures.

Attached is the requested information for the Palisades Plant Containment Tendon Surveillance Program.

Steven R Frost
Palisades Licensing Engineer

CC JGKeppler, USNRC
NRC Resident Inspector-Palisades

Attachment

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ATTACHMENT

Subject: Inservice Inspection Program for Prestressed Concrete Containment Structures.

Reference (1): Letter CP Co (Bixel) to NRC (Purple) dated 3/26/76; Subject, Palisades Plant Containment Building Tendon Surveillance Report.

(a) Sample size and method of sample selection.

Answer - Reference Paragraph 4.5.4 of Palisades Technical Specifications and Test Procedure TSF-2 contained in Reference (1) above. As pointed out in the Technical Specifications, CP Co uses a random basis for selecting dome, vertical and hoop tendons, but modifies this selection process to omit tendons that are contoured to fit the existing penetration configurations and omit tendons that would require test crews to work close to safety-related systems such as the spent fuel pool.

(b) Procedure for lift-off testing

Answer - Reference Test Procedure TSF-2 contained in Reference (1) above.

(c) Procedure for testing of corrosion inhibiter. (ie, grease)

Answer - As in (b) above.

(d) Procedure for tendon material testing.

Answer - As in (b) above.

(e) Acceptance and rejection criteria used for the test programs.

Answer - Reference Paragraph 4.5.4 of Palisades Technical Specifications and Test Procedure TSF-2 contained in Reference (1) above.

(f) Repair, replacement and corrective action.

Answer - To date, we have experienced no sufficient degradation to cause repair or replacement of the tendons. We have however, experienced some discrepancies such as off-size and split buttonheads, discontinuous and broken wires, etc. during our surveillance program in 1975. The corrective actions/resolutions that were made concerning the discrepancies were reported to the NRC in Reference (1).

Although test procedures are not yet finalized for Palisades 1981 Tendon Surveillance Program, it is anticipated that a portion of the old Test Procedure TSF-2 will be upgraded to meet current testing criteria. These finalized procedures will be available just prior to the start of the 1981 Tendon Surveillance Program now scheduled to start in May 1981.