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 RECIP.NAME RECIPIENT AFFILIATION  
 EISENHUT,D.G. Division of Licensing

SUBJECT: Forwards "Turkey Point Unit 3 Containment Structure Post-Tensioning Sys:Tenth-Yr Surveillance" & "Turkey Point Unit 4 Containment Structure Post-Tensioning Sys:Tenth-Yr Surveillance," W/o rept for Unit 4.

SEE REPTS #8212170276

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FLORIDA POWER &amp; LIGHT COMPANY

December 3, 1982

L-82-522

Office of Nuclear Reactor Regulation  
Attention: Mr. Darrell G. Eisenhower, Director  
Division of Licensing  
U. S. Nuclear Regulatory Commission  
Washington, D. C. 20555

Dear Mr. Eisenhower:

Re: Turkey Point Units 3 & 4  
Docket No. 50-250 & 50-251  
Ten Year Tendon Surveillance Reports

Please find attached twenty copies of the Turkey Point Units 3 & 4 Ten Year Tendon Surveillance for your use. The surveillances, required by Turkey Point Technical Specification 6.9.3.b, were conducted from January through April 1982. The surveillance for each unit consisted of physical inspections and lift-off tests for nine tendons (three dome, three vertical, and three horizontal tendons). For each unit, one wire was removed from each of three tendons for inspection and tensile testing.

The attached reports detail the findings of the tendon inspections tests. It has been concluded that the post-tensioning systems in the Unit 3 & 4 containment structure are performing within the limits set by their design criteria and specifications.

The report for Turkey Point Unit 3 contained several recommendations in Section 8. The following are the responses to those recommendations:

RECOMMENDATION 8.1a

The water seal for the tendon pit covers for vertical tendons 23V1 and 45V7 should be inspected and replaced if found to be inadequate or damaged.

ACTION REQUIRED 8.1a

During the Unit 3 Ten Year Tendon Surveillance, the tendon pit covers for vertical tendons 61V1, 23V1 and 45V7 were sealed by replacing the checkered plate cover over a silicone rubber caulking compound. No further action is required per this recommendation.

RECOMMENDATION 8.1b & c

The pits for vertical tendons 23V1, 45V7, and 61V1 should be inspected at six-month intervals to ensure that no water is seeping through the covers into the pits. A maintenance program should be established to carry out this inspection. If the presence of water is observed in any of these tendon pits, immediate corrective action should be taken to remove the water and replace any

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damaged materials. In addition, the water sealing of the pits should be upgraded in accordance with details to be provided by Engineering.

ACTION REQUIRED 8.1b & c

The pit cover seals are being evaluated in order to prevent water from seeping into the pits. Once the evaluation is complete and modifications, if any, are implemented, a periodic inspection program will be developed.

RECOMMENDATION 8.2a & b, 8.3

During the next scheduled tendon surveillance, remove one wire each from tendons 61V1 and 61V2. If the level of corrosion in both of these wires is acceptable (i.e., level 1 or 2), no further action is required.

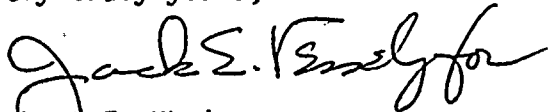
If pitting of Level 3 or greater is observed on either of these wires, metallurgical examination of the test samples should be made to determine the cause of deterioration. Corrective action should be determined by Engineering, based on the results of the metallurgical examination.

Even though buttonheads for tendon 1D53 (close to buttress 1) were completely covered with sheath filler, some pitting of these buttonheads has been observed. If in the next tendon surveillance the level and/or amount of pitting is seen to have progressed; Engineering should evaluate this condition and recommend corrective action at that time.

ACTION REQUIRED 8.2a & b, 8.3

The evaluation by our Architect-Engineer is not yet complete. The recommendations above will be evaluated upon completion of that effort.

Very truly yours,



Robert E. Uhrig  
Vice President  
Advanced Systems & Technology

REU/JEM/js

Attachments

cc: Mr. James P. O'Reilly, Region II  
Mr. Harold F. Reis, Esquire



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