

FLORIDA POWER & LIGHT COMPANY

December 20, 1974

Mr. Edson G. Case, Acting Director
Office of Regulation
Directorate of Licensing
U. S. Atomic Energy Commission
Washington, D. C. 20545

Dear Mr. Case:

UNUSUAL EVENT NO. 251-74-6
TURKEY POINT PLANT UNIT NO. 4
DOCKET NO. 50-251
FAILURE OF TURBINE CONTROL VALVE
SPRING ADJUSTING BOLT



In accordance with Technical Specification 6.6.2b, the following unusual event is reported:

On December 1, 1974, planned shutdown of Turkey Point Unit No. 4 was in progress. Problems were encountered in affecting complete shutdown, and the turbine was tripped at 6:40 A.M. Generator output at the time of the turbine trip was approximately 300 MWe.

Investigation of the turbine control problem revealed that No. 1 turbine control valve spring adjusting bolt had failed causing the control valve to remain open. With this one valve remaining open, continued governor adjustments resulted in the interceptor valves closing. This appeared as a turbine run-back to the operating personnel and the load decrease in conjunction with the opening of the reheat safety valves was the reason for tripping the turbine.

The purpose of the control valve spring adjusting bolt is to compress the compression springs which hold the valve tightly on the seat when the valve is in the closed position. The failure of the bolt was in the threaded area and appeared to have occurred in several increments rather than all at once.

Immediate corrective action consisted of replacing the defective bolt and "Zyglo" testing the remaining three bolts for No. 4 turbine. No defects were found in the other three bolts. The

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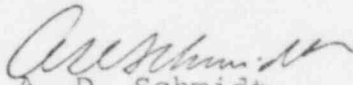
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bolts for turbine No. 3, which was down for overhaul, were also "Zyglo" tested and one of these was found to be defective. The turbine vendor, Westinghouse, is analyzing the two defective bolts as to material and mode of failure. Permanent corrective action will be based on the Westinghouse analysis and recommendations.

Very truly yours,


A. D. Schmidt
Vice President
Power Resources

GEL/cpc

cc: Mr. Norman C. Moseley
Jack R. Newman, Esquire