

REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

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 FACIL: 50-251 Turkey Point Plant, Unit 4, Florida Power and Light C 05000251
 AUTH. NAME AUTHOR AFFILIATION
 UHRIG, R.E. Florida Power & Light Co.
 RECIP. NAME RECIPIENT AFFILIATION
 EISENHUT, D.G. Division of Licensing

SUBJECT: Requests that facility be authorized to operate for addl 4
 equivalent full-power months prior to performing next
 steamgenerator insp. Request classifies as III. Fee encl.

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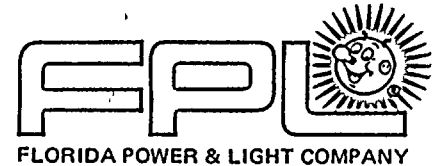
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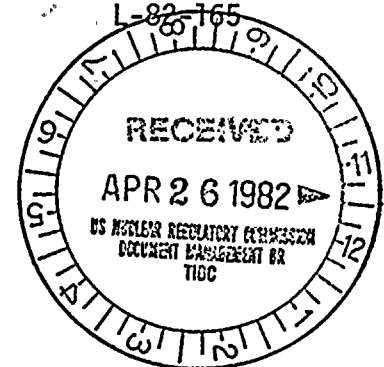
April 21, 1982

L-82-165

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

Dear Mr. Eisenhut:

Re: Turkey Point Unit 4
 Docket No. 50-251
Steam Generator Inspection



In November, 1981, the most recent steam generator inspection and preventive tube plugging were performed for Turkey Point Unit 4. Unit 4 was returned to service on December 10, 1981, and pursuant to Section 3.D.5 of Facility Operating License DPR-41, the results of the steam generator inspection and resultant preventive tube plugging was submitted on December 18, 1981 (L81-529).

The steam generator inspection and preventive plugging program was developed by FPL and our NSSS vendor in 1976 and 1977. On June 9, 1977 (L-77-173), we submitted information that demonstrated the inspection and plugging program would ensure protection of public health and safety during normal operation and postulated accident conditions. The program has been used successfully at Turkey Point in the subsequent four years since June, 1977, to prevent tube leakage and assure a continued safe operation.

In January, 1979, the original six month program was expanded to provide for a ten month operating interval. The expanded program consists of the original inspection and plugging criteria and includes additional plugging criteria to increase the conservatism of the six month program. The expanded program results in more tubes plugged beyond those required for a six month operating interval.

The ten month program has been implemented in six inspections, including the current operating interval for Units 4. The Staff approved and the units were subsequently operated for three, ten month operating intervals and an 8-1/2 month interval (only 8-1/2 months were requested). Unit 3 has experienced one forced outage since July 1978 due to steam generator tube leaks (source of leakage was leaking plugs, not a new tube leak). Unit 4 has operated since February 1978 with no forced shutdowns due to steam generator tube leaks. Unit 4 is presently operating with slight leakage in the C steam generator. This leakage has been relatively constant and significantly below the allowable .3 gpm limit (i.e. less than .01 gpm). To date the leakage behavior is consistent with past experiences with "weeping" plugs.

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Page 2

Mr. Darrell G. Eisenhut

The inspection program is described in the last inspection report (L-81-529). The program included denting inspections in the hot and cold legs of all steam generators, flow slot measurements, small radius U-bend inspections, Regulatory Guide 1.83 inspections in the hot and cold legs of all three steam generators, and preventive plugging for ten months. In addition to normal operation condition, the worst case accident condition, i.e., the main steam line break, was analyzed to justify continued operation for the 10 month operating period (10 EFPM). The level of steam generator tube plugging, which is currently 24.8%, is conservatively bounded by the 28% ECCS analysis.

The results of the Reg. Guide 1.83 inspection conducted during the November 1981 outage demonstrated that tube wastage was occurring at a very minimal rate (i.e maximum thinning rate was 0.15% per EFPM as reported in L-81-529). This rate results in an insignificant amount of tube wall loss during the 10 EFPM operating interval.

The extensive inspections and conservative level of preventive plugging performed during the last outage, the submitted tube wastage information, analyses of postulated accident conditions, and operating restrictions provided by existing license conditions, ensure safe plant operation for a period in excess of ten months, and continue to assure protection of the public health and safety.

A Unit 4 steam generator inspection outage commencing in June, 1982, would place the reserves in southeast Florida at slightly below the recommended level of 20%. The continued operation of Turkey Point Unit 4 would avoid this condition.

Accordingly, we request that Unit 4 be authorized to operate for an additional four equivalent full power months prior to performing the next steam generator inspection. The inspections and preventive plugging conducted during the last inspection justify continued operation for a ten month operating interval. Furthermore, the conservatism in the inspection and plugging program, as evidenced by past experience, previously submitted analyses, and existing license conditions assure the protection of public health and safety.

This request has been reviewed and approved by the Plant Nuclear Safety Committee and the Company Nuclear Review Board.

Page 3

Mr. Darrell G. Eisenhut

We have determined that this is a Class III request in accordance with 10 CFR 170. A check for \$4,000 is enclosed.

Very truly yours,

A handwritten signature in cursive script, appearing to read "Robert E. Uhrig".

Robert E. Uhrig

Vice President

Advanced Systems and Technology

REU/DAC/mbd

cc: J.P. O'Reilly
Harold F. Reis, Esquire

100-100000-100000

THE UNITED STATES OF AMERICA
DEPARTMENT OF JUSTICE

OFFICE OF THE ATTORNEY GENERAL

WASHINGTON, D. C.

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