

REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR: 8106020198 DOC. DATE: 81/05/27 NOTARIZED: YES DOCKET #
 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. Division of Licensing

SUBJECT: Request for license amend authorizing operation for addl.
 four equivalent full power months prior to performing next
 steam generator insp. Unit 3 will be out of svc for
 electrical generator repairs. W/Class III fee.

SEE Repts. # 8012220301

DISTRIBUTION CODE: A001S COPIES RECEIVED: LTR 2 ENCL 3 SIZE: 14
 TITLE: General Distribution for after Issuance of Operating License

NOTES: W/CHECK: \$4000.00

ACTION:	RECIPIENT		COPIES		RECIPIENT	COPIES	
	ID CODE/NAME		LTTR	ENCL		ID CODE/NAME	LTTR
	VARGA, S.	04	13	13			
INTERNAL:	D/DIR, HUM FAC08		1	1	DIR, DIV OF LIC.	1	1
	I&E	06	2	2	NRC PDR	1	1
	OELD	11	1	0	OR-ASSESS BR 10	1	0
	RAD ASMT BR		1	1	REG FILE	1	1
EXTERNAL:	ACRS	09	16	16	LPDR	03	1
	NSIC	05	1	1			

JUN 04 1981

Handwritten notes at the top of the page, including a signature in the upper right corner.

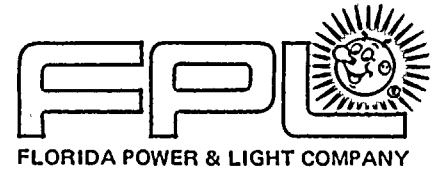
First main paragraph of handwritten text, starting with a capital letter.

Second main paragraph of handwritten text, continuing the narrative.

Third main paragraph of handwritten text, with some indented lines.

Fourth main paragraph of handwritten text, appearing as a list or series of points.

Fifth main paragraph of handwritten text, concluding the visible content.

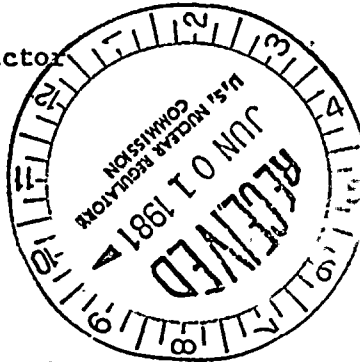


May 27, 1981
L-81-227

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

Dear Mr. Eisenhut:

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



On December 18, 1980 (L-80-412), Florida Power and Light Company submitted the results of the last steam generator inspection and preventive tube plugging performed for Turkey Point Unit 4. The steam generators were last inspected in November, 1980. The NRC Staff reviewed the results and preventative plugging and issued Amendment 54 authorizing operation for six equivalent full power months. Unit 4 was returned to service on January 13, 1981.

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 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 five inspections, including the current operating intervals for Units 3 and 4. The Staff approved and the units were subsequently operated for two, 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 B steam generator. This leakage has been relatively constant and significantly below the allowable .3 gpm limit (i.e., approximately .01 gpm). To date the leakage behavior is consistent with past experiences with "weeping" plugs.

8106020198

A001

S

3/3

w/check:

\$4000.00



Office of Nuclear Reactor Regulations
Attention: Mr. Darrell G. Eisenhut, Director
Division of Licensing

Page Two

The inspection program is described in the last inspection report (Attachment A). 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 operating conditions, the worst case accident condition, i.e., the main steam line break, was analyzed to justify continued operation in excess of ten months. The level of steam generator tube plugging, which is currently 23.8%, is conservatively bounded by the 25% ECCS analysis. A 28% ECCS analysis has been submitted and is currently under review by the Staff.

During the Staff review of the inspection report (Attachment A), additional information was requested regarding the tube wastage in steam generator B. On February 27, 1981, (Attachment B), we submitted the requested information. With respect to tube wastage, this analysis supports a minimum operating interval in excess of 14 months.

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.

We have recently experienced a failure of the Turkey Point Unit 3 electrical generator. Possible repair alternatives are currently being evaluated; however, it appears almost certain that Unit 3 will be out of service throughout the summer months. This situation, combined with the Unit 4 steam generator inspection outage scheduled for July, would place the reserves in southeast Florida at an unacceptably low level of 12.8% (see Attachment C). The continued operation of Turkey Point Unit 4 would raise our southeast Florida reserves to an acceptable level.

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, analyses presented in the attachments, and existing license conditions assure the protection of public health and safety.

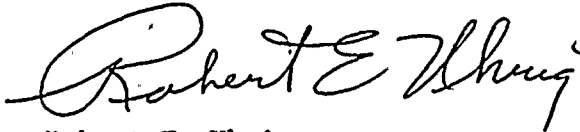
This request has been reviewed and approved by the Plant Nuclear Safety Committee and the Company Nuclear Review Board.

Office of Nuclear Reactor Regulation
Attention: Mr. Darrell . G. Eisenhut, Director
Division of Licensing

Page Three

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, reading "Robert E. Uhrig". The signature is written in dark ink and is positioned above the printed name and title.

Robert E. Uhrig
Vice President
Advanced Systems and Technology

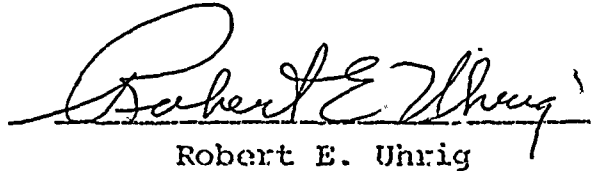
REU/RAK/cab

STATE OF FLORIDA)
)
COUNTY OF DADE) SS.

Robert E. Uhrig, being first duly sworn, deposes and says:


That he is a Vice President of Florida Power & Light Company,
the Licensee herein;

That he has executed the foregoing document; that the state-
ments made in this said document are true and correct to the
best of his knowledge, information, and belief, and that he
is authorized to execute the document on behalf of said
Licensee.


Robert E. Uhrig

Subscribed and sworn to before me this

27 day of May, 1981


Cheryl L. Fredrick
NOTARY PUBLIC, in and for the county of Dade,
State of Florida

My commission expires: Notary Public, State of Florida at Large
My Commission Expires October 30, 1983
Bonded thru Maynard Bonding Agency

22
22

