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AUGUST 22 1980

Docket Nos. 50-250  
and 50-251

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OELD  
I&E (3)  
J. Olshinski  
J. Heltemes

Dr. Robert E. Uhrig, Vice President  
Advanced Systems and Technology  
Florida Power and Light Company  
Post Office Box 529100  
Miami, Florida 33152

Dear Dr. Uhrig:

As you know we are preparing an Environmental Statement relating to your proposed steam generator repair for the Turkey Point Plant Unit Nos. 3 and 4. During our review we have found it necessary to request additional information. Enclosed are requests for information in three areas of our review. Enclosure 1 is a request in regard to accident evaluation, Enclosure 2 is in regard to endangered species and Enclosure 3 is in regard to the demineralizer.

Your letter of July 22, 1980 (L-80-231) answered questions 1 through 8 of enclosure 3 except for the part about suspended solids and DO in question 5.

The response to these requests are necessary to complete our review of the steam generator repair program and the environmental statement.

Sincerely,

Original signed by  
M. Grotenhuis

Steven A. Varga, Chief  
Operating Reactors Branch #1  
Division of Licensing

Enclosures:  
As Stated

cc: w/enclosures  
See next page

8009150436

#78

OFFICE	DL:ORB1	DL:ORB1				
SURNAME	MGrotenhuis	SAVarga				
DATE	08/21/80:jb	08/21/80				

AUGUST 2 1930

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AUGUST 22 1980

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OFFICE	DL:ORB1.....	DL:ORB1.....				
SURNAME	MGrotenhuis	SAVarga				
DATE	08/.../80:jb	08/.../80				

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UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D. C. 20555

August 22, 1980

Docket Nos. 50-250  
and 50-251

Dr. Robert E. Uhrig, Vice President  
Advanced Systems and Technology  
Florida Power and Light Company  
Post Office Box 529100  
Miami, Florida 33152

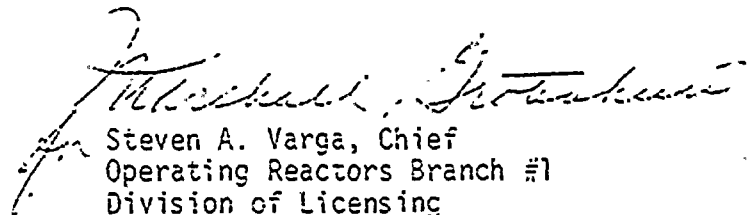
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See next page

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Robert E. Uhrig  
Florida Power and Light Company

- 2 -

August 22, 1980

cc: Mr. Robert Lowenstein, Esquire  
Lowenstein, Newman, Reis and Axelrad  
1025 Connecticut Avenue, N.W.  
Suite 1214  
Washington, D. C. 20036

Environmental and Urban Affairs Library  
Florida International University  
Miami, Florida 33199

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Steel, Hector and Davis  
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Bank Building  
Miami, Florida 33131

Mr. Henry Yaeger, Plant Manager  
Turkey Point Plant  
Florida Power and Light Company  
P. O. Box 013100  
Miami, Florida 33101

Mr. Jack Shreve  
Office of the Public Counsel  
Room 4, Holland Building  
Tallahassee, Florida 32304

Administrator  
Department of Environmental Regulation  
Power Plant Siting Section  
State of Florida  
2600 Blair Stone Road  
Tallahassee, Florida 32301

Resident Inspector  
Turkey Point Nuclear Generating Station  
U. S. Nuclear Regulatory Commission  
Post Office Box 971277  
Quail Heights Station  
Miami, Florida 33197

Request for Additional Information  
On Steam Generator Repair Report Revision 7  
Turkey Point Unit Nos. 3 and 4  
Accident Evaluation Branch

- (1) Section 3.3.3, Control of Airborne Radioactivity and Surface Contamination, states that airborne radioactivity will be controlled, monitored, and released via the vent stack. A slight negative pressure will be maintained in containment by means of the purge system, although the equipment, personnel and emergency hatches would be open.
- (a) Provide an evaluation of the capacity of the purge system, particularly its capability to maintain the negative pressure at all points in the containment.
  - (b) If the hatches are open when the existing sampling station detects high airborne activity, the usual procedure of isolating input to the vent would not stop the release. What emergency procedure would be used to stop release outside containment and protect workers inside containment in case of unforeseen high airborne activity?
  - (c) Will the equipment hatch remain open during most of the repair process, or only be opened when equipment is moving in or out? Specifically, will the equipment hatch be open when cutting or welding operations are in progress on the primary system components?
- (2) Table 5.2-1 used to indicate activities in  $\mu\text{Ci}$ ; Revision 7 Table 5.2-1 gives activity in Ci. Further, the extrapolation is given for 9 years of commercial operation versus 7 years, although the values in the table are identical.

If the change in the column title is presumed to be a typographical error, why is there no change in the values? What is the actual extrapolation operating period?

- (3) Little detail is given of the actual operations for the replacement procedure. When will the metal plate be welded to the bottom of the lower assembly? Provide an evaluation of the lower assembly drop accident, including potential radiological consequences, if lifting is required before the top and bottom are welded shut.
- (4) Are there any filters in the purge system between the containment and the existing vent monitor?
- (5) A decontamination factor of 12 was assumed for purposes of evaluating radiological consequences (page 5-21b). Although Section 3.3.5.3.2 is referenced as a description of the proposed alternatives for the decontamination process, it is not clear how decontamination can be accomplished prior to cutting the lower assembly from the channel head. Provide a clarification of the procedure to be used and evaluate the potential for accidental radiological releases due to that process.
- (6) The X/Q value used for determining the radiological consequences of airborne releases was  $1.02 \times 10^{-6}$ . Chapter 11 of the Turkey Point Unit 3 Final Safety Analysis Report uses this value for evaluating routine releases, since it is an average over three years. An annual average X/Q is not appropriate for accident calculations. Provide dose calculations for radiological assessments using an appropriate (e.g. 2 hr., ground level) X/Q.



Request for Additional Information  
On the Occurrence of Endangered Species  
At The Turkey Point Site

1. Provide information on the distribution, abundance, life history and indicate the presence or absence of breeding areas at the Turkey Point site for the species listed on the attached table. Particular emphasis should be placed on the American crocodile, Crocodylus acutus, the American alligator, Alligator mississippiensis, and the Atlantic green turtle, Chelonia mydas mydas. Include for all species records of onsite sightings and identify any potential causal link between the steam generator repair program/demineralizer operation and the listed species.
2. Provide a table listing all biological monitoring studies of molluscs, vertebrates and plants conducted on or near the site that could have resulted in the collection or observation of an endangered or threatened species. For each study indicate the period of time the study was conducted, the number of stations, and the frequency of observation or collection.

LIST OF STATE AND FEDERALLY RECOGNIZED  
RARE OR ENDANGERED SPECIES  
KNOWN FROM THE TURKEY POINT AREA

<u>Latin Name</u>	<u>Common Name</u>	<u>Fla. Game and Fish Com.</u>	<u>U.S. Fish &amp; Wildlife Service</u>
<u>REPTILES</u>			
<u>Crocodylus acutus</u>	Amer. Crocodile	E	E
<u>Alligator mississippiensis</u>	Amer. Alligator	SC	T
<u>Chelonia mydas mydas</u>	Atlantic Green Turtle	E	E
<u>Drymarchon corais couperi</u>	Eastern Indigo Snake	T	T
<u>BIRDS</u>			
<u>Falco sparverius paulus</u>	American Southeastern Kestral	T	
<u>Haliaeetus leucocephalus</u>	Bald Eagle	T	E
<u>Pelecanus occidentalis carolinensis</u>	Brown Pelican	T	E
<u>Hydranassa tricolor</u>	Louisiana Heron	SC	
<u>Dichromanassa rufescens</u>	Reddish Egret	SC	
<u>Ajaia ajaja</u>	Roseate Spoonbill	SC	
<u>Leucophoyx thula</u>	Snowy Egret	SC	
<u>Sterna albifrons</u>	Least Tern	T	
<u>Florida coerulea coerulea</u>	Little Blue Heron	SC	
<u>Columba leucocephala</u>	White-crowned Pigeon	T	

E - Endangered  
T - Threatened  
SC - Species of Special Concern

## Request for Additional Information

On the Demineralizers for Florida Power and Light Company  
Turkey Point, Units 3 and 4

1. Provide a general description and flow diagram of how the full flow condensate demineralizer operates. Indicate the number of demineralizer vessels per unit.
2. Indicate the anticipated frequency of back flushing and Powdex replacement for each demineralizer vessel. Describe how such an operation would be scheduled for the two units. Describe how run time will be determined.
3. Indicate the source and water quality of the backflushing liquid.
4. Provide the volume of discharge from the demineralizer vessel to the receiving vessel.
5. Provide the anticipated water quality values for Ph, Suspended Solids, DO and Conductivity of the supernatant discharged from the receiving vessel to the discharge canal. ✓
6. Indicate the anticipated type (batch or continuous), volume, and flow rate of the discharge.
7. Indicate the approximate location of the discharge point on a site map (line drawing of discharge).
8. Indicate the amount (weight/volume) of resin needed for replenishment of a demineralizer vessel.

9. Provide an analysis evaluating the potential for adverse aquatic impacts due to increased site runoff and erosion from the laydown area and the construction of the storage building for the steam generators.
10. Provide an evaluation of the impact due to the increased onsite workforce on the site's sanitary waste treatment facility. Indicate the potential for any aquatic impacts due to the increased sanitary effluents.
11. Indicate the kind, ultimate fate, and potential for adverse aquatic impacts due to the use and disposal of any chemical cleaning compounds used during and related to the steam generator repair and installation of the demineralizers and prior to station startup.
12. Provide an evaluation of the non-radiological impacts due to the discharge of increased amounts of laundry waste water during the repair program. Indicate the amount of laundry waste water that will be discharged daily, compare this discharge volume with the average discharge during normal operation, indicate the location of discharge, describe the manner in which the waste stream is treated, indicate its anticipated water quality and postulate its impact to the biota inhabiting the canal system.

