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 50-251 Turkey Point Plant, Unit 4, Florida Power and Light Co. 05000251
 AUTH. NAME AUTHOR AFFILIATION
 UHRIG, R.E. Florida Power & Light Co.
 RECIP. NAME RECIPIENT AFFILIATION
 VARGA, S.A. Operating Reactors Branch 1

SUBJECT: Forwards addl info re effluents from steam generator repair,
 per NRC 800822 ltr. Questions 1-8 were previously answered.
 Answers to Questions 9, 10, 11 & 12 encl. One oversize drawing
 encl.

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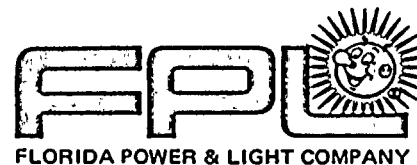
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September 24, 1980
L-80-318

Mr. Steven A. Varga, Chief
Operating Reactors Branch #1
Division of Licensing
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Dear Mr. Varga:

Re: Turkey Point Units 3 and 4
Docket Nos. 50-250 and 50-251
Steam Generator Repair

Attached you will find Florida Power & Light Company's responses to the request for additional information regarding effluents from the steam generator repair at Turkey Point. These questions were sent as Enclosure 3 of your letter of August 22, 1980. Questions 1-8 were previously answered; we enclose answers to Questions 9, 10, 11, and 12.

Please advise us if you require additional information.

Very truly yours,

J A McMostry
on

Robert E. Uhrig
Vice President
Advanced Systems & Technology

REU/LFR/ah

Attachment

cc: Norman A. Coll, Esquire
Harold F. Reis, Esquire

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QUESTION #9

Provide an analysis evaluating the potential for adverse aquatic impacts due to increased site runoff and erosions from the laydown area and the construction of the storage building for the steam generators.

Response

The laydown area in which the Steam Generator Storage Compound (SGSC) will be located has an area of about 2 acres as shown in Figure 3.1-2 of the Steam Generator Repair Report. The area will be at elevation 17.5' with side slopes of 1:3. The area is located south and adjacent to the plant and is surrounded on the remaining three sides by the closed cycle circulating water cooling canals as shown in Figure 3.1-2. Runoff from the SGSC as well as from the adjacent ground, flows into the cooling canals, specifically Loch Rosetta and East Canal as shown on attached Bechtel Drawing No. 5177-28-C-8. These canals flow into the plant intakes and the water is recirculated through the canal system after passing through the plant. The canal system is closed-cycle and has no surface interaction with Biscayne Bay. Any increased runoff from the laydown area will, therefore, not reach Biscayne Bay. Furthermore, the increase in runoff is expected to be insignificant because of the small size of the SGSC/laydown area. Therefore, there will be no effect of increased surface runoff from the SGSC/laydown area on aquatic life in Biscayne Bay and the effect of increased runoff on the cooling canals will be negligible.

QUESTION #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.

RESPONSE

As indicated in Section 6.3.1 of the Steam Generator Repair Report, the repair activities will occur in areas that lack readily accessible sanitary facilities. As a result, portable sanitary units will be utilized. Since all sanitary wastes from the workforce will be removed from the site in the portable units, there will be no impact on the site's sanitary waste treatment system.

QUESTION #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 demineralizer and prior to station startup.

RESPONSE

The cleaning solutions which may be used are soap and water and/or Radiac solution (which is slightly acidic and thus will be neutralized prior to discharge to radwaste system) if necessary. Both these solutions would, if used, be processed by the radwaste system before discharge.

QUESTION #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.

RESPONSE

As indicated in the Steam Generator Repair Report, Sections 5.2.2.4 (dealing with radioactive liquid effluents), 6.3 and 6.3.2, the environmental impact of the laundering operation discharges during the repair effort is not considered significant because the number of additional people required for repair (about 300) is typical of the number of additional people required for refueling and major maintenance activities associated with normal operation. Although 22,000 gallons/day was the number used to estimate expected specific activities of the laundry waste water during the repair effort, it is expected that on the average only 10,000 gallons/day will be discharged.

