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 50-389 St. Lucie Plant, Unit 2, Florida Power & Light Co. 05000389
 AUTH. NAME AUTHOR AFFILIATION
 SAGER, D.A. Florida Power & Light Co.
 RECIP. NAME RECIPIENT AFFILIATION

SUBJECT: NPDES noncompliance notification: on 900212, fishkill observed in intake canal of plant.

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FPL

P.O. Box 14000, Juno Beach, FL 33408-0420

MARCH 13 1990

L-90-91
10CFR50.36b

U. S. Nuclear Regulatory Commission
Attn: Document Control Desk
Washington, D. C. 20555

Gentlemen:

Re: St. Lucie Units 1 & 2
Docket Nos. 50-335 & 50-389
Environmental Protection Plan Report -
Unusual or Important Environmental Event

In accordance with Section 4.1, of the St. Lucie Unit 1 & Unit 2
Environmental Protection Plans, attached is a description of a
reportable fishkill event at the St. Lucie Plant.

Very truly yours,

D. A. Sager
Vice President
St. Lucie Plant

DAS/DMB

Attachment

cc: Stewart D. Ebnetter, Regional Administrator, Region II, USNRC
Senior Resident Inspector, USNRC, St. Lucie Plant

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PDR ADOCK 05000335
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THE UNIVERSITY OF CHICAGO

PHYSICS DEPARTMENT

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DESCRIPTION OF A FISHKILL EVENT

AT THE ST. LUCIE POWER PLANT

The following are sequential responses for information required by the Plant's Environmental Protection Plans:

- a. On February 12, 1990 at 0830 hours, a fishkill was observed in the intake canal of the St. Lucie Nuclear Power Plant. Six species of fish were found. They were:

29 Black Margate	<u>Anisotremus surinamensis</u>
5 Sheepshead	<u>Archosargus probatocephalus</u>
2 French grunt	<u>Haemulon flavolineatum</u>
24 Striped mullet	<u>Mugil cephalus</u>
27 Spade fish	<u>Chaetodipterus faber</u>
143 Pin fish	<u>Lagodon rhomboides</u>

A total of two hundred and thirty (230) dead fish were found with a total weight estimated at three hundred and eighty (380) pounds.

At the time of the event Unit 1 was in a refueling outage and Unit 2 was at full power.

- b. On February 10, 1990 at 0100 hours, the 16 foot cooling water ocean intake pipe was closed by lowering the sluice gates at the intake canal headwall in order to perform work at the ocean intake structure. The pipe was reopened February 11, 1990 at 1816 hours. Since there was no water flow through the intake pipe during this period of approximately 41 hours, there is believed to have been a depletion of dissolved oxygen in the pipe created by encrusted marine organisms and a subsequent build up of hydrogen sulfide in the water. The fishkill appears to have been a direct result of these conditions.

The dead fish were collected, identified and separated according to species. An approximate weight was established, and the dead fish were subsequently disposed of onsite.

- c. Since no additional fish were dying at the time the event was observed, no immediate action was necessary to prevent further mortality.

- d. In the event that the 16 foot diameter ocean intake pipe is to be fully closed in the future for a period greater than 24 hours, the following precaution will be taken to minimize possible future fishkills:

The 16 foot intake pipe sluice gate will be gradually raised to allow for the introduction of water from the pipe into the intake canal, thereby assuring adequate oxygen levels in the intake canal water.

In the event that the gradual introduction of water from the pipe into the intake canal does not prove to be effective, aeration of cooling water at the intake headwall area will be considered in order to assist in increasing dissolved oxygen (DO) levels to prevent marine organism mortality.

- e. The Nuclear Regulatory Commission, via Jan Norris, St. Lucie Plant Project Manager, was notified of the event on February 13, 1990. Mr. Norris stated that he would review FPL's written report. FPL's determination of reportability was made by FPL biological specialists in the Company's Environmental Affairs Department through a systematic evaluation of the event.

