

**Florida  
Power**  
CORPORATION

January 9, 1984  
3F0184-11

Mr. Harold R. Denton, Director  
Office of Nuclear Reactor Regulation  
U.S. Nuclear Regulatory Commission  
Washington, D.C. 20555

Subject: Crystal River Unit 3  
Docket No. 50-302  
Operating License No. DPR-72  
NPDES Permit Reporting to the Environmental Protection Agency

Dear Sir:

Florida Power Corporation hereby submits a copy of a report filed with the Environmental Protection Agency concerning the exceeding of the temperature limits as set forth in the NPDES permit. This submittal is made in accordance with Crystal River Unit 3 Technical Specifications, Appendix B, Part II, Section 3.2.

If there are any questions concerning this submittal, please contact this office.

Sincerely,

G. R. Westafer  
Manager, Nuclear Operations  
Licensing and Fuel Management

DVH/feb

Attachments

cc: Mr. J. P. O'Reilly  
Regional Administrator, Region II  
Office of Inspection & Enforcement  
U.S. Nuclear Regulatory Commission  
101 Marietta Street N.W., Suite 2900  
Atlanta, GA 30303

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January 5, 1984

Mr. Peter T. McGarry, Chief  
Florida/Mississippi Unit  
Water Management Division  
U. S. Environmental Protection Agency  
345 Courtland Street  
Atlanta, Georgia 30365

Subject: Crystal River Plant  
NPDES Permit FL0000159

Dear Mr. McGarry:

In accordance with noncompliance notification requirements of the Crystal River NPDES permit, Florida Power Corporation submits the following information.

On December 26, 1983, Crystal River Unit 3 exceeded the temperature limits as set forth in the permit. This occurred as the result of a massive influx of dead and stunned fish which was most likely the result of rapidly declining cooling water temperature accompanied by high winds. When the fish reached the intake structure it decreased the condenser cooling water flow into the condenser and therefore the temperature rise (delta T) across the condenser increased sharply.

The 17.5°F delta T three-hour limit was exceeded from 2000 hours December 26, 1983, to 0000 hours December 27, 1983, and the 21.0°F delta T one-hour limit was exceeded from 2000 hours December 26, 1983 to 2200 hours December 26, 1983. A table is attached showing actual water temperatures.

Unit 3 was taken off-line at 0016 hours on December 27, 1983 and cleaning of the intake structures commenced. The unit was brought on-line again at 1115 hours December 27, 1983 and power escalation commenced. The unit remained at reduced power and cleaning of the condensers continued until the unit returned to full service December 29, 1983.

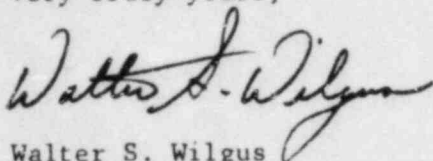
The dominant fish species observed in the intake canal were the scrawled cowfish (Lactophrys quadricornis), striped burrfish (Chilomycterus schoepfi), and ladyfish (Elops saurs). Substantial numbers of dead and stunned fish were also observed by Mote Marine Lab personnel in the shallow waters south

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of the intake canal. The presence of fish in areas not associated with the power plant suggests a general cold induced effect over a broad geographical area rather than a plant specific impact.

Should you have any questions concerning this matter, please advise.

Very truly yours,

A handwritten signature in cursive script, reading "Walter S. Wilgus".

Walter S. Wilgus  
Vice President  
Nuclear Operations

WSW/gr

Attachment

cc: Ms. V. J. Tschinkel, DER  
Mr. D. A. Williams, DER

TIME	OUTLET WATER TEMPERATURE (°F)	INLET WATER TEMPERATURE (°F)	CONDENSER delta T (°F)
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December 26, 1983

2000	84.1	50.0	34.1
2100	81.7	49.9	31.8
2200	86.1	49.6	36.5
2300	69.0	49.6	19.4

December 27, 1983

0000	67.8	49.1	18.7
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