



# Progress Energy

Docket No. 50-302  
Operating License No. DPR-72

Ref: CR-3 ITS Appendix B

June 9, 2004  
3F0604-05

U.S. Nuclear Regulatory Commission  
Attn: Document Control Desk  
Washington, DC 20555-0001

Subject: Crystal River Unit 3 – Report Required by Environmental Protection Plan

Dear Sir:

In accordance with the conditions of the National Pollutant Discharge Elimination System (NPDES) Permit, Progress Energy Florida, Inc. submitted a report to the Florida Department of Environmental Protection (FDEP) on June 2, 2004. The report summarized the events that occurred on June 1, 2004, when Crystal River Units 1, 2, and 3 experienced an upset condition which resulted in an exceedance of permitted thermal limits.

The attached copy of the written notification made to FDEP is being submitted in accordance with the Crystal River Unit 3 Improved Technical Specification (ITS), Appendix B, Environmental Protection Plan.

If you have any questions regarding this submittal, please contact Mr. Sid Powell, Supervisor, Licensing and Regulatory Programs at (352) 563-4883.

Sincerely,

S. C. Powell  
Supervisor,  
Licensing & Regulatory Programs

SCP/ff

Attachment

xc: Regional Administrator, Region II  
Senior Resident Inspector  
NRR Project Manager

Progress Energy Florida, Inc.  
Crystal River Nuclear Plant  
15760 W. Power Line Street  
Crystal River, FL 34428

IE25



Michael Olive  
Plant Manager  
Crystal River Fossil Plant

June 2, 2004

Mr. Tommy Oneal  
Florida Department of Environmental Protection  
Industrial Wastewater Program  
Southwest District  
3804 Coconut Palm Drive  
Tampa, FL 33619-8318

Dear Mr. Oneal:

Re: Progress Energy Florida, Inc. Crystal River Units 1, 2, & 3 Upset  
Thermal Limit Excursion Follow Up Notification – FL0000159

On June 2, 2004, Progress Energy Corporation made a verbal notification of upset to Ms. Iliia Balcom pursuant to Condition VIII.A.20 of the subject permit. Per her request, the following is a written description of events that occurred on June 1, 2004 and reported verbally by Mr. Michael Shrader. This event resulted in an upset condition with a subsequent exceedance of permitted thermal limits.

#### Conditions Prior To Event

Immediately prior to the event, the Crystal River South units were generating electricity at or near full capacity (Unit 1 at 400 megawatts (MW), Unit 2 at 475 MW), and the Point of Discharge (POD) 3 hr rolling average was slightly below 96°F (Permit limitation is 96.5°F). The intake canal temperature was 87.5°. The ambient temperature was 97.0°F.

#### Event Description

At 1430 hours the breaker supplying electrical power to #2 Helper Cooling Tower (HCT) fans and motor operated valves and #1 HCT valves tripped. The loss of power to the HCT valves caused HCT pumps #1 and #2 to trip. The electrical supply breaker to the fans and valves tripped as a result of overheating of the air in the room which houses the breaker cabinets. This room is serviced by a temporary 10 ton air conditioning unit.

Immediate actions were taken to reduce electrical generation from both units, while electricians worked to restore the system. From 1440 through 1540, Unit 1 was reduced in generation from 400 MW to 120 MW, Unit 2 from 475 MW to 140 MW. Power was restored and the HCT's were fully operational at 1540. In the event that subsequent HCT trips might occur and to hasten the reduction of the 3 hour temperature average, Unit 1 was further reduced in load from 120 MW to 70 MW from 1540 to 1710. At 1610 the 3 hour rolling average at the POD was 96.65 °F, exceeding the 96.5 °F limitation. The maximum 3 hour rolling average that occurred during the event was 96.83 °F. At 1710,

Progress Energy Florida, Inc.  
Crystal River Steam Plant  
15760 W. Powerline Street  
Crystal River, FL 34428

the 3 hour rolling average at the POD fell to 96.4°F as the result of electrical generation reduction and the event was considered over. Both Units were returned to normal operational conditions. There is no indication that any environmental damage occurred as the result of the upset condition.

To help prevent a reoccurrence of this type of event, additional temporary air conditioning equipment is being installed in the electrical services building where the breaker referenced above is located.

Progress Energy Florida appreciates your cooperation in this matter. Please provide your concurrence that Crystal River Units 1, 2, & 3 are no longer in an upset condition. If you have any questions regarding this event, please contact Mr. Michael Shrader (727) 826-4050 or Mr. Ron Johnson (352) 464-7909.

Sincerely,

A handwritten signature in black ink, appearing to read "Michael Olive". The signature is fluid and cursive, with the first name "Michael" and last name "Olive" clearly distinguishable.

Michael Olive  
Manager, Crystal River Fossil Plant