



Crystal River Nuclear Plant  
Docket No 50-302  
Operating License No DPR-72

Ref: 10CFR50.36a

January 16, 2003  
3F0103-07

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

Subject: Crystal River Unit 3 – Special Report 02-02, Waste Gas Decay Tank Explosive  
Gas Monitoring Instrumentation Inoperable For More Than 30 Days

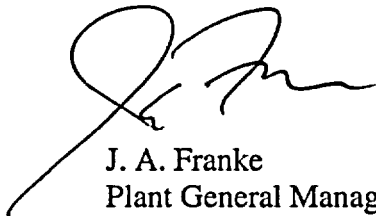
Dear Sir:

As required by Crystal River – Unit 3's (CR-3's) Offsite Dose Calculation Manual (ODCM), Section 2.14, Special Reports, Attachment A contains Special Report 02-02. This Special Report documents that the Waste Gas Decay Tank (WGDT) explosive monitoring instrumentation, required by Section 2.16, was inoperable for more than 30 days and includes the reasons for the inoperability and the schedule for corrective action.

A new regulatory commitment is listed in Attachment B.

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

Sincerely,



J. A. Franke  
Plant General Manager

JAF/rmb

Attachments:

- A. Special Report 02-02
- B. List of Regulatory Commitments

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

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Crystal River Nuclear Plant  
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## SPECIAL REPORT 02-02

### **WASTE GAS DECAY TANK EXPLOSIVE GAS MONITORING INSTRUMENTATION INOPERABLE FOR MORE THAN 30 DAYS**

This Special Report is being submitted in accordance with the Crystal River Unit 3 (CR-3) Off-site Dose Calculation Manual (ODCM), Revision 25, Specification 2.16. The purpose of this report is to provide the details of the Waste Gas Decay Tank (WGDT) Explosive Gas Monitoring Instrumentation (Waste Gas Analyzer (WDGA-1)) being inoperable for more than thirty days, the actions taken, and the expected date of return to service.

#### DESCRIPTION

On November 19, 2002, CR-3 discovered that the Waste Gas Analyzer (WDGA-1), WGDT explosive gas monitoring instrumentation, was inoperable.

#### ACTIONS TAKEN

The system operation is continuing with grab samples collected and analyzed once per 24 hours during normal operation and once per 4 hours during degassing operations.

#### REASONS FOR INOPERABILITY

During troubleshooting of the WDGA-1, the following problems were documented:

The cycle timer was not working correctly resulting in the sensor not being purged properly. Re-programming of the cycle timer failed to correct the inoperability.

The installed sensor was replaced with a new sensor and all connections were verified to be satisfactory. This failed to correct the inoperability.

All other Progress Energy (PE) troubleshooting steps failed to determine the cause for the inoperability.

The analyzer unit was shipped to the vendor for further troubleshooting and evaluation. The vendor determined that the problem was with a digital board that they could not repair or replace.

#### CURRENT ACTIONS

Progress Energy is purchasing a replacement analyzer.

#### EXPECTED RETURN TO SERVICE

The system is expected to be returned to service prior to March 15, 2003.

### LIST OF REGULATORY COMMITMENTS

The following table identifies those actions committed to by Progress Energy in this document. Any other actions discussed in the submittal represent intended or planned actions by Progress Energy. They are described to the NRC for the NRC's information and are not regulatory commitments. Please notify the Supervisor, Licensing & Regulatory Programs of any questions regarding this document or any associated regulatory commitments.

COMMITMENT	DUE DATE
The system is expected to be returned to service.	Prior to March 15, 2003