

EXHIBIT A

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SUPPLEMENTARY INFORMATION

REPORT NO: 50-302/83-026/03L-0

FACILITY: Crystal River Unit #3

REPORT DATE: August 11, 1983

OCCURRENCE DATE: July 12, 1983

IDENTIFICATION OF OCCURRENCE:

Shutdown margin calculation error due to procedural inadequacy and calculational error.

CONDITIONS PRIOR TO OCCURRENCE:

The unit was in MODE 5 (COLD SHUTDOWN) when the error was discovered.

DESCRIPTION OF OCCURRENCE:

Interim changes, dated June 22, and July 3, 1983, to Operating Procedure OP-103 (Plant Curve Book) to reflect the current core configuration were not incorporated into the current working copy of the procedure. Shutdown margin calculations were in error due to the utilization of outdated curves. This produced an error of approximately 1.5% $\Delta k/k$.

A slight calculational error was also made which produced an error of approximately 0.21% $\Delta k/k$.

DESIGNATION OF APPARENT CAUSE:

The primary cause of this event was inadequate training of Document Control personnel resulting in personnel error. This was compounded by operating personnel not recognizing the curves to be out of date. The calculational error was multiplying the boron worth factor by a term which needed no such "adjustment".

ANALYSIS OF OCCURRENCE:

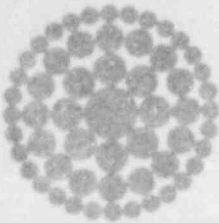
The erroneous calculations indicate a shutdown margin of 10.01% $\Delta k/k$, whereas corrected calculations using the current Cycle V curves indicate a shutdown margin of 8.3% $\Delta k/k$. However, the shutdown margin required by the Technical Specifications is only 1.0% $\Delta k/k$. Thus adequate shutdown margin was maintained.

CORRECTIVE ACTION:

The procedure was updated to incorporate interim changes and the shutdown margin was recalculated using Cycle 5 curves. A management instruction was issued to revise the methods of administratively handling interim changes. This revision, coupled with retraining of appropriate personnel, is considered adequate to prevent recurrence.

FAILURE DATA:

This is the first report of this type and the seventh occurrence reported under Technical Specification 6.9.1.9.c.



USNRC REGION II
ATLANTA, GEORGIA

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**Florida
Power**
CORPORATION

August 11, 1983
3F-0883-09

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

Subject: Crystal River Unit 3
Docket No. 50-302
Operating License No. DPR-72
Licensee Event Report No. 83-026

Dear Mr. O'Reilly:

Enclosed please find Licensee Event Report No. 83-026, and the attached supplementary information sheet, which are submitted in accordance with Technical Specification 6.9.1.9.c.

Should there be any questions, please contact this office.

Sincerely,

G. R. Westafer
Manager
Nuclear Licensing and Fuel Management

BCT/mlg

Enclosure

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

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