

SUPPLEMENTARY INFORMATION

REPORT NO: 50-302/83-001/01X-2
FACILITY: Crystal River Unit #3
REPORT DATE: April 23, 1985
OCCURRENCE DATE: January 6, 1983

IDENTIFICATION OF OCCURRENCE:

On January 6, 1983, Florida Power Corporation (FPC) identified an apparent unreviewed safety question. The control complex radiation monitor, RM-A5 (and RM-A's 3, 4, 7 and 8) does not alarm or initiate protective functions upon loss of power to the circulation pump as stated in FSAR Section 11.4.2.1.

CONDITIONS PRIOR TO OCCURRENCE:

Mode 1 (84% Full Power)

DESCRIPTION OF OCCURRENCE:

While performing the safety evaluation for the December 15th failure of RM-A5 (LER 82-76), FPC determined that failure of RM-A5 to alarm in all failure modes constituted an unreviewed safety question. An engineering review of other radiation monitors' circuitry has indicated that RM-A3, 4, 7 and 8 also have same problem.

DESIGNATION OF APPARENT CAUSE:

This unreviewed safety question was caused by a design inadequacy. Apparently, the original design for RM-A3, 4, 5, 7 and 8 failed to consider that the pump and alarm were on common circuitry such that a breaker trip from the pump would also trip the alarm and prohibit it from alerting personnel of an instrument failure.

ANALYSIS OF OCCURRENCE:

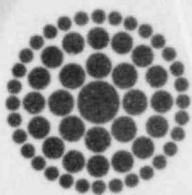
This design inadequacy is not considered to have adversely affected public health and safety.

CORRECTIVE ACTION:

As an interim corrective action, personnel verified that RM-A3, 4, and 5 were energized on an hourly basis. Because RM-A7 and 8 did not initiate protective equipment upon alarm or failure, they were therefore only checked shiftly. As a result of the Engineering Investigation, the alarm logic contacts for RM-A3, 4, 5, 7 and 8 were modified to provide annunciation upon loss of power. This modification was completed on 8/7/84.

FAILURE DATA:

This is the first unreviewed safety question involving the Radiation Monitors' design.



**Florida
Power**
CORPORATION

April 23, 1985
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Document Control Desk
U.S. Nuclear Regulatory Commission
Washington, DC 20555

Subject: Crystal River Unit 3
Docket No. 50-302
Operating License No. DPR-72
Licensee Event Report No. 83-001, Revision 2

Dear Sir:

Enclosed is Revision 2 to Licensee Event Report (LER) No. 83-001 and the attached supplementary information sheet.

Should there be any questions, please contact this office.

Sincerely,

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

AEF/feb

Enclosure

cc: Dr. J. Nelson Grace
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