

SUPPLEMENTARY INFORMATION

REPORT NO.: 50-302/83-030/03X-1

FACILITY: Crystal River Unit 3

REPORT DATE: January 10, 1984

DATE OF OCCURRENCE: July 21, 1983

IDENTIFICATION OF OCCURRENCE:

A steam generator operating range level recorder, required by Technical Specification 3.3.3.6, was inoperable.

CONDITIONS PRIOR TO OCCURRENCE:

Mode 3 (Hot Standby), startup.

DESCRIPTION OF OCCURRENCE:

At 2030 on July 21, 1983, the Once-Through Steam Generator (OTSG) "A" operating range level recorder indicated a level corresponding to 119 inches while the startup range indicated 30 inches. Also, as an item of interest, an apparent mismatch between operating and startup range levels was observed on July 23, 1983.

DESIGNATION OF APPARENT CAUSE:

The July 21, 1983 occurrence resulted from normal wear spreading the contacts in a recorder pin connector socket, thus the connection was faulty.

The second observation (July 23, 1983) was due to a misunderstanding of the operation of the two level (startup and operating range) indicators.

ANALYSIS OF OCCURRENCE:

Control room indication of OTSG "A" operating level was available and the recorder was repaired within seven hours. This occurrence did not significantly affect plant safety.

As to the apparent mismatch noticed on July 23, 1983, the Steam Generator operating range level instrumentation is expected to read approximately 5% with 0% power. This indication is due to flow induced differential pressure across the OTSG support plates; the flow being the minimal steaming expected at this power level.

This expected level reading of approximately 5% at 0% power is supported by B&W's Limits and Precautions (1977) Figure 1.0-08.5, and Figure 1-8 of Florida Power Corporation's Plant Curve Book, OP-103. A comparison of the "expected" indication on both the start-up and operating range OTSG level instrumentation is attached.

The large difference in level indication between the startup and operating ranges is primarily due to temperature compensation on the operating range.

Hence, the observed reading was normal and not due to any instrumentation calibration problem. Thus, this channel was in fact operable.

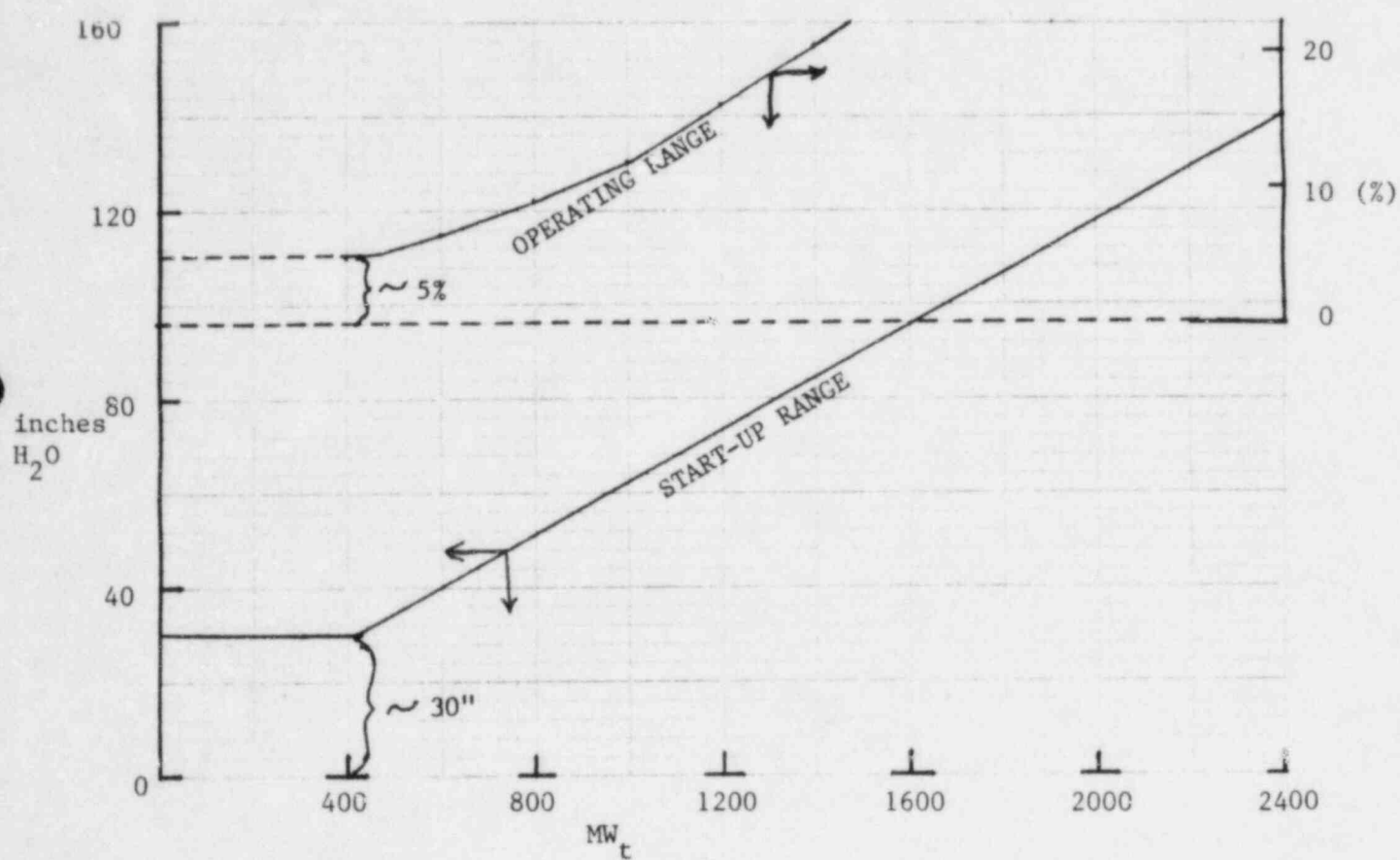
CORRECTIVE ACTION:

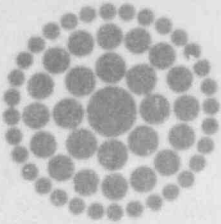
The pin connector was repaired and the recorder was returned to operability at 0520 on July 22, 1983.

FAILURE DATA:

This is the second failure for the recorder and the thirteenth event reported under Technical Specification 3.3.3.6.

COMPARISON BETWEEN THE EXPECTED OTSG LEVEL INDICATIONS
ON THE START-UP AND OPERATING RANGE VERSUS MEGAWATTS (th)





**Florida
Power**
CORPORATION

January 10, 1984
3F0184-08

Mr. James 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

Subject: Crystal River Unit 3
Docket No. 50-302
Operating License No. DPR-72
Licensee Event Report No. 83-030, Revision 1

Dear Mr. O'Reilly:

Enclosed is Licensee Event Report No. 83-030, Revision 1, and the attached supplementary information sheet, which are submitted in accordance with Technical Specification 6.9.1.9(b).

Should there be any questions, please contact this office.

Sincerely,

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

AEF/feb

Enclosure

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

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