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SUPPLEMENTARY INFORMATION

REPORT NO: 50-302/83-039/03X-1

FACILITY: Crystal River Unit #3

REPORT DATE: January 27, 1984

OCCURRENCE DATE: March 29, 1983

IDENTIFICATION OF OCCURRENCE:

Eleven process instruments required by Technical Specification (TS) 3.3 were found to be out of calibration during Mode 5 surveillance testing and are being reported as suggested by Regulatory Guide 1.16. A summary is attached as Enclosure A.

CONDITIONS PRIOR TO OCCURRENCE:

MODE: 5 (COLD SHUTDOWN), Refueling Outage.

DESCRIPTION OF OCCURRENCE:

During shutdown surveillance, eleven instrument setpoints were found outside established procedural limits. In seven cases, the channel setpoints would have exceeded operational mode Technical Specification limits. The remaining four are reported because operation outside Technical Specification level limits could have gone undetected.

Several additional "strings" or channels contained components which exhibited drift outside procedural limits but did not cause their respective strings to exceed any Technical Specification limits and, hence, are not included.

DESIGNATION OF APPARENT CAUSE:

The cause of this occurrence is procedural inadequacy in that either the string error allocation or the component tolerance or both as reflected in the procedure limits, were inconsistent with design assumptions. Additionally, "as left" and "as found" tolerance bands were often identical; hence, the procedures allowed poor calibration practices, which together with normal drif', resulted in the subsequent "as found" setpoint exceeding the administrative precedure limit. Finally, actual drift may have exceeded anticipated drift in some cases.

ANALYSIS OF OCCURRENCE:

In many cases, error tolerances allocated to individual components were inconsistent with design assumptions. Consequently, normal instrument drift for a component frequently exceeded procedural limits. However, a Babcock & Wilcox (B&W) validation review of reactor protection system (RPS) calibration procedures typically found total string errors to be correct.

For cases where the observed setpoint drift exceeded both the original "incorrect" tolerances mentioned above and the subsequent revised tolerances, the safety concern can be explained as follows:

If the actual observed component error frequently exceeds the presumed limit, then the associated total string error <u>analysis</u> might be invalidated, especially in multiple channel or frequently recurring out-of-tolerance cases. Isolated occurrences, by themselves, might show that a design assumption could have been exceeded but do not necessarily represent a significant safety concern.

Component tolerances, via associated error analysis, are used in establishing TS limits in support of the various accident analyses. Therefore, frequent excessive drift could imply that the calculated TS limits might be less conservative than previously thought. However, any margin reduction is not considered likely to significantly affect plant safety due to margin available from other sources (e.g., higher than assumed RC flow, lower than assumed cycle-specific total peaking factors and analyses done at 2568 or 2772 MWt versus 2544 MWt).

CORRECTIVE ACTION:

The affected RPS procedures were revised to conform to manufacturer's recommended tolerances and to incorporate other setpoint changes recommended by B&W. Some instruments which have exhibited poor performance are being replaced as part of unrelated modification packages (EFIC, Appendix R, Remote Shutdown, Environmental Qualification, etc.). The analyses for components which exhibited drift outside valid design assumptions but which did not cause instrument strings to violate Technical Specification limits will be reviewed to see if the error analyses have been affected and will be used as an input to subsequent analyses.

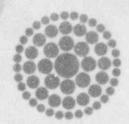
FAILURE DATA:

This is the tenth report under Regulatory Guide 1.16.

ITEMS DISCOVERED WHILE SHUTDOWN TO BE OUT OF CALIBRATION AND REPORTED AS SUGGESTED BY REGULATORY GUIDE 1.16

ASSOCIATED TECH SPEC	SENSOR TAG NUMBER	FUNCTION	NO DEVICE	MFG.	DATE DISCO- VERED	DATE RECALIB	PROCEDURAL LIMIT (ALLOW, TOL.	SETPOINT	TS LIMIT
3,3,3,5	RC-1-LT1	Pressurizer Level	1. Indicator RC-1-LI	R369 B045	03/29/83	03/31/83	(<u>+</u> 5")	(-6")	
	RC-1-LT2	Pressurizer Level	2. Recorder RC-1-LR 3. Indicator RC-1-LI3	R369 B045 B045	04/02/83	04/02/83		(-15") (-10")	•
	RC-1-LT3	Pressurizer Level	4. Indicator RC-1-LI2	R369 B045	04/04/83	04/06/83	(<u>+</u> 5")	(-10")	•
3.3.1.1	RC-14B-DPT2	RC Flow	5. Flux/Flow/Imbal Trip B/S	B045 B045	04/12/83	04/15/83	100.75 (<u>+</u> 0.5%)	102.19%FP	101.3FP
3.3.1.1	RC-3A-PT1	RC Pressure	6. Low Pressure Trip 7. Variable Low Press	W121 B045 B045	04/23/83	04/23/83	1803.6 (±3.6 psi)	1794.4 psi	1800 psi
3.3.1.1	RC-3B-PT1	RC Pressure	8. Low Pressure Trip 9. High Pressure Trip 10. Variable P/T Trip	W121 B045 B045 B045	04/28/83	04/29/83	1803.6±3.6 psig 2296+4 psig (4 psi)	g 1798.73 psi 2302.12 psi (5.59 psi)	1800 psi 2300
3.3.3.5	RC-4B-TE1	Loop B Temp	11. Temperature Trans- mitter (Input to: indication and alarm)	R369 R369	04/29/83	04/29/83 (replaced)	(±1 to 8°F)	(60F)	

^{*} Operation outside Level Limits in Technical Specification could have gone undetected.



84 JAN 31 A10: 30

Florida Power

January 27, 1984 3F0184-24

Mr. James P. O'Reiliy Regional Administrator, Region II Office of Inspection and 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. 83-039

Dear Sir:

Enclosed is Licensee Event Report (LER) No. 83-039/03X-1 and Supplementary Information Sheet. This LER was submitted on October 13, 1983, as suggested by Regulatory Guide I.16. This revision is submitted in accordance with our commitment of December 13, 1983.

Should there be any questions, please contact this office.

Sincerely,

G. R. Westafer

Manager, Nuclear Operations Licensing and Fuel Management

RMB/feb

Enclosure

cc:

Document Control Desk

U.S. Nuclear Regulatory Commission

Washington, D.C. 20555

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