



**Commonwealth Edison**  
One First National Plaza, Chicago, Illinois  
Address Reply to: Post Office Box 767  
Chicago, Illinois 60690

March 16, 1983

Mr. James G. Keppler, Director  
Directorate of Inspection and  
Enforcement - Region III  
U.S. Nuclear Regulatory Commission  
799 Roosevelt Road  
Glen Ellyn, IL 60137

Subject: LaSalle County Station, Unit 2  
10CFR50.55(e) Notification 83-01,  
Interim Report, Riley Temperature  
Indicating Switches  
NRC Docket No. 50-374

Dear Mr. Keppler:

Commonwealth Edison notified your office on February 15 of a reportable deficiency in accordance with 10CFR50.55(e) concerning significant deviation from performance specifications for the Riley temperature switches installed in the leak detection system. (Model 86 VEFF for the differential temperature devices and model 86 PEGF for the ambient instruments).

During Unit 1 startup testing of the Leak Detection System (LDS), inconsistencies in the reading of the Riley temperature indicating switches (modules) were noted in that indications were different from expected temperatures by up to 16°F.

As part of our corrective action, two units were returned to General Electric, San Jose, for their evaluation of the failure mode. In addition, Riley visited LaSalle to investigate the problem and has established that the problem does exist by tests performed on-site and duplicated at Riley's facilities.

The cause of the erroneous temperature indication caused by the temperature offset is due to the development of a voltage drop across the thermocouple line resistance which partially offsets the thermocouple EMF.

Further, the manufacturer believes they have found the solution to why the modules are inconsistent in their readings and are modifying their current calibration procedure to correct the problem. This procedure will be ready for use on or about 3/18/83.

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Final resolution of the temperature module problem is expected by the end of April 1983. A final report will be issued at that time.

If you or your staff have any questions concerning this activity, please contact us at this office.

Very truly yours,

*CW Schroeder* 3/16/83

C. W. Schroeder  
Nuclear Licensing Administrator

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cc: Director of Inspection and  
Enforcement, Washington, D.C.  
NRC Resident Inspector - LSCS

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