

December 16, 1982

In reply, please refer to LAC-8766

DOCKET NO. 50-409

Mr. James G. Keppler, Regional Administrator
U. S. Nuclear Regulatory Commission
Directorate of Regulatory Operations
Region III
799 Roosevelt Road
Glen Ellyn, Illinois 60137

SUBJECT: DAIRYLAND POWER COOPERATIVE
LA CROSSE BOILING WATER REACTOR (LACBWR)
PROVISIONAL OPERATING LICENSE NO. DPR-45
REPORTABLE OCCURRENCE NO. 82-05

- REFERENCES:
- (1) DPC Letter, Linder to Keppler, LAC-8215, dated April 14, 1982
 - (2) DPC Letter, Linder to Keppler, LAC-8234, dated April 26, 1982
 - (3) DPC Letter, Linder to Director NRR, LAC-5478, dated September 26, 1978
 - (4) DPC Letter, Linder to Crutchfield, LAC-8768, dated December 16, 1982

Dear Mr. Keppler:

This letter constitutes the follow-up report to the event discussed in References 1 and 2. The subject occurrence involved the discovery of a discrepancy in the seismic and stress analysis of the High Pressure Core Spray (HPCS) System piping. The analysis was transmitted to the Nuclear Regulatory Commission in Reference 3 as part of the Full Term Operating License effort and to provide an example of analytical work accomplished earlier which could be of value in the Systematic Evaluation Program.

The discrepancy mainly involved differences in the as-installed material and configuration of a 10 inch section of 1-1/2 inch diameter discharge piping versus the analytical model. An investigation was conducted to determine whether the differences significantly degrade the safety margin of the HPCS System.

The seismic and stress analyses on the HPCS Suction piping, Main Steam and Feedwater lines and Forced Circulation loop were also reviewed to compare the analytical models to actual plant configuration. These analyses were also submitted in Reference 3. The review resulted in identification of several other minor discrepancies. The impact of the discrepancies on the results of the analyses was investigated.

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The discrepancies apparently resulted from the analytical models being based on piping materials and configuration utilized for construction under the AEC/Allis-Chalmers contract, rather than as modified in 1969-70 and 1973.

The results of the analysis of the differences in the HPCS line indicate that the margin of safety of the as-built HPCS line is reduced from that previously reported, but still adequate. An addendum has been added to Seismic and Stress Analysis of the LACBWR High Pressure Core Spray Discharge Line Piping System. The revised report is being submitted to the Office of Nuclear Reactor Regulation with Reference 4.

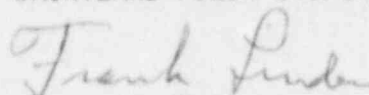
The evaluation of the effects of the discrepancies in the Feedwater and Main Steam lines is also being submitted to NRR with Reference 4. None of the discrepancies noted significantly altered previously documented results. In some cases, actual stresses are lower than previously reported. In the cases where calculated stresses increase, the increases are small and the resulting stress levels are still well within code allowables.

An updated Licensee Event Report (Reference: Regulatory Guide 1.16, Revision 4) is enclosed.

If there are any questions, please contact us.

Very truly yours,

DAIRYLAND POWER COOPERATIVE



Frank Linder, General Manager

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Enclosure

cc: Document Control Desk
INPO
NRC Resident Inspector