



UNITED STATES NUCLEAR REGULATORY COMMISSION WASHINGTON, D. C. 20555

DEC 1 5 1980

Docket No. 50-409 LS05-80-12-020

> Mr. Frank Linder General Manager Dairyland Power Cooperative 2615 East Avenue South LaCrosse, Wisconsin 54601

Dear Mr. Linder:

RE: LACROSSE - SEP TOPIC IV-2, REACTIVITY CONTROL SYSTEMS DESIGN AND PROTECTION AGAINST SINGLE FAILURES

The enclosed request for information has been prepared by the staff as a part of our review of SEP Topic IV-2.

Please provide the requested information within 90 days of receipt of this letter.

Sincerely,

Dennis M. Crutchfield, Chief Operating Reactors Branch #5 Division of Licensing

Enclosure: Request for Information on SEP Topic IV-2

cc w/enclosure: See next page CC Fritz Schubert, Esquire Staff Attorney Dairyland Power Cooperative 2615 East Avenue South La Crosse, Wisconsin 54601

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ENCLOSURE

REQUEST FOR INFORMATION SEP TOPIC IV-2

General Design Criterion 25 requires that the reactor protection system be designed to assure that specified acceptable fuel damage limits are not exceeded in the event of any single failure of the reactivity control systems, such as accidential rod withdrawals.

- Describe the single failures within systems used for reactivity control which can:
 - a) Cause an inadvertent reactivity insertion.
 - b) Cause a single or combination of rods to be positioned in other than the design sequence. For PWRs this should include consideration of single rod withdrawal/insertions which can result from a single equipment component failure.
- Delineate those design features which limit reactivity insertion rates and rod malpositions resulting from a single failure. Provide the appropriate circuit schematics showing these design features.
- Provide or reference appropriate analyses to demonstrate that specified acceptable fuel damage limits are not exceeded in the event of any of the single failures id ntified in Item 1 above.
- 4. Identify the operating procedures, alarms, interlocks, or protection system actions which must be used in limiting the consequences following a single failure within systems used for reactivity control. Where equipment actions are required, indicate whether the equipment meets the criteria of IEEE-279.