

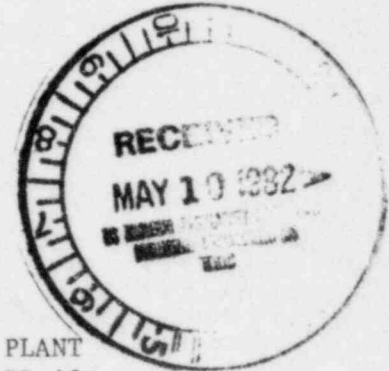


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May 3, 1982

Director  
Office of Nuclear Reactor Regulation  
U S Nuclear Regulatory Commission  
Washington, DC 20555



PRAIRIE ISLAND NUCLEAR GENERATING PLANT  
Docket Nos. 50-282 License Nos. DPR-42  
50-306 DPR-60

Response to Generic Letter 81-14  
Seismic Qualification of the Auxiliary Feedwater  
System Request for Additional Information

- Reference: a) NSP Letter dated July 14, 1981, "Response to Generic Letter 81-14, Information on Auxiliary Feedwater System Seismic Design"
- b) NRC Telecopy dated April 5, 1982, "Seismic Qualification of the Auxiliary Feedwater System, Request for Additional Information"

Reference (a) was a report prepared in response to NRC Generic Letter 81-14. Following NRC Staff review of this report, a request for additional information was sent to us by our Project Manager in the Division of Licensing (Reference (b)). The purpose of this letter is to respond to this request for additional information.

Our response to Reference (b) is attached. Please contact us if you have any questions related to the information we have provided.

*L.O. Mayer*

L O Mayer, PE  
Manager of Nuclear Support Services

LOM/DMM/bd

cc: Regional Administrator-III  
NRR Project Manager, NRC  
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PRAIRIE ISLAND NUCLEAR PLANT UNITS 1 AND 2

SEISMIC QUALIFICATION OF THE AUXILIARY FEEDWATER SYSTEM  
REQUEST FOR ADDITIONAL INFORMATION

Question 1: Generic Letter 81-14 states: "The results of any walk-down are requested within 120 days of receipt of this letter. These results should include all identified deficiencies and all corrective actions taken, or planned along with the schedules for such."

Our review of your response to Generic Letter 81-14 indicates that your response to this request is incomplete. Please provide information on any corrective actions taken or planned with schedules for the presently non-seismic class I piping, power supplies and the initiation and control system in your auxiliary feedwater system.

RESPONSE

Except for the deficiencies discussed in Sections 4.0 and 5.0 of our response, and excluding the primary water supply, the AFW System is seismically qualified. No work is presently planned on the primary water supply (condensate) system. Additional investigation has shown that considerable modifications would be required on the condensate system to provide seismic resistance capability. Since a fully seismically qualified backup system is provided which is independent of the primary water supply, sufficient reliability is assured.

Section 4.0 of the response discussed the deficiencies in the power supply and initiation and control areas which needed further evaluation. For items 4.0-1, 2, 3, 4 and 4.2-1, 2, physical changes were recommended. The recommendations for physical changes are being reviewed. Where required, engineering work is in progress which will result in completion of the modifications. For items 4.1-5 and 4.2-3 testing, analysis and design work has been recommended. Seismic evaluation and potential improvement of this equipment is within the scope of IE Information Notice 80-21. Our latest information is that the NRC is pursuing formal rulemaking which will establish the technical requirements on the seismic issue. This will result in issuance of a Rule and Regulatory Guide during 1984. In order to avoid duplication of effort and allow for a consistent design approach, we will defer further testing and redesign (Item 4.1-5 and 4.2-3) until the technical requirements are defined.

Section 5 of the response discussed the deficiencies in the mechanical and piping areas. As indicated in the list of deficiencies, most of the problems were that certain small portions of piping support systems had not been originally analyzed. In all areas where modeling and analysis was indicated, analysis work has been initiated and in some areas is complete. Where analysis has shown that additional supports are required, installation drawings are being made and installation or modification will commence as system availability and time allow.

All identified modifications should be completed prior to or during the Unit 1 and Unit 2 1983 refueling outages.