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March 16, 1984

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

Status of Modifications Planned to Improve Adequacy
of Station Distribution System Voltages

On July 17, 1981 Northern States Power Company submitted for NRC review an analysis of the adequacy of station electric distribution system voltages. This analysis and additional supporting correspondence was the subject of a Safety Evaluation issued by the NRC Staff on October 29, 1982. A number of modifications to improve the capacity and flexibility of the station distribution system were committed to by Northern States Power Company and accepted by the Staff in their Safety Evaluation. The purpose of this letter is to provide, for the information of the Staff, a report of the status of these modifications as requested during a recent telephone call between our technical staff, Mr Dominic DiIanni, NRC Licensing Project Manager, and Mr John Emani, NRC Power Systems Branch.

All modifications described in our July 17, 1982 report and accepted by the NRC Staff in their October 29, 1982 Safety Evaluation Report have been completed with the exception of changes to the station air compressor starting circuit to prevent unloading valves timing out before the motor starter has picked up. The possibility of needing this change was discussed in our report. This change will be pursued and will be completed in 1984.

The following information is provided relating to other work we have committed to complete:

New 2R Installation

A new 2R transformer has been installed and is fully operational. A Safety Evaluation justifying less restrictive grid operating limits based on the improved capacity and regulation provided by having two reserve transformers (one for each unit) was provided for the information of the NRC Staff with our letter dated December 8, 1983.

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New CT-1 Installation

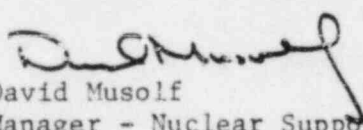
A new CT-1 transformer has been installed to improve the CT-11 cooling tower safeguards bus source. The auto transfer inhibit of CT-12 to CT-11 (described in our letter dated August 17, 1982) is no longer needed. The auto transfer feature has been restored.

The new CT-1 transformer provides improved regulation of the CT-11 source over that reported in our July 17, 1981 report. A Safety Evaluation has been prepared and approved to justify less restrictive operating limits for this source as a result of the new transformer. The revised analysis is available for NRC Staff review.

161 KV Substation Voltage

In discussions with Mr Emani, we were requested to confirm the voltage levels maintained on the 161 KV system. As noted in our earlier report, the 161 KV system is maintained at 168 ± 2 KV at all times by the load tap changer on No. 10 transformer. This arrangement is shown on Figure 1 of our July 17, 1981 report and discussed in Section 3.2 of that report.

Please contact us if you have any questions related to the information we have provided.


David Musolf
Manager - Nuclear Support Services

DMM/bd

c: Regional Administrator - III
NRR Project Manager, NRC
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J F Streeter, Region III, NRC
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