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Office of Nuclear Reactor Regulation, Director

SUBJECT: Repts completion of mods to meet NRC acceptance criteria for electrical distribution sys volatges & describes plans for assuring adequate voltage conditions.

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May 20, 1982

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

MONTICELLO NUCLEAR GENERATING PLANT
Docket No. 50-263 License No. DPR-22

Completion of Evaluation and Modifications Related
to Adequacy of Station Electrical Distribution System Voltage

On January 30, 1981 Northern States Power Company submitted an analysis of the Monticello station electric distribution system in accordance with a letter dated August 8, 1979 from Mr William Gammil, Acting Assistance Director for Operating Reactors Projects, Division of Operating Reactors, USNRC. Additional information was supplied in our letters dated March 16, 1981, June 25, 1981, November 2, 1981 and in several telephone conversations with our Project Manager in the Division of Licensing and the NRC's consultant for this review, Mr Don Weber of E G & G Idaho. The purpose of this letter is to report the completion of modifications needed to meet the NRC's acceptance criteria for electrical distribution system voltages and describe our plans for assuring adequate voltage conditions over the life of the plant.

As noted in our November 2, 1981 letter our consultant for this project recommended the start sequencing of the ECCS pumps when power is supplied from the 1R transformer to assure acceptable voltage conditions are maintained on the essential buses. This modification was completed and tested during our fall, 1981 maintenance outage. No further modifications are necessary at this time to maintain voltages on the essential buses within acceptable limits. Our consultant also recommended the addition of load centers and motor control centers to improve voltage regulation and to alleviate potential overload conditions on some non-essential buses. We are presently instrumenting various buses to monitor actual running currents and voltages for use as design input. This monitoring phase is expected to last about six months with design, procurement and installation of appropriate system improvements following that. One final concern brought out by the load study is that there is little excess load capacity left on the existing system for future loads. We have in place conceptual designs for increasing the system load capacity, however, these designs will not be implemented until the need for additional capacity arises.

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To assure that an adequate plant electrical system is maintained in the future, the detailed design review report prepared by our consultant will be incorporated as a controlled document under our Quality Assurance program. Additionally, we are modeling the Monticello electrical system on a computer load flow program to use as an analytical tool. All future design changes to the distribution system will then require updating of the load study report, and verification of adequacy by use of the computer model.

Please contact us if you have any questions concerning the information we have provided. We believe we have addressed all NRC concerns regarding the adequacy of station electrical distribution system voltage.

L. O. Mayer

L O Mayer, PE
Manager of Nuclear Support Services

LOM/DMM/bd

cc: Regional Administator-III, NRC
NRR Project Manager, NRC
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G Charnoff