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ACCESSION NBR: 8106180119 DOC. DATE: 81/06/08 NOTARIZED: YES DOCKET #
 FACIL: 50-263 Monticello Nuclear Generating Plant, Northern States 05000263
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 RECIPIENT AFFILIATION
 Office of Nuclear Reactor Regulation, Director

SUBJECT: Responds to Generic Ltr 81-04 re assessment of procedures & training programs for station blackout. Present abnormal procedures adequately address loss of offsite power event. Plant procedures contain precautions for equipment restart.

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 TITLE: Onsite Emergency Power Systems

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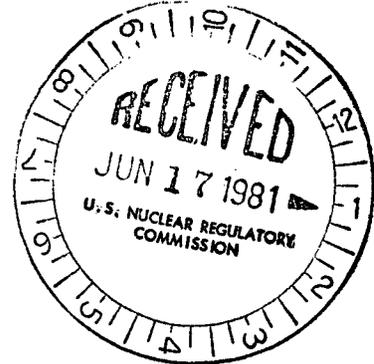
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June 8, 1981

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



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

Response to Generic Letter 81-04
Assessment of Procedures and Training Programs for Station Blackout

In a letter dated February 25, 1981 from Darrell G Eisenhut, Director, Division of Licensing, USNRC (Generic Letter 81-04), we were requested to provide an assessment of our existing and planned facility procedures and training programs with respect to station blackout events. This letter also stated that the following actions and important considerations should be included in our evaluation:

- a. Maintenance of heat removal capability and inventory control with available equipment.
- b. Basis for estimated time available to restore AC power.
- c. Actions required to restore offsite AC power in the event of loss of grid.
- d. Actions required to restore offsite power when caused by onsite equipment failure.
- e. Actions required to restore emergency onsite AC power, including diesel generator loading sequence considerations.
- f. Consideration of emergency lighting requirements for the duration of the event.
- g. Precautions to prevent consequential equipment damage due to the return of AC power.
- h. Definition of specific operator training requirements for the loss of all AC power event.

*Asis
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The review of the plant procedures with respect to a station blackout has been completed. The review disclosed the following points:

- The present abnormal procedures adequately address the loss of off site power event.
- The present abnormal procedures do not address the concurrent loss of all off site and on site AC power as an event in itself. The loss of all off site AC power and the concurrent loss of both diesel generators is an event that is not within the original design basis of the plant and was not considered to be a credible event. However, the present LOCA procedure includes steps that can be taken to mitigate a loss of all AC power.
- Items b and e of the generic letter refer to actions and estimated time to restore AC power. In order to address this item, it must be assumed that no damage was sustained by at least one diesel generator and its associated switchgear. In this case, where restarting the diesel generator and appropriate switching are the actions required, it is estimated that on site AC power could be restored in approximately 10 minutes. For any other situations that may arise (i.e. repair work required) it would be impossible to predict the time for restoration of on site AC power.
- The adequacy of the emergency lighting (item f) has been the subject of review with respect to the requirements of 10CFR50, Appendix R. A review of that work has determined that emergency lighting is adequate in the areas which must be occupied.
- The plant procedures contain precautions, where appropriate, for the restart of equipment.
- The plant procedures will be revised within six months to include the loss of on site AC power in addition to the loss of off site AC power. The operator requalification training program will be revised to provide training in use of those procedures.

The loss of grid event has been reviewed by our System Operation Department. It is estimated that the maximum time that would be required to re-energize the 345-KV transmission system into the Monticello substation would be two hours. This time would, of course, depend greatly on the means by which power were restored. Northern States Power has several (presently nine) gas turbine and jet engine driven generators that have the capability of being started in the absence of AC station auxiliary power. If remote start of all of the units from the system control center was unsuccessful and operators were required to travel to the generator sites to start the units, a maximum of two hours would elapse. At the other extreme, system interties could conceivably be reclosed to restore the 345-KV system in a much shorter time; possibly less than 30 minutes. A review of the most probable system contingencies which would result in the separation of the Northern States Power system and consequent loss of all generation has been completed. Recommendations resulting from this review are under consideration.

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



L O Mayer, PE
Manager of Nuclear Support Services

LOM/DMM/jh

cc J G Keppler
NRC Resident Inspector
G Charnoff

Attachment

UNITED STATES NUCLEAR REGULATORY COMMISSION

NORTHERN STATES POWER COMPANY

MONTICELLO NUCLEAR GENERATING PLANT

Docket No. 50-263

LETTER DATED JUNE 8, 1981
RESPONDING TO NRC LETTER DATED FEBRUARY 25, 1981
EMERGENCY PROCEDURES AND TRAINING FOR STATION BLACKOUT EVENTS

Northern States Power Company, a Minnesota corporation, by this letter dated June 8, 1981 hereby submits in response to the NRC letter dated February 25, 1981, our assessment of existing and planned facility procedures and training programs for station blackout events.

This submittal contains no restricted or other defense information.

NORTHERN STATES POWER COMPANY

By *L. O. Mayer*
L O Mayer
Manager of Nuclear Support Services

On this *8th* day of *June*, *1981*, before me a notary public in and for said County, personally appeared L O Mayer, Manager of Nuclear Support Services, and being first duly sworn acknowledged that he is authorized to execute this document on behalf of Northern States Power Company, that he knows the contents thereof and that to the best of his knowledge, information and belief, the statements made in it are true and that it is not interposed for delay.

Jeanne M Hacker

