



Northern States Power Company

414 Nicollet Mall
Minneapolis, Minnesota 55401
Telephone (612) 330-6071

D. E. Gilberts
Senior Vice President
Power Supply



TE HQ FILE COPY

J.P.P. 1/29/81

December 22, 1981

Mr James G Keppler
Regional Administrator
U S Nuclear Regulatory Commission
799 Roosevelt Road
Glen Ellyn, IL 60137

PRINCIPAL STAFF	
DIR	
D/D	30
A/D	30
DR&PI	
DE&TI	
✓ DEP&OS	File

- Attach to division

Dear Mr Keppler:

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

Subject: Emergency Preparedness
Public Notification System

In a recent telephone conversation your Mr J P Patterson requested that we provide documentation to technically support the design of the prompt public notification system for our Prairie Island plant. Section B of Appendix 3 to NUREG-0654 represents the applicable acceptance criteria to guide the design objective.

As indicated in our preceding correspondence our consultant has developed a basic siren system design for essentially 100% coverage of the population within five miles of the plant and population center coverage for the 5-10 mile zone. All sirens for this design have been located according to the conservative 70db criteria to ensure the required coverage. Installation work is well underway for the sirens and in most cases the actual installed location is as pinpointed on Map 1 enclosed. However, due to terrain and other field factors certain sirens have been relocated but generally within 100 feet of the precise location spotted on the map.

0-5 Mile Zone

According to the design 22 new 125db sirens and 10 new 115db sirens will be installed to complement the six existing 125 db sirens. With this system, essentially 100% of the population in the 0-5 mile zone will be alerted within the specified 15 minutes.

DEC 28 1981

Amo.

8202010291 811222
PDR ADOCK 05000263
F PDR

*IE 35
9/10*

Mr James G Keppler
Reg Admin NRC
December 23, 1981
Page 2

5-10 Mile Zone

As outlined in our letter of November 25, 1981, for the 5-10 mile zone we are proceeding to install sirens in the population centers. The design for the 5-10 mile zone includes 17 new 125db sirens and 4 new 115 db sirens. To reach persons not covered by these population center sirens, the design plan calls for the use of emergency warning vehicles operated by local sheriff and police departments which process is generally outlined in the State of Minnesota plans. These emergency vehicles will be assigned to alert the downwind and the two adjoining sectors as a first priority with other areas to be covered as appropriate to the conditions. An in-service testing program will better define the coverage of the fixed sirens and, in view of the 70db conservative design basis, it is expected that the coverage will be greater than shown on the map. This will considerably reduce the population remaining to be alerted by mobile sirens which will be carefully deployed in an effort to meet the 45 minute time interval specified for the 5-10 mile zone.

Supplemental Considerations

To further assure prompt alerting, about 85 commercial tone alert radios will be utilized to warn commercial, institutional, and educational facilities in the 10 mile EPZ. These locations may harbor large groups of people during all or part of a day justifying radio alert service even though many of these facilities are already covered by state and county emergency warning plans. Regarding alerting of transient populations (hunters, boaters, campers, etc.), not covered by fixed sirens, provision is made as a part of the local government plans. Reference is on page R-1 (Annex R) and page T-13 (Annex T) - Vol II of the Minnesota Plan.

Control and Testing

The sirens will be activated by radio control under authority of the Wright and Sherburne County sheriff's offices upon notification from the Monticello plant.

In Minnesota the tone alert radios will be activated using the NOAA radio system under the memorandum of agreement between the State of Minnesota, Division of Emergency Services (DES) and the Minneapolis Weather Service Forecast Office which agreement is reproduced as page X-1 of the Minnesota Plan. A further updating of this agreement now in process specifies in more detail the arrangement whereby DES will develop the appropriate public information message and convey it to the Weather Service Office for transmission on the NOAA system. Members of the EBS network monitor NOAA broadcasts and in this way will secure authentic information to broadcast as instructions to the public in the vicinity of the nuclear power plant.

Mr James G Keppler
Reg Admin NRC
December 23, 1981
Page 3

After initial testing of the alerting system, and when regulatory guidance has matured, a program can be developed to give assurance of continued capability.

Schedule

Our November 25, 1981 letter to you included an objective schedule for the activities and below is a current update.

Complete siren installation	1/15/82
Complete radio control installation	1/31/82
Complete total alert radio installation	1/31/82
Complete system testing	1/31/82

Because of the critical nature of this schedule, we will keep you informed on a prompt basis if conditions arise that affect the schedule.

Yours truly,



D E Gilberts
Senior Vice President
Power Supply

DEG/ECW/bd

cc: Mr G Charnoff
Mr C H Brown
Mr Brian Grimes, Director
Division of Emergency Preparedness
Washington, DC 20555
Mr Ralph A Olmos, Director
Division of Emergency Services, MN
Mr J T Anderson, Regional Director
Federal Emergency Management Agency
Chicago, IL 60602