



Northern States Power Company

414 Nicollet Mall
Minneapolis, Minnesota 55401
Telephone (612) 330-5500

December 27, 1984

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

Clarification of Information Related to Degraded
Voltage Protection Logic Changes

On November 27, 1984 the NRC Staff issued Amendment No. 31 to the Monticello operating license. The Safety Evaluation Report (SER) which accompanied the license amendment provided the results of NRC Staff review of our December 30, 1983 re-analysis of station distribution system adequacy and certain modifications made to the degraded voltage protection logic and diesel generator start logic. The purpose of this letter is to provide clarifying information related to one of the statements in the Staff SER.

On page two of the Staff SER, it is stated that a degraded condition on the essential buses, when supplied by No. 11 auxiliary transformer (UAT No. 11 as used in the Staff SER), will result in a transfer to No. 1R transformer (RSAT1R as used in the Staff SER), if acceptable voltage exists. This statement requires clarification.

As noted on page three of the attachment to our letter dated September 25, 1984 the degraded voltage transfer scheme was modified to transfer essential buses on a degraded voltage condition first to the preferred off-site standby reserve transformer (RSAT1AR as used in the Staff SER). If loads are being supplied by UAT No. 11, they would be transferred to RSAT1AR upon sensing degraded voltage assuming RSAT1AR voltage was acceptable. A similar transfer occurs to RSAT1AR when loads are being supplied by RSAT1R and degraded voltage is sensed. A transfer directly to the diesel generators will occur if RSAT1AR voltage is unacceptable or if loads are being supplied by RSAT1AR and degraded voltage is sensed.

8501070181 841227
PDR ADDCK 05000263
P PDR

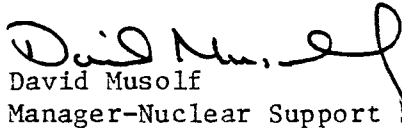
A015
1/0

Dir, NRR
December 27, 1984
Page 2

Northern States Power Company

The reason a transfer to RSAT1R from UAT No. 11 on degraded voltage was not included in the design is that the additional time delay to sample RSAT1R prior to transfer could prevent diesel generator load sequencing from occurring within the time specified in the design basis. Refer to Sections 8.3.3 and 8.4.1 of the Updated Safety Analysis Report (USAR) for Monticello and USAR Tables 8.4.1 and 8.4.2.

Please contact us if you require additional information related to this clarification. We do not believe that this clarification affects the conclusions reached by the Staff in their Safety Evaluation Report.


David Musolf
Manager-Nuclear Support Services

DMM/dab

c: Regional Administrator-III, NRC
NRR Project Manager, NRC
Resident Inspector, NRC
G Charnoff
J Emami, Power Systems Branch, NRC

REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR: 8501070181 DOC. DATE: 84/12/27 NOTARIZED: NO DOCKET #
 FACIL: 50-263 Monticello Nuclear Generating Plant, Northern States 05000263
 AUTH. NAME AUTHOR AFFILIATION
 MUSOLF, D. Northern States Power Co.
 RECIP. NAME RECIPIENT AFFILIATION
 Office of Nuclear Reactor Regulation, Director

SUBJECT: Provides clarifying info re statement in 841127 SER
 accompanying Amend 31 to License DPR-22 concerning degraded
 voltage protection logic changes.

DISTRIBUTION CODE: A015D COPIES RECEIVED: LTR 1 ENCL ϕ SIZE: 2
 TITLE: OR Submittal: Onsite Emergency Power System

NOTES: 05000263
 OL: 09/08/70

	RECIPIENT ID CODE/NAME		COPIES LTTR ENCL		RECIPIENT ID CODE/NAME		COPIES LTTR ENCL
	NRR ORB2 BC 01		7				
INTERNAL:	ACRS 16	6			ADM/LFMB	1	
	NRR/DL/ORAB 12	1			NRR/DSI/ICSB 09	1	
	NRR/DSI/PSB 14	1			REG FILE 04	1	
	RGN3	1			RM/DDAMI/MIB 18	1	
EXTERNAL:	LPDR 03	1			NRC PDR 02	1	
	NSIC 05	1			NTIS	1	

TOTAL NUMBER OF COPIES REQUIRED: LTTR 24 ENCL ϕ