



Northern States Power Company

Monticello Nuclear Generating Plant  
2807 West Hwy 75  
Monticello, Minnesota 55362-9637

February 19, 1996

Generic Letter 87-02

US Nuclear Regulatory Commission  
Attn: Document Control Desk  
Washington, DC 20555

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

Supplemental Response to Supplement 1 to Generic Letter 87-02,  
"Verification of Seismic Adequacy of Mechanical and Electrical Equipment in Operating  
Reactors, Unresolved Safety Issue USI A-46" (TAC M69460)

On February 19, 1987, the NRC issued Generic Letter 87-02, "Verification of Seismic Adequacy of Mechanical and Electrical Equipment in Operating Reactors, Unresolved Safety Issue (USI) A-46". This Generic Letter encouraged utilities to participate in a generic program to resolve the seismic verification issues associated with USI A-46. As a result, the Seismic Qualification Utility Group (SQUG) developed the "Generic Implementation Procedure (GIP) for Seismic Verification of Nuclear Plant Equipment".

On May 22, 1992, the NRC Staff issued Generic Letter 87-02 Supplement 1, which constituted the NRC Staff's review of the GIP and which included Supplemental Safety Evaluation Report Number 2 (SSER-2) on the GIP, Revision 2, corrected on February 14, 1992. By letters dated September 21, 1992, and November 20, 1995, Monticello responded to Generic Letter 87-02 Supplement 1.

In our November 20, 1995 letter, Monticello committed to a follow-up response within 90 days providing our schedule for corrective actions to address components identified as outliers during the relay evaluation. These components were listed in Table 7-1 of our report USNRC A-46 Resolution, Seismic Evaluation Report, Monticello Nuclear Generating Plant; the Monticello SQUG report. This letter satisfies that commitment. Attachment 1 to this letter restates the listing of components provided in Table 7-1 of the Monticello SQUG report and provides our schedule for resolution of these outliers.

This letter contains the following new NRC commitment:

1. Outlier components identified in Table 1-1 of Attachment 1 are to be evaluated and resolved in accordance with the SQUG Generic Implementation Procedures (GIP), For Seismic Verification of Nuclear Plant Equipment, Revision 2, Section 5, "Outlier Identification and Resolution." This action is to be completed prior to

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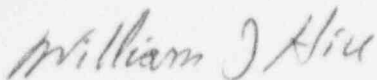
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the end of the 1998 refueling outage, currently scheduled to commence in January 1998.

2. Outlier components identified in Table 1-2 of Attachment 1 are to be replaced with relays seismically qualified for their intended use during the Monticello 1996 refueling outage, scheduled for April 1996.
3. Outlier components identified in Table 1-3 of Attachment 1 are to be replaced with relays seismically qualified for their intended use during the Monticello 1998 refueling outage, currently scheduled to commence in January 1998.

Please contact Marv Engen, Sr Licensing Engineer, at (612) 295-1291 if you require further information.



William J Hill  
Plant Manager  
Monticello Nuclear Generating Plant

c: Regional Administrator - III, NRC  
NRR Project Manager, NRC  
Sr Resident Inspector, NRC  
State of Minnesota, Attn: Kris Sanda

Attachments: Affidavit to the US Nuclear Regulatory Commission  
(1) Generic Letter 87-02, Supplement 1, Relay Evaluation Outlier Resolution

UNITED STATES NUCLEAR REGULATORY COMMISSION

NORTHERN STATES POWER COMPANY

MONTICELLO NUCLEAR GENERATING PLANT

DOCKET NO. 50-263

Supplemental Response Dated February 19, 1996  
to Supplement 1 to Generic Letter 87-02,  
"Verification of Seismic Adequacy of Mechanical and Electrical Equipment in Operating  
Reactors, Unresolved Safety Issue USI A-46" (TAC M69460)

Northern States Power Company, a Minnesota corporation, hereby provides the information requested by Supplement 1 to Generic Letter 87-02, as committed to in our November 20, 1995, submittal.

This letter contains no restricted or other defense information.

NORTHERN STATES POWER COMPANY

By William J Hill

William J Hill

Plant Manager

Monticello Nuclear Generating Plant

On this 19<sup>th</sup> day of February, 1996 before me a notary public in and for said County, personally appeared William J Hill, Plant Manager, Monticello Nuclear Generating Plant, 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.

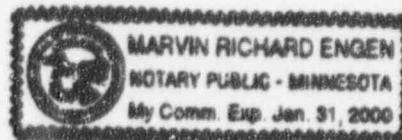
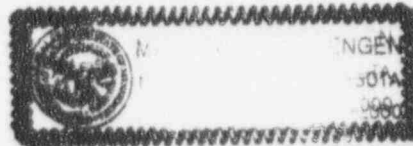
Marvin R Engen

Marvin R Engen

Notary Public - Minnesota

Sherburne County

My Commission Expires January 31, 2000



Attachment 1  
Generic Letter 87-02, Supplement 1, Relay Evaluation Outlier Resolution

The seismic capacity review performed using the Seismic Qualification User Group (SQUG) methodology identified a number of relays for which the Generic Equipment Ruggedness Spectra (GERS) or specific vendor qualification were not available. These relays are considered outliers and will require additional evaluation. The components listed in Table 1-1 below are to be evaluated using the methodology for resolution of outliers contained in the SQUG Generic Implementation Procedures (GIP), For Seismic Verification of Nuclear Plant Equipment, Revision 2, Section 5, "Outlier Identification and Resolution." This action is to be completed prior to the end of the 1998 refueling outage, currently scheduled to commence in January 1998.

Table 1-1  
 Relay Outliers to be Further Evaluated

Relay Designation and Panel	Subsystem/Component used in
ECRA (C91)	G-3A (EDG 11)
ECRA (C92)	G-3B (EDG 12)
ESR1 (C91)	G-3A (EDG 11)
ESR1 (C92)	G-3B (EDG 12)
ESR2 (C91)	G-3A (EDG 11)
ESR2 (C92)	G-3B (EDG 12)
ESRX1 (C91)	P-111A -- 11 EDG-ESW pump, V-SF-10 -- 11 EDG supply fan
ESRX1 (C92)	P-111B -- 12 EDG-ESW pump, V-SF-9 -- 12 EDG supply fan
ESRX2 (C91)	P-111A -- 11 EDG-ESW pump, V-SF-10 -- 11 EDG supply fan
ESRX2 (C92)	P-111B -- 12 EDG-ESW pump, V-SF-9 -- 12 EDG supply fan
ESTR (C91)	G-3A (EDG 11)
ESTR (C92)	G-3B (EDG 12)
FFC (C91)	G-3A (EDG 11)
FFC (C92)	G-3B (EDG 12)
FFCO (C91)	G-3A (EDG 11)
FFCO (C92)	G-3B (EDG 12)
FPR (C91)	EDG 11 FPM -- motor driven fuel pump
FPR (C92)	EDG 12 FPM -- motor driven fuel pump
FSR1 (C91)	G-3A (EDG 11)
FSR1 (C92)	G-3B (EDG 12)
FSR2 (C91)	G-3A (EDG 11)
FSR2 (C92)	G-3B (EDG 12)
GV (C91)	G-3A (EDG 11)
GV (C92)	G-3B (EDG 12)

Table 1-1 (continued)

Relay Designation and Panel	Subsystem/Component used in
MSR1 (C91)	G-3A (EDG 11)
MSR1 (C92)	G-3B (EDG 12)
MSR2 (C91)	G-3A (EDG 11)
MSR2 (C92)	G-3B (EDG 12)
NFLD (C93)	G-3A (EDG 11)
NFLD (C94)	G-3B (EDG 12)
NFLDA (C93)	G-3A (EDG 11)
NFLDA (C94)	G-3B (EDG 12)
OT (C93)	G-3A (EDG 11)
OT (C94)	G-3B (EDG 12)
OTR (C91)	G-3A (EDG 11)
OTR (C92)	G-3B (EDG 12)
PFDA1 (C91)	G-3A (EDG 11)
PFDA1 (C92)	G-3B (EDG 12)
PFDA2 (C91)	G-3A (EDG 11)
PFDA2 (C92)	G-3B (EDG 12)
SFA (C93)	G-3A (EDG 11)
SFA (C94)	G-3B (EDG 12)
STR1 (C91)	G-3A (EDG 11), 11 EDG MVST1 -- air start solenoid, 11 EDG BPM-1 -- booster pump motor
STR1 (C92)	G-3B (EDG 12), 12 EDG MVST1 -- air start solenoid, 12 EDG BPM-1 -- booster pump motor
STR2 (C91)	G-3A (EDG 11), 11 EDG MVST2 -- air start solenoid, 11 EDG BPM-2 -- booster pump motor
STR2 (C92)	G-3B (EDG 12), 12 EDG MVST2 -- air start solenoid, 12 EDG BPM-2 -- booster pump motor
VSR1 (C91)	G-3A (EDG 11)
VSR1 (C92)	G-3B (EDG 12)
VSR2 (C91)	G-3A (EDG 11)
VSR2 (C92)	G-3B (EDG 12)
ZSR1 (C91)	G-3A (EDG 11)
ZSR1 (C92)	G-3B (EDG 12)
ZSR2 (C91)	G-3A (EDG 11)
ZSR2 (C92)	G-3B (EDG 12)



The following relays identified as outliers per the methodology contained in the SQUG GIP are to be resolved by component replacement. These relays are to be replaced with relays seismically qualified for their intended use during the Monticello 1996 refueling outage, scheduled for April 1996.

Table 1-2

PFD1 (C92)	G-3B (EDG 12)
PFD2 (C92)	G-3B (EDG 12)
SFB1 (C92)	G-3B (EDG 12)
SFB2 (C92)	G-3B (EDG 12)
SFD1 (C92)	G-3B (EDG 12)
SFD2 (C92)	G-3B (EDG 12)
SSP1 (C92)	G-3B (EDG 12)
SSP2 (C92)	G-3B (EDG 12)

The following relays identified as outliers per the methodology contained in the SQUG GIP are to be resolved by component replacement. These relays are to be replaced with relays seismically qualified for their intended use during the Monticello 1998 refueling outage, currently scheduled to commence in January 1998.

Table 1-3

PFD1 (C91)	G-3A (EDG 11)
PFD2 (C91)	G-3A (EDG 11)
SFB1 (C91)	G-3A (EDG 11)
SFB2 (C91)	G-3A (EDG 11)
SFD1 (C91)	G-3A (EDG 11)
SFD2 (C91)	G-3A (EDG 11)
SSP1 (C91)	G-3A (EDG 11)
SSP2 (C91)	G-3A (EDG 11)