

DISTRIBUTION:

Docket  
NRC PDR  
L PDR  
ORB#2 Reading  
VStello  
KRGoller  
DDavis  
RPSnaider  
RMDiggs  
Attorney, OELD  
OI&E(3)  
DEisenhut  
TBAbernathy  
JRBuchanan  
ACRS(16)

LOlshan  
WButler

Docket No. 50-263 ✓

OCT 14 1977

Northern States Power Company  
ATTN: Mr. L. O. Mayer, Manager  
Nuclear Support Services  
414 Nicollet Mall - 8th Floor  
Minneapolis, Minnesota 55401

Gentlemen:

By letter dated February 23, 1977, we approved installation of the Recirculation Pump Trip (RPT), as proposed in your submittal of September 15, 1976, to provide additional protection for postulated Anticipated Transient Without Scram (ATWS) events. We also noted in our letter that our review of the Monticello long-term program is continuing in order to verify compliance with the objectives of WASH-1270 ("Technical Report on Anticipated Transients Without Scram for Water-Cooled Power Reactors," September 1973).

We have identified one potential problem that requires resolution prior to use of the RPT. As noted on page 49 of WASH-1270, a potential problem exists in your intended use of RPT relays of the same manufacturer as those used in your Reactor Protection System (RPS). Use of identical relays does not fulfill the desired system diversity, in that a common mode failure similar to that described in WASH-1270 could render both reactor scram and RPT inoperative. We could consider the use of RPT relays manufactured by a different vendor from those of the RPS to be a satisfactory solution.

You should inform us of your specific means to accomplish the desired diversity within 60 days of receipt of this letter.

Our review of the generic aspects of the ATWS issue is continuing. We shall inform you promptly if any further requirements which pertain to the Monticello RPT installation are identified.

Sincerely,

Original signed by  
Karl R. Goller

Karl R. Goller, Assistant Director  
for Operating Reactors  
Division of Operating Reactors

|           |              |           |         |           |           |             |
|-----------|--------------|-----------|---------|-----------|-----------|-------------|
| OFFICE ➤  | ORB#2:DOR    | ORB#4:DOR | PSB:DOR | AD/OT:DOR | AD/OR:DOR | C-ORB#2:DOR |
| SURNAME ➤ | RPSnaider:dn | LOlshan   | WButler | DEisenhut | KRGoller  | DKDavis     |
| DATE ➤    | 10/6/77      | 10/7/77   | 10/7/77 | 10/- /77  | 10/13/77  | 10/ /77     |

Docket No. 50-263

Northern States Power Company  
ATTN: Mr. L. O. Mayer, Manager  
Nuclear Support Services  
414 Nicollet Mall - 8th Floor  
Minneapolis, Minnesota 55401

Gentlemen:

By letter dated February 23, 1977, we approved installation of the Recirculation Pump Trip (RPT), as proposed in your submittal of September 15, 1976, to provide additional protection for postulated Anticipated Transient Without Scram (ATWS) events. We also noted in our letter that our review of the Monticello long-term program is continuing in order to verify compliance with the objectives of WASH-1270 ("Technical Report on Anticipated Transients Without Scram for Water-Cooled Power Reactors," September 1973).

We have identified one potential problem that requires resolution prior to use of the RPT. As noted on page 49 of WASH-1270, a potential problem exists in your intended use of RPT relays of the same manufacturer as those used in your Reactor Protection System (RPS). Use of identical relays does not fulfill the desired system diversity, in that a common mode failure similar to that described in WASH-1270 could render both reactor scram and RPT inoperative. We could consider the use of RPT relays manufactured by a different vendor from those of the RPS to be a satisfactory solution. You should utilize high quality components which are qualified for the expected service conditions.

You should inform us of your specific means to accomplish the desired diversity within 60 days of receipt of this letter.

Our review of the generic aspects of the ATWS issue is continuing. We shall inform you promptly if any further requirements which pertain to the Monticello RPT installation are identified.

Sincerely,

Karl R. Goller, Assistant Director  
for Operating Reactors  
Division of Operating Reactors

|           |              |           |         |           |            |           |
|-----------|--------------|-----------|---------|-----------|------------|-----------|
| OFFICE ➤  | DOR:ORB-2    | DOR:ORB-4 | DOR:PSB | DOR:AD/OT | DOR:AD/ORS | DOR:ORB-2 |
| SURNAME ➤ | RPSnaider:es | LOlshan   | WButler | DEisenhut | KRGoller   | DKDavis   |
| DATE ➤    | 10/3/77      | 10/3/77   | 10/7/77 | 10/ /77   | 10/ /77    | 10/3/77   |

DISTRIBUTION:

Docket  
NRC PDR  
Local PDR  
ORB-2 Reading  
VStello  
KRGoller  
DKDavis  
RPSnaider  
RMDiggs  
Attorney, OELD  
I&E (3)  
DEisenhut  
TBAbernathy  
JRBuchanan  
ACRS (16)  
LOlshan  
WButler

OCT 14 1977

cc: Gerald Charnoff, Esquire  
Shaw, Pittman, Potts and  
Trowbridge  
1800 M Street, N. W.  
Washington, D. C. 20036

The Environmental Conservation  
Library  
Minneapolis Public Library  
300 Nicollet Mall  
Minneapolis, Minnesota 55401

Arthur Renquist, Esquire  
Vice President - Law  
Northern States Power Company  
414 Nicollet Mall  
Minneapolis, Minnesota 55401

Russell J. Hatling, Chairman  
Minnesota Environmental Control  
Citizens Association (MECCA)  
Energy Task Force  
144 Melbourne Avenue, S. E.  
Minneapolis, Minnesota 55414

Mr. Kenneth Dzigan  
Environmental Planning Consultant  
Office of City Planner  
Grace Building  
421 Wabasha Street  
St. Paul, Minnesota 55102

Sandra S. Gardebring  
Executive Director  
Minnesota Pollution Control Agency  
1935 W. County Road B2  
Roseville, Minnesota 55113

Anthony Z. Roisman, Esquire  
Sheldon, Harmon & Roisman  
1025 15th Street, N. W., 5th Floor  
Washington, D. C. 20005

L. R. Ellason  
Manager  
110 Nuclear Generating Plant  
States Power Company  
Minnesota 55362

|           |  |  |  |  |  |  |
|-----------|--|--|--|--|--|--|
| OFFICE >  |  |  |  |  |  |  |
| SURNAME > |  |  |  |  |  |  |
| DATE >    |  |  |  |  |  |  |

Docket No. 50-263

Northern States Power Company  
ATTN: Mr. L. O. Mayer, Manager  
Nuclear Support Services  
414 Nicollet Mall - 8th Floor  
Minneapolis, Minnesota 55401

Gentlemen:

By letter dated February 23, 1977, we approved installation of the Recirculation Pump Trip (RPT), as proposed in your submittal of September 15, 1976, to provide additional protection for postulated Anticipated Transient Without Scram (ATWS) events. We also noted in our letter that our review of the Monticello long-term program is continuing in order to verify compliance with the objectives of WASH-1270 ("Technical Report on Anticipated Transients Without Scram for Water-Cooled Power Reactors", September 1973).

We have identified one potential problem that requires resolution prior to use of the RPT. As noted on page 49 of WASH-1270, a potential problem exists in your intended use of RPT relays of the same manufacturer as those used in your Reactor Protection System (RPS). Use of identical relays does not fulfill the desired system diversity, in that a common mode failure similar to that described in WASH-1270 could render both reactor scram and RPT inoperative. We would consider the use of RPT relays manufactured by a different vendor from those of the RPS to be a satisfactory solution. You should utilize high quality components which are qualified for the expected service conditions.

You should inform use of your specific means to accomplish the desired diversity within 60 days of receipt of this letter.

Our review of the generic aspects of the ATWS issue is continuing. We shall inform you promptly if any further requirements which pertain to the Monticello RPT installation are identified.

Sincerely,

Karl R. Goller, Assistant Director  
for Operating Reactors

Division of Operating Reactors

| OFFICE >  |               | DOR:ORB#2:  | DOR: ORB#4 | DOR:PSB/OT | DOR:AD/OT | DOR:AD/OR |
|-----------|---------------|-------------|------------|------------|-----------|-----------|
| cc: >     | See next page |             |            |            |           |           |
| SURNAME > |               | RSnaider:nn | LOlshan    | WButler    | DEisenhut | KGoller   |
| DATE >    |               | 9/ /77      | 9/ /77     | 9/ /77     | 9/ /77    | 9/ /77    |

DISTRIBUTION  
Docket  
NRC PDR  
L PDR  
ORB#2 Rdg.  
VStello  
KGoller  
DDavis  
RSnaider  
RDiggs  
DELD  
OI&E \*3)  
DEisenhut  
TAbernathy  
JBuchanan  
ACRS (16)  
LOlshan  
WButler

Docket No. 50-263

Northern States Power Company  
ATTN: Mr. L. O. Mayer, Manager  
Nuclear Support Services  
414 Nicollet Mall - 8th Floor  
Minneapolis, Minnesota 55401

Gentlemen:

By letter dated February 23, 1977, we approved installation of the Recirculation Pump Trip (RPT), as proposed in your submittal of September 15, 1976, to provide additional protection for postulated Anticipated Transient Without Scram (ATWS) events. We also noted in our letter that our review of the Monticello long-term program is continuing in order to verify compliance with the objectives of WASH-1270 ("Technical Report on Anticipated Transients Without Scram for Water-Cooled Power Reactors", September 1973).

We have identified one potential problem that requires resolution prior to use of the RPT. As noted on page 49 of WASH-1270, a potential problem exists in your intended use of RPT relays of the same manufacturer as those used in your Reactor Protection System (RPS). Use of identical relays does not fulfill the desired system diversity, in that a common mode failure similar to that described in WASH-1270 could render both reactor scram and RPT inoperative. We would consider the use of RPT relays manufactured by a different vendor from those of the RPS to be a satisfactory solution. You should utilize high quality components which are qualified for the expected service conditions, including an Operating Basis Earthquake.

You should inform us of your specific means to accomplish the desired diversity within 60 days of receipt of this letter.

Our review of the generic aspects of the ATWS issue is continuing. We shall inform you promptly if any further requirements which pertain to the Monticello RPT installation are identified.

Sincerely,

Karl R. Goller, Assistant Director  
for Operating Reactors  
Division of Operating Reactors

|          |               |              |            |          |           |           |
|----------|---------------|--------------|------------|----------|-----------|-----------|
| cc:      | see next page | DOR:ORB #2   | DOR:ORB #4 | DOR:PSBY | DOR:AD/OT | DOR:AD/OR |
| OFFICE➤  |               | RPSnaider:ah | LOlshan    | WButler  | DEisenhut | KRGoller  |
| SURNAME➤ |               |              |            |          |           |           |
| DATE➤    |               | 9/23/77      | 9/23/77    | 9/23/77  | 9/ /77    | 9/ /77    |

DISTRIBUTION

Docket  
NRC PDR  
Local PDR  
ORB #2 Reading  
VStello  
KRGoller  
TJCarter  
DKDavis  
RPSnaider  
RMDiggs  
OELD  
OI&E (3)  
DEisenhut  
TBAbernathy  
JRBuchanan

ACRS (16)  
LOlshan  
WButler