



Northern States Power Company

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April 16, 1982

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



PRAIRIE ISLAND NUCLEAR GENERATING PLANT
Docket Nos. 50-282 License Nos. DPR-42
50-306 DPR-60

Information Related to Post-TMI Requirements

In a letter dated March 17, 1982 from Mr Darrell G Eisenhut, Director, Division of Licensing, USNRC (Generic Letter 82-05) we were requested to provide information related to the status of certain NUREG-0737 requirements with implementation dates between July 1, 1981 and March 1, 1982. We were requested to reply in accordance with 10 CFR Part 50, Section 50.54(f) within 30 days.

The requested information is provided on the attached sheets for each of the NUREG-0737 items listed in Enclosure (1) of Mr Eisenhut's letter.

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

L.O. Mayer

L O Mayer, PE
Manager of Nuclear Support Services

LOM/DMM/bd

cc: Regional Administrator-III, USNRC
NRR Project Manager, USNRC
Resident Inspector, USNRC
G Charnoff

Attachments

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UNITED STATES NUCLEAR REGULATORY COMMISSION

NORTHERN STATES POWER COMPANY

PRAIRIE ISLAND NUCLEAR GENERATING PLANT

Packet No. 50-282
50-306

LETTER DATED APRIL 16, 1982
INFORMATION RELATED TO POST-TMI REQUIREMENTS

Northern States Power Company, a Minnesota corporation, by this letter dated April 16, 1982 hereby submits information related to post-TMI requirements in response to a letter dated March 17, 1982 from Mr Darrel G Eisenhut, Director, Division of Licensing, USNRC (Generic Letter 82-05).

This letter contains no restricted or other defense information.

NORTHERN STATES POWER COMPANY

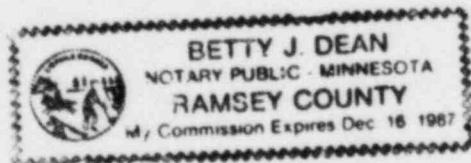
By

L.O. Mayer
L O Mayer

Manager of Nuclear Support Services

On this 16th day of April, 1982 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.

Betty J. Dean



PRAIRIE ISLAND NUCLEAR GENERATING PLANT
STATUS OF NUREG-0737 ITEMS REQUIRING LICENSEE RESPONSE
WITH IMPLEMENTATION DATES BETWEEN JULY 1, 1981 AND MARCH 1, 1982

NUREG-0737 Item No.	<u>I.A.3.1</u>
Applicability	<u>All</u>
NUREG-0737 Schedule	<u>10/1/81</u>
Requirement	<u>Include simulator exams in licensing</u> <u>examinations</u>
Implementation Status	<u>Completed 10/1/81</u>

Remarks

In our letter dated December 30, 1980 exception was taken to portions of Item I.A.3.1. These areas have now been clarified by the Commission and we now believe we are in compliance with this item.

Justification for Proposed Schedule

Demonstration of Need for Proposed Schedule

Description of Compensatory Measures Being Taken in the Interim

PRAIRIE ISLAND NUCLEAR GENERATING PLANT
STATUS OF NUREG-0737 ITEMS REQUIRING LICENSEE RESPONSE
WITH IMPLEMENTATION DATES BETWEEN JULY 1, 1981 AND MARCH 1, 1982

NUREG-0737 Item No.	<u>II.B.2</u>
Applicability	<u>All</u>
NUREG-0737 Schedule	<u>1/1/82</u>
Requirement	<u>Modify facility to provide access to vital</u> <u>areas under accident conditions</u>
Implementation Status	<u>Schedule relief requested</u>

Remarks

This item is considered complete with the following exceptions:

- a. Accessibility of equipment needed for the letdown and degassing function
- b. Qualification of loop B sample valves in post accident sampling system

Schedule relief was requested in our letter dated December 31, 1979 for Unit 2 until the next refueling outage. Schedule relief will also be required for Unit 1 in the case of equipment required for the letdown and degassing function.

Justification for Proposed Schedule

As noted in our December 30, 1980 letter our plant shielding study did not include the chemical and volume control system. Use of the reactor coolant vent system (NUREG-0737 Item II.B.1) was assumed. Control board wiring for the Unit 2 vent system is incomplete. The Unit 1 vent system is complete, however manual isolation valves inside containment were left closed to minimize the potential for inadvertent actuation. We now believe that locking out power to the power operated valves in the system is sufficient to provide this assurance and the manual valves will be reopened during the next Unit 1 refueling outage.

Replacement of the loop B sample valves with fully qualified valves in Unit 2 was not completed as scheduled during the 1981 refueling outage because of equipment delivery problems.

Demonstration of Need for Proposed Schedule

This work should be completed with the affected unit in a cold shutdown condition and is therefore scheduled for the next refueling outage.

Description of Compensatory Measures Being Taken in the Interim

Alternative methods exist to direct letdown flow to the reactor coolant drain tank, pressurizer relief tank, or containment using air operated valves.

In the event of failure of the loop B sample valves, samples may be obtained from the RHR sample line.

PRAIRIE ISLAND NUCLEAR GENERATING PLANT
STATUS OF NUREG-0737 ITEMS REQUIRING LICENSEE RESPONSE
WITH IMPLEMENTATION DATES BETWEEN JULY 1, 1981 AND MARCH 1, 1982

NUREG-0737 Item No.	<u>II.B.3</u>
Applicability	<u>All</u>
NUREG-0737 Schedule	<u>1/1/82</u>
Requirement	<u>Install upgraded post accident</u> <u>sampling capability</u>
Implementation Status	<u>Schedule relief requested</u>

Remarks

The Unit 1 post accident sampling system is completed. The loop B sample valves for Unit 2, however, must still be replaced with fully qualified valves. Schedule relief was requested in our letter dated December 31, 1981. Completion is scheduled for the end of the 1982 refueling outage (summer, 1982).

Justification for Proposed Schedule

These valves must be replaced with the unit in a cold shutdown condition. Replacement could not be done during the last Unit 2 refueling outage because of delivery problems.

Demonstration of Need for Proposed Schedule

Valve replacement should be done with the plant in a cold or refueling shutdown condition.

Description of Compensatory Measures Being Taken in the Interim

In the event of failure of the loop B sample valves, samples may be obtained from the RHR sample line.

PRAIRIE ISLAND NUCLEAR GENERATING PLANT
STATUS OF NUREG-0737 ITEMS REQUIRING LICENSEE RESPONSE
WITH IMPLEMENTATION DATES BETWEEN JULY 1, 1981 AND MARCH 1, 1982

NUREG-0737 Item No.	<u>II.B.4</u>
Applicability	<u>All</u>
NUREG-0737 Schedule	<u>10/1/81</u>
Requirement	<u>Training for mitigating core damage</u>
	<u></u>
	<u></u>
Implementation Status	<u>Initial Training Completed 11/15/81</u> <u>Final Training Completed 3/1/82</u>

Remarks

This training was described in our letter dated August 1, 1980. Schedule relief until December 1, 1981 was requested in our letter dated August 21, 1981.

Justification for Proposed Schedule

Delays were experienced in manning for a sixth shift of operators. This resulted in a delay in achieving the flexibility to conduct the necessary training. In addition, the summer vacation schedule makes training difficult during the summer months.

Demonstration of Need for Proposed Schedule

Initial training was completed on 11/15/81. Training for all required personnel was completed on 3/1/82. The schedule for initial training lapsed 45 days due to delays in manning our sixth shift and the summer vacation period.

Description of Compensatory Measures Being Taken in the Interim

Training was completed for all non-shift personnel (e.g. supervisors, engineers, and shift technical advisors) by 10/1/81. These individuals possessed the required knowledge and would be available to shift personnel for consultation.

PRAIRIE ISLAND NUCLEAR GENERATING PLANT
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WITH IMPLEMENTATION DATES BETWEEN JULY 1, 1981 AND MARCH 1, 1982

NUREG-0737 Item No. II.E.1.2

Applicability PWR

NUREG-0737 Schedule 7/1/81

Requirement Auxiliary feedwater initiation and
flow indicator

Implementation Status Completed - no action required

Remarks

Implementation of this item was described in NSP letter dated December 30, 1980.

Completion of required modifications to satisfy related item II.E.1.1 is scheduled for the next refueling outage of each unit. These modifications are described in the Commission's Safety Evaluation report dated March 22, 1982.

Justification for Proposed Schedule

Demonstration of Need for Proposed Schedule

Description of Compensatory Measures Being Taken in the Interim

PRAIRIE ISLAND NUCLEAR GENERATING PLANT
STATUS OF NUREG-0737 ITEMS REQUIRING LICENSEE RESPONSE
WITH IMPLEMENTATION DATES BETWEEN JULY 1, 1981 AND MARCH 1, 1982

NUREG-0737 Item No.	<u>II.E.4.2(5)</u>
Applicability	<u>All</u>
NUREG-0737 Schedule	<u>7/1/81</u>
Requirement	<u>Part 5 - lower containment</u>
	<u>pressure setpoint to level</u>
	<u>compatible with normal operation</u>
Implementation Status	<u>Completed - no action required</u>

Remarks

Existing setpoint was found adequate. Refer to NSP letters dated December 19, 1980, December 30, 1980, and August 26, 1981.
NRC review of this issue is contained in a letter dated December 2, 1981.

Justification for Proposed Schedule

Demonstration of Need for Proposed Schedule

Description of Compensatory Measures Being Taken in the Interim

PRAIRIE ISLAND NUCLEAR GENERATING PLANT
STATUS OF NUREG-0737 ITEMS REQUIRING LICENSEE RESPONSE
WITH IMPLEMENTATION DATES BETWEEN JULY 1, 1981 AND MARCH 1, 1982

NUREG-0737 Item No.	<u>II.E.4.2(7)</u>
Applicability	<u>All</u>
NUREG-0737 Schedule	<u>7/1/81</u>
Requirement	<u>Part 7 - isolate purge and vent valves</u> <u>on radiation signal</u>
Implementation Status	<u>Completed - no action required</u>

Remarks

A high radiation level in the containment or ventilation system ducting is used as a diverse parameter for automatic containment ventilation isolation. This feature was included in the original plant design. Refer to Enclosure (1) of our letter dated November 20, 1979.

Justification for Proposed Schedule

Demonstration of Need for Proposed Schedule

Description of Compensatory Measures Being Taken in the Interim

NUREG-0737 Item No.	<u>II.F.1(1)</u>
Applicability	<u>All</u>
NUREG-0737 Schedule	<u>1/1/82</u>
Requirement	<u>Install noble gas effluent monitors</u>
	<u></u>
	<u></u>
Implementation Status	<u>Schedule relief requested</u>

High range noble gas monitors have been installed on Unit 1 and Unit 2 shield building ventilation stacks. A description is contained in NSP letter dated December 30, 1980. Completion of the steam relief monitors is now scheduled for April 30, 1982. Schedule relief was requested in our letters dated December 31, 1981 and March 1, 1982.

Flow sensor and amplifier problems have developed and spare parts have been difficult to obtain. Computer problems have also been experienced.

Due to the unavailability of parts and unforeseen installation problems an additional four months are needed to fully implement this design change.

Interim procedures have been written for determining the amount of activity being released in an accident situation. This is accomplished with portable survey meters which view the steam line from a shielded collimator.

PRAIRIE ISLAND NUCLEAR GENERATING PLANT
STATUS OF NUREG-0737 ITEMS REQUIRING LICENSEE RESPONSE
WITH IMPLEMENTATION DATES BETWEEN JULY 1, 1981 AND MARCH 1, 1982

NUREG-0737 Item No.	<u>II.F.1(2)</u>
Applicability	<u>All</u>
NUREG-0737 Schedule	<u>1/1/82</u>
Requirement	<u>Provide capability for effluent</u> <u>monitoring of iodine.</u>
Implementation Status	<u>Completed 9/30/81</u>

Remarks

This requirement has been implemented. Refer to NSP letter dated December 30, 1980 for a description of the sampling and analysis system.

Justification for Proposed Schedule

Demonstration of Need for Proposed Schedule

Description of Compensatory Measures Being Taken in the Interim

PRAIRIE ISLAND NUCLEAR GENERATING PLANT
STATUS OF NUREG-0737 ITEMS REQUIRING LICENSEE RESPONSE
WITH IMPLEMENTATION DATES BETWEEN JULY 1, 1981 AND MARCH 1, 1982

NUREG-0737 Item No. IL.F.1(3)

Applicability All

NUREG-0737 Schedule 1/1/82

Requirement Install in-containment radiation
level monitors

Implementation Status Completed 2/28/82

Remarks

This modification was described in NSP letter dated December 30, 1980.

Schedule relief until March 1, 1982 was requested in our letter dated December 31, 1982.

Justification for Proposed Schedule

Delivery of environmentally qualified cable has been a problem. Coax cable originally purchased did not pass qualification tests. Delivery of qualified cable required an additional two months.

Demonstration of Need for Proposed Schedule

Delivery of qualified cable required an additional two months beyond the NUREG-0737 implementation date.

Description of Compensatory Measures Being Taken in the Interim

The installation is now complete.

PRAIRIE ISLAND NUCLEAR GENERATING PLANT
STATUS OF NUREG-0737 ITEMS REQUIRING LICENSEE RESPONSE
WITH IMPLEMENTATION DATES BETWEEN JULY 1, 1981 AND MARCH 1, 1982

NUREG-0737 Item No.	<u>II.F.1(4)</u>
Applicability	<u>All</u>
NUREG-0737 Schedule	<u>1/1/82</u>
Requirement	<u>Provide continuous indication of</u> <u>containment pressure</u>
Implementation Status	<u>Completed 1/15/82</u>

Remarks

This modification was described in NSP letter dated December 31, 1981.

Schedule relief until February 1, 1982 was requested in separate correspondence dated December 31, 1981.

Justification for Proposed Schedule

The modification was completed on schedule in both units with the exception of control board wiring and installation of qualified recorders. Recorders could not be delivered and wired in time to meet the NUREG-0737 implementation date.

Demonstration of Need for Proposed Schedule

An additional thirty days were necessary following receipt of the recorders to complete this work.

Description of Compensatory Measures Being Taken in the Interim

The installation is now complete.

PRAIRIE ISLAND NUCLEAR GENERATING PLANT
STATUS OF NUREG-0737 ITEMS REQUIRING LICENSEE RESPONSE
WITH IMPLEMENTATION DATES BETWEEN JULY 1, 1981 AND MARCH 1, 1982

NUREG-0737 Item No.	<u>II.F.1(5)</u>
Applicability	<u>All</u>
NUREG-0737 Schedule	<u>1/1/82</u>
Requirement	<u>Provide continuous indication of</u> <u>containment water level</u>
Implementation Status	<u>Completed 12/30/81</u>

Remarks

This modification was described in NSP letter dated December 31, 1981.

Justification for Proposed Schedule

Demonstration of Need for Proposed Schedule

Description of Compensatory Measures Being Taken in the Interim

PRAIRIE ISLAND NUCLEAR GENERATING PLANT
STATUS OF NUREG-0737 ITEMS REQUIRING LICENSEE RESPONSE
WITH IMPLEMENTATION DATES BETWEEN JULY 1, 1981 AND MARCH 1, 1982

NUREG-0737 Item No. II.F.1(6)
Applicability All
NUREG-0737 Schedule 1/1/82
Requirement Provide continuous indication of hydrogen
concentration in containment

Implementation Status Completed 12/30/81

Remarks

This modification was described in our letter dated December 31, 1981.

Justification for Proposed Schedule

Demonstration of Need for Proposed Schedule

Description of Compensatory Measures Being Taken in the Interim

PRAIRIE ISLAND NUCLEAR GENERATING PLANT
STATUS OF NUREG-0737 ITEMS REQUIRING LICENSEE RESPONSE
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NUREG-0737 Item No.	<u>II.K.2.10</u>
Applicability	<u>B & W</u>
NUREG-0737 Schedule	<u>7/1/81</u>
Requirement	<u>Install anticipatory reactor trips</u>
	<u></u>
	<u></u>
Implementation Status	<u>Not Applicable</u>
Remarks	<u></u>

Justification for Proposed Schedule

Demonstration of Need for Proposed Schedule

Description of Compensatory Measures Being Taken in the Interim

PRAIRIE ISLAND NUCLEAR GENERATING PLANT
STATUS OF NUREG-0737 ITEMS REQUIRING LICENSEE RESPONSE
WITH IMPLEMENTATION DATES BETWEEN JULY 1, 1981 AND MARCH 1, 1982

NUREG-0737 Item No.	<u>II.K.3.15</u>
Applicability	<u>BWR</u>
NUREG-0737 Schedule	<u>7/1/81</u>
Requirement	<u>Modify pipe break detection logic</u> <u>to prevent inadvertent isolation</u>
Implementation Status	<u>Not Applicable</u>
Remarks	<u></u>

Justification for Proposed Schedule

Demonstration of Need for Proposed Schedule

Description of Compensatory Measures Being Taken in the Interim

PRAIRIE ISLAND NUCLEAR GENERATING PLANT
STATUS OF NUREG-0737 ITEMS REQUIRING LICENSEE RESPONSE
WITH IMPLEMENTATION DATES BETWEEN JULY 1, 1981 AND MARCH 1, 1982

NUREG-0737 Item No. II.K.3.19

Applicability BWR (non jet pump)

NUREG-0737 Schedule 7/1/81

Requirement Install interlocks on recirculation
pump loops

Implementation Status Not Applicable

Remarks _____

Justification for Proposed Schedule

Demonstration of Need for Proposed Schedule

Description of Compensatory Measures Being Taken in the Interim

PRAIRIE ISLAND NUCLEAR GENERATING PLANT
STATUS OF NUREG-0737 ITEMS REQUIRING LICENSEE RESPONSE
WITH IMPLEMENTATION DATES BETWEEN JULY 1, 1981 AND MARCH 1, 1982

NUREG-0737 Item No.	<u>II.K.3.22</u>
Applicability	<u>BWR</u>
NUREG-0737 Schedule	<u>1/1/82</u>
Requirement	<u>Modify design of RCIC suction to provide</u> <u>automatic transfer to torus</u>
Implementation Status	<u>Not Applicable</u>

Remarks

Justification for Proposed Schedule

Demonstration of Need for Proposed Schedule

Description of Compensatory Measures Being Taken in the Interim

PRAIRIE ISLAND NUCLEAR GENERATING PLANT
STATUS OF NUREG-0737 ITEMS REQUIRING LICENSEE RESPONSE
WITH IMPLEMENTATION DATES BETWEEN JULY 1, 1981 AND MARCH 1, 1982

NUREG-0737 Item No.	<u>II.K.3.24</u>
Applicability	<u>BWR</u>
NUREG-0737 Schedule	<u>1/1/82</u>
Requirement	<u>Confirm the adequacy of space cooling for HPCI</u> <u>and RCIC</u>
Implementation Status	<u>Not Applicable</u>
Remarks	<u></u>

Justification for Proposed Schedule

Demonstration of Need for Proposed Schedule

Description of Compensatory Measures Being Taken in the Interim

PRAIRIE ISLAND NUCLEAR GENERATING PLANT
STATUS OF NUREG-0737 ITEMS REQUIRING LICENSEE RESPONSE
WITH IMPLEMENTATION DATES BETWEEN JULY 1, 1981 AND MARCH 1, 1982

NUREG-0737 Item No.	<u>II.K.3.27</u>
Applicability	<u>BWR</u>
NUREG-0737 Schedule	<u>7/1/81</u>
Requirement	<u>Provide common reference level for</u> <u>vessel level instrumentation</u>
Implementation Status	<u>Not Applicable</u>
Remarks	<u></u>

Justification for Proposed Schedule

Demonstration of Need for Proposed Schedule

Description of Compensatory Measures Being Taken in the Interim