



Northern States Power Company

414 Nicollet Mall  
Minneapolis, Minnesota 55401-1927  
Telephone (612) 330-5500

December 28, 1990

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

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

Request for Extension for Completion of  
Control Room Modifications Relating to the  
Requirements of NUREG-0737 Supplement No. 1

We are writing to request an extension to our commitment to complete all modifications to the control room, per the requirements of NUREG-0737, by December 31, 1990.

On November 20, 1986, the NRC issued a Safety Evaluation Report (SER) providing the results of the staff's review of our implementation of the requirements of Supplement 1 to NUREG-0737. The SER concluded satisfactory implementation contingent upon our commitments to:

1. Evaluate 128 Human Engineering Discrepancies that relate to control board standards as to being safety or non-safety related.
2. Complete all modifications to the control room by December 31, 1990.
3. Have the Control Board Standard dated March 24, 1986 as a living and controlled document for use as a guide for future control room modifications.
4. Maintain on file the NUREG-0700 "Guidelines References" for Human Engineering Discrepancies appearing in Section D of the Detailed Control Room Design Review Summary Report.

All items have been completed with the exception of part of item 2 above.

The scope of control room modifications (item 2 above) included:

1. Modifications to control panels A, B, C, D, E and F.
2. Field equipment changes in support of A panel modifications.
3. Balance of Plant (BOP) annunciator window relocation.
4. Nuclear Steam Supply System (NSSS) annunciator window relocation.

This work has proceeded as follows with significant construction activities being performed during each refueling outage.

<u>Modification</u>	<u>Construction Dates</u>	
	<u>Unit 1</u>	<u>Unit 2</u>
Control Room C Panel	January 1985	September 1985
Control Room D Panel	April 1987	November 1986
Control Room B Panel	May 1987	January 1988
Control Room E Panel	September 1988	April 1989
NSSS Annunciator relocation	September 1988	January 1988
BOP Annunciator relocation	(Scheduled 1991)	September 1990
Control Room A Panel	Schedule to be provided by July 1991	
Control Room F Panel	Schedule to be provided by July 1991	

The original schedule requiring all modifications to be complete by the end of 1990 was based on the assumption that no other major changes would be required in the control room. Since that time other influences required NSP to delay completion of the modifications to the A and F Panels and the Balance of Plant annunciator window relocation pending resolution of several engineering issues which impacted the project.

The issues investigated included:

1. In March 1986, we received the Proposed Rule on Station Blackout. We elected to install two additional safeguards diesel generators to meet this initiative. This decision required a complete re-study of the control room instrumentation and control needs to support the extensive new diesel generator controls. Because of the extent of the impending changes to the control room, it was appropriate at this time to also evaluate the adequacy of the existing control room instrumentation for the long term. A study was undertaken to determine whether the future control room configuration should incorporate new microprocessor control or retain the existing hardware control. In summary, had it not been for the Station Blackout Rule, all human factors modifications (with the exception of the Unit 1 BOP annunciator window relocation) would have been completed by December 31, 1990.
2. We decided to purchase a state-of-the-art microprocessor-based BOP annunciator system. This decision was made in part because the manufacturer of the original system curtailed support of the system and spare parts became difficult to get. The BOP

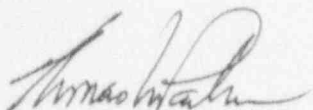
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annunciator relocation has been completed on Unit 2 and the Unit 1 BOP annunciator relocation will be completed during the 1991 Unit 1 refueling outage.

Based on the impact of the issues discussed in this letter, we will not complete all the modifications by December 31, 1990. We will provide, by July 31, 1991, a complete schedule detailing the completion of all remaining commitments.

Please contact us if you have any questions relating to our request.



Thomas M Parker  
Manager  
Nuclear Support Services

cc: Regional Administrator - III NRC  
NRR Project Manager, NRC  
Resident Inspector, NRC  
J E Silberg