



Northern States Power Company

March 14, 1985

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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

Revision 1 to the License Amendment Request dated  
December 21, 1984, Removal of Restriction on Use of  
266 Existing Spent Fuel Storage Spaces

Reference: (a) Letter from D M Musolf to the Director, Office of  
Nuclear Reactor Regulation dated December 21, 1984  
entitled "License Amendment Request dated December  
21, 1984, Removal of restriction on Use of 266  
Existing Spent Fuel Storage Spaces".

Attached are three originals and 37 conformed copies of Revision 1 to the  
request for a change of Technical Specifications, Appendix A, of the  
Operating Licenses DPR-42 and DPR-60 which was submitted under Reference  
(a). A check in the amount of \$150.00 was submitted in accordance with  
10 CFR Part 170 as the required application fee as part of Reference (a).

This revision will require fuel being stored in the small pool (Pool No.  
1) to be discharged from the reactor a minimum of 5 years when the cask  
is being inserted or withdrawn from the pool. This change is being made  
in response to a suggestion from the State of Minnesota to maximize the  
decay time of the fuel discharged from reactor to lessen the fission gas  
release in the unlikely event of a cask drop onto the spent fuel and to  
minimize the fuel movements required when loading the cask.

Also included under this revision is wording in the basis which details  
the need for the requirement to have no more than 45 recently discharged  
assemblies located in the small pool. This limit was established in the  
License Amendment issued on May 13, 1981 concerning the high density  
spent fuel rack modifications. This wording is being added so that the  
basis for each of the time limitations dealing with spent fuel discharged  
from the reactor to the small pool is understood for future reference.

Exhibit A contains Revision 1 of the Exhibit A contained in Reference (a).  
Exhibit B contains Revision 1 of the Exhibit B contained in Reference (a).  
Exhibit A and B of this letter should replace, in their entirety, Exhibit  
A and B of reference (a). Exhibit C of Reference (a) is not affected by  
this change and is still applicable in its entirety.

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The changes in Revision 1 are summarized below:

Exhibit A

- 1) On page 1 under "Fuel Handling Operations", proposed changes, line 13, change "... for at least 50 days" to "... for at least 5 years".
- 2) On page 2 under "Significant Hazards Evaluation", the second paragraph, item 2, line 2, change "... a minimum of 50 days to be stored in Pool No. 1, the radiation dose resulting from fission products release will not exceed 25% ..." to "a minimum of 5 years to be stored in Pool No. 1, the radiation dose resulting from fission products release will be minimized and not exceed 25% ...".

Exhibit B

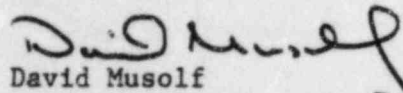
- 1) On TS.3.8-2, Item B.1.d change "... for at least 50 days." to "... for at least 5 years".
- 2) On TS.3.8-4, under "Basis" the fifth paragraph, line 2, change "... minimum of 50 days. The 50 days will allow sufficient decay of the fission products such that their release would result in offsite doses less than 25% of the 10 CFR Part 100 guidelines. The cask ..." to "... a minimum of 5 years. Supporting analysis indicated that fuel stored in the pool for a period as short as 50 days would allow sufficient decay of the fission products such that their release would result in off-site doses less than 25% of the 10 CFR Part 100 guidelines. The five year decay period was selected in following the general principle that spent fuel with the longest decay time would result in the least off-site doses in the event of an accident, while providing the plant operational flexibility. The Cask ...".
- 3) On TS.3.8-5, under "Basis" after the first paragraph, insert a new paragraph, "The number of recently discharged assemblies in Pool No. 1 has been limited to 45 to provide assurance that in the event of loss of pool cooling capability, at least eight hours are available under worst case conditions to make repairs until the onset of boiling."
- 4) On TS.5.6-2, under "C. Fuel Handling", the fourth paragraph, after the words "... criticality considerations." in line 11, insert the sentence, "While 50 days was determined adequate, a minimum decay

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period of 5 years has been incorporated into these technical specifications to provide additional margin in meeting the criteria specified in NUREG-0612 for fission gas releases, while not restricting the plant's operational flexibility."

Please contact us if you have any questions related to this request.

  
David Musolf  
Manager-Nuclear Support Services

DMM/TAP/dab

c: Regional Administrator-III, NRC  
NRR Project Manager, NRC  
Resident Inspector, NRC  
G Charnoff  
MPCA  
Attn: J W Ferman

Attachments