

~~WITHHOLD FROM PUBLIC DISCLOSURE UNDER 10 CFR 2.390~~

May 30, 2006

L-MT-06-044
10 CFR 50.90

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

Monticello Nuclear Generating Plant
Docket 50-263
License No. DPR-22

Supplement to a License Amendment Request for Contingent Installation of a
Temporary Fuel Storage Rack in the Spent Fuel Pool (TAC No. MD0302)

Reference: 1) NMC letter to NRC, "License Amendment Request for Contingent
Installation of a Temporary Spent Fuel Storage Rack,"
(L-MT-06-013), dated March 7, 2006.

On March 7, 2006, the Nuclear Management Company, LLC (NMC) submitted a License Amendment Request (LAR) (Reference 1) to revise the licensing basis to allow temporary installation of a Programmed and Remote (PaR) Systems Corporation 8 x 8 (64 cell) high-density fuel storage rack in the spent fuel pool to maintain full core off-load (FCOL) capability. Approval of this LAR will allow a temporary increase in the licensed capacity of the spent fuel pool at the Monticello Nuclear Generating Plant (MNGP) from 2237 to 2301 fuel assemblies in the event a FCOL is required.

The NMC performed a preliminary assessment of the PaR fuel rack criticality design information and made a commitment in Reference 1 to provide a criticality evaluation at a later date. Enclosure 1 provides this evaluation and includes the technical analysis and associated no significant hazards and environmental considerations. Enclosure 2 provides a non-proprietary Nuclear Associates International Corporation criticality analysis for the PaR high-density fuel storage rack design. Enclosure 3 provides a non-proprietary copy of a later Holtec International Corporation criticality analysis for more current fuel designs with the General Electric (GE) Corporation proprietary fuel design information redacted. Enclosure 4 provides a proprietary version of the Holtec criticality analysis (and associated GE affidavit). The NMC requests that the proprietary Holtec criticality analysis report be withheld from public disclosure pursuant to 10 CFR 2.390.

A copy of this submittal, including the no significant hazards consideration determination, is being forwarded to our appointed state official pursuant to 10 CFR 50.91(b)(1).

In Reference 1, the following commitment was made:


- NMC will provide an MNGP specific criticality evaluation for the additional temporary PaR 8 x 8 high-density spent fuel storage rack by May 31, 2006.

This letter provides the criticality evaluation for the PaR 8 x 8 high-density fuel storage rack which completes the above commitment.

This letter makes no new commitments or changes to any other existing commitments.

I declare under penalty of perjury that the foregoing is true and correct.

Executed on May 30, 2006.



John T. Conway
Site Vice President, Monticello Nuclear Generating Plant
Nuclear Management Company, LLC

Enclosures: (4)

cc: Administrator, Region III, USNRC (w/o Enclosure 4)
Project Manager, Monticello, USNRC
Resident Inspector, Monticello, USNRC (w/o Enclosure 4)
Minnesota Department of Commerce (w/o Enclosure 4)

LICENSEE'S EVALUATION OF PROPOSED CHANGE

<u>Section No.</u>	<u>Title</u>	<u>Page No.</u>
1.0	SUMMARY	1
2.0	LICENSING BASIS	2
3.0	PROPOSED CHANGES	3
4.0	DESCRIPTION OF THE TEMPORARY PaR FUEL STORAGE RACK	4
5.0	TECHNICAL ANALYSIS	5
5.1	Background	5
5.2	Summary	5
5.3	Analytical Criteria and Assumptions	6
5.4	Manufacturing Tolerances and Uncertainties	7
5.5	Computer Codes	8
5.6	Effects, Events and Accidents	10
5.7	Analytical Results	11
6.0	REGULATORY SAFETY ANALYSIS	13
6.1	No Significant Hazards Consideration	14
6.2	Applicable Regulatory Requirements / Criteria	16
7.0	ENVIRONMENTAL CONSIDERATION	17
8.0	REFERENCES	20