

December 22, 2005

LICENSEE: Nuclear Management Company, LLC
FACILITY: Palisades Nuclear Plant
SUBJECT: SUMMARY OF TELECONFERENCE CONDUCTED ON NOVEMBER 10, 2005,
WITH NUCLEAR MANAGEMENT COMPANY, LLC (NMC) TO DISCUSS THE
SEVERE ACCIDENT MITIGATION ALTERNATIVES (SAMA) REQUEST FOR
ADDITIONAL INFORMATION (RAI) FOR PALISADES NUCLEAR PLANT
(TAC NO. MC6434)

The U.S. Nuclear Regulatory Commission (NRC) staff has reviewed the severe accident mitigation alternatives (SAMA) analysis submitted by the Nuclear Management Company, LLC (NMC) for the Palisades Nuclear Plant (Palisades) and has identified areas where additional information is needed to complete its review. By letter dated August 24, 2005, the NRC sent NMC an RAI regarding its SAMA analysis. NMC responded by letter dated October 21, 2005.

On November 10, 2005, the NRC staff and its contractor from Pacific Northwest National Laboratories (PNNL) held a teleconference with representatives from NMC to discuss the licensee's October 21, 2005, SAMA RAI responses. The specific purpose of the call was to discuss RAI items 3.c.i, 3.c.iii, 7.d, 7.e-iii, 7.e-viii, 7.e-iv, and 7.e-ix. Enclosure 1 contains a listing of teleconference participants. Enclosure 2 contains the NRC staff's additional RAI generated during the teleconference. The teleconference participants reached a mutual understanding of the RAIs, and additional responses were provided from NMC by letter dated November 18, 2005.

/RA/

Bo M. Pham, Project Manager
Environmental Branch B
Division of License Renewal
Office of Nuclear Reactor Regulation

Docket No. 50-255

Enclosures: As stated

cc w/enclosures: See next page

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Note to: Licensee: Nuclear Management Company, LLC, from Bo M. Pham, Dated: December 22, 2005

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Adams Accession Number: **ML053570348**

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NOVEMBER 10, 2005

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**Request for Additional Information Regarding the Analysis of
Severe Accident Mitigation Alternatives (SAMAs)
for the Palisades Nuclear Plant**

3.c.i - NMC response is that the importance list did not disclose any instances where the level of redundancy for actuation logic was an issue. Why was this the case? Did the NMC model evaluate this redundancy and determine it wasn't important or does the NMC model not evaluate this redundancy?

3.c.iii - NMC response is that at time of CST depletion it is possible to align the power to this equipment to a safety related power supply that would be supplied by a diesel generator. This response suggests that this SAMA is applicable to Palisades. Does this mean that NMC will investigate the benefits of developing a procedure to do this and, if beneficial, add it to the Palisades Severe Accident Management Guidelines?

7.d - NMC response provided an estimate of the cost of a new dedicated cooling loop to serve as the primary source of EDG cooling. The response is confusing because SAMA 18 already evaluated the cost of a dedicated pump and line for EDG cooling. How is the RAI response cost estimate different than the SAMA 18 estimate? Is the RAI response cost estimate for a permanent or temporary line? It is still not clear whether it is feasible to install an additional line or temporary connection directly from the FPS (by-passing the SW lines).

7.e-iii and 7.e-viii - Clarify what is meant in the last sentence of the responses to these RAIs (i.e., that the respective failures did not meet the criteria for SAMA consideration).

7.e-iv - Is it accurate to characterize NMC's response as a commitment to further evaluate the SAMA (flashing the EDG field) as an additional, potentially-cost-beneficial SAMA?

7.e-ix - NMC response provided a cost estimate to replace one of the containment sump AOVs with an MOV. This response suggests that the SAMA is applicable to Palisades. Based on the cost estimate, is the SAMA cost beneficial? (This can't be determined from the response because a risk reduction and benefit estimate was not provided).

Palisades Nuclear Plant

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