

May 21, 2004

Mr. Mano K. Nazar
American Electric Power
Senior Vice President and Chief Nuclear Officer
Indiana Michigan Power Company
Nuclear Generation Group
500 Circle Drive
Buchanan, MI 49107

SUBJECT: DONALD C. COOK NUCLEAR PLANT, UNIT 1 - TRANSITION TO
FRAMATOME ANP, INCORPORATED FUEL (TAC. NOS. MC2715 AND
MC2716)

Dear Mr. Nazar:

The purpose of this letter is to advise you of the status of two topical reports that you need to support your forthcoming license amendment request regarding your transition to Framatome fuel.

By letter dated April 6, 2004 (ADAMS Accession No. ML040990555), you applied for amendments and exemptions to the Donald C. Cook Nuclear Plant (CNP) Units 1 and 2, Operating License Nos. DPR-58 and DPR-74 to use Framatome ANP, Inc. (FANP) fuel. The proposed change would revise Technical Specification (TS) design features for fuel assemblies and new fuel storage criticality limitations. In addition, you requested Nuclear Regulatory Commission (NRC) approval of the criticality analysis methodology supporting the spent fuel storage rack and new fuel storage rack in accordance with Title 10 of the *Code of Federal Regulations* (10 CFR) Section 50.59(c)(2)(viii). You also requested exemptions to 10 CFR 50.44, 10 CFR 50.46, and 10 CFR Part 50 Appendix K to use M5 advanced alloy cladding as well as an exemption to 10 CFR 70.24 regarding criticality monitors.

In the letter dated April 6, 2004, you stated, "An additional license amendment request is planned specific to Unit 1 for late June 2004, to request TS changes related to the use of FANP methodology at CNP and to submit the Unit 1 Realistic Large-Break loss-of-coolant accident (LOCA) and a Unit 1 Non-LOCA analysis performed using FANP methodology."

To support your forthcoming license amendment request, you are relying on the NRC staff to complete its review of the following reports: (1) Topical Report BAW-10240(P), "Incorporation of M5 Properties in Framatome ANP Approved Methods," and (2) Topical Report EMF-2310(P), Revision 1, "[Standard Review Plan] SRP, Chapter 15 Non-LOCA Methodology for Pressurized Water Reactors."

The NRC staff has completed its review of Topical Report BAW-10240(P), "Incorporation of M5 Properties in Framatome ANP Approved Methods." By letter dated May 5, 2004 (ADAMS Accession No. ML041260560), the final safety evaluation was transmitted to FANP.

M. Nazar

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The NRC staff sent FANP the draft safety evaluation for Topical Report EMF-2310(P), Revision 1, "SRP, Chapter 15 Non-LOCA Methodology for Pressurized Water Reactors," by letter dated March 17, 2004 (ADAMS Accession No. ML040780719). By letter dated April 1, 2004 (ADAMS Accession No. ML040970303), FANP made comments regarding the EMF-2310(P), Revision 1, draft safety evaluation. The NRC staff expects to issue the final safety evaluation for Topical Report EMF-2310(P), Revision 1 by the end of June 2004.

If you have any questions, please contact me at (301) 415-1446.

Sincerely,

/RA/

John G. Lamb, Project Manager, Section 1
Project Directorate III
Division of Licensing Project Management
Office of Nuclear Reactor Regulation

Docket Nos. 50-315 and 50-316

cc: See next page

M. Nazar

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May 21, 2004

The NRC staff sent FANP the draft safety evaluation for Topical Report EMF-2310(P), Revision 1, "SRP, Chapter 15 Non-LOCA Methodology for Pressurized Water Reactors," by letter dated March 17, 2004 (ADAMS Accession No. ML040780719). By letter dated April 1, 2004 (ADAMS Accession No. ML040970303), FANP made comments regarding the EMF-2310(P), Revision 1, draft safety evaluation. The NRC staff expects to issue the final safety evaluation for Topical Report EMF-2310(P), Revision 1 by the end of June 2004.

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John G. Lamb, Project Manager, Section 1
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Division of Licensing Project Management
Office of Nuclear Reactor Regulation

Docket Nos. 50-315 and 50-316

cc: See next page

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