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HUNTER,R.S. Indiana & Michigan Electric Co.
RECIP.NAME RECIPIENT AFFILIATION
DENTON,H.R. Office of Nuclear Reactor Regulation, Director

SUBJECT: Forwards description of post-irradiation fuel surveillance program implemented for Exxon 17x17 fuel.

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December 22, 1982
AEP:NRC:0637H

Donald C. Cook Nuclear Plant, Unit No. 2
Docket No. 50-316
License No. DPR-74
POST-IRRADIATION EXAMINATION OF EXXON NUCLEAR COMPANY (ENC) FUEL

Mr. Harold R. Denton, Director
Office of Nuclear Reactor Regulation
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Dear Mr. Denton:

The Attachment to this letter provides a description of the Post-Irradiation Fuel Surveillance Program which will be implemented in Unit No. 2 of the Donald C. Cook Nuclear Plant for ENC 17x17 fuel. This description has been provided at the request of your Staff and supports operation of Unit No. 2 with fuel supplied by ENC.

This document has been prepared following corporate procedures which incorporate a reasonable set of controls to ensure its accuracy and completeness prior to signature by the undersigned.

Very truly yours,

R. S. Hunter
Vice President

/os

cc: John E. Dolan - Columbus
M. P. Alexich
R. W. Jurgensen
W. G. Smith, Jr. - Bridgman
G. Charnoff
R. C. Callen
NRC Resident Inspector at Cook Plant - Bridgman

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Attachment to AEP:NRC:0637H

POST-IRRADIATION FUEL SURVEILLANCE PROGRAM

The first batch of 17 x 17 Exxon fuel being utilized in Unit #2 of the D. C. Cook Nuclear Plant will be examined after its first cycle of operation. The examination currently planned will utilize both binocular and a more detailed underwater television or periscope inspection. The binocular inspection will be performed on 50% of the Exxon 17 x 17 fuel as that fuel is being transferred to the spent fuel pit. Our experience using binoculars by individuals located on the operating deck has been good. Water clarity has been satisfactory and indeed, we did identify a torn grid strap during an earlier refueling on Unit #1 using binoculars.

An underwater television or periscope visual examination will be performed with either video recording and/or photography to document any unusual conditions. This examination will be performed on each side of 4 Exxon 17 x 17 fuel assemblies from this first batch at the end of their first cycle of operation.

During subsequent refuelings we plan to visually inspect those fuel assemblies, from the first batch of Exxon 17 x 17 fuel, which are scheduled to be permanently discharged.

In our judgment, provided there are no indications of fuel failure during operation, the above surveillance program is sufficient. Should there be indications of fuel failure during operation or should the above surveillance program result in identifying any unusual finding, additional surveillance will be performed.