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 FACIL: 50-316 Donald C. Cook Nuclear Power Plant, Unit 2, Indiana & 05000316  
 AUTH# NAME: AUTHOR AFFILIATION:  
 HUNTER, RLS: Indiana & Michigan Electric Co.  
 RECIP# NAME: RECIPIENT AFFILIATION:  
 DENTON, HLR: Office of Nuclear Reactor Regulation, Director

SUBJECT: Advises that facility will be reloaded in Cycle 4 w/fuel supplied w/Exxon Nuclear Co. & increase in reactor thermal power level will be requested. Listed licensing repts will be submitted in support of application for operation.

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# INDIANA & MICHIGAN ELECTRIC COMPANY

P. O. BOX 18  
BOWLING GREEN STATION  
NEW YORK, N. Y. 10004

November 16, 1981  
AEP:NRC:0637

Donald C. Cook Nuclear Plant Unit No. 2  
Docket No. 50-316  
License No. DPR-74  
UNIT NO. 2 CYCLE 4 RELOAD LICENSING

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

Dear Mr. Denton:

This is to advise you that Indiana & Michigan Electric Company (IMECo) will be reloading the Donald C. Cook Nuclear Plant Unit No. 2 in Cycle 4 with fuel supplied by Exxon Nuclear Company (ENC). Cycle 4 is scheduled to start in November of 1982. In addition, we will also be applying for an increase in the reactor thermal power level of Unit No. 2 from its present limit of 3391 MWt to 3425 MWt. This power up-rating request is to become effective for Cycle 4 start-up.

The following major licensing reports will be submitted to the NRC by IMECo and ENC in support of our application for operation with the ENC-supplied fuel and the power increase.

<u>Action</u>	<u>Date</u>	<u>Submitting Organization</u>
Justification for increased fuel exposure (Response to NRC letter to ENC dated August 17, 1981).	Jan. 1982	ENC
Modified ECCS Evaluation Model (ENC initiated action to modify its ECCS evaluation model in mid-1981; ENC letter to NRC dated September 21, 1981).	Jan. 1982	ENC

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THE  
FEDERAL BUREAU OF INVESTIGATION  
UNITED STATES DEPARTMENT OF JUSTICE  
WASHINGTON, D. C. 20535

<u>Action</u>	<u>Date</u>	<u>Submitting Organization</u>
Modified DNBR correlation for PWR's which incorporates 17 x 17 fuel and appropriate methodology for applying the model.	February 1982	ENC
Mechanical and thermal-hydraulic description of 17 x 17 fuel design.	March 1982	ENC
Application for D. C. Cook Unit No. 2 operation with ENC fuel at a reactor thermal power level of 3425 MWt.	May 1982	IMECo.

The documentation identified above will be responsive to the NRC guidance specified in Standard Review Plan Sections 4.2 (Fuel System Design), 4.3 (Neutronic Design), 4.4 (Thermal and Hydraulic Design, and appropriate portions of Section 15 (Accident Analysis). Approval of Cycle 4 operation is needed by October of 1982 prior to the start of the fuel shuffle following Cycle 3 completion.

We would like to request to meet with appropriate members of your Staff on December 8, 1981 to discuss these matters in more detail. We need to (1) assure that the content of our planned documentation is sufficient to meet licensing requirements, and (2) establish a firm schedule which will assure the timely fulfillment of our objectives for Cycle 4 of Unit No. 2. Please advise us of the acceptability of this meeting date. We will provide you with a proposed agenda for the December 8 meeting in the near future.

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

Very truly yours,

  
R. S. Hunter  
Vice President

RSH/emc

cc: John E. Dolan - Columbus  
R. W. Jurgensen  
D. V. Shaller - Bridgman  
R. C. Callen  
G. Charnoff  
Joe Williams, Jr.  
NRC Region III Resident Inspector - Bridgman