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 FACIL: 50-315 Donald C. Cook Nuclear Power Plant, Unit 1, Indiana & 05000315  
 AUTH. NAME AUTHOR AFFILIATION  
 HUNTER, R.S. Indiana & Michigan Electric Co.  
 RECIP. NAME RECIPIENT AFFILIATION  
 DENTON, H.R. Office of Nuclear Reactor Regulation, Director

SUBJECT: Advises that util will reload w/Westinghouse 15x15 optimized fuel assemblies during Cycle 8 scheduled for 830831. Meeting w/NRC requested on 821103 to clearly define licensing review schedule.

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*Handwritten signature/initials*

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# INDIANA & MICHIGAN ELECTRIC COMPANY

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NEW YORK, N. Y. 10004

October 18, 1982  
AEP:NRC:0745

Donald C. Cook Nuclear Plant, Unit No. 1  
Docket No. 50-315  
License No. DPR-58  
Unit No. 1 Cycle 8 Reload Licensing - Letter of Notification

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

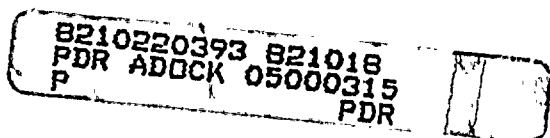
Dear Mr. Denton:

This is to advise you that Indiana & Michigan Electric Company will reload the Donald C. Cook Nuclear Plant Unit No. 1, Cycle 8 with Westinghouse 15 X 15 Optimized Fuel Assemblies (OFAs). Cycle 8 criticality is currently scheduled for August 31, 1983.

The Westinghouse OFA design features and methodology have been generically approved by the NRC via the review of Westinghouse Topical Report, WCAP 9500, "Reference Core Report - 17 X 17 Optimized Fuel Assembly". We expect to complete our review of the Westinghouse Plant specific analyses justifying the transition from the current Exxon fueled core to a Westinghouse 15 X 15 OFA core for D. C. Cook Unit 1 in early 1983. Upon completion of this review, we will submit the appropriate reload licensing documentation.

Although we currently intend to operate D. C. Cook Unit 1, Cycle 8 at the present licensed maximum level of 3250 MWt, the core safety analyses (with the exception of large break LOCA) will be performed at an uprated power level of 3425 MWt. This conservative design basis will provide early identification of those safety/accident analysis limits and associated Technical Specifications for a potential uprating. This also provides your Staff ample review opportunity prior to our intended future application for operation at an uprated power level.

The licensing applications and supporting analyses will utilize the approved Westinghouse Improved Thermal Design Procedure (ITDP) and the WRB-1 DNBR correlation for the first time on Cook Unit 1. These were previously employed to license Cook Unit 2 operations. Other features



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1. The first part of the report is devoted to a description of the experimental setup and the results of the measurements. The second part is devoted to a discussion of the results and a comparison with the theoretical predictions.

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being introduced with the Cycle 8 reload include the Westinghouse Wet Annular Burnable Absorber (WABA) and a revision to the Westinghouse fuel thermal safety model (PAD Code) applied to LOCA. Both of these design features were discussed with members of the Nuclear Regulatory Commission Core Performance Branch in meetings with Westinghouse on August 16th and 17th. Westinghouse is submitting generic topical reports on these subjects and is committed to support the NRC's review consistent with our Cycle 8 reload schedule startup date of August 31, 1983.

In order to clearly define the licensing review and schedule requirements associated with the Cook Unit 1, Cycle 8 transition reload, we request a meeting with appropriate NRC personnel on November 3, 1982. Westinghouse personnel would also participate at this meeting. A proposed agenda for the meeting is attached. Please advise us of the acceptability of our proposed meeting date and agenda topics.

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

Attachment.

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



PROPOSED AGENDA  
NRC/AEP/WESTINGHOUSE - D. C. COOK UNIT 1 MEETING

I. Introduction

- Background/Purpose of Meeting
- Cook Unit 1 Transition Plans

II. Licensing Actions Planned

- Submittal for Cycle 8 Transition at 3250 MWt
- Core Design
- Accident Analyses/Technical Specification Modifications
- Fuel Storage Considerations

III. Design Features of Cycle 8 Core Design

- 15 X 15 OFA
- Wet Annular Burnable Poison
- Westinghouse Revised Fuel Thermal Safety Model
- Improved Thermal Design Procedure (ITDP)
- DNB Correlations

IV. NRC/AEP/Westinghouse Open Discussion

- Conclusion/Actions