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 AUTH. NAME: AUTHOR AFFILIATION
 SHALLER, D.V. Indiana & Michigan Electric Co.
 RECIP. NAME: RECIPIENT AFFILIATION
 KEPPLER, J.G. Region 3, Chicago, Office of the Director

SUBJECT: RO: during zero power physics testing & all rods withdrawn,
 moderator temp coefficient as function of boron
 concentration was conservative. Rods to be repositioned so
 boron concentration is less than 1480 ppm.

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THE
OFFICE OF THE
ATTORNEY GENERAL
STATE OF NEW YORK
ALBANY
JANUARY 10, 1900

SIR:

I have the honor to acknowledge the receipt of your letter of the 7th inst. in relation to the matter of the application of the State of New York for a writ of habeas corpus in the case of the State of New York vs. John J. McLaughlin, et al.

I am sorry to hear that you are unable to attend to the matter personally. I will endeavor to do all in my power to expedite the same.

Very respectfully,
J. J. McLaughlin

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J. J. McLaughlin



INDIANA & MICHIGAN ELECTRIC COMPANY

DONALD C. COOK NUCLEAR PLANT
P.O. Box 458, Bridgman, Michigan 49106
(616) 465-5901

January 25, 1980

Mr. J.G. Keppler, Regional Director
Office of Inspection and Enforcement
United States Nuclear Regulatory Commission
Region III
799 Roosevelt Road
Glen Ellyn, IL 60137

Operating License DPR-74
Docket No. 50-316

Dear Mr. Keppler:

This report is submitted as required by the Unit 2 Technical Specifications, Section 6.9.2, in relation to Technical Specification 3.1.1.4, Section a.3, Moderator Temperature Coefficient.

During zero power physics testing, the "all rods withdrawn" (ARO) moderator temperature coefficient was measured to be $+0.71 \text{ pcm}/^{\circ}\text{F}$. This value was conservatively obtained from an average of heat up and cool down measurements. Using the slope of the moderator temperature coefficient as a function of Boron Concentration (C_B), it was determined that the ARO, HZP moderator coefficient would be zero at 1494 ppm. Operations has been instructed to so position the rods that the C_B is less than 1480 ppm whenever the reactor is critical. By examining design curves for moderator coefficient as a function of burn-up, and neglecting xenon effects, it has been determined that the moderator coefficient will be negative whenever the reactor is critical after 800 MWD/MT.

Sincerely,

D.V. Shaller
Plant Manager

/bab

cc: J.E. Dolan
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