COMMISSION

DISTRIBUTION: L PDR 0ELD Docket File TERA-2 aeod NSIC IE-3 NRC PDR ORB#1 Rda ACRS-10 SVarga Gray File-2 Docket Nos. 50-315 SMiner DEisenhut.

> MConner KParrish -

Mr. John Dolan, Vice President Indiana and Michigan Electric Company Post Office Box 18
Bowling Green Station

Dear Mr. Dolan:

and 50-316

New York, New York 10004

In our August 14, 1980 letter, we concluded that the control rod guide thimble wear issue is resolved for the 17 x 17 fuel assemblies designed by Westinghouse for the D. C. Cook, Unit No. 2. We, also, stated that our review of this subject for facilities using fuel assemblies designed by Exxon, such as D. C. Cook, Unit No. 1, is continuing.

We have now completed this review. The propensity for guide thimble tube wear in Exxon reload fuel should be, to a first approximation, equivalent to that in Westinghouse fuel in the same plant. Examinations of Exxon fuel that was discharged from H. B. Robinson, Unit No. 2, as reported by Exxon letter dated February 25, 1980, revealed no through-wall wear nor major differences in the wear from that wear which was measured on Westinghouse fuel that was discharged from Pt. Beach, Units Nos. 1 and 2.

The Exxon examinations were performed on 5 fuel assemblies that had been under control rod banks for one cycle of reactor operation. One assembly was from Cycle 4 and four assemblies were from Cycle 5 operation. Of the 100 guide thimble tubes examined by an eddy current testing (ECT) method, only 11 had detectable wear (i.e., wear greater than about 3 mils local wall thinning). The ECT measurements did not reveal the azimuthal distribution of the wear, but if the worst wear that was detected had been concentrated on one side of the guide thimble tube wall, it would have indicated that a minimum of 23% of the wall thickness remained.

We conclude that (a) the degree of wear measured by Exxon is acceptable, (b) the degree of wear in the Exxon fuel is similar to that in Westinghouse fuel, which we have found acceptable, and (c) therefore the issue of guide thimble wear in D. C. Cook Nuclear Plant, Unit No. I has been adequately resolved.

Sincerely,

Original signed by

Steven A. Varga, Chief
Operating Reactors Branch #1
Division of Licensing

OFFICED
SURNAMED
DATED

STEVEN A. Varga, Chief
Operating Reactors Branch #1
Division of Licensing

SMiner/cb

SVarga

SVarga

SVarga

SVarga

5/4/81

5/4/81

NRC FORM 318 (10/80) NRCM 0240

OFFICIAL RECORD COPY

67= TO CARY 1 3 3 3 5 8 8 Miles . Maria C 5.893.276 Section . ويواوم وأنهم وي And the state of t

The second secon

S B i m j

The state of the s

70.5

~ _ _ つこべん

ture of the grant

x* 3.36.27

Pinis

THE CONTROL OF THE CO

Exp. of the control o

> 9: 1. ° 90 * ____ 3.



UNITED STATES NUCLEAR REGULATORY COMMISSION WASHINGTON, D. C. 20555

May 6, 1981

Docket Nos. 50-315 and 50-316

> Mr. John Dolan, Vice President Indiana and Michigan Electric Company Post Office Box 18 Bowling Green Station New York, New York 10004

Dear Mr. Dolan:

In our August 14, 1980 letter, we concluded that the control rod guide thimble wear issue is resolved for the 17×17 fuel assemblies designed by Westinghouse for the D. C. Cook, Unit No. 2. We, also, stated that our review of this subject for facilities using fuel assemblies designed by Exxon, such as D. C. Cook, Unit No. 1, is continuing.

We have now completed this review. The propensity for guide thimble tube wear in Exxon reload fuel should be, to a first approximation, equivalent to that in Westinghouse fuel in the same plant. Examinations of Exxon fuel that was discharged from H. B. Robinson, Unit No. 2, as reported by Exxon letter dated February 25, 1980, revealed no through-wall wear nor major differences in the wear from that wear which was measured on Westinghouse fuel that was discharged from Pt. Beach, Units Nos. 1 and 2.

The Exxon examinations were performed on 5 fuel assemblies that had been under control rod banks for one cycle of reactor operation. One assembly was from Cycle 4 and four assemblies were from Cycle 5 operation. Of the 100 guide thimble tubes examined by an eddy current testing (ECT) method, only 11 had detectable wear (i.e., wear greater than about 3 mils local wall thinning). The ECT measurements did not reveal the azimuthal distribution of the wear, but if the worst wear that was detected had been concentrated on one side of the guide thimble tube wall, it would have indicated that a minimum of 23% of the wall thickness remained.

We conclude that (a) the degree of wear measured by Exxon is acceptable, (b) the degree of wear in the Exxon fuel is similar to that in Westinghouse fuel, which we have found acceptable, and (c) therefore the issue of guide thimble wear in D. C. Cook Nuclear Plant, Unit No. 1 has been adequately resolved.

Steven A. Varga, Chief

ncerely

Operating Reactors Branch #1

Division of Licensing

cc: See next page .

Mr. John Dolan Indiana and Michigan Electric Company

cc: Mr. Robert W. Jurgensen
Chief Nuclear Engineer
American Electric Power
Service Corporation
2 Broadway
New York, New York 10004

Gerald Charnoff, Esquire Shaw, Pittman, Potts and Trowbridge 1800 M Street, N.W. Washington, D. C. 20036

Maude Preston Palenske Memorial Library 500 Market Street St. Joseph, Michigan 49085

Mr. D. Shaller, Plant Manager Donald C. Cook Nuclear Plant P. O. Box 458 Bridgman, Michigan 49106

U. S. Nuclear Regulatory Commission Resident Inspectors Office 770 Red Arrow Highway Stevensville, Michigan 49127

William J. Scanlon, Esquire 2034 Pauline Boulevard Ann Arbor, Michigan 48103