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 FACIL:50-316 Donald C. Cook Nuclear Power Plant, Unit 2, Indiana & 05000316
 AUTH.NAME AUTHOR AFFILIATION
 ALEXICH,M.P. Indiana & Michigan Electric Co.
 RECIP.NAME RECIPIENT AFFILIATION
 DENTON,H.R. Office of Nuclear Reactor Regulation, Director

SUBJECT: Forwards Exxon Nuclear Co 840416 explanation of statements
 re rod bow.Cycle 4 SER indicated that evaluation of rod bow
 & rod power should be made to if peaking factor limits need
 be adjusted.

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1. The first part of the document discusses the importance of maintaining accurate records of all transactions and the role of the accounting department in ensuring the integrity of the financial data. It also highlights the need for regular audits and the importance of transparency in financial reporting.

2. The second part of the document focuses on the implementation of internal controls to prevent fraud and ensure the accuracy of financial statements. It outlines the key components of a robust internal control system, including segregation of duties, authorization procedures, and regular monitoring and evaluation.

3. The third part of the document addresses the challenges of managing financial risk and the importance of developing a comprehensive risk management strategy. It discusses the various types of financial risks, such as credit risk, market risk, and liquidity risk, and provides guidance on how to identify, assess, and mitigate these risks.

4. The fourth part of the document explores the role of technology in modern accounting and the importance of staying up-to-date with the latest software and tools. It discusses the benefits of automation and the need for ongoing training and development for accounting professionals.

5. The fifth part of the document discusses the importance of ethical behavior in the accounting profession and the role of the accounting department in promoting a culture of integrity and transparency. It outlines the key principles of accounting ethics and provides guidance on how to handle ethical dilemmas and conflicts of interest.

6. The sixth part of the document discusses the importance of communication and collaboration in the accounting department and the role of the accounting department in providing valuable insights and recommendations to management. It outlines the key components of effective communication and provides guidance on how to build strong relationships with other departments and stakeholders.

7. The seventh part of the document discusses the importance of continuous improvement and the role of the accounting department in identifying areas for improvement and implementing changes to enhance efficiency and effectiveness. It outlines the key components of a continuous improvement process and provides guidance on how to measure and track progress.

8. The eighth part of the document discusses the importance of staying up-to-date with the latest industry trends and regulations and the role of the accounting department in ensuring compliance. It outlines the key components of a compliance program and provides guidance on how to stay up-to-date with the latest industry trends and regulations.

9. The ninth part of the document discusses the importance of maintaining accurate records of all transactions and the role of the accounting department in ensuring the integrity of the financial data. It also highlights the need for regular audits and the importance of transparency in financial reporting.

10. The tenth part of the document discusses the importance of maintaining accurate records of all transactions and the role of the accounting department in ensuring the integrity of the financial data. It also highlights the need for regular audits and the importance of transparency in financial reporting.

INDIANA & MICHIGAN ELECTRIC COMPANY

P.O. BOX 16631
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May 4, 1984

AEP:NRC:0860E

Donald C. Cook Nuclear Plant Unit No. 2
Docket No. 50-316
License No. DPR-74
CYCLE 5 SAFETY ANALYSIS REPORT

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

Dear Mr. Denton:

The Cycle 4 Safety Evaluation Report (SER) indicated that an evaluation of rod bow and rod power should be made to determine if DNBR or peaking factor limits need to be adjusted to account for fuel rod bowing. During the course of our review of the Cycle 5 Safety Analysis Report (SAR), Exxon Nuclear Company (ENC) was asked to further explain the statements with respect to rod bow. We mentioned to Mr. D. Wigginton on April 6, 1984 that we would be clarifying the SAR statements on rod bow after receiving confirmation from ENC. We are attaching a copy of a letter on the subject from ENC for this purpose.

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,


M.P. Alexich *EBK*
Vice President *5/3/84*

Attachment
bjs

cc: John E. Dolan
W.G. Smith, Jr. - Bridgman
R.C. Callen
G. Charnoff
E.R. Swanson, NRC Resident Inspector - Bridgman

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EXXON NUCLEAR COMPANY, Inc.

600 - 108th Avenue N.E., C-00777, Bellevue, Washington 98009, Telephone (206) 453-4300

April 16, 1984
ENC-AEP/0343

CT
Mr. George John, Sr. Engineer APR 23 1984.
Nuclear Materials & Fuel Management
Indiana & Michigan Electric Company
c/o American Electric Power Service Corp.
One Riverside Plaza
Columbus, OH 43215

Dear George:

Subject: Supplemental Information to D. C. Cook 2, Cycle 5 Safety Analysis,
Report Regarding Effect of Rod Bow on DNB Margins

- Ref: 1) XN-NF-83-85, Supp. 1, Rev. 1, "D. C. Cook Unit 2, Cycle 5 Safety
Analysis Report," March 15, 1984
- 2) XN-NF-75-32(P)(A), Supps. 1, 2, 3 & 4, "Computational Procedure for
Evaluating Fuel Rod Bowing," October 1983
- 3) XN-NF-82-32(P), Rev. 2, "Plant Transient Analysis for the Donald C.
Cook Unit 2 Reactor at 3425 MWt: Operation with 5% Steam Generator
Tube Plugging," February 1984

Exxon Nuclear has reanalyzed the effect of rod bow on DNB margin during the D. C. Cook Unit 2, Cycle 5. The effects were analyzed in accordance with the NRC Staff SER and Exxon Nuclear methodology (Reference 2). The results of the analysis show that no fuel assembly is expected to experience DNBR less than that reported (Reference 3) during Cycle 5. The analysis showed that the reduction in fuel assembly power due to burnup more than compensates for the effects of rod bow to EOC5.

Very truly yours,



H. G. Shaw
Contract Administrator

tlm

c: M. P. Alexich
J. M. Cleveland
W. L. Zimmermann