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 FACIL: 50-315 Donald C. Cook Nuclear Power Plant, Unit 1, Indiana & 05000315
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 DENTON, H. Office of Nuclear Reactor Regulation, Director

SUBJECT: Discusses 850315 telcon re incorrect expression for multiplier on heat transfer coefficient used in TOODEE2, which affected LOCA-ECCS analyses for several PWRs. Analyses redone.

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Add: D. Moran.

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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 faced by organizations in managing their financial resources effectively. It discusses the importance of budgeting and forecasting, and the role of the accounting department in providing timely and accurate financial information to support decision-making.

4. The fourth part of the document explores the impact of technology on the accounting profession. It discusses the benefits of automation and the use of data analytics in financial reporting, and the need for accountants to stay up-to-date with the latest technological advancements.

5. The fifth part of the document concludes by emphasizing the importance of a strong ethical framework in the accounting profession. It discusses the role of accountants as stewards of financial information and the need to uphold the highest standards of integrity and professionalism.

EXXON NUCLEAR COMPANY, INC.

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March 21, 1985
GFO:85:008

50-315

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

SUBJECT: Error in the 48,000 MWD/MTU LOCA-ECCS Analysis for D.C. Cook Unit 1

Ref.: XN-NF-83-61, "D.C. Cook Unit 1 LOCA-ECCS Analysis for Extended Exposure," August 1983

Dear Mr. Denton:

As discussed in a telephone conversation on March 15, 1985 with Mr. David Moran, Mr. Norm Lauben and Mr. Robert Jones of your staff, an error was discovered which affected the LOCA-ECCS analyses for several PWRs. The error was in an expression for a multiplier on the heat transfer coefficient used in T00DEE2, which was incorrectly programmed into the code.

T00DEE2 calculates the thermal response (heatup) of the hot fuel rod following the end of the blowdown transient until the core temperature transient is terminated. The incorrect coding caused the heat transfer coefficient multiplier in T00DEE2 to be 1.045, when it was intended to be 1.0 based on input to the code.

One such analysis affected by this error was the analysis to support increased burnup from 42.2 MWD/kg to 48.0 MWD/kg in D.C. Cook Unit 1. The analyses to support burnup points up to 42.2 MWD/kg were previously reported in XN-NF-81-07 and were done with a version of T00DEE2 which did not contain the error. ENC has redone the analyses reported in XN-NF-83-61 to support the increased burnup to 48.0 MWD/kg.

The peak clad temperature is calculated with the corrected version of T00DEE2 at 48 MWD/kg to be 1785°F versus the previous value of 1736°F. The reanalysis verifies that the plant satisfies the 2200°F limit of 10 CFR 50.46.

If there are questions, or if I can be of further help, please contact me.

Sincerely,

G. F. Owsley
G. F. Owsley, Manager
Reload Licensing Liaison

gf

CC: Mr. J. G. Feinstein (AEP)
Mr. D. L. Wigginton (USNRC)

Acc'd 1/0

Add: Dave Moran

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AN AFFILIATE OF EXXON CORPORATION

