

February 4, 1997

Ms. Irene Johnson, Acting Manager
Nuclear Regulatory Services
Commonwealth Edison Company
Executive Towers West III
1400 Opus Place, Suite 500
Downers Grove, IL 60515

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION ON TOPICAL REPORT EMF-96-051(P),
"APPLICATION OF ANFB CRITICAL POWER CORRELATION TO CORESIDENT GE
FUEL FOR QUAD CITIES UNIT 2 CYCLE 15" (TAC NO. M96213)

Dear Ms. Johnson:

By letter dated July 2, 1996, Commonwealth Edison Company (ComEd)
transmitted a topical report EMF-96-051(P), "Application of ANFB Critical Power
Correlation to Coresident GE Fuel for Quad Cities Unit 2 Cycle 15," to support
ComEd's second Siemens Power Corporation transition reload for Quad Cities,
Unit 2, Cycle 15. The staff has reviewed the licensee's transmittal and
prepared the enclosed request for additional information (RAI). Your response
by February 20, 1997, would be needed to assure a timely staff review.

Sincerely,

/s/

Robert M. Pulsifer, Project Manager
Project Directorate III-2
Division of Reactor Projects - III/IV
Office of Nuclear Reactor Regulation

Docket No. 50-265

Enclosure: RAI

cc w/encl: see next page

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REQUEST FOR ADDITIONAL INFORMATION
RELATING TO TOPICAL REPORT EMF-96-051(P)
COMMONWEALTH EDISON COMPANY
QUAD CITIES NUCLEAR STATION, UNIT 2
DOCKET NO. 50-265

1. Provide the details of the development of the ANFB critical power correlation including experimental fuel database obtained from both Siemens Power Corporation (SPC) and other vendors.
2. Provide justification on the applicability of the ANFB critical power correlation to those fuel designs which are not part of the existing supporting database for the ANFB correlation.
3. Provide the detailed process, including criteria for rod pattern selection, to obtain the ANFB additive constants for GE9/10 fuel assemblies and the resultant additive constant uncertainty in Table 1.1 of the subject reference EMF-96-051(P). Also, provide experimental data to substantiate that Table 1.1 is also applicable to GE10 fuel assemblies.
4. Provide database for the results shown in Table 2.1. Also, provide clarification that under what condition the results shown in Table 2.1 indicate that ANFB predictions have a conservative bias relative to GEXL for GE9 fuel, and the reason for the same standard deviation between X and Y.
5. Please clarify that the total resulting standard deviation on page 3-2 of the subject reference is based on the correct equation of the combined uncertainty with respect to the request for additional information in the review of EMF-1125(P), Supplement 1, Appendix C.
6. Provide the description of the Quad Cities, Unit 2, Cycle 15 fuel loading pattern - including the types and numbers of the fuel assemblies. Also, provide the detailed approach for this cycle-specific analysis on the minimum critical power ratio and provide the calculational procedures to generate the information in Table 5.1 - including assumptions for the control blade pattern, actual core loading, actual bundle parameters and full cycle exposure range.

ENCLOSURE