



Commonwealth Edison
 1400 Opus Place
 Downers Grove, Illinois 60515

January 21, 1991

Dr. Thomas E. Murley, Director
 Office of Nuclear Reactor Regulation
 U.S. Nuclear Regulatory Commission
 Washington, D.C. 20555

ATTN: Document Control Desk

Subject: Quad Cities Nuclear Power Station Unit 1
 Cycle 12 Reload and Core Operating Limits Report
NRC Docket No. 50-254

Reference: T. Ross (NRC) letter to T. Kovach (CECo), Technical
 Specification Amendment and Core Operating Limits
 Report per Generic Letter 88-16, dated
 October 20, 1989.

Dr. Murley:

Quad Cities Unit 1, which has recently completed its eleventh cycle of operation, is currently preparing for Cycle 12 startup (estimated startup date is February 2, 1991). The purpose of this letter is to notify you of the Commonwealth Edison Company (CECo) review and approval of the Cycle 12 reload under the provisions of 10 CFR 50.59, and to transmit the attached Core Operating Limits Report (COLR) for the upcoming cycle consistent with Generic Letter 88-16. The Technical Specification amendment to incorporate the COLR for Quad Cities Unit 1 was previously approved in the referenced letter.

The Quad Cities 1 Cycle 12 core, which consists of NRC approved fuel designs developed by General Electric Company, was designed to operate within approved fuel design criteria, Technical Specifications and related bases such that:

- core operating characteristics will be equivalent to or less limiting than those previously reviewed and accepted; or
- reanalysis has been performed to demonstrate that the limiting postulated FSAR events which could be affected by the reload are within allowable limits.

Consistent with past reloads, the reload licensing analyses performed for Cycle 12 utilized NRC approved methodologies. The cycle-specific power distribution limits for Cycle 12 are presented in the attached COLR.

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There are no reload channels in the Cycle 12 core. Channel bow for single bundle lifetime channels has been addressed consistent with the General Electric generic methodology, which adjusts the R-factors for the fuel in the core monitoring software.

CECo has performed a detailed review of the relevant licensing documents, the associated codes and references. Based on that review, a safety evaluation was prepared as required by 10 CFR 50.59 and approved by CECo's On-Site and Off-Site Review functions. CECo has concluded that the reload procedure does not raise any unresolved safety questions, and that no revisions to the current Technical Specifications are required as a result of the reload.

Finally, further verification of the reload core design will be performed during startup testing. The startup tests will be consistent with the Technical Specifications and testing recommended in Draft Regulatory Guide Task SC 521-4. As in the past, a summary of the results of key startup tests will be submitted within 90 days following the resumption of commercial operation.

Based on the previous discussion, CECo has concluded that NRC review and approval of the cycle-specific reload analysis is not required for resumption of operation with the Cycle 12 core.

Please contact this office should further information be required.

Respectfully,

Milton H. Richter

M.H. Richter
Nuclear Licensing Administrator

Attachment - Core Operating Limits Report for
Quad Cities Unit 1 Cycle 12

cc: A.R. Davis - Regional Administrator, Region III
L. Olshan - NRR Project Manager
T. Taylor - Senior Resident Inspector, Quad Cities