



Commonwealth Edison
1400 Opus Place
Downers Grove, Illinois 60515

July 15, 1994

Mr. William T. Russell, Director
Office of Nuclear Reactor Regulation
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Attn: Document Control Desk

Subject: Zion Station Unit 1
Cycle 14 Reload, Rev. 1
NRC Docket 50-295

References: See Attachment 2

Dear Mr. Russell:

This letter transmits revised Zion Unit 1 Cycle 14 Reload information. This letter supersedes the information transmitted in Reference 4. Since that time, Commonwealth Edison (ComEd) has discovered that a core loading error had occurred, and revised safety analysis was performed for the as-loaded core configuration. This letter provides the corrected information.

Zion Unit 1 has completed its thirteenth cycle of operation and has conducted a refueling and maintenance outage that began on October 21, 1993. Zion Unit 1 Cycle 13 attained a final cycle burnup of approximately 14,340 MWD/MTU. Cycle 14 commenced operation on April 3, 1994. The purpose of this letter is to provide information regarding the Zion Unit 1 Cycle 14 (Z1C14) reload core without the installation of the hafnium Peripheral Power Suppression Assemblies (PPSAs). The core design described in Reference 4 accounted for PPSAs. The effects of the deletion of PPSAs have been reviewed and are considered in this letter. Also, two temporary Large Break LOCA PCT assessments have been eliminated. This is discussed in Attachment 3. The Core Operating Limits Report (COLR) provided in Reference 4 remains applicable.

Attachment 1 describes the core reload design. All aspects of the design have been reviewed and compared to the safety parameters assumed in the Reference 1 safety analysis. It has been determined that these safety parameters have not been adversely impacted by the Cycle 14 core design without the PPSAs. The Zion Unit 1 Cycle 14 reload review was performed in accordance with the provisions of 10CFR50.59, and it was verified that no unreviewed safety questions exist and no Technical Specification changes are required.

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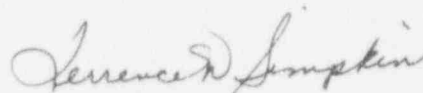
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The Zion Unit 1 Cycle 14 core has been designed and evaluated using NRC approved methodologies. ComEd performed the neutronic portion of the Z1C14 reload design utilizing codes and methods approved by the NRC in Reference 3. The remainder of the reload safety evaluation was performed by Westinghouse in accordance with the methodology described in Reference 1. Both the ComEd and Westinghouse evaluations have considered the core configuration without PPSAs.

Please direct any questions regarding this notification to this office.

Sincerely,



T.W. Simpkin
Nuclear Licensing Administrator
Commonwealth Edison Company

Attachments

cc: J.B. Martin, Regional Administrator - RIII
C.Y. Shiraki, Project Manager - NRR
J.D. Smith, Senior Resident Inspector - Zion