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OCT 22 1982

Docket Nos. 50-295
and 50-304

Mr. Louis O. DeGeorge
Director of Nuclear Licensing
Commonwealth Edison Company
Post Office Box 767
Chicago, Illinois 60690

Dear Mr. DeGeorge:

By letter dated September 10, 1982, the Commonwealth Edison Company provided additional information on masonry wall design for the Zion Station, Unit Nos. 1 and 2. In our review of this information, we have identified additional information which we will need in order to complete the review. The information needed is listed in the enclosure to this letter. Please provide your response within 45 days of receipt of this letter.

Sincerely,

Original signed by
S. A. Varga

Steven A. Varga, Chief
Operating Reactors Branch No. 1
Division of Licensing

Enclosure: As stated
cc: See next page

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OFFICE	ORB 1 DWigginton/rs	ORB 1 Svarga					
SURNAME	10/7/82	10/6/82					
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Mr. Louis O. DelGeorge
Commonwealth Edison Company

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James P. Keppler
Regional Administrator - Region III
U. S. Nuclear Regulatory Commission
799 Roosevelt Road
Glen Ellyn, Illinois 60137

Based on the Licensee's response dated September 10, 1982, the following questions need further clarification:

- (1) Provide a general description of modification methods. Also confirm that all modified walls have been qualified by the working stress design method.
- (2) Provide the following information:
 - types of horizontal reinforcement used in the horizontally spanned walls. Also provide verification to assure proper anchorage of the reinforcement at the boundary and proper bonding between the reinforcement and mortar. Provide the basis, including applicable test data which justifies the use of Dur-O-Wall type reinforcement as structural element (for example, NCMA has conducted some experiments to evaluate the structural role of joint reinforcement in Concrete Masonry, NCMA-TEK No. 99).
 - number of walls which were qualified relying on the strength of the horizontal reinforcement,
 - number of walls which were qualified relying on the strength of the vertical reinforcement,
 - since no documentation of inspections for masonry work was found the Licensee is requested to confirm that the horizontal and vertical reinforcement exists in the walls as specified in the design and discuss the basis for this confirmation.