

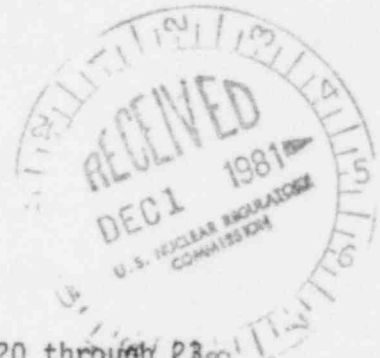
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NOV 30 1981

Docket Nos.: STN 50-454
and STN 50-455

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



Dear Mr. DelGeorge:

Subject: Byron Safety Review - Guidance from S

During the structural audit of the Byron Station, held October 20 through 23, 1981, you requested that further guidance be provided by the staff with regard to your evaluation of the ultimate capacity of the containment and the safety related masonry walls. We discussed with you the extent of the additional information needed in the context of questions 130.52 and 130.48, respectively, and you agreed to submit it for our review at a later date.

The following is in response to your request for additional guidance:

1. Ultimate capacity of the containment - as described in the SRP Section 3.8.1 Rev. 1, July 1981.
2. Masonry Walls - See "The Required Action for the Masonry Walls at Byron/Braidwood Plants" (Enclosed).

You are requested to respond to these questions using the enclosed guidance by December 15, 1981 or inform us, within seven days of receipt of this letter, of your schedule for response. If you need further information or clarification, contact the Byron Project Manager.

Sincerely,

Original signed by:
 William Kane

B. J. Youngblood, Chief
 Licensing Branch No. 1
 Division of Licensing

Enclosure:
As stated

cc w/encl.: See next page

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THE REQUIRED ACTION FOR THE MASONRY WALLS AT
BYRON/BRAIDWOOD PLANTS

- a) All unbuilt walls will be reinforced concrete or reinforced masonry designed to comply with SEB Masonry Wall Criteria, Rev. 1. A list of unbuilt walls as of October 20, 1981 should be provided.
- b) Perform a systematic mapping of structural cracks on all safety-related walls and discuss safety implications of any existing cracks and possible disposition.
- c) Confirm in a letter stating full conformance to QA requirements of Appendix B to CFR Part 50. Actual audit by NRC QA Branch may be necessary for key walls.
- d) Provide calculations for each type of Category I masonry walls for staff's review to verify conformance with the intent of "SEB Criteria for Safety Related Masonry Wall Evaluation" July 1981, Rev. 1.

e) Provide detailed assessment of behavior of walls assuming existence of reasonable crack patterns for the safety related walls for staff's review and acceptance. The assessment should be realistic and adequate in describing actual wall behavior under SSE shaking. The assessment should utilize any existing test data as pertinent. Pending staff's review, need for additional analysis, limited tests, and fixes may arise to demonstrate the adequacy of walls. The CEC OL should not be contingent upon completion of any additional analysis, testing or fixes. This will be treated as a license condition and any remedial action (testing and fixes) will have to be completed to the satisfaction of the NRC staff prior to the resumption of power operation after the first refuelling.