



Commonwealth Edison
One First National Plaza, Chicago, Illinois
Address Reply to: Post Office Box 767
Chicago, Illinois 60690

December 14, 1984

Mr. R. C. DeYoung, Director
Office of Inspection and Enforcement
Washington, DC 20055

Subject: Byron Generating Station Units 1 and 2
Independent Design Inspection
NRC Inspection Report No. 50-454/83-32

Reference (a): October 19, 1984 letter from T. R. Tramm
to R. C. DeYoung

Dear Mr. DeYoung:

This letter provides additional information in response to the NRC's Finding 2-1 which was identified during the Byron Integrated Design Inspection. Enclosed is revision 3 of Sargent and Lundy calculation 3C8-1281-001, "Auxiliary Building Flood Level Calculations". Review of this calculation should enable the NRC to the actions taken to address Finding 2-19.

Only minor changes have been made in revision 3 of this report. The changes are noted by change bars in the right margin. Specifically, the flood level predictions in 4 zones have been reduced based on more realistic modeling of the worst case breaks or cracks.

The blowdown condenser rooms (zones S3-3A and S3-3B) were originally modeled with both the normal blowdown path and the alternate blowdown path open. In reality only one path is used and this correction led to significantly lower levels. The positive displacement charging pump rooms (zones S3-9A and S3-9B) were originally calculated assuming a break in a location which would allow backflow from the centrifugal charging pumps. This location was determined to be a low stress point where no break postulation was required.

The calculations for these areas were refined because the floor slab capability was in question with the original levels due to the combination of flood load and equipment loads, and further assessment of the effects of slab failure is more difficult than refinement of the flood level calculation. With the current calculated flood levels the floor slabs designs contain adequate margin.

Please address further questions regarding this matter to

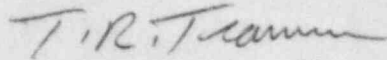
8412270428 841214
PDR ADOCK 05000454
Q PDR

13001
11

this office.

One signed original and fifteen copies of this letter are provided for NRC review.

Very truly yours,



T. R. Tramm
Nuclear Licensing Administrator

cc: D. Norkin

9531N