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May 30, 1984

Mr. James G. Keppler
 Regional Administrator
 U.S. Nuclear Regulatory Commission
 799 Roosevelt Road
 Glen Ellyn, IL 60137

Subject: Byron Generating Station Units 1 and 2
 Reactor Shield Wall Structural Analysis
 NRC Docket Nos. 50-454 and 50-455

Dear Mr. Keppler:

This letter documents the agreement reached on May 23, 1984 regarding confirmatory structural analysis of the reactor shield wall at Byron Station. This analysis is being performed to address comments made by Mr. Jim Muffet of your office, during an inspection at Sargent & Lundy regarding Byron design activities. This letter is submitted at the request of Mr. D. W. Hayes.

The exit meeting on May 23, 1984 was held to discuss Mr. Muffet's review of the reactor shield wall, primary shield wall and fill slab structural design calculations. Sargent & Lundy agreed to perform the following additional work to verify the adequacy of previous calculations:

1. Complete work on the primary shield wall final load check model that includes a portion of the fill slab around the primary shield wall.
2. Account for the non-axisymmetric restraint of the primary shield wall for thermal loading.
3. Perform further analysis to verify the methods used to distribute seismic loads to the primary shield wall.
4. Clarify the reactor shield wall calculations to show there is no overstressed condition for design basis loadings.

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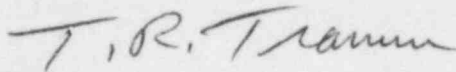
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It was agreed that as portions of this work are completed, Mr. Muffet be notified accordingly to commence his review. It is anticipated that all work would be completed and ready for NRC review by June 20, 1984.

Please contact this office if additional information is required.

Very truly yours,

A handwritten signature in cursive script that reads "T. R. Tramm".

T. R. Tramm
Nuclear Licensing Administrator

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