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Document Control Desk
U.S. NUCLEAR REGULATORY COMMISSION
Mail Stop P1-137
Washington, DC 20555

Gentlemen:

DOCKETS 50-266 AND 50-301
ADDITIONAL INFORMATION
DIESEL GENERATOR ADDITION PROJECT DESIGN
POINT BEACH NUCLEAR PLANT, UNITS 1 AND 2

On September 24, 1994, we submitted the "Diesel Generator Addition Project Design Summary." This design summary was provided to support NRC review and approval of license amendments for the Point Beach Nuclear Plant which were subsequently issued on September 23, 1994. On September 27, 1994, in a telephone conversation with NRC staff, we provided a clarification of information in the design summary related to the calculation of earth pressure on below grade portions of the new diesel generator building. This letter is provided as documentation of the information provided during that conversation.

The calculation of lateral earth pressure on the below grade portions of the diesel generator building considers the following load components:

1. A lateral load component based on live load surcharge resulting from equipment, vehicles, etc.
2. A lateral load component resulting from normal soil pressure calculated using the equivalent fluid pressure method per the Uniform Building Code.
3. A lateral load component resulting from compaction of granular backfill.

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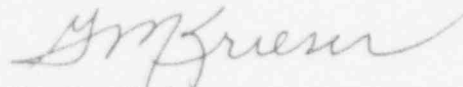
Document Control Desk
October 4, 1994
Page 2

4. A lateral load component resulting from the horizontal acceleration of compacted granular backfill. Accelerations of the backfill are based on the zero-period acceleration of the ground response spectrum. The calculation of the dynamic earth pressure is based on the recommendations in the paper by H. B. Seed and R. V. Whitman entitled, "Design of Earth Retaining Structures for Dynamic Loads," Specialty Conference, Lateral Stress in the Ground and Design of Earth Retaining Structures, Soil Mechanic and Foundation Division, ASCE, 1970.

In general, these lateral load components are considered to act simultaneously on below grade structures.

If you need any additional information, please contact us.

Sincerely,



G. M. Krieser
Manager
Industry and Regulatory Services

cc: NRC Regional Administrator, Region III
NRC Resident Inspector