September 25, 1986 NRC/Thi &6-095

Docket Ro. 50-320

Mr. F. R. Standerfer Vice President/Director, THI-2 GPU Nuclear Corporation P. U. Box 400 Hiddletown, PA 17057

Dear Mr. Standerfer:

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Subject: Sediment Transfer and Processing Operations Safety Evaluation Report

References:

- (a) GPUH letter, F. R. Standerfer to H. D. Travers, Sediment Transfer and Processing Operations Safety Evaluation Report, dated Harch 18, 1986
- HRC letter, H. D. Travers to F. R. Standerfer, Reactor Building Sump Criticality Salety Evaluation Report, dated September 11, 1936

The Nuclear Regulatory Commission (NRC) staff has reviewed your March 16, 1966 proposal for collection, transfer and treatment of various sediment forms in the ThI-2 auxiliary and fuel handling buildings and reactor building (reference a). Our reviews have indicated that your evaluations are conservative and we agree that there is no unque risk to the health and safety of the public. Furthermore, our prior reviews (reference b) have established that the amount of fuel in the various sediments in the basement of the reactor building is significantly smaller than the 70 kg required to achieve criticality. The addition of the small amount of fuel which may be contained in the auxiliary building sump and sump tank will not contribute enough fuel to the total inventory contained in the combined sediments from the reactor building and the auxiliary building to create a critical mass.

We have reviewed your evaluations pertaining to inadvertent releases of liquid and airborne contamination from the sediment transfer or processing equipment which could result from valve misolignment, hose rupture, tank overflow or tank rupture. We agree that the worst possible scenario of a ruptured spent resin storage tenk and instantaneous release of 2,400 galions of 43% by weight concentrated sediment would be well within the dose guidelines of 10 CFR Part 160. These activities fall within the scope of activities previously considered in the Programmatic Environmental Impact Statement.

Our reviews have concluded that the collection, transfer and processing of sediment as described in reference (a) does not constitute an unreviewed saret, question as defined in 10 CFR 50.59.

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We therefore approve the proposed operation of the collection, transfer and sediment treatment equipment in the Dil-2 auxiliary and fuel handling buildings and reactor building as described in reference (a) consingent upon the submittal of related procedures subject to Technical Specification 6.8.2.

Sincerely,

ORIGINAL SIGNED BY William D. Travers

William D. Travers Director THI-2 Cleanup Project Girectorate

cc: T. F. Deminist R. E. Rogen 5. Levie J. E. Frew J. J. Byrne A. M. Hiller

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