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Miami, Florida 33152

December 3, 1979

Dr. Denwood F. Ross, Jr., Director
Bulletins & Orders Task Force
Office of Nuclear Reactor Regulation
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Subject: Semiscale S-07-10B Small Break Test

Dear Dr. Ross:

At your request, we are providing Combustion Engineering's (C-E) pre-test analysis of Semiscale Test S-07-10B. The analysis was performed using a best-estimate approach with a modified version of the C-E Small Break Evaluation Model. A complete hydraulic and temperature calculation of the Semiscale Test S-07-10B to 750 seconds is provided as requested in the pre-test analysis specification.

The enclosed analysis was performed in a greatly accelerated manner in order to be submitted prior to the imminent release of the test data. Consequently, quality-assurance of the calculations has not yet been completed. Furthermore, the secondary side steam valve of the steam generator in the broken loop of the test facility remained inadvertently open during the test. This atypicality results in an uncharacteristic transient behavior of the broken loop steam generator which, we feel, requires additional technical review. Should this review or the quality-assurance of the analysis cause a change of the results, we plan to submit an updated analysis at a later date.

Similar to the data package submitted earlier for the LOFT Small Break Test L3-1, the enclosed data package consists of a list of input, a nodalization diagram for the Semiscale MOD-3 Test Facility, output graphs and a list documenting the modifications incorporated in the C-E Small Break Evaluation Model.

Due to the proprietary nature of some of the material contained in the enclosures, we request that it be withheld in accordance with the provisions of 10 CFR 2.790 and that this material be safeguarded. The reasons for the classification of this material as proprietary are delineated in the enclosed affidavit.

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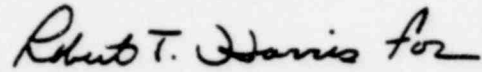
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Should questions arise concerning the enclosed material, please feel free to contact myself at (305)552-3811 or Mr. Ken Morris of Omaha Public Power District at (402)536-4505.

Very truly yours,



George Liebler, Chairman
C-E Owners Group

GL:dag

- Enclosures:
- a) input list copied from microfiche
 - b) hard copy of input list
 - c) nodalization diagram of Semiscale MOD-3 Test Facility
 - d) output graphs
 - e) code modifications

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