PESTING REACTOR 75-133 Charts P.O. Box -3/2 Pittsburgh 30, Pennsylvania Phone - Yukon, Pa. 2-3011 April 11, 1959 DOGNET NO. 20-133 Supple only Mr. Charles McCallum United States Atomic Energy Commission Division of Licensing Washington 25. D. C.

Dear Mr. McCallum:

It was pointed out by Clevite Research Laboratories that additional information on the criticality of the WTR fuel elements is needed for the AEC to approve shipment of new fuel using the Westinghouse fuel shipping boxes. It was thought by Clevite that only information pertaining to the criticality of the fuel elements inside the boxes was required by the AEC. I believe that the following information will suffice.

Enclosed is a report entitled "A Criticality Study of WTR Christ Which explains the minimum number of WTR Christ Which fuel elements required to go critical with optimum geometry fitte for the core rather than from the actual lattice array of cylindrical elements. The minimum number of elements required to reach criticality based on this pessimistic assumption is 17 elements. The actual number of elements required may be as high as 22.

Clevite will be contacting you in the near future to obtain your approval in addition to the Bureau of Explosives approval which has been already obtained under Bureau of Explosives permit number 522. Since Clevite would like to start shipments to Westinghouse on April 17, 1959, your prompt consideration will be greatly appreciated.

Yours truly,

A. Parks Honeywell

Reactor Operating Supervisor

Technical Operations

a Parks Honeywell

Mr. Donald Berger, Cleviia Research Laboratories

Mr. R. B. Rice, Westinghouse Testing Reactor

Mr. A. J. Pressesky, Westinghouse Testing Reactor

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