July 12, 1955 Mr. K. E. Fields General Hanager The Atende Energy Commission 1901 Constitution Avenue, N.W. Reference: Mashington, D. C. Cral presentation Per Ir. Fields: At its Thirteenth Meeting on June 29, the Advisory Convittee on Reactor Safeguards, by unanimous vote of the members present, passed the following motion concerning the proposal of the J. A. Jones Company and associates to construct an engineering test reactor of a site in South Carolina: "The proposed reactor, although similar in some of its technical features to the LiR and therefore in this respect does not represent a radical departure from established practice, does r body as a fundamental concept in its utilization a large and unprecedented degree of flexibility in the kind of experiments that will be run and also the fact that a number of different experiments will be operated simultaneously. 1091196 "In addition, only a few sample experiments were mentioned at this teview. There must be a large number of experiments of entirely unknown and unanticipated characteristics for which the facility should be used. "Noreover, 175 nogewatts is a large power lovel for a test reactor. This is some six times greater than that of the excisting MIR and up to 30% of this power can be carried by experimental assemblies. Even if the basic core structure is considered entirely adequate, one is nevertheless speaking of experiments which correspond to reactors of large power levels of unknown technology. Decause of the large power level, and the great flexibility associated with this reactor, we feel that it would be ruch more desirable to have it located at the National Reactor Testing Station than in South Carolins. Even so, we would also recommend that the ARCO installation should provide adequate containment. "If an Engineering Test Reactor were located in South Carolina, there would be cartein desirable experiments that could not be performed safely at that site." 9102140130 901219 PDR FOIA DEKOK90-173 PDR

Sincerely yours,

C. Rogers McCullough Chairman Advisory Committee on Reactor Safeguards

cc: H. T. Wensel, RMES
C. A. Nelson, Director
Division of Inspection
W. Kenneth Davis, Director
Division of Reactor Development

Sint Bolt