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DATE: May 19, 1955

SUBJECT: APPR Critical Experiment
Program Meeting

TO: Distribution

FROM: J. G. Gallagher

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APPR CRITICAL EXPERIMENT PROGRAM MEETING

Place: Electromuclear Research Conference Room, Building 9204-3, Y-12

Date: May 16, 1955

Those Present:

R. S. Livingston	Electromuclear Research Division
A. L. Boch	Electromuclear Research Division
J. E. Mann	Electromuclear Research Division
J. H. Cupp	Electromuclear Research Division
A. D. Callihan	Physics Division
D. V. P. Williams	Physics Division
D. W. Magnuson	Physics Division
R. R. Bate	U. S. Army
J. K. Leslie	Alco Products, Inc.
J. G. Gallagher	Alco Products, Inc.

This is the second meeting for coordinating the APPR Critical Experiment Program.

A. L. Boch asked for discussion of the rough draft of the memo "APPR Critical Experiment". Arrangements were made for checking and editing the final draft. A distribution was agreed on.

J. E. Mann reviewed the status of the mechanical design of the experiment. He reported that drawings of the fuel element box (ORNL Dwg. No. D-2-02-015-38) and steel plates (ORNL Dwg. No. C-2-02-015-34) have been turned over to J. H. Cupp who is handling the fabrication.

J. H. Cupp reported that the 304 stainless steel needed for the fuel element boxes was not available locally and has been ordered. A ganged cutter is being prepared to cut all 18 slots in the sides of the fuel element box simultaneously. The fabrication of the inspection jig (ORNL Dwg. No. 2-02-015-35) for the fuel plates (to be fabricated by Metals and Controls, Attleboro, Massachusetts) is under way.

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CLASSIFICATION CANCELLED
DATE 12-20-55
For The Atomic Energy Commission
H. F. Canale
Chief, Declassification Branch

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A. D. Callihan pointed out that all items that go into the critical experiment tank must be rustproof. He mentioned that the base temperature of the experiment would probably be 70-75° F with a maximum of about 150° F (reached in the measurement of the change of reactivity with temperature).

J. G. Gallagher reported that the boron plate specifications (Boron Plate Specifications for APPR Critical Experiment, J. G. Gallagher and R. R. Bate, ORNL CF 55-5-32) have been sent to R. J. Beaver for fabrication and that Mr. Beaver is undertaking further development of the stainless steel clad B_4C in copper for the absorber section of the control rod.

A. D. Callihan reported that a letter containing specifications and drawing (ORNL Dwg. No. D-2-02-015-37) of the fuel plate has been mailed to the AEC Office in Schenectady (destined for Metals and Controls).

J. G. Gallagher

vj

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