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EXPLOSIVES DEPARTMENT

This document consists of 2 pages

December 29, 1955

DPW-55-16-45

SR/H--913

TO: J. B. TINKER

FROM: M. S. BLOOMSBURG

WEEKLY REPORT DECEMBER 23-29, 1955
300-M AREA - SAVANNAH RIVER PLANT

I. ITEMS REQUESTED OF ENGINEERING

A - Increased Productivity

The next Engineering Design Meeting will be held
Wednesday, January 4 at 1:15 P.M.

1 - Mark III

The revised scope of work scheduled for issuance
12/15 has not been received. Present indications are
that it will be available about 1/6/56.

Engineering expects to have their scope out to
Estimating by 1/3 for the preparation of the OME.

Mark VI will take priority over Mark III insofar
as design is concerned.

MARK VI

The revised scope-of-work on Mark VI is expected
about 1/13. The scope on Mark VIa is expected about 1/23.

Engineering has been requested to start work on
the necessary alterations and additions to Bldg. 320
for the production of target slugs. SRP is reviewing
present capabilities for producing slugs and the
additional equipment required to produce the contemplated
quantities. To date there is no information available

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Reviewing J.B. Tinker 2/4/59

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on the size or number of slugs required. A crude estimate of the number needed for the forecast production of the final product is about 500,000/year.

Design of facilities for the production of target tubes will be subordinated to the work on the slug facility.

A visit has been made to ORNL to review their accountability and health physics procedures in handling the fuel alloy.

SRP is reviewing with AEC the requirements for storage of Oratloy and alloyed material.

II. ITEMS OF INTEREST

A - Hollow Uranium Slugs

A shipment of 208 slugs for the R-10 loading has been made and the total is expected to be approximately 1000 pieces by 12/31/55. Canning yield is running between 90% and 95%. Acceptance of canned pieces for bore warp is about 99% when using a 0.375" mandrel in the 0.387" hole. This amount of bore warp is considered satisfactory.

The incoming cores are showing about a 90% yield with a 0.463" mandrel in a 0.475" hole. Insertion of the spire and pressing mandrel is not possible with a greater bore warp than this.

SEP is presently installing one turret and one engine lathe for drilling cores and expects to start production on a small scale by 1/10/56. A total of 4 turret lathes, 8 engine lathes, and 10 drill presses is expected to be installed in February with a production of 750 pieces/day being attained.

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