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October 13, 1955

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WEEKLY REPORT, OCTOBER 7-13, 1955
300-M AREA - SAVANNAH RIVER PLANT

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Reviewing
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C. J. Barick, AED Class Officer

Date

I. ITEMS REQUESTED OF ENGINEERING

A review of progress to date on design of a production prototype pneumatic pressing autoclave and on production facilities for fabrication of Mark III and Mark V fuel elements will be presented by Engineering on Monday afternoon, October 17.

II. ITEMS OF INTERESTHF Program

Forty hot pressed 1.138" diameter hollow slugs were shipped this week from Sylvania to SRP for evaluation. Preliminary inspections on four of these slugs have shown that SEP has made marked progress toward eliminating most of the defects observed in previous shipments. Adverse comments on this preliminary examination are as follows:

1. Grain growth in the aluminum cap and spire was again observed.
2. Thin hydride type layer ranging from 0.1 to 0.5 mils in thickness on two of the slugs examined.
3. Only one case of uranium diffusion into the aluminum can wall in a small area at the end of a slug.

Some minor folding at the spire bottom and at the cap was observed but this appears to be of no significant consequence. Thinning of the can wall at the top and bottom of the can was also minor and does not appear to be a problem. A small number of inclusions were detectable at

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for SEP have been placed with Fernald this week with requested deliveries between Nov. 1 and Dec. 1 of this year. Requests for procurement of 50,000 Savannah hollow cores and 12,000 Sylvania are currently being made to SR00; delivery dates on these latter orders will be specified later on the basis of unit prices for the current machining capacity of 15,000 pcs./month and for increasing ALBA machining capacity to 50,000 pcs. per month.

The 2,000 Sylvania cores which Fernald is to supply by Dec. 1 will be beta transformed horizontally at FMPC in the form of 22 ft. rods, then water quenched (after 20 seconds required to make the transfer from the salt to the water). This treatment was specified because any other form of heat treatment would involve some degree of change in Fernald production equipment with a consequent extension of both delivery and price.

DWB/ms

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