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April 20, 1949

100 AREAS TECHNICAL ACTIVISIES REPORT - 1-10 PROJECT

MARCH, 1949

Extraction of 217 fluoride slugs with pile exposures of from 5-20 days gave 198 units of product with an average purity of 33 per cent. This yield is about one-third that obtained for alloy slugs at comparable exposures. High ges pressure was observed for many of the slugs and in almost all of the slugs the Lithium fluoride pellets had disintegrated into a fire powder.

Developments on the allow program continued to be more favorable than expectations. The number of slugs in the piles was increased from 555 to 937 with the prospect that the total can be increased to approximately 1100 during the next few months. Argonne has reported that the yield is linear at 7 to 3 units yer slug per month for exposures to 3-1/2 months. A ges density determination indicated a product purity of 91%. Examination of slugs discharged after 4 months' exposure showed that no measurable change in dimensions had occurred.

These results and other data collected during the month have provided the information necessary to proceed with the completion of facilities for the handling and extraction of allow slugs.

The extraction facilities now being used to process fluoride alogs on lines I and 2 will be duplicated on lines 3 and 4 except that a furnate for molting ality slugs will be substituted for the one now used to heat fluoride pallets. The slugs will be reduced in a stainless steel tube which will be used only once. Five slugs will be extracted in such run. Rediction resourcements on irrediated alloy slugs indicate that the furnace will require skielding equivalest to about one inch of lead and that chielding will be required to transpost alloy slugs from the can opener to the firmace.

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1st REVIEW-DATE: LO-18-97 AUTHORITO DARCE TO THE AUTHORITO (ADD NAME ID WESTOUS

ORG: ONNT 2nd REVIEW-DATE: 8-28-9+ NAME: TD M. CORMICK

ORG: <u>QNP</u>) Our Townsyn 12/11/98 GE Savely 5-3-99

PILE SECENDINGY DIVISION 110-CG-5-RENI EO-UPDATE

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