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EWL 10-10

October 23 1951

TO: File

FROM: T. M. Hall

This Document Contains 2 Pages

INCIDENTAL OF INTERRUPTED HEAVY METAL SLUG FROM

TUBE NO. 2867-F

SUMMARY

The F Reactor was shutdown at 10:56 p.m. on October 8, 1951 to permit the removal of a ruptured slug from tube 2867-F. The tube was discharged with the charging machine using normal forces. Operation was resumed at 11:26 p.m. after an outage of 0.5 hours. However, the recovery time had been exceeded and the reactor was shutdown again at 12:26 a.m. on October 9, 1951. The second outage extended for 25.4 hours, which was the minimum pile down time. During the outage scheduled pile maintenance was carried out.

DETECTION

The rupture was initially detected by the effluent water monitoring system. The initial indications were confirmed by T.G.M. readings taken on samples from the suspect header and adjacent headers. A reading of 30 r/hr was obtained on rear signal of tube 2867-F.

REMOVAL

The ruptured slug was discharged by means of the pneumatic charging machine with normal forces required.

DATA ON THE SLUG

Tube 2867-F contained regular metal charged March 7, 1951. The ruptured slug was an ER type, charged February 1, 1951, processed on truck no. 11, Line H, and had been autoclaved. The charge had reached 63% of current goal concentration. By monitoring the pieces from the tube it was determined that the ruptured piece was the 33rd piece from the front of the charge. The cap was separated from the slug proper about half way around the circumference of the slug end and the cap end was slightly expanded outward.

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RADIATION ASPECTS

There were no unusual special hazards associated with the removal of the ruptured slug.

SLUG DISPOSAL

The slug has been canned and is being held pending further investigation at 111-B metallurgical laboratory.

T.M. Hall / 106

OPERATIONS UNIT-REACTOR SECTION

- END -

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