

~~SECRET~~

MONSANTO RESEARCH CORPORATION

From LOCATION : RESEARCH DEPARTMENT, Mound Laboratory

DATE : December 28, 1964

SUBJECT : Discussions with Don Spangler on tie  
in of SW Annex with SW recovery  
REFERENCE : system

TO : Dr. W. B. Brown

DISTRIBUTION:

- Copy 1 - W. B. Brown
- Copy 2 - G. R. Grove
- Copy 3 - L. V. Jones
- Copy 4 - F. D. Lonadier
- Copy 5 - A. Stambaugh
- Copy 6 - T. B. Rhinehammer
- Copy 7 - D. R. Spangler
- Copy 8 - B. C. Blanke
- Copy 9 - Central Files

I met with Don, December 28, 1964, to discuss recovery in the Nuclear Components and Product Development annex to the SW Building. The following conclusions were reached:

1. The Stack Recovery system, after modification now under consideration, will have sufficient capacity to accept the exhaust from the house vacuum system and from Hood 1 through 29, 30, 31, 34 and 35, excepting Hoods 6, 8, 17, 18 and 19, may be passed through the system.
2. Recovery of salt will be at the rate of 1/3 of total salt processed at a level of production of 50 devices per year. This scrap would amount to approximately about 350 g of tritium and 4 kg of deuterium per year, or 12 to 20 kg of lithium salt. Capacity of the new recovery line would be strained, but it could handle this amount.

If 200 devices per year were fabricated, the rate of throughput going to recovery would drop to 10% because the identical structure of these units would negate need for one backup part for each pair of parts pressed. The increase in throughput would keep the amount of recovery at nearly the same level.

Released through the  
MOUND LSDR PROJECT  
(funded through DOE's OPENNESS INITIATIVE)  
Record Copy held at Mound Facility

MOUND DECLASSIFICATION REVIEW	
DATE: 4/9/99	DETERMINATION:
CLASSIFIED BY: Don Spangler	1. CLASSIFICATION CHANGED
2ND REVIEW DATE: 8/5/99	2. CLASSIFICATION CHANGED
AUTHORITY: ADD	3. CONTAINS NO DOE CLASSIFICATION
NAME: Bob Patay	4. COORDINATE WITH:
	5. CLASSIFICATION CANCELLED
	6. CLASSIFIED INFO BRACKETED
	7. OTHER (SPECIFY):

~~SECRET~~

ALMD64124290304

~~SECRET~~

3. Salt would be transferred from the press or process lines by use of calorimeter cans. A weighed amount of salt would be placed in a liner in an inner can within the box line. This inner can will be sealed and passed into a decontamination hood where it will be placed in an outer container. The outer container will be decontaminated, calorimetered and taken to SW 8 for recovery.

The above amounts are estimates only, based on information currently available and current production techniques.

Bertram C. Blanke  
Bertram C. Blanke  
Group Leader  
Calorimetry and Devices

BCB:rjk

~~SECRET~~