

8/16/62

To: Dean Meyer, Group Leader, H-1

From: John Enders, H-1

Subject: Standard Operating Procedure for the disposal of solutions of U^{235} and Fission Products.

The above subject material is now located at the DP West Vault. It has been decided to dispose of these solutions into the Disposal Wells in Area "C". The hazards involved in the disposal operations include radiation and chemical hazards. The solutions are mainly in acids such that there is the possibility of exposure to acid spray in the event a bottle were to explode. The radiation hazard will vary with each bottle, but it is not expected to pose too serious a problem providing careful survey is made of each bottle and the handling time is minimized.

The following procedure will be followed for this disposal operation:

- I. ADPSF will deliver the material to Area "C".
 - A. ADPSF is to be notified at least one day in advance of start of the operation.
 - B. If possible, no more than 500 grams of material (U^{235}) will be delivered at one time to Area "C".
- II. H-1 will package each bottle in a two gallon metal can.
 - A. These cans are available from General Stock (GS-2502).
 - B. Vermiculite will be placed around each bottle as it is put into the metal cans.
 - C. The loaded metal cans will be carefully lowered into the wells by means of string attached to the can with tape.
 - D. No more than 500 grams of U^{235} is to be placed in any one Disposal Well.

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S.O.P. for disposal of U²³⁵ solutions (J-11) from DP West Vault

- II. E. During the packaging operation personnel doing the work will wear:
1. Protective clothing (PVC Coveralls).
 2. Face shield.
 3. Rubber gloves.
 4. Film badge and pocket dosimeter.
- F. An H-1 Monitor will survey each bottle prior to packaging to determine personnel exposure during the packaging operation.
- G. Water will be provided at the location of the work. In the event a bottle breaks, flushing the area with water would help prevent damage from acid burn.
1. H-1 Decontamination has proper fittings and hose for attachment to the fire hydrant at the SE corner of Area "C".
- H. After each well has received the maximum allowable amount of U²³⁵ (500 grams), the hole is to be completely filled with dirt.