

ROUGH DRAFT #1

12/5/61

To: Dean Meyer, Group leader, H-1

From: John Enders, H-1

Subject: Standard Operating Procedure for disposal of solutions of U²³⁵ and Fission Products

Above subject solutions are 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 possible exposure to acid spray (in event a bottle exploded). 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.

After talking with Glenn Champion, ADPSF, and Jerry Dummer, H-1, I propose the following outlined procedure 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 (U²³⁵) 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. Formiculite ^{← Sp? vermiculite} will be placed around each bottle as it is put into the metal cans. (available from ?)
 - C. The metal cans are to be lowered into the Disposal Wells (carefully) by means of string attached to the metal can with tape.
 - D. No more than 500 grams of material is to be placed in any one Disposal Well.



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12/5/61

S.O.P. for disposal of U^{235} acid solutions

II. ~~N.E.~~ During packaging of each bottle the person doing this job will wear:

1. Protective clothing(PVC Coveralls).
2. Face shield.
3. Rubber gloves
4. Film badge and pocket dosimeter.

F, X

An H-1 Monitor will survey each bottle prior to packaging so as to determine personnel exposure during the packaging operation.

G, X

Water will be provide at the location of the work. *for what purpose?*

1. H-1 Decontamination has proper fittings and some hose for attachment to the fire hydrant at the SE corner of Area "C".
 - a. More hose will be needed and will be issued from stock.
 - b. A spray nozzle will be fitted to the end of the hose.

H, X

After each disposal well has received the maximum allowable amount of U^{235} (500 grams), the hole is to be completely filled with dirt.

I, X

Graphic Arts is to be notified in advance of the operation in order to provide photo coverage of the operation.