

OFFICE MEMORANDUM 124

TO : Dean Meyer, Group Leader, H-1

DATE: April 13, 1970

FROM : John Enders, Leader, CMR Building Monitoring Section, H-1

SUBJECT: SOLID RADIOACTIVE WASTE DISPOSAL REPORT FOR THE FIRST QUARTER OF 1970

SYMBOL : H-1-CM

*1778 Report*

This report covers solid radioactive waste disposal activities for the first quarter of 1970. Disposal costs and volume data are also presented. Because some of the data is based on estimates, this should be kept in mind if any conclusions are to be drawn from the report.

Information for the report has been furnished by the Zia Company, ENG-4, Supply and Property Dept. and L A Notebooks #15953 and 12442.

Beta - Gamma Waste

This type of material was disposed of in disposal shafts at Area G. Shafts number 12, 13, 17 25, and 34 were used. Shaft #34, a 6 ft. diameter hole, 60 ft. in depth, received its first delivery of contaminated oil on 2/3/70 (32 55 gal. drums).

A disposal permit form has been put into use, this quarter, which, hopefully, will provide more accurate information about the amounts of fissile material and/or curie content of material to be put into Disposal Shafts.

The use of asphalt has been started for encasing tritium contaminated material to be put into disposal shafts. H-7 now has an asphalt meter for this purpose. A Standard Operating Procedure has been written and is being circulated for final approval which outlines the procedure to follow for disposal of tritium contaminated material.

A work order has been submitted to ENG-4 to have a safety lid fabricated and installed on the 6 ft. diameter, oil disposal shaft at Area G.

The Standard Operating Procedure for Use of Disposal Shafts has been prepared and approved.



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TO: Dean Meyer, H-1

-2-

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A memo was written to SP-2 Group which outlines the procedure for the pick up, transportation and disposal of classified, contaminated material. SP-2 will escort the material to the Disposal Area, But H-1 will be responsible for the pick up transportation and disposal.

Low Level Waste

Routine, low level waste was placed in Pit #16, during the quarter. A larger than normal amount of scrap material is being delivered to this Pit because of demolition activities at DP Site and the general Laboratory wide clean up campaign.

A Purchase Request has been submitted for new signs to replace those (on the perimeter fencing) that have become faded due to weathering.

A Standard Operating Procedure has been written and approved for the Zia Truck Drivers to follow in the event they discover a fire in contaminated waste containers. A portion of the Procedure requires H-1 to escort D-38 material from the Shops Area to the Disposal Area. In order to provide radio communication for the H-1 driver, two extra radios have been installed in the truck to be used for escort duty. One radio is on the Zia Refuse Dept. frequency and the other is on the AEC Fire Dept. network.

A Work Order was sent to ENG-4 on 3/11/70 requesting exposed trash in pit #6 to be covered. This job was started on 4/1 and completed on 4/3/70.

A report has been sent to the Group Office which suggests proposed pit space requirements in the event it is decided that various kinds of solid radioactive waste should be segregated.

Waste Volume

	Total (yd. <sup>3</sup> )
1. Small Plastic Bags (2,227 X 0.037 yd <sup>3</sup> )	82
2. Large Plastic Bags ( 989 X 0.46 yd <sup>3</sup> )	455
3. Cardboard Boxes (7,722 X 0.087 yd <sup>3</sup> )	672
4. 55 gal. drums ( 227 X 0.3 yd <sup>3</sup> )	68
5. Misc. scrap (estimated)	715
Total for quarter =	<u>1,992 yd.<sup>3</sup></u>

Disposal Costs

	Total
1. Small Plastic Bags (2,227 X \$0.08)	\$ 178.00
2. Large Plastic Bags ( 989 X \$0.24)	237.00
3. Boxes (7,722 X \$0.19)	1,477.00
4. Drums ( 227 X \$8.60)	1,952.00
5. Tape (500 rolls @ \$0.87/roll)	520.00
6. Zia Janitor Charge	7,850.00
7. H-1 Vehicles	240.00
8. H-1 Radios	166.00
9. Health Physics Surveyor	2,625.00
10. Protective Clothing (estimated)	50.00
11. Rd. & Ruin Excav. (Bal. as of 4/1/70 = \$4,338)	135.00
12. Zia Laborers (estimated)	1,500.00
13. Zia Riggers (estimated)	6,400.00
14. Cover exposed trash (estimated)	1,600.00
15. Transport Dempster Dumpsters	3,523.00
16. Excavate Pit #6 (Bal. as of 4/1/70 = \$12,982)	2,164.00
17. Perimeter fencing (Bal. as of 4/1/70 = \$8,376; write off @ 1/40 per qtr.)	<u>218.00</u>
Total	\$30,835.00

Cost per yd.<sup>3</sup> this quarter = \$15.00

Xc: by H-1 Group Ofc to:  
W. Kennedy, H-6  
C. Christenson, H-7  
C. Reynolds, ENG-4  
thru: Dr. H. O. Whipple