

OFFICE MEMORANDUM

TO : Dean Meyer, Group Leader, H-1

DATE: 10/17/72

FROM : John Enders, H-1

SUBJECT: SOLID RADIOACTIVE WASTE DISPOSAL REPORT FOR THE THIRD QUARTER OF 1972

SYMBOL : H-1-SRWM-6

This report covers disposal activities for the third quarter of 1972. Some of the data is based on estimates and this fact should be kept in mind if any conclusions are to be drawn from the report.

Information for the report was furnished by the Zia Company, Eng-4, Supply and Property Dept. and Accounting Dept. as well as LA Notebooks # 12442, 17336, 17339, 14909, 17337, 17338, 17845 and 17335.

Beta-Gamma Waste:

Disposal of this type of material continued during this quarter. Classified, contaminated material as well as high level alpha activity was placed into disposal shafts.

A Work Order to have additional shafts drilled is still pending and it is hoped that these shafts will be available very soon as we are running out of space. Also, a Work Order to have filled shafts plugged with cement is still pending and it is hoped that the plugging operation can take place in the near future in order to reduce the gamma radiation flux at ground level on several shafts.

An Engineering study has been started to investigate the possibility of using some type of removable liner in shafts so as to provide a means of more ready retrieval of material should this become necessary.

Low Level Waste:

Pit #5 received six Dempster Dumpsters (4 yd.<sup>3</sup>) full of contaminated (U) graphite. One delivery of drums filled with D-38 from the Shops Dept. and one wood crate were also delivered to pit #5.

Pit #6 was closed out in August, and started to receive a final dirt cover. As this cover is being placed on the pit as a "fill-in" type job, it is taking longer than normal to finish. The three foot deep cover should be completed in October.

Pit #8 had 120 drums stacked on 7/6 and 180 on 8/25. It now appears that the stacking of drums in this pit can be performed about once per month.

Pit #12 received four deliveries this quarter. One plywood crate that had been delivered from TA-49 had to be repaired by the Zia Carpenters.

It would appear that other kinds of containers should be investigated as to their possible use for storage of material in this pit as the plywood does not appear that it will hold up for a period of up to 20 years.

Pit #16 did not receive any material during this quarter.

Pit #17 received its first material on 8/2. Material is being covered on the same day as it is delivered in order to reduce the fire danger potential.

Pit #21 received its first material on 8/16/72. The material is being covered on the same day of delivery in order to reduce fire danger potential.

An Engineering study was conducted in order to determine feasibility and costs for providing cover for those pits used for long term storage. The study indicated that it would be rather expensive to provide covers at this time. Other types of covering material are being investigated.



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Report

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Uranium Waste Volume:

Pit #5

1. Crate
2. Graphite
3. D-38

<u>Total Ft.</u>	<sup>3</sup>
24	
162	
48	
<hr style="width: 100%;"/>	
234 ft.	= pit total

Pit #6

1. Boxes
  2. Loose material
- } lab wastes*

2,790	
1,782	
<hr style="width: 100%;"/>	
4,572 ft.	<sup>3</sup> = pit total

Pit #21

1. Boxes
  2. Loose material
- } lab wastes*

3,047	
4,482	
<hr style="width: 100%;"/>	
7,529 ft.	<sup>3</sup> = pit total

Disposal Shafts

94 ft.<sup>3</sup>

Total volume, U waste = 12,429 ft.<sup>3</sup>

TRU Waste Volume:

Pit #6

1. Plastic bags
  2. Boxes
  3. Loose material
- } less than 10 mci/gm*

1,652	
3,113	
7,506	
<hr style="width: 100%;"/>	
12,271 ft.	<sup>3</sup> = pit total

Pit #8

1. Drums *(decont. sludge from TA 50)*

2,400 ft.<sup>3</sup> = pit total

Pit #12

1. Crates
  2. Drums
- } greater than 10 mci/gm (estimated)*

1,760	
32	
<hr style="width: 100%;"/>	
1,792 ft.	<sup>3</sup> = pit total

Pit #17

1. Plastic Bags
  2. Boxes
  3. Loose material
- } lab wastes  
less than 10 mci/gm*

1,900	
4,112	
4,617	
<hr style="width: 100%;"/>	
10,629 ft.	<sup>3</sup> = pit total

Disposal Shafts: *greater than 10 mci/gm*

39.1 ft.<sup>3</sup>

Total TRU Waste = 27,131.1 ft.<sup>3</sup>

FP/IA Waste volume: 118.2 ft.<sup>3</sup>

Total volume for quarter = 39,678.3 ft.<sup>3</sup>

Disposal Costs:

This quarter, charges for Zia work at Area G are being reported from data furnished by the Accounting Dept. from W/O #6570173, and include wages, overhead, and equipment and material charges. The charge for Health Physics is based on Accounting Dept. information of charges against account code #8501 and includes salary and overhead for two people.

1. Small plastic bags (2,387 X \$0.08)	\$ <u>191.</u>
2. Large plastic bags (887 X \$0.24)	213
3. Cardboard boxes (5,979 X \$0.20)	1,196

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	<u>Total cost</u>
4. Drums, 55 gal.(377 X \$9.88)	\$ 3,725
5. Drums, 30 gal.(16 X \$6.17)	99
6. Crates (4 X \$200)	800
7. Tape (500 rolls X \$1.08/roll)	540
8. Zia Janitor charge	7,859
9. Health Physics	10,941
10. Protective clothing	100
11. Road & Ruin excav.(Bal.=\$2,988)	135
12. Zia Labor and material	4,602
13. Transport Dempster Dumpsters(3,294 mi.X \$1.0872/mi.)	3,581
14. Excav. 5 pits(bal.=\$12,000)	3,000
15. H-1 Vehicles	240
16. H-1 Radios	166
17. Fencing(bal.= \$11,078)	1,218

Third Quarter Total Cost= \$38,606

The cost per cubic foot for the third quarter amounts to \$0.97

1971 = \$0.60  
ave 1967 thru 1971 = 0.51

cc: File

