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OFFICE MEMORANDUM

TO : Dean Meyer, Group Leader, H-1

DATE: July 24, 1970

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

SUBJECT: SOLID RADIOACTIVE WASTE DISPOSAL REPORT FOR THE SECOND QUARTER 1970

SYMBOL : H-1-CMR

1779 Report

This report covers solid radioactive waste disposal activities for the second quarter of 1970. As some of the data presented is based on estimates, 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 L A Notebooks #15953 and #12442.

Beta-Gamma Waste:

This material was delivered to disposal shafts in Area G. Shafts #12 and #13 were plugged during the quarter and #24 and #25 received their limit of fissile material. 20, 55 gallon drums were placed in #34 (6 ft. diam. shaft) by the Zia Riggers.

Three LAPRE tanks were delivered to shafts #36, #37 and #38 on 6/9 by the Zia Riggers. The lifting cables on these tanks were secured above ground as, later on, the tanks may be removed from the shafts. A three foot diameter shafts (#35) was drilled to receive a filter from UHTREX Site, and will probably be delivered during the third quarter.

A request was made to ENG-4 to have a second 6 ft. diam. shaft drilled to receive plutonium contaminated sodium from 10 Site. This material is to be packaged in 55 gal. metal drums and pipe. As of the end of the quarter the shaft had not been drilled. Also, two safety lids were requested for both shafts. ENG-2 and ENG-4 were to design, fabricate and deliver the lids to Area G.



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Beta-Gamma Waste: Cont.:

Ten 2 ft. diam. shafts were drilled in June as it is anticipated the additional shafts will be needed in order to start segregation of uranium materials as per a recent AEC Directive.

An S.O.P. for disposal of small items contaminated with Tritium was prepared and approved in April. Wherever possible, tritium contaminated material is to be encased in asphalt. H-7 Group now has an asphalt melter and performs the encasement. The encasement procedure was started as a result of studies made by H-7 that indicated asphalt to be a good barrier to tritium.

Low Level Waste:

Routine low-level waste and contaminated scrap material was delivered to pit #6. Exposed waste was covered twice during the quarter. One out-of-town shipment was received, off-loaded and buried without incident.

One recovery operation occurred which involved retrieval of several pallets of lead brick that had inadvertently been delivered to pit #6 instead of TA-50 Decontamination Lab.

<u>Volume</u>		<u>yd.³ (Total)</u>
1. Small Pl Bgs	(1,857 X 0.337 yd. ³)	69
2. Large Pl Bgs	(899 X 0.46 yd. ³)	414
3. Boxes	(7,089 X 0.087 yd. ³)	617
4. Drums	(308 X 0.3 yd. ³)	92
5. Misc. Scrap	(Estimated)	<u>1,424</u>
		(70, 632 ft. ³) or 2,616 yd. ³

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Disposal Costs:

1. Small pl Bgs.	(1,857 x \$0.08)	148
2. Lg. pl Bags.	(988 x \$0.24)	216
3. Boxes	(7,089 x \$0.19)	1,347
4. Drums	(308 x \$8.60)	2,649
5. Tape	(500 rolls @ \$1.00/roll)	500
6. Zia Janitors		7,850
7. H-1 Vehicles		240
8. H-1 radios		166
9. H P S		2,625
10. Pro. cloth.		50
11. Rd. & Ruin excav.	(Bal as of 6/30 = \$4,203)	135
12. Zia Labor	(Estimated)	1,792
13. Zia Riggers	(Estimated)	1,500
14. Cover exp trash	(Estimated)	1,800
15. Transp. D. D.	(3,719 miles @ \$1.0799/mile	4,016
16. Excav Pit #6	(Bal. as of 6/30 = \$10,818)	2,164
17. Fencing	(Bal. as of 6/30 = \$8,158)	218
18. Drill 10 (2 ft. diam.) shafts	(Estimated)	600
19. Drill one (6 ft. diam.) shaft		900
	TOTAL	<u>\$28,916</u>

Cost per cubic yard = \$11.00 or \$0.41 per cubic foot


 John Enders

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 Dr. Voelz, H-DO
 C. Christenson, H-7
 W. Kennedy, H-6
 C. Reynolds, ENG-4

JE/skv

xc: File