

ARMY SERVICE FORCES
UNITED STATES ENGINEER OFFICE
TONAWANDA AREA OFFICE
P. O. BOX 8
KENMORE, N. Y.

IN REPLY
REFER TO

EIDM T-22
W-7401 eng-14

29 November 1945

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NY 003-3

0-7355
2.23.10
2.23.8
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2.21.0

Subject: Comments on Residues and By-Products.

MEMORANDUM FOR: Files.

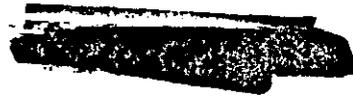
1. The attached list of Mx containing scrap is a revision of the data originally drawn up by Lt. Anderson on 6 April 1945. The additional figures were obtained from the LAP Production-Accounting Department and the Ceramics Plant Material Balance reports. A revision of the original list has become necessary due to the elimination of many items through transfer or consumption in Step I. In addition, new residues have accumulated during the past six months and should be placed on the by-product list.

a. Item 1 -- Barrels and drums stored in the Baker-Smith area are rapidly deteriorating, and it is estimated that by the summer of 1946 a large amount of the material will have to be rebarrelled if the sludge is to be moved. Identification markings on the barrels are largely obliterated, hence, any transfer by lot numbers is impossible. A total of 77 barrels of the sludge were shipped out of the Area on 8 November 1945 to the Middlesex Warehouse.

b. Items 2 and 3 -- Storage conditions for these two items continue to be good. A minimum of leakage from the reservoirs has been noted and indefinite storage is possible.

c. Items 4, 5, and 6 -- In a letter of 21 May 1945 from the Madison Square Area signed by Mr. Belmore, authority was granted to feed the ashes and remaining L-30 ore to Step I combining the tails with those already stored at L.O.O.W. This procedure can easily be carried out during the period of R-10 processing as sludge trucks will be making regular trips to the Modeltown storage area.

CLASSIFICATION CANCELLED
OR CHANGED TO
BY AUTHORITY OF *DA*
BY *MAW* DATE *1/72*



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d. Item 7 -- The single drum located at the Utica Street Warehouse resulted from experimental work at the Proving Laboratory. A total of 30-35,000,000 pounds of sludge will be deposited on the ground in the L.O.O.W. area by the summer of 1946.

e. Item 8 -- This is the first of the bags that will be received during R-10 processing. The bags will probably be burned upon being emptied and the ashes fed immediately to Step I concurrent with R-10 processing. It is estimated that approximately 2,500 bags per day will be consumed in the incinerator throughout the first half of 1946.

f. Item 9 -- These containers are apparently in fair condition although identification marks have become somewhat illegible on some of the barrels.

g. Items 10 and 11 -- Chemical action from these two materials will make it necessary to rebarrel a large part of the P-56 and P-58 before any shipment can be made. Identification marks are also being lost on the barrels, and occasional checks should be made for relettering of any containers upon which readings are difficult to secure. In the letter mentioned under (c) above, instructions were to hold these two materials until disposition by higher authority had been arranged.

h. Item 12 -- The two barrels are segregated from L-30 sludge at L.O.O.W. and appear to be in good condition.

i. Item 13 -- These ashes have been recovered during the past two years in the burning of material in the outside incinerator during which time Mx containing scrap constituted a portion of the feed. The material was stored at the Utica Street Warehouse and during October and November has been brought back to Step I for feed to the digest system.

j. Items 14 and 15 -- It is possible that a portion of this material could be reslurried in Step I during R-10 processing. As all the sludge is segregated, it would be comparatively easy to load the material for return to Ceramics. The reslurrying should reduce the content to .5%, therefore, a substantial quantity of Mx would be recovered.

k. Items 16 and 17 -- At the completion of the domestic ore processing, approximately 12,000,000 pounds of sludge and 1,800,000 pounds of P-78 will have accumulated on the Haist Property. The iron cake contains approximately 6% V_2O_5 , hence, the total vanadium present will be in the neighborhood of 100,000 pounds.

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1. Item 18 -- Disposal of this material is complicated by the fact that 40% of the material consists of nickel powder. This scrap has been recovered in Step II from the end of P-65 processing through temporary MA production. It is possible that a processing procedure could be set up in Step I although extreme care would be necessary utilizing the standard methods now in use.

2. It is suggested that investigations be made toward disposal of scrap such as P-54, P-56, P-58, and the Step II residues, or if storage is necessary, that arrangements be made for transfer to a permanent Government warehouse. The situation at present curtails L.A.P. Ceramics storage facilities and deterioration of containers over a period of time will necessitate considerable cost for re-barreling.

Berwyn M. Robinson

BERWYN M. ROBINSON,
Engineer (Chemical)

RESIDUES AND BY-PRODUCTS CONTAINING Mx
 FROM LAP (CERAMICS)

<u>Item No.</u>	<u>Material</u>	<u>Location</u>	<u>Weight</u>	<u>% Mx308</u>	<u># Mx308</u>	<u>No. & Type Containers</u>
1.	L-30 Sludge (barrelled)	L.O.O.W.	2,579,232 dry	.50	12,966	Wooden bbls and steel drums.
2.	L-30 Sludge (bulk)	L.O.O.W.	14,941,018 dry	.34	50,246	Stored in one-half of concrete reservoir.
3.	L-50 Sludge (bulk)	L.O.O.W.	3,529,646 dry	.21	7,474	Stored in two concrete reservoirs.
4.	L-30 ore.	<u>Utica St. Warehouse</u>	850 dry	11.93	101	One steel drum.
5.	L-30 incinerator ashes from bags.	<u>Utica St. Warehouse</u>	65,025 net		4,931	Approx. 300 steel drums. (3,888 lbs. Mx308 credited to L-30)
6.	L-50 incinerator ashes from bags.	<u>Utica St. Warehouse</u>	6,210 net		299	46 steel drums.
7.	R-10 Sludge.	L.O.O.W.	244,609 net	.16	196	Stored on ground at L.O.O.W. (drum at <u>Utica St. Warehouse</u>)
8.	R-10 Bags (4,950)	Ceramics	1,200 est.	3.35	40	Piled awaiting consumption in incinerator.
9.	Lead Cake P-54	<u>Utica St. Warehouse</u>	74,512 dry	1.00	745	291 barrels.
10.	Lead Sulfate (P-56)	<u>Utica St. Warehouse</u>	25,272 net	1.00 est.	177	30 wooden barrels. (Containers poor condition due to acid nature of material)

RESIDUES AND BY-PRODUCTS CONTAINING Mx
FROM LAP (CERAMICS)
(Continued)

<u>Item No.</u>	<u>Material</u>	<u>Location</u>	<u>Weight</u>	<u>% Mx308</u>	<u># Mx308</u>	<u>No. & Type Containers</u>
11	Lead Vanadate (P-58)	<u>Utica St.</u> Warehouse	115,097 dry	2.10	2,417	228 wooden barrels. (Containers in poor condition due to acid nature of material)
12.	My Cake	L.O.O.W.	763			One 48-gallon bbl and one 5-gal. container.
13.	Outside Incinerator Ashes.	Step I				Ashes being fed to Step I with all being consumed by 15 Dec. 1945.
14.	Sludge from Pilot Plant.	Haist Property	268,172 dry	1.20	3,105	Segregated in separate pile.
15.	L-19 Sludge (1943)	Haist Property	1,361,000	1.20	16,374	Segregated in separate pile.
16	L-19 Sludge (1944 & 1945)	Haist Property	9,974,178 dry (As of 11/1/45)	.46	45,882	
17.	Iron Cake (P-78)	Haist Property	1,500,636 dry (As of 11/1/45)	.83	12,500	Segregated.
18.	Step II Sewer Cake	<u>Utica St.</u> Warehouse	68,765 net	6.5	1,813 (approx.)	208 drums.