

NY 10-9 26
NY 10
686

Office Memorandum • UNITED STATES GOVERNMENT

TO : F. R. Dowling, Director, Feed Materials Division DATE: May 29, 1956
Oak Ridge Operations Office

FROM : F. W. Malone, Chief, Niagara Falls Branch

12.0 Acres of land
46 ft. wide

SUBJECT: REMOVAL OF WASTE AT HAIST PROPERTY

SYMBOL: NFB:FWM

The following information is being passed along in the event you want to reconsider the disposition of Haist Property. From the enclosed newspaper clippings it would appear that the appraised value of the Haist Property could be considerably increased because of local real estate activity in that area. The appraised value is now estimated to be substantially higher than that previously reported to you by the U. S. Engineers Office. I would venture to say that the current appraisal could be somewhere around \$2,000.00 to \$3,000.00 an acre. The increase being due mainly to the fact that our property is now ideally located between land owned by the Kennecott Copper Company on the east and the Frontier Oil Company on the west and suitable for facility expansion by either company. I might add at this time that I am aware of the Government's procedure for disposing of real property and as such recognize the fact that disposition by other than public sale is feasible and possible. However, for purpose of this memorandum I am assuming the possibility of eventual disposition of this land by public sale.

The Government acquired Haist Property back in August, 1944 for \$700 an acre or a total of \$7,000 for ten acres in addition to a perpetual Easement right to a strip of land, ten feet wide and 3600 feet long or a total of 4.6 acres. Easement rights were acquired for this particular piece of land so as to provide access to the ten acres used for the storage of residues. It would appear that Easement rights to the roadway could have considerable value in the transferring or disposing of the other ten acres since we have spent considerable funds in constructing a road bed that could be used for access to the surrounding areas of land. This road could be particularly useful during construction periods.

I don't believe that we here at Niagara Falls have sufficient information to wholeheartedly recommend disposal of the Haist Property without first conducting some sort of engineering survey that would provide answers to such questions as:

PLANTS, LAES., BUILDINGS & LAND

This material contains information affecting the national defense of the United States within the meaning of the Espionage Laws, Title 18, U.S.C., Sec. 793 and 794, and the transmission or revelation of its contents in any manner to an unauthorized person is prohibited by law.

in person
Advised that...
of... a... in ag

SPECIAL REVIEW
FINAL DETERMINATION
DECLASSIFIED
By: KAW/ab/so
Date: 10/6/80

Discussed with Dowling
who felt continued storage (continued)
at Haist is more feasible
and economic & better return on
S.O. would be with

May 29, 1956

1. The specific density of the remaining material.
2. Depth to which the underlying soil would have to be removed in order to eliminate or reduce radioactive hazards.
3. Cheapest and best storage for residues at the Niagara Falls Site.
4. Determine cost for loading and trucking of material to the Niagara Falls Site.

It is hoped that the following information will also help you in arriving at a decision as to whether money should be spent to conduct a survey at this time.

1. The material stored at the Haist Property ten acre plot is comprised of low grade Western Ore Tailings from Linde Air Operations. The material has been dormant since 1944. The inventory figures have been compiled by book records since it is impossible to take a physical inventory as the material is stored on the ground. A breakdown of this material in description and quantity is as follows: (Taken from SS Accountability Records.)
 - A. P-78 Iron Cake -- This material was a by-product of Western Ore Processing during 1944-46. Ferric and ferrous sulfate added to Moore filtrate for removal of phosphorous and vanadium. Total material at Haist Property is 852,443 kgs containing 6,372 kgs of metal.
 - B. L-19 Sludges -- 1943 Western Ore (V.O.C.) tailings from Moore filters. This is 604,178 kgs of material and 6,334 kgs of metal. This material is segregated in small piles throughout the area.
 - C. L-19 Sludges -- 1944-45 - Moore sludge from Western Ores (BJ, B, Iron Box Sludges) processed during 14-month period beginning December 1944. Storage covers greater

(continued)

Special Review
Final Determination
Unclassified
By: K. A. Walter
Date: 1-22-82
T. F. Davis

May 29, 1956

portion of Haist area. 5,826,320 kgs of material and 24,961 kgs of metal.

- D. Pilot Plant Sludges -- Western Sludge and miscellaneous residues originally adjacent to L.A.P. Pilot Plant produced during early experimental work and production on contracts by L.A.P. Research Group. Transferred to Government in 1945 at no cost. There is 121,640 kgs of material; 1,194 kgs of metal.

From the above you can see we are suppose to have somewhere around 16,290,078 pounds and assuming the material contains about 50% moisture and weighs about 85# per cu. ft., about 7200 cu. yds.

- 2. Informal estimate of costs to load-haul residues from Haist to Niagara Falls Site.

- A. Estimate received from local trucking firm for loading and hauling residues to Niagara Falls Site, approximately 25 miles.

\$2.50 per cu. yd. -- \$16,000.00

7200 cu. yd. @ 2.50/cu. yd. = \$18,000

- 3. Informal estimate of costs for storage on ground at Niagara Falls Site, inside fenced and guarded area.

- A. Acquisition of land -- -0-
- B. Construction of dykes and storage area. Area required, approximately 3 feet deep [400 feet x 500 feet or 22,200 sq. yds.] (will not need extra room for spreading as was necessary at Haist) grading and rolling, rental of grader, 6 inch slag covering for poor weather dumping, bulldozing sludge into piles. \$5000.00
Contingency -- 1000.00
Total \$6000.00

(continued)

Special Rereview
Final Determination
Unclassified
K. E. Walter
1980
F. Davis

May 29, 1956

4. Informal estimate for inside storage at Niagara Falls Site.

- A. Storage in half of concrete reservoir where L-30 sludge is now stored, 200 feet x 88 feet x 19 feet at 87% capacity of which 75% of this space would be available or 9488 Cu. Yds.
- Concrete Storage (accelerator) 1265 Cu. Yds.
- Total 10753 Cu. Yds.

Material available for storage is approximately 7200 cu. yds., therefore, these buildings are satisfactory. Survey will indicate if additional material will have to be stored inside.

- B. (1) Construction of ramps to storage buildings including fill for ramps. \$5000.00
- (2) Close openings in buildings. 500.00
- (3) Provide openings in buildings for dumping. 500.00
- (4) Removal of middle walls, cleaning out, remove water, etc. 1000.00
- (5) Construct retaining walls to separate Haist sludge from L-30 sludge already stored in portions of the building and retaining walls to separate different Haist sludges. 12000.00
- (6) Contingency 2000.00
- Total \$21000.00

Minus \$9000.00 if natural material can be mixed with L-30.

9000.00
\$12000.00

Encl.

Special Review
Final Determination
Unclassified
By: K. A. Walter
Date: 1.5.78

D. F. Musser, Director, Division of Nuclear
Materials Management, Washington

May 29, 1957

58
27

S. R. Sapirie, Manager
Oak Ridge Operations

LOW GRADE URANIUM RESIDUES STORED AT THE NIAGARA FALLS SITE, NEW YORK

SYMBOL: OPA:REX

Since our last SS accountability surveys conducted on June 15, 1956, of Station TOA, USAEC Storage Site, Model City, N. Y., and Station HEC, Hooker Electrochemical Company, located at the Niagara Falls Site, New York, there has been no change in the reported quantities of uranium scrap on hand.

As you are aware, both stations are storage areas for material consisting largely of residues of doubtful economic recovery value. This low grade uranium bearing sludge and residue resulted from ore processing under the New York Operations Office in prior years. Some of the material is Commission-owned and some held in trusteeship for African Metals, Inc. A sampling program conducted in 1952 under the direction of the New York Operations Office was the basis for the estimated uranium content of the material.

In view of the status of this material, it is our opinion that from the economic standpoint, it would not be justifiable to survey the aforementioned stations for the current fiscal year.

Unless we hear from you to the contrary, we will not schedule stations HEC and TOA for surveys.

The following statements reflect the inventories at Stations HEC and TOA as of April 30, 1957:

Station HEC - Hooker Electrochemical Co., Niagara Falls, New York

Composition of Ending Inventory, April 30, 1957

A. Held in Trusteeship for African Metals, Inc.

	<u>Type of Material</u>	<u>SS Net Kgs.</u>
1.	Sludge from 10% African Ore (L-30) ✓	24,946
2.	Sludge from 6% African Ore (L-50) ✓	2,872
3.	Sludge from African Ore (F-32) ✓	1,134
4.	Residue from African Ore (K-65) ✓	4,992
→ 5.	Lead Sulfide Residue from African Ore (P-54) ✓	287
		<u>34,231</u>

May 29, 1957

Station HEC - (Continued)

B. Commission Ownership

<u>Type of Material</u>	<u>SS Net Kgs.</u>
1. C-Slag	18,132 → To 7-12
2. C-4 Graphite	104 → To 7-12
3. R-10 Sludge	15,241
4. R-10 Iron Cake	1,171
→ 5. Lead Vanadate Residue (P-58)	920
→ 6. Lead Sulfate (P-56)	68
7. Chemical Sand	87
8. Ore Residue (from MVM)	11
9. Miscellaneous Sludges (from MSA)	2
	<u>35,736</u>
Total	<u>69,967</u>

Station TOA - USAEC Niagara Falls Site - New York

(HAIST) Composition of Ending Inventory April 30, 1957

<u>Type Of Material</u>	<u>SS Net Kgs.</u>
1. Iron Cake (P-78)	6,370
2. Residue (L-19)	24,962
3. Sludge (MX)	1,194
4. Moore Tailings	6,335
	<u>38,861</u>
Total	<u>38,861</u>

S. R. Sapirie

CC: N. H. Woodruff
 J. W. Ruch
 E. J. Bloch, Washington