

Appendix 12-A
File Index (Part 4)

61223. Sweeney, 1958, *KAPL Wastes*, correspondence to F. W. Malone; J. D. Sweeney; March 25, 1958, p. 27
61223. Hanner, 1958, *Disposal of KAPL Wastes*, conference notes; J. L. Hanner; April 7, 1958, pp. 34-35
61223. Sapirie, 1958, *Telephone Conversation About Burning KAPL Wastes*, correspondence to Walter Beanblossom; S. R. Sapirie; April 18, 1958, pp. 40-41
- 61958, p. 2. Koenig, 1952b, *Shipment of Long Billets to Lake Ontario Storage Area*, correspondence to Geraldine Hughes; James Koenig; February 11, 1952
- 61958, Smith, 1958, *Weekly Progress Report for February 7, 1958*; R. J. Smith; February 11, 1958, p. 3.
61961. Pp. 8-13. LOOW, April 1952, *Tonawanda Area Progress Report; Lake Ontario Ordnance Works (LOOW)*; April 1952
63874. Koenig, 1952a, *Shipment of Long Billets from Bendix*, correspondence to J. P. Morgan; 1952
66860. LOOW, January 1952, *Tonawanda Area Progress Report for January 1952*; Lake Ontario Ordnance Works (LOOW); January 1952
66862. LOOW, March 1952, *Tonawanda Area Progress Report for March 1952*; Lake Ontario Ordnance Works (LOOW); March 1952
66863. LOOW, November 1951, *Tonawanda Progress Report for November 1951*; Lake Ontario Ordnance Works (LOOW); November 1951

61223

**Sweeney, 1958, *KAPL Wastes*, correspondence to F. W. Malone; J. D. Sweeney;
March 25, 1958, p. 27**

PLANT'S AREA, BUILDINGS & LAND - A
KAPL

In Reply
Refer to: CF:FWM

P. O. Box 338
Niagara Falls, New York

January 7, 1958

Mr. J. D. Smeney
Department Head - Plant 31
Hooker Electrochemical Company
Model City, New York

Subject: SHIPMENT OF SCHEENCTADY WASTES TO OAK RIDGE

Dear Sir:

We would appreciate your assistance in the preparation and loading of the subject wastes. As you know, this material is contained in sealed metal drums and should not provide any radiation hazards from spillage. In order to insure the safe delivery of these drums to Oak Ridge, it is requested that the regular carbon steel drums be placed in an over-sized drum with cover attached. It was recognized that since you do not normally handle or ship radioactive materials; competent guidance in the preparation of these shipments is necessary, therefore, you have been provided with all the AEC regulations pertaining to the handling and shipping of radioactive material and in addition you were personally instructed in the use of radiation monitoring instruments in your recent visit to the Health Physics Division of our New York Operations Office.

In order to provide on the spot guidance to you in the handling of these materials, we have requested and been assured by our AEC Schenectady Office that one of their contractor's health physicists will be present while you are preparing and loading this material for shipment. This person will be able to provide you with the necessary information regarding the dosage levels pertaining to the shipments by railroad cars and trucks and will provide you with the necessary placards. You can rest assured that any information or assistance required by you from a health, safety, standpoint will be available at all times.

Very truly yours,

F. H. Malone
U. S. Atomic Energy Commission
CHIEF, NIAGARA FALLS BRANCH

OFFICE >				
SURNAME >	Do	Mr. J. D. Smeney		
DATE >				

Office Memorandum • UNITED STATES GOVERNMENT

3694

TO: K. E. Fields, General Manager

DATE: JAN. 10 1958

THRU: A. Tammaro, Asst. Gen. Man. for Res. & Dev.

FROM: W. Kenneth Davis, Director

Division of Reactor Development

19

SUBJECT: REQUEST FOR APPROVAL OF LOAN OF AEC-FURNISHED MATERIALS TO EDUCATIONAL INSTITUTIONS

SYMBOL: RD:EDB:GVP

The universities and colleges listed in the attachment to this memorandum have requested the loan of the corresponding amounts of source and special nuclear material. I am submitting this list of requests to you for your consideration in accordance with AEC 267/42 which authorizes you to approve the loan of AEC-furnished materials to non-profit educational institutions.

In authorizing you to approve these loans to schools the Commission requested you to establish limits on the amounts that may be loaned. An action staff paper recommending such limits was submitted to the Secretary on January 3. The total amounts of source and special nuclear material loaned to educational institutions in FY 1958, including those submitted in my memorandum to you dated September 13, 1957, which you approved, and the amounts in the attachment to this memorandum, are within the recommended limits in the staff paper referred to above.

All of the institutions in the attachment are qualified under the AEC educational assistance program to receive the loan of materials requested. They will be advised that they must possess the appropriate licenses as required before the materials are released to them. Therefore, it is recommended that you approve the loan of the indicated amounts of source and special nuclear material to the respective educational institutions listed in the attachment.

Attachment:
List of educational institutions requesting the loan of AEC-furnished material.

Approved Subject to Commission Approval of "Limits" Paper

K. E. Fields

1/28/58

K. E. Fields, General Manager

(Date)

MATERIALS 3-1
FMD

RECEIVED
U. S. Atomic Energy Commission
Office of the General Manager

JAN 11 1958
A.M. P.M.
7 8 9 10 11 12 1 2 3 4 5 6

EDUCATIONAL INSTITUTIONS REQUESTING THE LOAN OF AEC-FURNISHED MATERIAL

<u>Institution</u>	<u>Natural Uranium, Kg.</u> (Metal slugs for sub-critical assemblies unless noted)	<u>Plutonium gms.</u> (for Pu/Be neutron source)	<u>Contained U-235 gas.</u> (training reactor cores.)
University of Arizona		16	700
Case Institute of Technology		33	
Columbia University	2500	80	
University of Delaware		16	700
Fairleigh Dickinson University		16	
Georgia Inst. of Technology	50(1)		
Haverford College		16	(2 gms requested)
State University of Iowa	1418	80	
Lehigh University	1820	80	
University of Michigan	2500	80	
University of Minnesota	100(2)		
The University of Missouri School of Mines & Metallurgy			4,000
The Ohio State University		16	4,000
Oregon State College			700
The Pennsylvania State University			4,000
Purdue University	2500	80	
San Diego State College		32	
Tufts University	1(1)	16	
Utah State Agricultural College		16	
Virginia Poly. Institute	50(1)		

(More)

* U. of Michigan was included in AEC 267/42.

Wayne State University	1820	80	
University of Wyoming		16	700

Notes:

- (1) This material is requested for metallurgical, chemical separations studies, etc.
- (2) The University of Minnesota has requested 100 Kg. additional natural uranium in the form of metal slugs. They obtained 2400 Kg. of natural uranium slugs under General Manager approval of institutions included in AEC 267/42.



E. I. DU PONT DE NEMOURS & COMPANY
INCORPORATED
WILMINGTON 98, DELAWARE

DPW-58-114

- 1 - D. B. Metz, SylCor
- 2 - H. Worthington - J. C. Woodhouse
- 3 - A. C. Dutton
- 4 - R. R. Herries
- 5 - W File

EXPLOSIVES DEPARTMENT

January 20, 1958

Mr. D. B. Metz
General Manager, Production
Sylvania-Corning Nuclear Corp.
Cantiague Road
Hicksville, Long Island, New York

This document consists of _____ pages
No. 5 of 5 copies of Series a

Dear Mr. Metz:

This letter will confirm our telephone conversation of January 17, during which I requested that SylCor provide us the following:

1. A cost estimate for cladding Mark VA elements by the single can method at the rate of 950 tons/year acceptable product (with new investment required).
2. A cost estimate for cladding Mark VII-A elements at the rate of 1900 tons/year acceptable product (with new investment required).
3. A tabulation of the following for the period June, 1956 to the present time.

<u>Month</u>	<u>Slugs Shipped to SROO</u>	<u>Slugs Recovered</u>	<u>Reject Slugs Received from SROO</u>
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I would appreciate your sending me three copies of this information when it is available.

WSRC DECLASSIFICATION REVIEW	
1st Review Date: <u>4/22/04</u>	Determination (Circle Number)
Authority: <input type="checkbox"/> ADC <input checked="" type="checkbox"/> ADD	1. Classification Unchanged
Name: <u>R. Herries</u>	2. Classification Changed To:
2nd Review Date: <u>4/22/04</u>	3. Classification Cancelled
Authority: <u>ADD</u>	4. Other:
Name: <u>R. Herries</u>	

Yours very truly,

ATOMIC ENERGY DIVISION

Ralph R. Herries

Ralph R. Herries
Technical Division

RRH/jss

*CG-NMP 2
9/00*



11-26-86

2.14.5
2.23.28

ORIGIN

Oak Ridge, Tennessee
January 23, 1958

Mr. Richard Coyle
Procurement Supervisor
Cornell University
Laboratory of Nuclear Studies
Ithaca, New York

Subject: LICENSE NO. C-3513, CORNELL UNIVERSITY, FORM AEC-437
IDENTIFICATION NO. 7000 - C-3513

Dear Mr. Coyle:

Reference is made to your letter of December 13, 1957, concerning procurement of 20 kg. of normal uranium metal in the form of three reject ingots.

Enclosed, for your use in ordering the desired material, are four partially completed copies of the Source Material Order Form. Please complete, sign, and mail the original and two copies to:

U. S. Atomic Energy Commission
Post Office Box 128
Mt. Healthy Station
Cincinnati, Ohio
Attention: C. L. Karl

Upon receipt and acceptance of these forms, Mr. Karl will arrange to have the material shipped f.o.b. Cincinnati, Ohio. The cost of the metal will be based on the established price of \$13.00 per kg. of contained uranium. This price does not include the cost of special handling or transportation. You will be billed for the actual amount of material shipped by the National Lead Company of Ohio. It is understood that this material will be shipped to the Metals & Controls Corporation for fabrication into uranium blocks.

For further information concerning this material, you may contact Mr. Karl directly.

Very truly yours,

ORIGINAL SIGNED BY
ALICE M. CORLEY

Alice M. Corley
Chief, Research Services Branch
Research and Development Division

Enclosure:
SM Order Form (in quad.)

cc: C. L. Karl, Ohio
L. B. Mackay, w/cy of encl.
C. H. Keller, w/Form AEC-437 (2)
J. A. Koch

Res.Serv.Br.

Mahon:ls

RECEIVED

451

2.23.28

OPS:46M

Oak Ridge, Tennessee
January 31, 1958

Cornell University
Laboratory of Nuclear Studies
Ithaca, New York

Attention: Mr. W.D. Rogers
Manager of purchases

Subject: LICENSE NO. C-3513, CORNELL UNIVERSITY, FORM AEC-137,
IDENTIFICATION NO. 7000-C-3513

Gentlemen:

Reference is made to my letter to Mr. Richard Coyle dated January 23, 1958, subject as above, and to your Purchase Order No. 64094.

In my letter of January 23, we forwarded to Mr. Coyle the necessary Source Material Order Forms for the 20 kg. of normal uranium metal. This metal will be supplied by our Fernald Area Office. We are, therefore, returning your Purchase Order No. 64094, the Forms AEC-391, and the copy of License No. C-3513, Amendment No. 2, which you submitted for this material.

On the purchase order, we noted that you listed the following specifications for the normal uranium ingots:

1 ingot - 3 1/8" x 1 1/6" - 1 1/8" x 12"

1 ingot - 5/8" x 3 1/8" x 6 1/4"

1 ingot - 3/8" x 3 1/8" x 6 1/4"

When we determined that the ingots were available for shipment from Fernald, we did not request any specific specifications for them since we did not receive any from Mr. Coyle. If you desire that these

MATERIALS

Cornell University

-2-

January .

specifications be met, we may do so; however, Cornell will be held responsible for such work in accordance with the AEC's policy of full-cost recovery.

If you have any questions concerning the material, you may contact Mr. C. E. Karl, our Fernald Area Office Manager.

Very truly yours,

ORIGINAL SIGNED BY
ALICE M. CORLEY

Alice M. Corley
Chief, Research Services Branch
Research and Development Division

Enclosures

- 1. P. O. No. 64094
- 2. Form No. 391
- 3. License No. C-3513

cc: C. E. Karl, Ohio
 J. [unclear]
 L. [unclear]

Ser. Br.

ckm

Knolls Atomic Power Laboratory
 Schenectady, New York

January 29, 1958

Mr. E.J. Witkowski
 Oak Ridge National Laboratory
 Oak Ridge, Tennessee

Gentlemen:

Subject: Radioactive Waste Shipment from Model City, New York

Continuing our telephone conversation of January 29, 1958 attached is a list of items which Hooker Electrochemical Company is including in the three (3) carload shipments of radioactive waste material scheduled for shipment on January 31, 1958.

Mr. F.M. Malone, Chief AEC Niagara Falls Branch will advise you by phone exactly what day the shipment will leave Model City, New York. In addition, he will make arrangements to route the waste shipment to the K-12 siding on the I & N railroad as per your request.

In the very near future (six to eight weeks) the Hooker Electrochemical Company personnel are planning to incinerate KAPL's combustible waste now in storage at Model City, New York. The ashes and the misc. non-combustible materials will be packaged to meet I.C.G. regulation and be included in the next waste shipment to Oak Ridge.

As in the past, a list of materials including dose rates, description and weights that will be put into each box car will be forwarded to you with our shipping documents. In addition, an itemized list of materials will be tacked inside of each box car shipped to assure for continued safe handling of our loadings and for your guidance at Oak Ridge burial grounds.

KAPL and the Hooker Electrochemical Co. appreciate your cooperation and trust that this shipment will run as smoothly as the past operations. If Oak Ridge has any questions regarding the plan or schedule, please do not hesitate to advise this section.

Very truly yours,



D.A. Manieri, Foreman
 Radioactive Waste
 OPERATION & MAINTENANCE

Drafting
 Attachments

Distribution
 H. E. Eckenberg - SOO
 W. G. Kelly - KAPL
 G. L. Hirschman - AEC, D.C.
 W. B. H. H. - KAPL

B. Ball - SOO
 A. A. Schoen - Oak Ridge OO
 E. Gherubln - KAPL
 H. Halduff - Oak Ridge OO

F. W. Malone AEC Niagara Falls
 J. D. Sweeney Hooker Co.
 J. Banner Hooker Co.

Identification

Since some of this material has been in storage since 1952, we have re-surveyed and color coded radiation readings on each container for your guidance.

Yellow - Y - indicates maximum reading 50 mr/hr.

Blue - B - indicates maximum reading 200 mr/hr.

Red - R - indicates maximum reading 1000 mr/hr.

Readings greater than 1 R/hr. have been identified in Red by the actual radiation readings on container.

All containers are palletized and banded four to a pallet.

Materials:

Miscellaneous Scrap is composed of materials contaminated with low level fission products, such as air filter, glass, metals, wood and all materials that cannot be banded.

Light and light are composed of dry waste, such as paper, rags, floor sweepings, clothes, bedding, etc., contaminated with low level fission products.

Solid is composed of high level fission products and includes both miscellaneous scrap and banded materials.

FU Vap is composed of all materials contaminated with FU. This type of waste is put in one gallon cans and then into drums.

Slurry is composed of evaporator bottoms, neutralized and contaminated with high level fission products.

Oil is composed of degreasing fluid and cutting oils, contaminated with low level fission products.

11/2/52

1-2-00
76-5

505

RADIOACTIVE WASTE
MATERIAL IN BOX CAR

APRIL 20, 1992

192 drums

<u>ITEMS</u>	<u>DESCRIPTION</u>	<u>MATERIAL</u>	<u>MAX. DOSE RATE</u>	<u>MAX. WEIGHT</u>
9 - Pallets	55 gal s/s Drums	Slurry	50 mr/hr	2600#/Pallet
2 - Pallets	55 gal s/s Drums	Slurry	50 mr/hr	2000#/Pallet
1 - Pallet	55 gal s/s Drums	Slurry	100 mr/hr	1000#/Pallet
1 - Pallet	55 gal s/s Drums	Slurry	80 mr/hr	1000#/Pallet
1 - Pallet	55 gal s/s Drums	Slurry	95 mr/hr	2000#/Pallet
1 - Pallet	55 gal s/s Drums	Pu	40 mr/hr	1000#/Pallet
3 - Pallets	55 gal s/s Drums	Slurry	25 mr/hr	2300#/Pallet
6 - Pallets	55 gal s/s Drums	Slurry	40 mr/hr	2000#/Pallet
24 - Pallets	55 gal s/s Drums	Slurry	80 mr/hr	2000#/Pallet

73600
104,600

All Drums are palletized and banded four to a pallet.

All Drums are identified as follows:

Yellow - "Y" indicates maximum reading of 50 mr/hr average readings on above drums < 10 mr/hr.

Blue - "B" indicates maximum reading of 200 mr/hr average reading on above drums 60 mr/hr.

Red - "R" indicates maximum reading of 1000 mr/hr average reading, 300 mr/hr.

Maximum radiation reading on drums in this car 100 mr/hr S2".

Slurry Material - Contains evaporator bottoms from KAPL Liquid Waste Process.

Pu - Is packaged into 1 gallon paint cans, and placed into carbon steel drums.

Monitoring Results:

External Radiation

10 mr/hr at 12 ft. from outer surface of box car.

10 mr/hr at 5 ft. from ends of box car.

D. A. Manfieri
D. A. Manfieri

RADIOACTIVE WASTE MATERIAL
IN BOX CAR #ATMX 203
DISPOSAL AT ORNL

<u>ITEMS</u>	<u>DESCRIPTION</u>	<u>MATERIALS</u>	<u>MAX. DOSE RATE</u>	<u>MAX. WEIGHT</u>
5 - Pallets	65 gal-s/s	Slurry	20 mr/hr	2800#/pallet
13 - Pallets	55 gal-c/s	Oils	10 mr/hr	2000#/pallet
7 - Pallets	55 gal-s/s	Slurry	500 mr/hr	2000#/pallet
4 - Boxes	4' x 3' x 2'	Misc. Scrap	6 mr/hr	300#/Box
1 - Pallet	55-c/s	Solid Waste	3000 mr/hr	1000#/pallet
1 - Pallet	55-s/s	Slurry	800mr/hr	2000#/pallet
2 - Pallets	65-c/s	Misc. Scrap	30 mr/hr	2000#/pallet
5 - Pallets	55 gal-s/s	Slurry	500 mr/hr	2000#/pallet
2 - Pallets	30 gal-s/s	Slurry	25 mr/hr	2000#/pallet
1 - Pallet	55 gal-s/s	Slurry	250 mr/hr	2000#/pallet
7 - Pallets	55 gal-s/s	Slurry	200 mr/hr	2000#/pallet
2 - Pallets	55 gal-s/s	Slurry	50 mr/hr	2000#/pallet

50
Monitoring Results:

External Radiation

10 mr/hr at 12 ft. from outer surface of box car.

10 mr/hr at 5 ft. from ends of box car.

Identification:

All Drums have been re-surveyed and indentified as follows:

Yellow "L" indicates Maximum reading of 50 mr/hr
Blue "M" " " " " " 200 mr/hr
Red "H" " " " " " 1000 mr/hr

Drums are Palletized and banded four to a Pallet.

Material:

Solid Waste - Composed of high level mixed fission product and includes miscellaneous scrap.

Slurry - Composed of high level mixed fission product from evaporator bottoms from KAPL Liquid Waste Process.

Pu - Composed of all materials contaminated with Plutonium or Thorium. This type of waste is packaged into 1 gallon paint cans, and placed into carbon steel drums.

Oils - Ashes - Contaminated with low level mixed fission products.

Paul Seager
Paul Seager

((((L-104

CHECK LIST FOR NYO-ORO
 MEETING ON TRANSFER OF
 BORON METAL PLANT
 (March 3 and 4, 1958)

A. STATUS OF SHUTDOWN ACTION

1. Hooker Proposal for Shutdown (Work, Costs, etc.)
2. Disposition of Boron Inventories
3. Outstanding Housekeeping Work (KAPL Wastes, C-Slag, Radium Carbonate, etc.)
4. Process Development
5. African Metals Waste Residues

B. FUTURE CONTRACTUAL ACTION

1. Close-out of Existing Hooker Contract (ORO)
2. Arrangement for FY 1959 Administration (NYO)
 - (a) Olin-Mathieson Proposal
 - (b) Hooker's Maintaining Plant and Standby
 - (c) Other (NYO - Recommended)
3. Miscellaneous Contracts or Agreements

C. PROPERTY

1. Disposal or Personal Property not needed for Standby Purposes
2. Real Property
 - (a) Land and Buildings Reported Excess to GSA
 - (b) Transfer of Land, Buildings and Utilities to Air Force
 - (c) Power Line Easement to Niagara Mohawk
 - (d) Department of Navy Easement
 - (e) Remaining AEC Property

D. RECORDS

1. Records to be Disposed of by ORO
2. Records to go from ORO to NYO (SS Accountability, Finance, Budget, Contracts, O&P, Engineering and Security)

E. BUDGET AND FINANCE IMPLICATIONS

F. PERSONNEL CONSIDERATIONS

G. CUSTOMS

3/3/58
(Signature)

*Carberry to give us copy
 of trip reports.*

00L-08 ~~Hooker~~ Case File
Env. Prot. Bureau
N.Y.S. Department of Law
New York, New York

FOIA MATERIALS FROM DOE

Roll 121

CONTRACTS APPLICABLE TO NIAGARA FALLS BRANCH

<u>Number</u>	<u>Name</u>
AT-(30-1)-805	New York Central Railroad
AT-(30-1)-1035	City of Niagara Falls
AT-(30-1)-1524	Hooker Electrochemical Company
AT-(30-1)-1524	Department of the Navy
	Bureau of Ships and Decks
AT-(40-1)-1996	Tennessee Gas Transmission Company
(AT-(30-)-525	Niagara Mohawk Power Company

Hooker Case File
Env. Prot. Bureau
N.Y.S. Department of Law
New York, New York

ROLL 121

NIAGARA FALLS SITE - UTILITIES

BASIC ITEMS TO BE CONSIDERED

1. 42" Raw Water Line - including intake structures and easements.
2. 10" Potable Water Line - including easements.
3. Sewage Disposal Plant - including 22¹/₂ Acres of land.
4. 30" Outfall Sewer Line - including outfall structures and easements.
5. Railroad Track from NYC Main Line to Air Force Boundary (Bell) Land for right-of-way.
6. Power Line leading into West Boundary?

Hooker Case File
Env. Prot. Bureau
N.Y.S. Department of Law
New York, New York

OUTRIGHT TRANSFER TO AIR FORCE

Advantages to AEC

1. Relief from maintenance
2. Relief from administration of contract for water with City of Niagara Falls
3. Relief from administration of sidetrack agreement with New York Central Railroad
4. Elimination of contracts with private parties for furnishing of water by AEC.

Disadvantages to AEC

1. Loss of control over operation of facilities including alterations and changes

PERMIT TO AIR FORCE FOR ADMINISTRATION, OPERATION AND MAINTENANCE

Advantages to AEC

Same as 1 through 4 under Outright Transfer

Disadvantages to AEC

Would involve problems because of possible alterations, additions and/or removals of AEC-owned property by the Air Force

Hooker Case File
Env. Prot. Bureau
N.Y.S. Department of Law
New York, New York

OUTRIGHT TRANSFER TO AIR FORCE

In the event the utilities are transferred to the Air Force the following arrangements will have to be made:

1. Cancellation of AEC contract with City of Niagara Falls or assignment of the contract to Air Force by AEC.
2. Cancellation of AEC sidetrack agreement with New York Central Railroad or assignment of the agreement to the Air Force by AEC.
3. Cancellation of all agreements by which AEC is furnishing water to off-site private users.
4. A memorandum of understanding between AEC and the Air Force will be needed. This memorandum should cover the conditions under which rail, sewage, and water services will be made available to AEC by the Air Force.

PERMIT TO AIR FORCE FOR ADMINISTRATION, OPERATION AND MAINTENANCE

In the event the utility situation is handled on a permit basis, the following will be needed:

1. Same as Items 1, 2 and 3 under "Outright Transfer To Air Force."
2. Replacing the memorandum of understanding under "Outright Transfer to The Air Force" (Item h) would be the permit. The following should be considered for terms of the permit:
 - a. Complete inventory of all items of AEC property to be used by Air Force under permit.
 - b. Require Air Force to obtain prior approval of AEC before altering or disposing of any property being used under permit.
 - c. Provision stating that reimbursement will not be required of AEC for property items added to AEC property under permit and left in place by Air Force at expiration of permit.
 - d. Provision requiring Air Force to furnish rail, sewage and water service to AEC facilities. Reimbursement by AEC not to exceed actual cost to Air Force.
 - e. Require Air Force to give specific number of days' notice of their intent to terminate permit. This notice should be sufficiently far in advance of termination date to enable AEC to make arrangements for rail, sewage, and water services, if needed. Similar provision should be made with respect to notice to Air Force by AEC in the event AEC desires to terminate permit.
 - f. Provision requiring restoration by Air Force (subject to availability of funds) in event of termination of permit by either party.

CONFERENCE NOTES

March 4, 1958

Subject: BURNING OF KAPL WASTES

Date: February 27, 1958

Conferees:

J. D. Sweeney - Hooker AEC
F.W. Malone - AEC
F. E. Bartlett - Brookhaven National Lab.
M. S. Weinstein - NIO (AEC)
E. E. Christofano - NIO (AEC)
R. T. Dwyer - KAPL - Schenectady
P. Sager - Hooker AEC
J. L. Hanner - Hooker AEC

The conference was called to determine 1) the procedure for burning the combustible KAPL wastes which have been stored at LOCW, and 2) the safety precautions to be followed during the project.

F. W. Malone made reference to a prior study by the New York Health and Safety Office on the burning of contaminated wastes. This study was performed at LOCW in 1954 using low level contaminated KAPL wastes. In a memorandum concerning the survey, issued by W. B. Harris, Chief, Industrial Hygiene Branch, New York Health and Safety Lab., to J. P. Anderson, Chief, Schenectady Branch, AEC, dated June 17, 1954, Mr. Harris stated that "on the basis of the above, this experiment indicates that this type of burning is feasible."

M. Weinstein and E. Christofano stated that the purpose of their visit to LOCW was to further the studies on the burning of low level wastes. (This experimentation was carried out on February 26, 27, 1958). They also had planned to assist Hooker in planning the disposal of the remainder of the waste.

R. Dwyer stated that he primarily intended to assist in identifying material and advise on its handling. He commented on packages containing Plutonium wastes which should not be opened or burned, but should be held for burial disposal. These plutonium packages are marked "Pu" or with yellow paint.

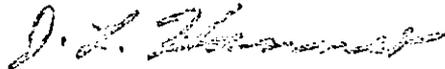
The following limits and procedure for disposal of the remaining wastes was established.

1. Burn only "low dose rate" (6 mr/hr or less) packages.
2. Burn only those packages that contain mostly burnable material.
3. Retain packages with "high dose rate" for possible future burning study. H. W. and E. C. should be notified when an accumulation of these packages is available.

4. Hold non-combustible material for future disposal.
5. Store scrap metal separate from other scrap, and hold for future disposal.
6. Drain ashes and hold for future disposal. (New York Health and Safety will analyze ashes from their test and assist in a decision for final disposal).
7. The burning can be done either in the open or in the metal incinerator.

The following safety precautions should be followed.

1. Wear dosimeters and film badges.
2. Wear protective clothing (coveralls, boots or rubbers, gloves and hats.)
3. Wear respirators when opening boxes or handling loose material and ashes.
4. Keep clear of fire and stay out of smoke.



J. L. Harner
Department Engineer
Plant 31

cc: Conference
E. W. Malone - 3
File

HOOKER ELECTROCHEMICAL COMPANY
NIAGARA FALLS, N. Y.
FORM 1072

Fwm
File
Kopf
Winter

AT-(30-1)-192h

March 5, 1958

N.Y. Health and Safety Lab
U.S. AEC
107 West 62nd. St.
New York 23, New York

Attention: Mr. M. Weinstein

Dear Sir:

The following are the weights you asked for:

Total weight of 8 boxes burned in oven	5,985 lbs.
Average weight per box	748.1 lbs.
Total weight of ashes removed	1576 lbs.
5 drums of ashes @ 9.16 cu ft.	45.80 cu ft.

15 boxes burned on open pad

PLEASE NOTE

2 boxes were empty

13 boxes @ 750 lbs.	9750 lbs.
Total weight of ashes recovered	3442 lbs.
11 drums of ashes @ 9.16 cu ft.	100.76 cu ft.

Approximate volume reduction 86%

Your instruments and samples are being shipped today.

I will notify you when the burning of the "no dose rate" material is completed.

Very truly yours,

Paul Seager

Paul Seager
Design Engineer

*Trans 4/10/58
Approved by OKWH
10/10/58*

*File
H. J. [unclear]
[unclear]*

UNION CARBIDE NUCLEAR COMPANY
DIVISION OF UNION CARBIDE CORPORATION



POST OFFICE BOX P
OAK RIDGE, TENNESSEE

March 10, 1958

Mr. F. W. Malone
Atomic Energy Commission
Niagara Falls, New York

Subject: Contaminated Railroad Car

Dear Mr. Malone:

You will find enclosed, a copy of our Health Physicist's survey report on car SAL-10063. We believe it is self explanatory and it may be of some help to you in preventing similar incidents in the future. Should you desire more detailed information, you may call Mr. C. R. Guinn at telephone 6989.

Very truly yours,

E. J. Witkowski

E. J. Witkowski, Superintendent
Laboratory Facilities Department

EJW:hg
Encl.

cc: D. A. Mareri
Knolls Atomic Power Lab.
P. O. Box 1072
Schenectady, N. Y.

*Rec'd
3 copies each
of [unclear]
Jim*

*Checked
[unclear] to
before [unclear]
[unclear] [unclear]
[unclear] [unclear]
[unclear] [unclear]
[unclear] [unclear]*

3.1
UNITED STATES
ATOMIC ENERGY COMMISSION

C O P Y

March 10, 1958

J. D. Sweeney
Department Head, Plant 31
Hooker Electrochemical Company
Rochester City, New York

Dear Sir:

Please proceed with the burning of the low dose rate (low/r or less) KAPL wastes.

The procedure to be followed will be as outlined in your conference notes of March 4, 1958.

We would like to be kept currently advised as to progress made in the burning and the amounts of high dose rate and non-combustible waste remaining on hand. It is the Commission's desire to complete the burning and/or removal of the KAPL waste before June 30, 1958. Your co-operation in this matter has been most appreciated.

Very truly yours,

F. W. Malone
U. S. Atomic Energy Commission
Chief, Niagara Falls Branch

cc:
J. E. Buch-CRO
J. D. Sweeney-HRC

J. C. Clarke, Deputy Manager

MAR 11 1958

A. F. Carney, Director, Administrative Operations

PROPOSED TRANSFER OF LAKE ONTARIO SITE TO NYOO

742
SYMBOL: A:AFC

As you requested, I accompanied Tom Carberry and the other representatives of OROO to the Corps of Engineers District Office on Tuesday, March 4, and to the LOSA on Wednesday, March 5, 1958. Also accompanying us on both days was Mr. Martin Samber of the Assistant General Counsel Office, NYOO. Mr. Carberry promised to send us a copy of his trip report which will outline in detail the discussions at the Engineers Office and those that took place at LOSA. Since Tom will send us all the details, this report will merely cover the high lights of our two-day meeting.

The session with the New York Corps of Engineers acquainted us with the agreements, easements, permits and contemplated transfers of acreage and other facilities which OROO is trying to get processed and approved by June 30, 1958.

On Wednesday we were conducted on a tour of the Hooker boron plant at LOSA and later toured the site. Since my last visit to this installation in early 1954, there have been many improvements made. The AEC site has been greatly reduced in size. New fencing has been installed, buildings in use have been repaired, painted and appear to be properly maintained. A new AEC office has been constructed, ground areas have been cleaned up, etc. Hooker is proceeding as per instructions to put the boron plant in standby, excess equipment and supplies according to schedule will be disposed of prior to June 30, 1958. The only items that may prove a problem are: 1) the KAPL Waste; the Contractor has been burning some of these wastes under directions from OROO. We were informed that representatives of the HASL Radiation Branch have recently visited this site and have completed a resurvey of the burning operation. It appears that the Contractor is having some problems in disposing of these wastes. OROO is going to follow up this situation closely. 2) African Metals Waste Residue; none of this waste is on the ground. It is stored in tanks and towers. We were informed that the Division of Raw Materials, Washington, through Oak Ridge, is now in the process of working out a new arrangement with African Metals in relation to the future storage of these wastes.

I arranged with Tom Carberry for NYOO to get copies of all documents and correspondence from now through June 30, 1958 so that our staff can be currently posted as we proceed.

Carney:jb
3-10-58

Hooker Case File
Env. Prot. Bureau 2985
N.Y.S. Department of Law
New York, New York

HOOKER ELECTROCHEMICAL COMPANY
NIAGARA FALLS
NEW YORK
Contract No. AT-(30-1)-152h

March 25, 1958

F. W. Malone
Chief, Niagara Falls Branch
U. S. Atomic Energy Commission
Niagara City, New York

Subject: KAPL WASTES

Dear Mr. Malone:

We are prepared to ship two car loads of non-burnable KAPL
Wastes to Oak Ridge.

To clarify the situation, we would appreciate written
instructions from your office to proceed.

Very truly yours


J. D. Sweeney
Department Head, Plant 31

JDS:jc

*Approved given on
copy of this letter*

Contract No. AT-(30-1)-1524

March 25, 1958

F. W. Malone
Chief, Niagara Falls Branch
U. S. Atomic Energy Commission
Model City, New York

Dear Mr. Malone:

In your letter of March 10 you authorized us to burn the low-level KAPL Wastes and made reference to the conference on the subject with the New York Office and KAPL Personnel of March 4.

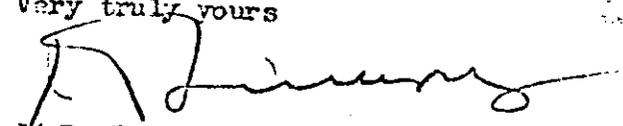
The assumption was made at that time that each package would have a dose rate marking. We have proceeded on that assumption and burning activities have continued as agreed. However, many of the crates in building 444 are so badly weathered that the original markings have disappeared and we find it impossible to proceed on the outlined basis.

Since we have been warned that some of these crates contain plutonium and we are to avoid these because of the potential fall-out, we now find it impossible to do so by observing external markings.

Our current plan is to remove all the crates of KAPL Wastes from building 444 where they are triple decked, difficult to observe and in a dangerously decomposed building. We will line these crates up along one of the inactive outside roads and merely remove their lids without attempting to burn. At that time it would seem appropriate for the AEC to provide competent advise on this problem by a visit from the New York Health and Safety Office, possibly accompanied by one of the experts from KAPL. We expect we can arrange so that this observation and determination can be made in a very short time and we will then take no chances of burning plutonium bearing cartons with the resulting relatively dangerous fall-out.

I am sure the AEC would approve this safer approach and the Hooker Company certainly does not wish to become involved in burning materials of questionable contamination with the possibility of a fall-out problem.

Very truly yours



J. D. Sweeney
Department Head, Plant 31

JDS:je
Enclosure
cc: RFS
FLB

*Meeting with Silver 4/13/58
OK to always use immediate fall-out boxes - and fall-out material, when
wastes adapted to us by KAPL can be burned*

Hooker Case File
Env. Prot. Bureau
N.Y.S. Department of Law
New York, New York

FOIA MATERIALS FROM DOE

ROLL 121

NIAGARA MOHAWK POWER CORPORATION

NIAGARA  MOHAWK

BUFFALO 3, N.Y.

March 25, 1958

Mr. F.W. Malone, Chief
U.S. Atomic Energy Commission
P.O. Box 338
Niagara Falls, New York

Re: OF:FWM

Dear Mr. Malone:

This is to acknowledge with thanks the receipt of your letter of March 21st., respecting the five acre parcel of land, now a portion of the Atomic Energy Commission lands in the Town of Leviston, Niagara County, New York, which is to be transferred to the Air Force.

We anticipate starting construction about April 15, 1958 and would like some assurance that we can occupy this parcel pending the transfer of same. This permission, I assume, would have to come from the Atomic Energy Commission, and I was wondering if you could arrange to secure such a permit for us.

I contacted Mr. Robert Smith, Contracting Officer for the Air Force and he informed me that the Air Force would at some future date acquire this parcel of land, but had no idea when the transfer would be made. He assured me they would grant us a permit to occupy the land prior to conveying it to us. However, if they do not have the transfer into them, it would be impossible for them to grant us a permit and therefore it would necessarily have to come from the Atomic Energy Commission.

Would it be possible for you to contact Mr. Smith and make some arrangement, whereby you would grant us this right pending the transfer to the Air Force? As you understand, we must have power into Olin-Mathieson not later than July 1, 1958, and it will take at least two months to construct the lines. Our plans are such that we are forced to occupy this parcel in order to get there with adequate and safe lines.

I would appreciate very much if you will arrange to have this permit granted to us in advance of the anticipated

Hooker Case File
Env. Prot. Bureau
N.Y.S. Department of Law
New York, New York

Mr. F.W. Malone, Chief
U.S. Atomic Energy Commission

March 25, 1958

transfer of this parcel of land. No doubt the Air Force is also aware that something must be done in this respect, so as not to hold up completion of the lines into Olin-Mathieson.

Thanking you very much for your kind cooperation and the interest you have extended to us. Trusting I may have a favorable reply, I remain.

Very truly yours,

R.L. Gibbons
R.L. Gibbons, Manager
Real Estate Department

RLG/m

1735

Rochester Case File
Env. Prot. Bureau
U.S. Department of Law
New York, New York

In Reply Refer
To: OPI/AM

P. O. Box 138
Niagara Falls, New York

March 31, 1978

Mr. J. D.weeney
Department Head, Plant #31
Rocher Electrochemical Company
Motel City, New York

Subject: INFORMATION ON STORAGE FACILITIES - RADIOACTIVE MATERIAL

Dear Sirs:

The following information is urgently required, and we would appreciate receiving it by Wednesday morning, April 2, 1978, if at all possible.

1. The capital costs of all facilities or systems involved in the collection, handling, processing, monitoring and control of gaseous liquid and solid waste effluents.
2. Present annual operating and maintenance costs for above systems.
3. Estimate of man power, (in man years), including administrative, technical and operating personnel who are directly involved in waste handling operations.
4. Current level of development activities in waste storage and disposal field in terms of dollars and man power. (I do not believe this item is applicable to our area.)

Very truly yours,

F. W. MALONE
U. S. Atomic Energy Commission
Chief, Niagara Falls Branch

OFFICE						
CURRENT						
DATE						

ROLL 121

Hooker Case File
Inv. Prot. Bureau 88-02985
U.S. Department of Law
New York, New York

In Reply
Refer To: CF:FHM

P. O. Box 338
Niagara Falls, N. Y.

March 31, 1958

Mr. J. D. Sweeney
Department Head, Plant #31
Hooker Electrochemical Company
Niagara City, New York

Dear Mr. Sweeney:

Mr. Schoen, of our Oak Ridge Biology Branch will be here on Thursday, April 3, 1958, to observe the handling and burning of KAPL waste. He will also make a general tour of the areas and buildings used for storage of radioactive materials.

We will arrange to have a meeting in my office, and it is suggested that you bring up at that time, any questions or problems you may have in the identifying, handling, burning or shipping of KAPL waste.

Please arrange to have minutes taken of this meeting.

Very truly yours,

F. W. MALONE
U. S. Atomic Energy Commission
Chief, Niagara Falls Branch

OFFICE >						
TELEPHONE >						
DATE >						

UNITED STATES
ATOMIC ENERGY COMMISSION

WASHINGTON 25, D. C.

IN REPLY REFER TO:

40-602
LAL:ND

Sylvania-Corning Nuclear Corporation
Willetts Point Boulevard
Bayside, New York

SOURCE MATERIAL LICENSE

Attention: Mr. W. F. Kuziska

License No. 0-3700
Effective April 1, 1958.
Dated:

Gentlemen:

Pursuant to the Atomic Energy Act of 1954 and Section 40.21 of the Code of Federal Regulations, Title 10 - Atomic Energy, Chapter 1, Part 40 - Control of Source Material, you are hereby licensed to receive possession of and title to twelve hundred (1,200) pounds of source material for use in research and development on fuel element manufacture and reprocessing, also in the preparation of fuels, fuel elements, or other forms. This license extends to both your Hicksville, N.Y. plant and your Bayside, N.Y. laboratory.

You are further licensed to transfer and deliver possession of and title to refined source material to any person licensed by the Atomic Energy Commission, within the limits of his license.

As a condition of this license, you are required to maintain records of your inventories, receipts and transfers of refined source material.

This license is subject to all the provisions of the Atomic Energy Act of 1954 now or hereafter in effect and to all valid rules and regulations of the U. S. Atomic Energy Commission, including 10 CFR 20, "Standards For Protection Against Radiation."

Neither this license nor any right under this license shall be assigned or otherwise transferred in violation of the provisions of the Atomic Energy Act of 1954.

This license shall expire April 30, 1960.

FOR THE ATOMIC ENERGY COMMISSION

USNRC 000432

J. C. Delaney
Chief, Materials Section
Licensing Branch
Division of Licensing and Regulation



For your file

ROLL 121

Hooker Case File
DOI-08-02985
Env. Prot. Bureau
N.Y.S. Department of Law
New York, New York

In Reply
Refer To: CP:FM

P. O. Box 338
Niagara Falls, N. Y.

April 2, 1958

Mr. J. D.weeney
Department Head, Plant #11
Hooker Electrochemical Company
Madel City, New York

Subject: KAPL WASTE

Dear Sir:

Please refer to your letter of March 25, 1958.

As requested, we have ordered two ADEK Railroad Cars for your use in shipping some of the non-burning KAPL waste to Oak Ridge. It is suggested that the remaining KAPL liquid waste be included in these cars.

In order that we may prevent any spillage, as in the last shipment of liquid waste, it is suggested that you contact ORNL personnel as to the details involving that shipment.

If you need any further assistance or advice, please do not hesitate to call on us.

Very truly yours,

F. W. MALONE
U. S. Atomic Energy Commission
Chief, Niagara Falls Branch

OFFICE >					
SUBJECT >					
DATE >					

61223

**Hanner, 1958, *Disposal of KAPL Wastes*, conference notes; J. L. Hanner;
April 7, 1958, pp. 34-35**

Sub Moore
2
conf 1)

April 7, 1958

CONFERENCE NOTES

Subject: DISPOSAL OF KAPL WASTES
 Date: April 3, 1958
 Conferees: J. D. Sweeney - Hooker
 F. W. Malone - AEC-NF
 A. A. Schoen - AEC-OR
 W. J. Moore - AEC-OR
 P. Seager - Hooker
 C. M. Chesterfield-Hooker
 J. L. Hanner - Hooker

The conference was called to determine the disposition of 1.) the packages of KAPL wastes which bear no marking as to contents or radiation activity, and 2.) the non-burnables and ashes from incinerated wastes.

Mr. Sweeney opened the conference by reviewing the procedure for disposing of the waste materials as outlined in the notes of a conference held on February 27, 1958 - "Burning of KAPL Wastes". He further described Hooker's position on the subject as being uncertain as to the disposal of unmarked packages. He stated that since the Hooker staff is lacking an "expert" in the radiation field, he felt it was unwise to make a move which could possibly be embarrassing to Hooker or the AEC.

Mr. Schoen, of the Oak Ridge Biology Branch, described the present LOOW disposal activity as being one involving no risk on the part of the AEC or Hooker to either personnel or surroundings. (To substantiate that no contamination has been caused by the burning program, the AEC will analyze environmental samples taken by the AEC before and after the operation.) The AEC's general policy is to "play it safe", and when a reasonable doubt exists as to a particular plan, another safer course is followed.

Mr. Schoen stated that the KAPL wastes at LOOW have decreased in activity by a factor of fourty (40), as derived from the reduced radiation from the liquid wastes which were recently shipped to Oak Ridge. The dry wastes currently being handled are slightly contaminated with the same mixed fission products, and those marked "no dose rate" constitute no hazard when the precautions as outlined in the conference of February 27, 1958 are followed.

The assistance which has been given (including Mr. Schoen's visit) was described as being insurance against any hazard developing, and to "ease our (Hooker's) mind". As a further precautionary measure, Mr. Schoen suggested that the personnel involved in waste handling submit two urine samples - one now and one at the completion of the project. The analysis of the urine will show a minute quantity of ingested contamination. This analysis is suggested for assurance only, since it is the AEC's contention that there is no hazard involved in the present work.

MATERIALS 12
Ningora 7/11/58

The following directions were given as to the completion of the disposal program:

1. Boxed ashes received from KAPL - dump in pit on site and cover with earth; no marking required. (These ashes are not contaminated-they resulted from incineration of office material at KAPL).
2. Ashes from LOOW burning - drum and ship to Oak Ridge.
3. Scrap metal - package and ship to Oak Ridge.
4. Packages marked "Pu possible" - ship to Oak Ridge.
5. Packages with no visible marking - ship to Oak Ridge.
6. Packages marked as having a dose rate - retain for experimental burning by New York Health and Safety.

As a final precaution, Mr. Schoen suggested that whenever a doubt exists, ship the material to Oak Ridge.

The material to be transferred to Oak Ridge is to be shipped on a government Bill of Lading, in box cars according to ICC regulations. These regulations state that the exterior radiation should not exceed 10 milliroentgen (mr.) per hour at 12 ft. from the side of the car, and 10 mr. per hour at 5 ft. from the end of the car. Placards denoting "Dangerous Radioactive Material" and bearing radiation readings and shippers name and address should be affixed to the car sides and ends. Experience has indicated that the material for shipment will fall well within the ICC limits.


J. L. Hanner
Department Engineer

JLH:jc

Office Memorandum • UNITED STATES GOVERNMENT

MLFACT SHEET

TO : Names Listed Below

DATE: APR 10 1953

FROM : *H. J. Klack*, Director
Division of Protection

SUBJECT: EXTENSION OF STATUTORY IDENTIFICATION TO SYLVANIA-CORNING
NUCLEAR CORPORATION

SYMBOL: FC1275

The attached memorandum from H. G. Blair, Manager, SHOC, which recommends against extending statutory identification to the work being performed by Sylvania-Corning at Hicksville, Long Island, is furnished for your concurrence or comments.

Attachment:
Memo dated 4/4/53 from
H.G. Blair thru Blair

Addressess:
Harold L. Price, Director of Licensing and Regulation
Loren K. Olson, General Counsel
Don S. Burrows, Controller

APR 10 1953

Office Memorandum • UNITED STATES GOVERNMENT

April 10, 1953

TO : Mr. J. Hollingsworth, Director, Federal Bureau of Investigation, Washington, D.C.
FROM : Mr. E. J. Hitchcock, Director, Division of Production, Savannah River Operations Office

SUBJECT: SYLVANIA CORNING NUCLEAR CORPORATION, EXTENSION OF CONTRACT IS SIGNIFICANT TO

The following information is submitted pursuant to the request made by you at the indemnity meeting in Washington on March 21 in order that a determination may be made relative to the inclusion of the statutory indemnity article in Contract AI(30-1)-1293 between Sylvania Corning Nuclear Corporation (Syl-Cor) and Savannah River Operations Office.

The work performed by Syl-Cor under Contract AI(30-1)-1293 is performed at its Hicksville, Long Island, plant and involves the combining of natural uranium into fuel elements for SBOO and also, to a small degree, the development of new element types. Enriched uranium is handled by Syl-Cor under this contract, and the maximum expected inventory of normal uranium at any one time at that plant would be one hundred tons. We would not expect there to be any possibility of an explosion or connection with the work under the contract, but it is possible that a fire might occur. Since there is no sprinkler system provided in this portion of Syl-Cor's facilities devoted to this contract work, it is also possible that any fire could be of some magnitude.

Hicksville, Long Island, has a population of 14,000 and is located approximately 25 air miles from the Pennsylvania Railroad Station, New York City. The population of greater Hicksville is between 100,000 and 200,000. The Syl-Cor plant is located approximately 1 1/2 to 2 miles from downtown Hicksville in an industrialized zone. Within a 1/2 mile radius there are several small industrial firms and a large aircraft company is located a mile or two away.

The Syl-Cor plant at Hicksville comprises two major production buildings containing over 30,000 square feet of

Hollingsworth
 space, plus auxiliary buildings housing their purchasing and accounting departments, with about 150 people being engaged in work under Contract AT(30-1)-1298 at that site. At the same location, and separated only by a thin masonry wall, Syl-Cor conducts commercial activities in the atomic energy field. In its commercial activities at Hicksville, Syl-Cor regularly works with enriched uranium, and its production superintendent is responsible for both its commercial and governmental activities at that site. The commercial work being performed by Syl-Cor at Hicksville is performed, so we understand, under a license or licenses obtained from the Commission. However, we understand that between 85% and 90% of the work being performed at Hicksville by Syl-Cor is performed under Contract AT(30-1)-1298.

In addition, Syl-Cor has recently constructed at Hicksville another facility, which is located approximately 60 yards distant from the plant in which the S200 work is being performed. This new facility will also be used by Syl-Cor in its private commercial atomic energy activities.

Under our contract with Syl-Cor, a monthly occupancy charge is paid to Syl-Cor for the use of its facilities in lieu of an allowance for rent, insurance, taxes, etc. The occupancy charge includes coverage for both fire insurance and for public liability insurance against damage to persons and properties of employees of Syl-Cor except workmen's compensation, or of third persons, as well as automobile insurance. Premiums for workmen's compensation insurance are reimbursed by S200 through direct payments. We understand that the public liability insurance carried by Syl-Cor, and for which premiums are included in our occupancy charge, is in the amount of \$5,000,000.00. In addition, our contract includes a "Model T" indemnity clause against loss or damages resulting from nuclear incidents which are not covered by insurance. We also understand, however, that Syl-Cor recently obtained a "binder" for insurance against nuclear incidents with respect to its atomic energy activities at Hicksville and at its other locations in the amount of \$10,000,000.00. Presumably this was obtained as a result of its private atomic energy activities, since approval was not requested of S200, and, as of this date, no reimbursement has been made by S200 for this type of insurance.

R. E. Hollingsworth

The term of our present contract expires on June 30, 1958, and present production schedules indicate the contract will be extended beyond that date.

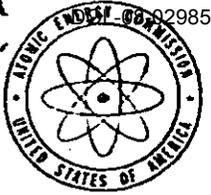
In view of the foregoing and while we recognize that there is some possibility of a nuclear incident at the Hickville plant which could cause damage in excess of \$1,000,000.00, we recommend that statutory indemnity not be extended to the work being performed by Syl-Co at Hickville, Long Island, under Contract AT(30-1)-1299.

Revised 7-2-58



61223

**Sapirie, 1958, *Telephone Conversation About Burning KAPL Wastes*,
Correspondence to Walter Beanblossom; S. R. Sapirie; April 18, 1958, pp. 40-41**



UNITED STATES
ATOMIC ENERGY COMMISSION

IN REPLY REFER TO:

OF:TPG

Oak Ridge, Tennessee
April 18, 1958

Hooker Electrochemical Company
P. O. Box 344
Niagara Falls, New York

Attention: Mr. Walter S. Beanblossom
Administrative Assistant to Management

Gentlemen:

This letter refers to your telephone conversation of April 7, 1958, with Mr. B. M. Robinson in which burning of KAPL wastes was discussed.

We propose, and understand that you are agreeable, to make burning and shipment of the KAPL wastes within the scope of maintaining and operating the storage area adjacent to the Boron Metals Plant (Reference: Article I, Paragraph 3 (g), Modification No. 2, Contract No. AT-(30-1)-1524). Under the provision for modification of the Commission's letter of July 7, 1953, as set forth in the above contract reference, you are hereby authorized to burn, ship or make other disposition of the KAPL wastes as the Commission may direct. With the letter of July 7, 1953, so modified, costs for disposal of KAPL wastes are allowable under the contract. Funds to cover such work have been provided in our FY 1958 budget. Your written concurrence in the proposed revision to the July 3, 1953, letter will be appreciated.

It is our hope that the KAPL wastes may be totally disposed of prior to June 30, 1958, when administrative responsibility for the Boron Metals Plant and the adjacent storage area will be transferred to the AEC New York Operations Office. To this extent we would appreciate continuance of burning "low dose rate" (6 mr/hr or less) waste and shipment of material in excess of such tolerance as early as possible.

J. W. Caldwell, Jr.

Hooker Electrochemical Company

- 2 -

April 18, 1958

Procedures to be followed, including precautionary measures, in burning and handling of KAPL wastes are outlined in two reports by Mr. J. L. Hanner of your company, dated March 4, 1958, and April 7, 1958. These reports cover conferences in which health physics personnel of the AEC New York and Oak Ridge Operations Offices participated. The reports fully set forth instructions given by AEC representatives. The report of April 7, 1958, brings up to date work to be done in the period to June 30, 1958.

We believe that the procedures and measures described in these reports are consistent with the requirements of Article VI, Paragraph 6, Modification No. 11, of the contract with respect to the taking of reasonable precautions to protect health and minimize danger from hazards to life and property in the burning area.

Any costs or expenses, including possible liability to third parties incurred in performing this work will be considered as allowable costs as provided in contract Article II, Paragraphs 2 (r) and 2 (t).

We appreciate the cooperation you are giving in effecting a timely and orderly shutdown of the Boron Metals Plant and its related activities.

Very truly yours,



S. R. Sepirie
Manager

Oak Ridge Operations Office

HOOKER ELECTROCHEMICAL COMPANYPROCEDURES FOR THE DISPOSAL OF GOVERNMENT-OWNED PROPERTY

Contract No. AT-(30-1)-1524

- I. PURPOSE - The purpose and intent of this procedure is to establish methods and assign responsibilities to determine and dispose of Government owned property not required for the performance of Contractual obligations.
- II. DEFINITIONS OF TERMS USED HEREIN - 1. Excess means Government-owned property in the custody of Hooker Electrochemical Company, which has been determined not required to perform contractual obligations.
2. AEC means the United States Atomic Energy Commission or its authorized representatives.
3. GSA means the Personal Property Utilization Division of the appropriate Regional Office of the General Service Administration.
4. DHEW means the appropriate Regional Office of the United States Department of Health, Education and Welfare.
- III. RESPONSIBILITY - 1. Periodic inspection and review to determine property that is excess will be done by the Engineering or Administrative personnel at Plant 31, Model City, at which time the Storekeeper will be advised of the items involved.
2. The Storekeeper will then initiate disposal actions which are as follows:
- A. Preparation of Excess Lists
 - B. Transmittal of lists to all Agencies prescribed by the AEC Office
 - C. Receiving AEC and AEC cost-type contractors requests and arranging shipments with necessary shipping transfers
 - D. Maintain files for each transaction
 - E. Transmit lists to the Purchasing Department for all 100 disposal by Public sale.
3. The Purchasing Department will initiate all transactions for disposal by Public Sale as follows:
- A. Issuing Public Sale notices to the appropriate persons or companies
 - B. Receiving and tabulation of Bids
 - C. Notify successful bidder, and issue Plant Sale to Stores and Accounting for their responsibility in this transaction.
 - D. Maintain files for each transaction
 - E. Send copies of bids and Sales Contracts to the AEC Supply Division, Oak Ridge, Tennessee
4. The Accounting Department will be notified by either Stores or Purchasing for their authority to transfer or invoice, whichever the case may be.

How?
A. 100
S. 100
D. 100

IV. UTILIZATION PROCEDURE - Government - owned excess and surplus property is disposed of by:

1. Transfer to another AEC Contractor or Office
 2. Transfer to another Government Agency
 3. Donation
 4. Public Sale
- (As available in the order stated)

1. When property is determined to be excess, it will be given the condition code, and the applicable descriptive nomenclature. Excess lists are prepared on Standard Form 120, and 120A (see Exhibit #1) per instructions G.S.A. Reg. I-III-302.01, (see Exhibit #2) in sufficient copies as shown in Distribution List "A" furnished by the A.E.C. If the Transferee is an AEC Office or an ORO Contractor, billing for the fair value is accomplished through the A.E.C. accounts, otherwise a regular invoice is to be used. Transfers of construction equipment having an original acquisition cost of \$1000.00 or more, or vehicles, require prior concurrence of A.E.C.

2. After 30 days of circularization, residual items are reported to the A.E.C. Office using SF-120 in quadruplicate. The A.E.C. will report these items in triplicate, on SF-120 to G.S.A., which requires approximately 90 days to circularize other Government Agencies. Specific instructions are received by the A.E.C. from G.S.A. providing for (1) transfer, (2) donation, (3) public sale of the property. Hooker will hold all property reported to G.S.A. until instructions are received from the A.E.C. office.

3. Classes of property not circularized are listed in G.S.A. Reg. I-III-302-02 (see Exhibit #3). This property is listed and reported informally to the A.E.C. office who offers it for donation to DHEW. A.E.C. will either authorize Hooker to donate the property as instructed or approve of a public sale of same.

4. Classes of Property which require special procedures are as follows:

- Perishables
- Property dangerous to public health and safety
- Arms, ammunition and implements of war
- Explosives
- Narcotics
- Strategic and critical materials (see chapter OR-5174)
- Property contaminated with uranium or uranium derivatives
- Surface - uranium - contaminated ferrous metal scrap (see Exhibit #6)
- Intangible personal property

Instructions are required from the Supply Division, Oak Ridge Operations Office, through the local A.E.C. Representative.

5. Public Sales

1. Except as provided in 2 below, or otherwise approved or directed by A.E.C. sales will be accomplished by soliciting adequate sealed bids after advertising, using the "Invitation, Bid and Acceptance" form provided as Exhibit No. 4, hereto.
2. Whenever the estimated recovery value of the property to be offered for sale is less than \$500, informal inquiries may be made and a negotiated contract may be

awarded on the basis of the highest return using the Negotiated Sales Contract form provided as Exhibit No. 5, hereto."

3. Whenever the total original acquisition cost of the property to be offered is \$25,000.00 or more, newspaper advertising will be required.

4. A.F.C. approval is required prior to soliciting bids on property offered and prior to the award.

5. A copy of each Invitation to Bid or Sales contract is forwarded to A.F.C., Supply Division, Oak Ridge, Tennessee for information purposes.

6. Enclosures: Exhibits

1. Standard Forms 120 and 120A
2. G.S.A. Reg. I-III-302.01
3. G.S.A. Reg. I-III-302.02
4. Appendix OR-5180-02A
5. Appendix OR-5180-02C
6. A.F.C. Chapter 5182, Chapter OR-5182

Tabulated below is the latest compilation of waste residues held in trusteeship for African Metals, Inc., at Niagara Falls and at FMPC

TABLE

Residues stored at Niagara Falls, Ending Inventory April 30, 1957

<u>Type of Material</u>	<u>Approximate Gross Wt. in Thousand Pounds</u>		<u>S.S. Lbs. U</u>	<u>Dry Wt. SU (Approx)</u>
	<u>Wet</u>	<u>Dry</u>		
1. Sludge from 10% African Ore (L-30)	46,825	25,942	54,996	0.21
2. Sludge from 6% African Ore (L-50)	11,349	7,036	6,332	0.09
3. Sludge from African Ore (P-32)	675	463	2,500	0.54
4. Residue from African Ore (K-65)	22,000	11,000	11,005	.10
5. Lead Sulfide Residue from African Ore (P-54)	<u>148</u>	<u>74</u>	<u>633</u>	0.85
Sub-Total	80,997	44,515	75,466	

Residues stored at FMPC, Fernald, Ohio, Ending Inventory May 31, 1958

1. Non-Recoverable (K-65) Re Bearing Silica sludge	48,000	24,000	27,099	.12
2. Raffinate Metal Oxides	<u>3,240</u>	<u>1,620</u>	<u>437</u>	.03
Sub-Total	51,240	25,620	27,536	
TOTAL	<u>132,237</u> <u>286,637</u>	<u>70,135</u>	<u>103,002</u>	

Hooker Case File 2985
Env. Prot. Bureau
N.Y.S. Department of Law
New York, New York

TELEGRAPH FILE COPY

CONFIRMATION OF TELEGRAM

FROM

HOOKER ELECTROCHEMICAL COMPANY

NIAGARA FALLS, N. Y.

TO Mr. E. S. Witkowski
Oak Ridge National Laboratory
Oak Ridge, Tenn.

DATE May 1, 1958

VIA

FWM

CARS ATEX 208 and 209 loaded with KAPL WASTE LEFT TODAY.

EXPECT TO SHIP TWO COMMERCIAL CARS NEXT THURSDAY.

APPROXIMATELY SEVEN MORE CARS WILL BE NEEDED TO COMPLETE SHIPMENT.

LETTER TO FOLLOW.

PAUL SEAGER
HOOKER AEC

Hooker Case File
 Env. Prot. Bureau
 DOL 88-03985
 N.Y.S. Department of Law
 New York, New York

April 30, 1958

RADIOACTIVE WASTE MATERIAL
 IN BOX CAR #ATX 209
 DISPOSAL AT ORNL

<u>ITEMS</u>	<u>DESCRIPTION</u>	<u>MATERIALS</u>	<u>MAX. WEIGHT</u>
18 - Boxes	Wooden	Misc. Scrap	750#/box
17 - Pallets	65 gal.c/s	Ashes	1260#/pallet
1 - Pallet	65 gal.c/s	Liquid Waste	2000#/pallet
4 - Boxes	Concrete		4000#/box
1 - Box	Steel	Acid Waste	4000#/box
Totals	23 boxes	68 drums	

Estimated weight of load 56,920#

Monitoring Results:

containers should not exceed 50 mr/hr at surface

External Radiation

10 mr/hr at 12 ft. from sides of car.

10 mr/hr at 5 ft. from ends of car.

Paul Seager

Paul Seager

DOL 08-0285

Hooker Case File
Env. Prot. Bureau
U.S. Department of Law
New York, New York

FOIA MATERIALS FROM JOE

ROLL 121

2684

HOOKER ELECTROCHEMICAL COMPANY
NIAGARA FALLS
NEW YORK

May 2 1958

1501

Mr S R Sapirie Manager
Oak Ridge Operations Office
U S Atomic Energy Commission
Oak Ridge Tennessee

Ref OF:TPC

Dear Mr Sapirie

Your letter of April 18, 1958 concerning the burning or shipment of KAPL wastes has just been received. This provides a satisfactory basis upon which we can proceed. We will try to have this work completed before June 30, 1958.

Very truly yours

W S Beanblossom

W S Beanblossom
Administrative Assistant to Management

mlc

PLANTS, LABS., BUILDINGS & LAND 7
7/100

Hooker Case File
 Env. Prot. Bureau
 N.Y.S. Department of Law
 New York, New York



ORNL:AS
 IN REPLY REFER TO:

UNITED STATES
 ATOMIC ENERGY COMMISSION

Oak Ridge, Tennessee
 May 5, 1958

Union Carbide Nuclear Company
 Post Office Box P
 Oak Ridge, Tennessee

Attention: Dr. J. A. Swartout, Deputy Director
 Oak Ridge National Laboratory

Subject: REQUEST FOR BURIAL OF KAPL WASTES STORED AT NIAGARA FALLS

Gentlemen:

Reference is made to our letter dated December 20, 1957, subject:
 Waste Burial - Niagara Falls Drums.

We have been in the process of disposing of all KAPL wastes stored at Niagara Falls preparatory to closing out our contract there and transferring responsibility for the property to the New York Operations Office. Wastes had been stored above ground at this location on an interim basis pending more suitable and permanent disposition. It is no longer possible to continue this method of storage and we have no alternative but to ask that the Laboratory accept these wastes for burial. We have arranged for the burning of the combustible wastes containing low level contamination and have in this manner substantially reduced the total volume of wastes involved. There are, however, approximately seven car loads of waste in 4' x 4' x 4' wooden boxes which must be discarded. We have discussed this matter with your Mr. E. J. Witkowski informally, and he is aware of the details of this problem. Mr. Frank W. Malone, Chief, Niagara Falls Branch, USAREC, will contact Mr. Witkowski concerning the details of these waste shipments.

Costs incurred by ORNL are to be accumulated and transferred through the current account to ORO with the identification, "For ORO Activity 2170".

We regret the necessity for asking that you do this, but again no suitable alternative exists. Your cooperation and assistance in this matter is appreciated.

Very truly yours,

Herman M. Roth
 Director
 Research and Development Division

CC: C. E. Center, UCNC
 R. C. Armstrong, ORO
 F. W. Malone, Niagara Falls
 J. W. Ruch, ORO

68

C. L. KARL, AREA MANAGER
FERNALD AREA OFFICE

MAY 7, 1958

JOHN W. RUCH, DIRECTOR
FEED MATERIALS DIVISION, OROO

2.23.3
2.24.12

PROCUREMENT OF THORIUM

SYMBOL: OF:REH

WE HAVE RECEIVED A MEMORANDUM FROM THE NEW YORK OPERATIONS OFFICE,
REQUESTING THE FOLLOWING THORIUM METAL FOR COLUMBIA UNIVERSITY:

FOUR PIECES, 3" WIDE, .076" THICK, 24" LONG (APPROXIMATELY)
FOUR PIECES, 3" WIDE, .076" THICK, 8" LONG (APPROXIMATELY)

WE CONCUR WITH THIS REQUEST. ACCOUNTABILITY FOR THIS MATERIAL SHOULD BE
CHARGED TO STATION MCU, AND SHIPMENT MADE TO:

COLUMBIA UNIVERSITY
DEPARTMENT OF PHYSICS
538 WEST 120TH STREET
NEW YORK 27, NEW YORK

ATTENTION: R. W. SEIGEL
ASSISTANT DIRECTOR

PLEASE ADVISE THE NEW YORK OPERATIONS OFFICE AS TO THE DELIVERY DATE AND
ESTIMATED CHARGES OF THIS MATERIAL. ENCLOSED FOR YOUR INFORMATION AND
USE THIS PURCHASE ORDER: S 66588 OCT 1957.

WE WOULD APPRECIATE YOUR MAKING THE NECESSARY ARRANGEMENTS FOR SHIPMENT
OF THE ABOVE REQUESTED MATERIAL.

ORIGINAL SIGNED
BY J. W. RUCH

JOHN W. RUCH

ENCLOSURE:

P.O. No. S 66588

CC: R. C. ARMSTRONG
OK J. C. CLARKE, NYOO

*Columbia U. Contacted NWO
prior to ordering. Collected several other dimensions
approximately. Material is in stock -
Phone Call Harris to Trumelle
5/9/58
MATERIALS, NWO
Trumelle*

OFFICE ▶	FEED MATERIALS DIVISION					
SURNAME ▶	HARRIS <i>HR</i>	RENNICH <i>REN</i>	RUCH <i>RUCH</i>			
DATE ▶	5-6-58	5/6/58	12 May			

Office Memorandum • UNITED STATES GOVERNMENT

2540-A

TO : S. R. Sapirie, Manager
Oak Ridge Operations Office

DATE: APR 25 1958

FROM : J. C. Clarke, Deputy Manager
New York Operations Office

Jcc

2, 23.2

SUBJECT: THORIUM REQUEST FROM COLUMBIA UNIVERSITY
CONTRACT NO. AT(30-1)-GEN-72

SYMBOL: TL:MLJ

Attention: George Rennich

It is requested that you supply Columbia University with the following thorium material:

Four pieces, 3" wide, .076" thick, 24" long
Four pieces, 3" wide, .076" thick, 8" long

The thorium is to be used in connection with neutron cross section studies on the velocity selector at Nevis. We have been advised by Mr. Oscar Trumelle, Fernald Area Office, that this material is available at the National Lead Company, Cincinnati, Ohio.

Accountability for the material should be charged to station MCU, with delivery being made to:

Columbia University
Department of Physics
538 West 120th Street
New York 27, New York

Attention: R. W. Seigel, Assistant Director

Please advise us as to the delivery date and estimated charges of this material. Columbia has issued Purchase Order No. S 66588 to cover the cost of this transaction.

Your assistance in the procurement of this material is appreciated.

MATERIALS 5 MLJ
Trumelle

NYOO CASE NUMBER 95

TWX NR 22

PRIORITY

2.23.19

FM JOHN W RUCH USAEC OAKRIDGE TENN JULY 081805Z

TO C L KARL USAEC FERNALD AREA ROSS OHIO

INFO TO H V WERNER USAEC NYK

WE HAVE RECEIVED A REQUEST FOR 1950KGS OF 1.3 PER CENT ENRICHED URANIUM METAL DESCRIBED AS FOLLOWS CLN

840 KGS 45 SLABS 2-1/2 INCH X 1 INCH X 24 INCH /2INGOTS/

1110 KGS 68 BILLETS 2-1/2 INCH X 1 INCH X 24 INCH

THIS MATERIAL IS AUTHORIZED BY MATERIAL DRAFT NY00-4000-17 AND SHOULD BE IDENTIFIED AS SUCH ON THE SHIPPING FORM 101. MATERIAL SHOULD BE CHARGED TO STATION MSH AND SENT TO CLN

SYLVANIA-CORNING NUCLEAR COMPANY

CANTIAGUE ROAD, PLANT "B"

HICKSVILLE NEW YORK

ATTENTION CLN EDWARD E. JUNG

IN VIEW OF URGENCY SYLVANIA HAS INDICATED THAT THEY WILL PICK UP BILLETS BY TRUCK AS SOON AS AVAILABLE FOR SHIPMENT. ARRANGEMENTS FOR DELIVERY OF MATERIAL SHOULD BE CO-ORDINATED WITH SYLVANIA.

END REF OF CLN NAS TWX

END 58 JULY 09/1915Z END DD

MATERIALS 3-2
A.J. [signature]

99

July 8, 1958

JOHN W. RUCH, DIRECTOR
FEED MATERIALS DIVISION
OAK RIDGE OPERATIONS OFFICE
OAK RIDGE, TENNESSEE

ORIGINAL SIGNER
BY J. W. RUCH

2.23.79

P R I O R I T Y

U. S. ATOMIC ENERGY COMMISSION
FERNALD AREA OFFICE
ROSS, OHIO
FOR: C. L. KARL /ACTION/

U. S. ATOMIC ENERGY COMMISSION
NEW YORK OPERATIONS OFFICE
NEW YORK, NEW YORK
FOR: H. V. WERNER /INFO/

WE HAVE RECEIVED A REQUEST FOR 1950 KGS OF 1.3% ENRICHED URANIUM METAL
DESCRIBED AS FOLLOWS:

840 KGS 45 SLABS 2-1/2 INCH x 1 INCH x 24 INCH (2 INGOTS)
1110 KGS 68 BILLETS 2-1/2 INCH x 1 INCH x 21 INCH

THIS MATERIAL IS AUTHORIZED BY MATERIAL DRAFT NFOO-4000-17 AND SHOULD BE IDENTI-
FIED AS SUCH ON THE SHIPPING FORM 101. MATERIAL SHOULD BE CHARGED TO STATION
MSH AND SENT TO:

SYLVANIA-CORNING NUCLEAR COMPANY
CANTIAGUE ROAD, PLANT "B"
HICKSVILLE, NEW YORK
ATTENTION: EDWARD E. JUNG

IN VIEW OF URGENCY SYLVANIA HAS INDICATED THAT THEY WILL PICK UP BILLETS BY
TRUCK AS SOON AS AVAILABLE FOR SHIPMENT. ARRANGEMENTS FOR DELIVERY OF MATERIAL
SHOULD BE CO-ORDINATED WITH SYLVANIA. END REF OF:MAS

cc: R. C. Armstrong

MASHKETS

Rm 272

1:05 p.m.

7-8-58

OFFICE ▶

Feed Materials Division

SURNAME ▶

Sheets *MAS* Hennigh Ruch

DATE ▶

7-8-58

Handwritten signatures and initials: ESK, Ruch, 8/3/58

Production Division Rec'd 7-8-58

MATERIALS 3-2

RECEIVED
COMM. & RESEARCH
TELETYPE UNIT
BY

Contract No. AT-(30-1)-1524

May 7, 1958

Mr. E. J. Witkowski
Oak Ridge National Laboratory
Oak Ridge, Tenn.

Subject: Radioactive Waste Shipment From Model City, New York

Dear Sir:

Enclosed are the Bills of Materials for cars N.Y.C. 54807 & 7113 which will be shipped May 8. The radiation monitoring results are noted and the cars are placarded.

A copy of this Bill of Material is being sent to D. Manieri at KAPL for his records.

Very truly yours,

Paul Seager
Paul Seager
Design Engineer
P-31

PS:ka

cc: D.A. Manieri KAPL
F.W. Malone NF-ABC
J.D. Sweeney HEC
P. Seager HEC

Hooker Case File
 Env. Prot. Bureau
 N.Y.S. Department of Law
 New York, New York
 DCL-98-52385

Contract No. AT-(30-1)-1524

May 7, 1958

RADIOACTIVE WASTE MATERIAL
 IN BOX CAR N.Y.C. 54807
 DISPOSAL AT ORNL

<u>ITEMS</u>	<u>DESCRIPTION</u>	<u>MATERIALS</u>	<u>MAX. WEIGHT</u>
40 - Boxes	Wood	Misc. Scrap	750#/box
8 - Pallets	65 gal. c/s	Ashes	1260#/pallet
Totals	32 Drums	40 Boxes	

Estimated weight of car load 40,080

Monitoring Results:

Containers should not exceed 50 mr/hr

External Radiation

10 mr/hr at 12 ft. from outer surface of box car sides.

10 mr/hr at 5 ft. from ends of box car.

Paul Seager
 Paul Seager
 Design Engineer
 Plant 31

km

Contract No. AT-(30-1)-1524

May 7, 1958

RADIOACTIVE WASTE MATERIAL
IN BOX CAR N.Y.C. 71134
DISPOSAL AT ORNL

<u>ITEMS</u>	<u>DESCRIPTION</u>	<u>MATERIALS</u>	<u>MAX. WEIGHT</u>
41 Boxes	Wood	Misc. Scrap	750#/Box
4 Pallets	65 gal.c/s	Ashes	1260#/Pallet

Totals 16 Drums 41 Boxes

Estimated weight of car load 35,790#

Monitoring Results:

Containers should not exceed 200 mr/hr

External Radiation

10 mr/hr at 12 ft. from outer surface of box car sides.

10 mr/hr at 5 ft. from ends of box car.

Paul Seager
Paul Seager
Design Engineer
Plant - 31

Office Memorandum • UNITED STATES GOVERNMENT

DOL-08-02985

TO : K. E. Fields, General Manager
THRU : A. Tammaro, Assistant General Manager for
Research and Industrial Development
FROM : W. Kenneth Davis, Director
Division of Reactor Development
SUBJECT : APPROVAL OF LOAN OF AEC-FURNISHED MATERIALS TO
EDUCATIONAL INSTITUTIONS
SYMBOL : RD:EDB:GVP

DATE: MAY 9 1958

The universities and colleges listed in the attachment to this memorandum have requested the loan of the corresponding amounts of source, special nuclear and other material. I am submitting this list of requests to you for your consideration in accordance with AEC 267/42 which authorizes you to approve the loan of AEC-furnished materials to non-profit educational institutions.

The total amounts of source and special nuclear material loaned to educational institutions in FY 1958, including those submitted in my memorandums to you dated September 13, 1957, and January 10, 1958, which you approved, and the amounts in the attachment to this memorandum are within the limits established in AEC 267/40.

All of the institutions in the attachment are qualified under the AEC educational assistance program to receive the loan of materials requested. They will be advised that they must possess the appropriate licenses as required before the materials are released to them. Therefore, it is recommended that you approve the loan of the indicated amounts of source, special nuclear and other material to the respective educational institutions listed in the attachment.

Attachment:

List of educational institutions requesting the loan of AEC-furnished material.

Approved:

K. E. Fields
K. E. Fields, General Manager

5/23/58
Date

MAY 29 1958

**EDUCATIONAL INSTITUTIONS REQUESTING THE LOAN WITHOUT CHARGE
OF AEC-FURNISHED MATERIALS**

<u>Institution</u>	<u>Natural Uranium, Kgs.</u>	<u>Contained U-235, Gms.</u>	<u>Plutonium, gms., (In Pu-Be neutron sources unless noted)</u>	<u>Other Material</u>
University of California Berkeley, California			80	20(1)
The Catholic University of America Washington, D.C			16	
Cornell University, Ithaca, New York		100	32	25(1)
State University of Iowa ✓ Iowa City, Iowa	1088 ✓			
The University of Missouri School of Mines & Metallurgy Rolla, Missouri			64	
The University of New Mexico Albuquerque, New Mexico			16	
San Diego State College San Diego, California		1	33(2)	1(3)
Syracuse University Syracuse, New York	2500		16	
A&M College of Texas College Station, Texas			32	
Walla Walla College College Place, Washington			16	
TOTAL	<u>3,588</u>	<u>101</u>	<u>305</u>	

(1) Curies of Polonium in Po-Be neutron sources.

(2) Thirty-two (32) grams of Pu in Pu-Be neutron sources and one (1) gram for chemical studies.

(3) One (1) gram of U-233 for chemical studies.

3.3

COPY

May 13, 1958

Mr. F. H. Belcher
Area Manager
U. S. Atomic Energy Commission
P. O. Box 470
St. Charles, Missouri

Attention: Mr. H. R. Osterwald

SUBJECT: Shipment Against Special Request No. 144

Dear Mr. Belcher:

In accordance with your request, you are hereby notified that we have made the following shipment:

TO: Brussels World's Fair
Attn: Mr. William Taback
45 Broadway
New York, New York

1. Date of AEC Request: February 20, 1958
February 21, 1958 (Rev. 1)
2. Date of Shipment: February 25, 1958
3. Weight Shipped: 175 Kgs. U (472 lbs. UO₃)
4. Transfer Form: MCW-DIA #2
5. Identification: Brussels Fair, Budget No. 874X

Very truly yours,

MALLINCKRODT CHEMICAL WORKS
URANIUM DIVISION

W. J. Shelley

WJS:ER:er

May 13, 1958

253
COPY

Mr. F. H. Belcher
Area Manager
U. S. Atomic Energy Commission
P. O. Box 470
St. Charles, Missouri

Attention: Mr. H. R. Osterwald

SUBJECT: Shipment Against Special Request No. 145

Dear Mr. Belcher:

In accordance with your request, you are hereby notified that we have made the following shipment:

TO: Westinghouse Electric Corporation
Atomic Power Division
Bettis Field
Homestead, Pennsylvania
Attn: F. P. Baggerman/Conklin

1. Date of AEC Request: March 20, 1958
2. Date of Shipment: April 4, 1958
3. Weight Shipped: 0 Kgs. U (10.5 grams Flame Fused UO₂)
4. Transfer Form: MCW-WEM #51
5. Identification: CCO-400-102

Very truly yours,

MALLINCKRODT CHEMICAL WORKS
URANIUM DIVISION

W. J. Shelley

WJS:ER:er

MALLINCKRODT CHEMICAL WORKS
URANIUM DIVISION
WELDON SPRING

3.3

May 13, 1958

COPY

Mr. F. H. Belcher
Area Manager
U. S. Atomic Energy Commission
P.O. Box 470
St. Charles, Missouri

Attention: Mr. H. R. Osterwald

SUBJECT: Shipment Against Special Request No. 146

Dear Mr. Belcher:

In accordance with your request, you are hereby notified that we have made the following shipment:

TO: H. F. Stringfield
ORNL X-10 Area
Oak Ridge, Tennessee
Attn: T. D. Napier

1. Date of AEC Request: March 25, 1958
2. Date of Shipment: April 8, 1958
3. Weight Shipped: 11 Kgs. U (50 lbs. Normal UNH Crystals)
4. Transfer Form: MCW-ORL #11
5. Allotment: 0000

Very truly yours,

MALLINCKRODT CHEMICAL WORKS
URANIUM DIVISION

W. J. Shelley

WJS:ER:er

MALLINCKRODT CHEMICAL WORKS
URANIUM DIVISION
WELDON SPRING

3.3

24²

May 13, 1958

COPY

Mr. F. H. Belcher
Area Manager
U. S. Atomic Energy Commission
P. O. Box 470
St. Charles, Missouri

Attention: Mr. H. R. Osterwald

SUBJECT: Shipment Against Special Request No. 147

Dear Mr. Belcher:

In accordance with your request, you are hereby notified that we have made the following shipment:

TO: Westinghouse Electric Corporation
Atomic Power Division
Bettis Field
Homestead, Pennsylvania
Attn: F. P. Baggerman/G. P. Stevenson

1. Date of AEC Request: March 31, 1958
2. Date of Shipment: April 3, 1958
3. Weight Shipped: 2,025 Kgs. U (5,071 lbs. WAPD Type UO₂)
4. Transfer Form: MCW-WEM #52
5. Allotment: COO-4000-104

Very truly yours,

MALLINCKRODT CHEMICAL WORKS
URANIUM DIVISION

W. J. Shelley

WJS:ER:er

MALLINCKRODT CHEMICAL WORKS
URANIUM DIVISION
WELDON SPRING

3.3

COPY

May 13, 1958

Mr. F. H. Belcher
Area Manager
U. S. Atomic Energy Commission
P. O. Box 470
St. Charles, Missouri

Attention: Mr. H. R. Osterwald

SUBJECT: Shipment Against Special Request No. 150

Dear Mr. Belcher:

In accordance with your request, you are hereby notified that we have made the following shipment:

TO: Nuclear Metals, Inc.
Cambridge, Mass.

1. Date of AEC Request: April 15, 1958
2. Date of Shipment: April 29, 1958
3. Weight Shipped: 270 Kgs. U (596 lbs. Uranium Metal Billets)
4. Transfer Form: MCW-MIO #12
5. Allotment: NYO-400-12

Very truly yours,

MALLINCKRODT CHEMICAL WORKS
URANIUM DIVISION

W. J. Shelley

WJS:ER:er

276
3.3

F. H. Belcher, Area Manager
St. Louis Area Office

February 17, 1958

John W. Ruch, Director, Feed Materials Division
Oak Ridge Operations Office

PROCUREMENT OF NORMAL UO₃ FOR BRUSSELS FAIR

SYMBOL: OF:MAS

We have received a request for normal UO₃ to be used as an exhibit at the Brussels World Fair of 1958. We concur with this request for 175 Kg U contained in normal UO₃.

This material is authorized by a certified material draft, of which we have a copy.

Shipment should be made to:

Mr. Howard S. Cullman
U. S. Commissioner General
Brussels Universal and International Exposition
15 Broadway
New York, New York

As the sailing date is February 28, 1958, we would appreciate your arranging for shipment of this material as soon as possible.

Shipping instructions are enclosed.

ORIGINAL SIGNED
BY J. W. RUCH

John W. Ruch

VNF
Enclosure:
Shipping Instructions (2)

CC: R. C. Armstrong
OK John A Hall, DIA, THRU E J Bloch

MATERIALS

OFFICE ▶	Feed Materials Division	<i>Bennich</i>			
SURNAME ▶	<i>MBS</i> Sheets:mf	<i>Ruch</i> Bennich	<i>Ruch</i>		
DATE ▶	2/17/58	<i>2/18/58</i>	<i>2/18/58</i>		

Roll 121

Hacker Case File
Env. Prot. Bureau
N.Y.S. Department of Law
New York, New York

Contract No. AT-(30-1)-1524

1986
May 14, 1986

Mr. E. J. Witkowski
Oak Ridge National Laboratory
Oak Ridge, Tenn.

Subject: Radioactive Waste Shipment From Model City, New York

Dear Sir:

Enclosed are the Bills of Materials for car LHM 93126 which will be shipped May 14. The radiation monitoring results are noted and the cars are placarded.

A copy of this Bill of Material is being sent to D. Maneri at KAPL for his records.

Very truly yours,

Paul Seager
Paul Seager
Design Engineer
P-31

PS:km
cc: D.A. Maneri KAPL
F.W. Malone NF-ABC
J.D. Sweeney H&C
P. Seager H&C

Hooker Case File 2985
Env. Prot. Bureau
N.Y.S. Department of Law
New York, New York

FOIA Materials from DOE

Roll 121

Contract No. AI-(30-1)-152h

May 14, 1953

RADIOACTIVE WASTE MATERIAL
IN BOX CAR LSN 98126
DISPOSAL AT ORNL

<u>ITEMS</u>	<u>DESCRIPTION</u>	<u>MATERIALS</u>	<u>MAX. WEIGHT</u>
44 - Boxes	Wood	Misc. Scrap	750#/box

Estimated weight of car load 33,000#

Monitoring Results:

Containers should not exceed 50 mr/hr

External Radiation

10 mr/hr at 12 ft. from outer surface of box car sides.

10 mr/hr at 5 ft. from ends of box car.

Paul Seager
Paul Seager
Design Engineer
Plant 31

km

May 15, 1958

Mr. Rice

OBLIGATIONS UNDER CONTRACTS
WITH AFRICAN METALS CORPORATION

Commission Obligations					African Metals Corporation		
<u>Contract</u>	<u>Code Description</u>	<u>Where Stored</u>	<u>Weight</u>	<u>Contract Ref.</u>	<u>Provision</u>	<u>Contract Ref.</u>	<u>Provision</u>
GDA-TAB-2	K-65 Radium Bearing Sludges	Niagara Falls (1 Silo)	11,000 T Wet Weight	Par. 5(c)	Construct or acquire and maintain outdoor bulk storage facilities acceptable to both parties. Delivery of sludges shall be made to Afri-Met after weighing and sampling and such sludges shall be at the risk of Afri-Met after placement in storage.		
		Fernald (2 Tanks)	24,600 T Wet Weight		Commission agrees to store such sludges until 10 years after date of first delivery of such sludges resulting from processing of ore and ore concentrates.		
				Par. 5(d)	Withdraw at its expense from storage and ship as Afri-Met may require packed in suitable containers to port. (See Note 1)		
				Par. 5(e)	Pays for costs of acquiring and constructing storage facilities.	Par. 5(e)	If wishes to withdraw from storage and ship as specified in Par. 5(e), reimburses Commission for cost of storage facilities by paying an amount equal to cost of containers, packing and shipping until amount spent by Commission for storage facilities is equalled. (See Note 2)

<u>Contract</u>	<u>Code Description</u>	<u>Where Stored</u>	<u>Weight</u>	<u>Commission Obligations</u>		<u>African Metals Obligations</u>	
				<u>Contract Ref.</u>	<u>Provision</u>	<u>Contract Ref.</u>	<u>Provision</u>
DDA-TAB-2	K-65 (continued)			Par. 5(e)	Pays for expense of main- taining storage facilities, including the guarding of the storage areas.	Par. 5(e)	Reimburses the Commission quarterly for one-half the maintenance expenses, including the cost of guarding. (See Note 3)
				Par. 5(e)	Grants option to Afri-Met to purchase storage facilities at any time during ten-year period after delivery of K-65 to storage. Purchase cost: amount equal to total cost of Commission's ac- quiring and constructing facilities reduced by amounts Afri-Met has paid as amounts equivalent to cost of withdrawal, packing and shipping of K-65. (See Note 4)	Par. 5(f)	Abandons K-65 sludges, unless otherwise agreed, if does not exercise option to purchase storage facilities or does not instruct Commission to ship K-65 remaining in storage at end of 10-year period.
CDA-TAB-2	Metal oxides in the form of sludges con- taining metals and minerals other than radium, such as nickel, lead and precious metals.	Fernald (Sampling Plant, 14 silos)	2,500 T	Par. 5(a)	Will make such sludges available to Afri-Met not later than three years after ore and ore concen- trates have been delivered.		
				Par. 5(a)	Agrees to store for its own account until shipping facilities to Location E is available to Afri- Met unless Afri-Met elects to have sludges placed in bulk storage.		

2404

<u>Contract</u>	<u>Code Description</u>	<u>Where Stored</u>	<u>Weight</u>	<u>Commission Obligations</u>		<u>African Metals Obligations</u>	
				<u>Contract Ref.</u>	<u>Provision</u>	<u>Contract Ref.</u>	<u>Provision</u>
CDA-TAB-2 (continued)	Metal oxides (continued)			Par. 5(g)	Stores in outdoor bulk storage, acceptable to both parties, at Afri-Met's risk.	Par. 5(g)	Unless removed, and without other agreement, within ten-year period Afri-Met abandons to Commission. (See Note 5)
W-7405- Eng-9h	D-7 Radium bearing sludge containing approximately 50% moisture. (See Note 6)	Niagara Falls	20,000 T	Par. (b) (3) Article I	<p>Agrees to pack in non-returnable Commission-furnished containers and return to Afri-Met, F.O.B. Location B, on or before June 30, 1958, upon six months written notice from Afri-Met to do so. (See Note 7)</p> <p>Commission agrees to retain in bulk storage in fenced-in area and under guard until June 30, 1958. Bears cost of storage to June 30, 1957.</p> <p>Commission not responsible for loss, destruction or damage unless caused by bad faith or wilful misconduct on part of Commission representative.</p>	Par. (b)(3) Article I	<p>Abandons, if fails to give 6 months notice to pack and return on or before June 30, 1958, title to vest in the Commission.</p> <p>Bears cost of storage after June 30, 1957. (See Note 3)</p>

2405

<u>Contract</u>	<u>Code Description</u>	<u>Where Stored</u>	<u>Weight</u>	<u>Commission Obligations</u>		<u>African Metals Obligations</u>	
				<u>Contract Ref.</u>	<u>Provision</u>	<u>Contract Ref.</u>	<u>Provision</u>
W-7405- Eng-280	F-32, Radium-bearing sludge containing approximately 50% moisture	Niagara Falls (Bldg. 5437)	338 Tons (Wet)	Sub-Par. (1)	Commission retains in storage within a fenced-in area and under guard until June 30, 1958, or such later date as may be agreed in writing, or until it has been removed by the contractor.	Sub-Par. (1)	Storage is at Contractor's sole risk without liability being imposed on Commission by loss, shrinkage, destruc- tion, damage, or other cause during such storage period. Storage subsequent to June 30, 1957, at Contractor's sole expense.
					Within six months after receipt of notice of repossession, Commission will repack, load and ship to the Contractor.		Contractor at its option, may repossess at any time to June 30, 1958, or such later date as may be agreed upon in writing, by written re- quest to the Commission 6 months in advance of date of repossession.
							Repacking, loading and shipment costs at sole risk and expense of Contractor.
							In event F-32 not removed from the storage area by June 30, 1958, or such later date as may be agreed upon in writing, pursuant to exercise, by Contractor the parties agree that title to F-32 will, upon said date, pass to the Commission with- out further action by either party unless they, in the meanwhile, shall have reached a contrary agreement. (See Note 8)

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NOTES TO OBLIGATIONS UNDER CONTRACTS
WITH AFRICAN METALS CORPORATION

NOTE

- 1 NLO has estimated K-65 removal operating, drumming and freight costs of \$1,016,378 (See NLO letter, 4-28-53). Using NLO cost estimates as a basis, costs for the same K-65 removal items at Niagara Falls would approximate \$402,118. A total cost at both sites thus totals \$1,418,496. The following data relates to the above computations:

	<u>Fernald</u>	<u>Niagara Falls</u>	<u>Total</u>
<u>K-65 Quantities</u>			
A. Wet Weight (Lbs.)	49,200,000	22,000,000	71,200,000
B. Dry Weight (Lbs.)	24,600,000	11,000,000	35,600,000
C. Plus 25% Water by Weight (Lbs.)	<u>6,150,000</u>	<u>2,750,000</u>	<u>8,900,000</u>
Total B&C (Lbs.)	30,750,000	13,750,000	44,500,000
D. Weight of Drums (Lbs.)	<u>2,475,000</u>	<u>1,106,000</u>	<u>3,581,000</u>
Total (Lbs.)	33,225,000	14,856,000	48,081,000
<u>Costs</u>			
E. Operating (\$)	\$ 317,490	\$ 141,625	\$ 459,115
F. Drums and Liners (\$)	316,800	141,645	458,445
G. Freight (\$)	<u>382,088</u>	<u>118,848</u>	<u>500,936</u>
Total (\$)	\$ 1,016,378	\$ 402,118	\$1,418,496

In addition, Fernald estimates removal would require \$210,000 more to cover capital cost for facilities required to remove K-65 from two concrete storage tanks and to pack in 55-gallon drums. Niagara Falls capital improvements, preliminary to withdrawal, would probably be upwards of one-half Fernald capital estimates. An "order of magnitude" estimate for capital additions on the two sites would approximate \$300,000.

2 4 0 /

- 2 Acquisition and construction of two tanks at Fernald cost \$229,887; the silo at Niagara Falls cost \$130,899. Deducting these reimbursable amounts from the total estimated operating, drums and freight costs of \$1,418,196 and capital addition estimates of \$300,000 (See Note 1, above), the net cost to the Commission in withdrawing K-65 would be about \$1,358,000.
- 3 African Metals is currently paying the Commission quarterly for one-half the cost of K-65 storage at Fernald and Niagara Falls and full cost of Eng-94 and Eng-280 materials stored at Niagara Falls. Payment is based on a pre-determined estimate developed by Headquarters and agreed to by African Metals. Quarterly payments follow:

<u>Contract</u>	<u>Quarterly Rate</u>	
TAB-2	\$3,612.665	(Niagara Falls)
	2,831.875	(Fernald)
	6,444.540	
Eng-94)	4,198.02	(Niagara Falls)
Eng-280)		
	<hr/>	
Total	\$10,642.56	
	<hr/>	
Annual Rate	\$42,570.24	

- 4 No withdrawal has been made; consequently there would be no deduction in acquisition cost. However, Headquarters says that the Commission's ability to fulfill its obligation under this option is highly questionable (Eskildson's memo to Bloch, 4-23-58).
- 5 NLO estimates labor, material (drums), and alterations to Plant 1 Silos in withdrawal of metal oxides at \$128,000. It would appear that costs for withdrawal would be for Afri-Met's account. If long term storage is involved after withdrawal from Sampling Plant silos, NLO suggests indoor storage at a building cost of \$140,500. (See letter, Ericson to Fietsam, May 5, 1958.)

- 6 Malone's memo to Ruch, dated December 17, 1957, says cannot tie in code designations of Contract 94 with codes of material his records show. The memo lists K-65 and F-32, the codes used in Eng-280. Therefore, the following Niagara Falls coded materials are included under Contract 94:

<u>Code</u>	<u>Net Weight</u>	<u>Dry Weight</u>	<u>Storage Building</u>
L-30	17,120 Tons	8,750 Tons	5435 (410) 5421 (411)
L-50	3,224 Tons	1,750 Tons	5432 (414) 5433 (413)
P-54	12 Tons		5435 (410)

- 7 Cost to the Commission, if packing and shipping of L-30 and L-50 were required, approximates \$768,000, detailed as follows:

Operating Cost (Based on 21,000,000 pounds, dry weight L-30 and L-50, and adding 25% water by weight factor, bringing total to 26,250,000 pounds @ \$0.0103 per pound)	\$270,375
Drums and Liners (38,415 @ \$7.04)	270,442
Freight, Niagara Falls to New York (28,362,825 pounds @ \$0.80 cwt)	226,902
Total	\$767,719

2405

- 8 Excluding any capital additions that may be necessary in removal of F-32, cost to Afri-Met for reprocessing F-32 would approximate \$17,000, summarized as follows.

F-32

Dry Weight (Lbs.)	462,000
Plus 25% water by weight (lbs.)	577,500
Plus drums weight (lbs.)	623,975

Costs

Operation (\$)	\$ 5,948
(577,500 x \$0.0103)	
Drums and Liners (\$)	\$ 5,949
845 x \$7.04	
Freight F.O.B. New York (\$)	\$ 4,987
623,975 # @ \$0.80 cwt	
Total	\$ 16,884

PRESENT ARRANGEMENTS
FOR AFRICAN METALS STORAGE

4-22-58

ESTIMATES PREPARED BY
UNADMITTED MEETING OF
4-22-58. OFFICE USAF
WITH RESERVE OFFICERS,
BOYD, DISTRICT

AFRICAN METALS CORP.
CONTRACT

QUARTERLY
RATE

CDA-TAB No. 2 (Revised) (K-66)

Par. 5 (a) provides that the cost of storage facilities and the expense of maintaining the storage, including the guarding of the storage area, shall be paid for by the Buyer. The Seller agrees to reimburse the buyer quarterly for one-half of the maintenance expense including the cost of guarding.

Expiration date is 10 years after date of first delivery (4-2-46)

N-7405 - Eng - 94
N-7405 - Eng - 280

(F-32)
(D-7)

\$ 3612.665 (Niagara Falls)

2831.875 (Fernald)

{ 4198.02 (Niagara Falls)

These charges are based on a study by Orton W. Boyd, Special Assistant for Accounting, Division of Finance, Headquarters. (Reference: memorandum, Boyd to Walker E. Campbell, dated May 27, 1957, Subject: "Allocation of Storage Charges to African Metals Corporation.")

TAB No. 2, Charges for Fernald, are set forth in Exhibit C of the Boyd memorandum, while TAB No. 2 and Eng. Contracts charges appear in Exhibit A of the Boyd memorandum.

Under conditions set forth in Supplemental Agreement No. 4 (Eng-230) and Supplemental Agreement No. 14 (Eng-280), the Commission by letters dated December 30, 1957, extended the period for storage of African Metals materials to June 30, 1958.

Note: Depreciation of facilities for storage of African Metals materials is not included in the Boyd memorandum. This is consistent with TAB-2 provisions. For revised estimates, depreciation of buildings is included, as suggested in Headquarters memo of March 13, 1958.

The contractor bears the cost of such storage.

10,642.56 (Total)

AFRICAN METALS STORAGE
VALUATIONS OF BUILDINGS AND LAND

	Capacity (Cubic Ft.)	Original Cost	Annual Depreciation Rate	Annual Depreciation	Land (Acres)	Values of Land
<u>NIAGARA FALLS</u>						
Building 434 (K-65 Silo)	170,000	\$130,899	.02	\$2,618	4.0	\$340.00
Building 410 (Filter Bldg.)	25,000	209,115 (A)	.02	4,182	3.0	255.00
" 411 (Cooling Reservoir)	640,000					
" 5437 (Recarbonation Basin)	24,000					
" 413 (Accelerator)	38,000					
" 414 (Accelerator)	38,000					
		(A) Acquisition Cost = \$169,000				
		Improvement = 40,115				
		Total = \$209,115				
<u>FERNALD</u>						
2 - K-65 Tanks @ 125,000 cu. ft.	250,000	229,887	.02	4,598	2.15*	1,099.40
4 - Silos @ 6,400 cu. ft.	25,600	314,200	.02	6,284		
10 - Silos @ 18,800	18,800					
2 Decant pumps & motors	4,800		.0667	320		
Fencing	11,945		.04	478		

(A) Acquisition Cost = \$169,000
Improvement = 40,115
Total = \$209,115

4,598 }
6,284 } - 255
2.15* 1,099.40 → \$11.35/acre
ACQUISITION COST
CALCULATED ON 240000

(c) include site depreciation
* 74000 S.O.FT.
143,380 S.O.FT = 100000

ESTIMATED ANNUAL COSTS FOR STORAGE
AFMET MATERIAL AT NIAGARA FALLS

COMMENTS

LABOR

Surveillance 10 1/2 man hours per year @ \$2.04/hr.	\$ 212.16	Surveillance assumes a bi-weekly physical check of one hour each check of interior of storage facilities. Other incidental checking during the week will come with routine surveillance such as shift-check of the fire water pump in Building 410 where Afmet materials are stored.
Maintenance 240 man hours per year @ \$2.38/hr.	\$ 531.20	Includes labor for miscellaneous painting, building repairs of minor nature, re-drumming or other clean-up, snow-plowing, grass-cutting, etc.
Custodian 96 man hours per year @ \$3.46/hr.	\$ 332.16	Includes supervision of above labor, such paper work as may be involved, etc.
Overhead on Labor @ 40%	\$ 430.21	
Material	\$ 100.00	Includes paint, lumber, drums, etc.
Engineering Inspection	\$ 72.00	This contemplates 10% of time of total engineering inspection will be devoted to inspection of K-65 tower (Building 434)
Depreciation expense	\$ 6800.00	
15% added factor	\$ 1271.66	
 Total Estimated Costs	 \$ 9749.39	 (ORIGINAL = \$2437.35)

NOTE: The above estimates apply under conditions where there is contractor standby maintenance of the total plant Boron Metals Plant and surrounding area. The approach taken is to estimate what the "out of pocket" AEC costs will be for storage, including guarding, of African Metals material, as such storage relates to the total standby effort.

2 4 1 3

ESTIMATED ANNUAL COSTS FOR STORAGE
 OF NET MATERIAL AT FERNALD
 (K-65 AND METAL OXIDES)

Labor - Operating

156 man hours per year at \$3.27 per hour \$ 510.12

Operating labor is based on the assumption that the K-65 slurry will dry down to radium salt under which condition it would be advisable to limit routine inspection to one day a week.

Labor - Mechanical

20 man hours per year at \$3.24 per hour 64.80

Inspection by maintenance forces will not be necessary as such inspections are made by chemical operators. The estimate includes painting of railing and steps on the tanks.

Overhead on Labor

Distribution of G&A Expense at \$2.464 per hour 433.66

Overhead on labor is based on the G&A and mechanical rates for labor hours as shown on the March 1968 closing entry work papers.

Distribution of Mechanical Overhead at \$1.546 per hour 30.92

Material - Maintenance

26.00

Material expense is an estimate of annual costs of paint and sundries used in preventive maintenance of the tanks and silos.

Total Labor, Material and Overhead Expense 1,064.60

Depreciation Expense 11,830.00

AEC Costs 15% 1,911.68

Total Estimated Costs \$ 14,666.18

(Quantity = \$3664.04)

Hooker Case File
Env. Prot. Bureau
U.S. Department of Law
New York, New York

NY 108-92985

May 19, 1958

E. A. Belmore
Acting Department Head
Plant 31
Model City, New York

Subject: DEACTIVATION OF EMP PLANT

Dear Mr. Belmore:

The following comments are submitted to clarify any further questions you may have on standby preparation, closed down records, storage and disposal of records, disposal of AEC Office, plant model and etc.

1. We are agreeable that the determination of which items should be excessed can be left to the Hooker Plant Engineer. I believe that from previous discussions with the AEC, he has enough information to go on. However, he should feel free to come to us for any additional information he may require.
2. The Stores Department will, under your supervision, handle and prepare all documents relative to the removal and storage of government property of all types.
3. The Stores and Accounting Departments will be responsible for the preparation of a final inventory list of all real estate, buildings, roads, utilities, supplies and equipment remaining at the site come July 1, 1958.
4. This office will try to give you constant direction and the necessary authority for disposal of government property by transfer, donation or sale. All Forms 67 used for shipping government property will require AEC approval. This will eliminate the necessity of our furnishing written requests for you to ship property as in the past.
5. A spot-bid-sale will be conducted for the AEC by Hooker no later than June 20. This sale should cover all items of government property remaining at the site for which disposal could not be made by transfer or donation.
6. Any items of government property remaining as of June 30 will be transferred over to the standby contractor for custody or use.

OFFICE >					
SURNAME >					
DATE >					

7. We go along with Mr. Sweeney's decision to moth-ball the neutron counter as an item critical to the operation of the plant.
8. The AEC will require two complete sets of current and revised prints. I understand there are about 800 prints - about 1/2 S & B and about 1/2 Hooker. One complete set of current and revised prints should be retained by Hooker in their contract records. The Hooker copies can be stored in existing map files or locked wooden containers in the Engineering Office.
9. All classified contract records should be reviewed to make sure that only the record copies are retained for storage. The records can be stored in existing metal files or cardboard storage containers. The records should be stored in one location. The Engineering Office is suitable with us.
10. An inventory of classified records should be made. Duplicate and non-record material should be destroyed. The remaining classified record material should be sent to the Oak Ridge Supply Division, Attention Records Manager. A certification of non-possession should be signed and sent to the Oak Ridge Security Office. Because of the wide distribution covering the Abstracts of Classified Documents, it is not necessary that your copies be returned to Oak Ridge. They can be destroyed in accordance with existing security regulations covering the destruction of classified records.
11. Where items of government property have been shrouded, cocooned or painted, special attention should be given to the preserving of the AEC property numbers on the protective surfaces. This will facilitate the locating of specific property items at a later date.
12. Where standby funds permit, the equipment and general appearance of the operating areas of the plant will be tidied up by rough painting the surfaces. This also applies to the corroded areas of the old hot-wire Phase II area. The AEC should be advised of any areas of work that are required for standby preparation that could not be completed by June 30.
13. The plant model and accessories previously used for exposition and demonstration purposes should be boxed and labeled for future use.
14. The Maintenance and Surveillance Manual as prepared by Hooker, has been accepted and in small part supplemented in the AEC Invitation to Bid For Standby Contractors. Hooker has a copy of the invitation.
15. The AEC Office will be left as is. Any further standby preparation will be undertaken by the standby contractor.

OFFICE ▶					
SURNAME ▶					
DATE ▶					

Page 3 - DEACTIVATION OF BMP PLANT

- 16. It is expected that in the near future the First Aid Room can be deactivated and the special nurse released to the main plant. I understand that you have qualified first aid people available for carrying on.
- 17. The necessity for continued use of the telephone switchboard should be investigated.
- 18. The fire truck and ambulance, we expect, will be released in the next two weeks.
- 19. The fire headquarters will be prepared for use as a maintenance headquarters. The general criteria, as developed by your Plant Engineer, can be followed.
- 20. No standby preparation will be made to the fire water pump house, water meter pit and the electrical metering house. We expect the water facilities will be turned over to the Air-Force before July 1.
- 21. Cafeteria service will continue as long as ten or more persons remain on the day shift.

Very truly yours

F. W. Malone
U. S. Atomic Energy Commission
Chief, Niagara Falls Branch

F.H:jc

C/c J. W. Kuch - OK

OFFICE ▶					
SUBURANE ▶					
DATE ▶					

Hooker Case File
 Env. Prot. Bureau
 N.Y.S. Department of Law
 New York, New York
 DOI-08-02985

Contract No. AT-(30-1)-152

May 19, 1958

Mr. S. J. Witkowski
 Oak Ridge National Laboratory
 Oak Ridge, Tennessee

Subject: Radioactive Waste Shipment From Model City, New York

Dear Sir:

Enclosed are the Bills of Materials for car N.Y.C. 64424 which will be shipped May 20. The radiation monitoring results are noted and the cars are placarded.

A copy of this Bill of Material is being sent to D. Manieri at KAPL for his records.

Very truly yours,

Paul Seager

Paul Seager
 Design Engineer
 P-31

ES:km

cc:	D.A. Cantieri	KAPL
	F.W. Malone	RF-ASC
	J.D. Sweney	HC
	P. Seager	HC

Header Case File
 Env. Prot. Bureau
 N.Y.S. Department of Law
 New York, New York

DOL-08-02985

Contract No. AT-(30-1)-1524

May 19, 1958

RADIOACTIVE WASTE MATERIAL
 IN BOX CAR N.Y.C. 64424
 DISPOSAL AT ORNL

<u>ITEMS</u>	<u>DESCRIPTION</u>	<u>MATERIALS</u>	<u>MAX. WEIGHT</u>
45 - Boxes	Wood	Misc. Scrap	750#/box

Estimated weight of car load 33,750#

Monitoring Results:

Containers should not exceed 200 mr/hr

External Radiation

10 mr/hr at 12 ft. from outer surface of box car sides.

10 mr/hr at 5 ft. from ends of box car.

Paul Seager
 Paul Seager
 Design Engineer
 Plant 31

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Contract No. AT-(30-1)-152

May 29, 1958

Mr. A. J. Witkowski
Oak Ridge National Laboratory
Oak Ridge, Tenn.

Subject: Radioactive Waste Shipment From Model City, New York

Dear Sir:

Enclosed are the Bills of Materials for cars ATX 203 & 209 which will be shipped May 29. The radiation monitoring results are noted and the cars are placarded.

A copy of this Bill of Material is being sent to D. Macieri at KAPL for his records.

Very truly yours,

Paul Seager

Paul Seager
Design Engineer
P-31

ES:ka

cc: D.A. Manieri KAPL
R. J. Malone WF-AMC
J.D.weeney HEC
P. Seager HEC

Contract N. AT-(30-1)-1524

May 29, 1958

RADIOACTIVE WASTE MATERIAL
IN BOX CAR ATMX 208
DISPOSAL AT ORNL

<u>ITEMS</u>	<u>DESCRIPTION</u>	<u>MATERIALS</u>	<u>MAX. WEIGHT</u>
42 Boxes 2 Pallets	Wood 65 gal.c/x	Misc. Scrap Ashes	750 #/Box 630 #/Pallet

Totals 4 drums 42 boxes

Estimated weight of car load 32,760#

Monitoring Results:

Containers should not exceed 200 mr/hr

External Radiation

10 mr/hr at 12 ft. from outer surface of box car sides.

10 mr/hr at 5 ft. from ends of box car.

Paul Seager
Paul Seager
Design Engineer
Plant - 31

km

Contract No. AT-(30-1)-1524

May 29, 1953

RADEOACTIVE WASTE MATERIAL
IN BOX CAR ATMX 209
DISPOSAL AT ORNL

<u>ITEMS</u>	<u>DESCRIPTION</u>	<u>MATERIALS</u>	<u>MAX. WEIGHT</u>
35 Boxes	Wood	Misc. Scrap	750 #/Box
10 Pallets	65 gal.c/x	Ashes	1260 #/Pallet

Totals 36 Drums 35 Boxes

Estimated weight of car load 33,350#

Monitoring Results:

Containers should not exceed 200 mr/hr

External Radiation

10 mr/hr at 12 ft. from outer surface of box car sides.

10 mr/hr at 5 ft. from ends of box car.

Paul Seager
Paul Seager
Design Engineer
Plant - 31

km

4410

4411

Hooker Case File
Env. Prot. Bureau
N.Y.S. Department of Law
New York, New York

FOIA MATERIALS FROM DOE

Roll 121

WILLIAM A. CONSODINE
COUNSELOR AT LAW

744 BROAD STREET
NEWARK, NEW JERSEY
MARKET 2-7856

June 6, 1958

6/10/58

Mr. John R. Moore
Director of Contract Division
Atomic Energy Commission
Post Office Box E
Oak Ridge, Tennessee

Dear Mr. Moore:

I represent African Metals Corporation. I have had a discussion with several of your representatives and telephone conversations with them regarding the leasing of premises at Lake Ontario Ordinance Works and Fernald, Ohio.

As a result of the conferences and conversations, it is satisfactory to my client that

(1) The rental for each of the two areas be \$1,000 per year payable in advance on whatever basis you desire;

(2) The Lake Ontario Ordinance Works lease and our assumption of obligation under it will be effective on July 1, 1958. In this regard, my client may not have completed the fencing on that date, but will do it as expeditiously as possible thereafter;

(3) The Fernald lease will begin sometime around September, 1958. I suggest September 30 as the end of a quarter. This will thus enable us to make the two leases contemporaneous in time by having the Fernald lease one-quarter of a year shorter in time;

(4) The leases shall be for 25 years except as changed in regard to Fernald as stated in (3) above;

(5) We will make every effort to remove materials from the refining area at Fernald as soon as possible;

(6) We will apply for license under the Atomic Energy Act if you deem such necessary;

(7) Under the lease, which would establish a normal lessor-lessee relationship, the responsibility to maintain the leased premises would be ours;

3372

DC

ROLL 121

Hooker Case File
Env. Prot. Bureau
N.Y.S. Department of Law
New York, New York

Mr. John R. Moore

-2-

June 6, 1958

2434

(8) As part of the lease arrangement, we would give up our right to abandon the stored content at both Lake Ontario and Fernald;

(9) At the time of removal of the stored content, we would not have an obligation to remove fencing, to fill new pits etc., or to restore the land to its original condition;

(10) The leases would be subject to any easements of record no matter to which party beneficial;

(11) The Fernald lease would provide that we would comply with the security regulations existing at Fernald;

(12) The lease would provide that the landlord would be saved harmless of any claims arising out of the operations by the lessee even though these operations be purely negative such as storage or warehousing;

(13) The lease arrangement may be terminated by lessee earlier than the leased period upon removal of the stored content and the surrender of the premises to the lessor;

(14) The lessor will not include in the leases any provision giving it the right to terminate for the convenience of the Government. This may require an affirmative statement to that effect rather than merely negatively leaving it out of the lease.

The separate and shorter in time arrangement on Fernald is due to the necessity of your making certain repairs at Fernald and to the fact that certain operations are still going on at Fernald.

It is understood that the storage period under TAB-2 contract, which was to have expired April 2, 1958, will be extended until African Metals Corporation can complete the arrangements contemplated in this letter. Eng-279 and Eng-280 contracts will expire on June 30, 1958. The Fernald situation may require a further extension on TAB-2 and that is satisfactory.

It is also understood that the Commission may have access to the leased premises for the purpose of inspection, if so desired. This access will be arranged by letter to the lessee.

The lessee also agrees that the Commission may make emergency temporary repairs at Fernald in its judgment at the expense of lessee but with a clear understanding that the Commission will first make every effort to contact lessee by telephone or telegraph and secure its authority to incur the expense.

Hooker Case File
Env. Prot. Bureau
N.Y.S. Department of Law
New York, New York

FOIA MATERIALS FROM DOE

ROLL 121

Mr. John R. Moore

-3-

June 6, 1958

The foregoing represents the notes that I made at our conference in New York. It may well be that I missed a point or two of the discussion. If so, I will be glad to discuss them with you by telephone, conference, or correspondence.

The mimeographed provisions that you suggested for insertion in the lease, insofar as they are applicable, are satisfactory to me.

Very truly yours,

William A. Considine
William A. Considine

2435

June 9, 1958

MEMO ROUTE SLIP Form 1-22-58 (Rev. May 14, 1947)		See me about this. Note and return.	For concurrence. For signature.	For action. For information.
TO (Name and unit) Leo Graup Supply Division NYOO	INITIALS <i>LG</i>	REMARKS Leo:		
	DATE	With reference to our telephone conversation of last Friday, I am forwarding a copy of Humphries' memo to The Files dated June 9, 1958, pertaining to		
TO (Name and unit) CC: R. G. Humphries C. C. McNabb	INITIALS	REMARKS negotiations with Olin-Mathieson. I believe reference to the paragraph bracketted in red on Page 5 will help to answer your question on overtime raised in your memorandum of January 13, 1958 to Humphries.		
	DATE			
TO (Name and unit)	INITIALS	REMARKS The complete record of negotiations on the Olin-Mathieson contract is probably included in four folders devoted to Olin-Mathieson material which were forwarded to NYOO from our Records Center on June 25, 1958. These four folders were forwarded separately from some 21 other folders on Niagara Falls		
	DATE	Operations, also mailed to NYOO on June 25, 1958.		
FROM (Name and unit) T. P. Carberry Feed Materials Div. OROO	REMARKS	<i>Copy file</i> <i>6/24/58</i> <i>Tom</i>		
PHONE NO. 4513	DATE 1-26-59			

USE OTHER SIDE FOR ADDITIONAL REMARKS

U. S. GOVERNMENT PRINTING OFFICE : 1957-O-422887

The Files

June 9, 1958

R. G. Humphries, Deputy Director, Contract Division

RECORD OF NEGOTIATIONS WITH OLIN-MATHIESON CHEMICAL CORPORATION FOR
STAND BY MAINTENANCE AND CUSTODIAL SERVICES FOR BORON-10 PLANT,
MODEL CITY, NEW YORK

SYMBOL: ACD:RGE

Background

In a Contract Board report to the Manager dated May 26, 1958, there was set forth a record of the results obtained under an invitation for proposals to furnish the stand by maintenance and custodial services at the Boron-10 plant, Model City, New York. Two (2) written proposals were submitted under the invitation and as set forth in the Board's report, the proposal submitted by Olin-Mathieson Chemical Corporation, High Energy Fuels Division, was considered to be the most attractive from the Commission's viewpoint and the Board recommended and the Manager approved the selection of Olin-Mathieson Chemical Corporation for the conducting of appropriate negotiations leading to the working out of the most appropriate type of contractual arrangements to cover the services required by the Commission. After receiving the Manager's approval, arrangements were made to meet with Olin-Mathieson representatives in Niagara Falls, New York, on June 4, and 5, for a discussion of their proposal. The notes which follow represent the results of those meetings.

Notes on Meeting in Niagara Falls, New York, on June 4, 1958.

Those in attendance at the meeting were:

For Olin-Mathieson Chemical Corporation

John H. Heck, Manager, Contract Negotiations
C. H. Putnam, Associate Director of Mechanical Services
Frank Hull, Comptroller
William Cotter, Assistant to Manager, Contract Negotiations

For Atomic Energy Commission

Oak Ridge Operations

C. W. Hill
R. G. Humphries
Frank Malone

New York Operations

Leo Graup

CONTRACTS

cc: J. H. Paul ✓

The Files

- 2 -

June 9, 1958

As the meeting opened, I explained that it was our desire to explore the feasibility of having the stand by maintenance program conducted by Olin-Mathieson under an arrangement whereby the work forces of the Navy Department high energy fuels plant next door to the Boron-10 plant of the Commission could be utilized on an on-call as and when required basis in lieu of the arrangement proposed by Mathieson which contemplates the use of work forces presently engaged in performing a stand by operation on a Chemical Corps plant in Niagara Falls. I pointed out that if such an arrangement was at all practicable, it would appear that the cost of our program should be somewhat lower than the estimate in the Mathieson proposal since it would be unnecessary to maintain a full-time on-site repairman and a full-time on-site custodian since such personnel would be able to visit our plant as required from the Navy plant some few hundred yards away. Mr. Heck stated his division was presently under contract to the Navy Department as well as the Air Force on a high energy fuels program. The Navy Department contract covers a pilot plant operation with the objective of making only a single production run in such pilot plant facility to prove out the feasibility of the process design. Since this pilot plant facility is not to be continued in operation, the maintenance forces assembled for this pilot plant operation have been kept at an absolute minimum under Navy direction consistent only with making a single pilot plant run as distinguished from a long term production operation. Mr. Heck explained the plant ^{would be closed} at the end of the initial pilot plant run which would be expected to be concluded some time during the next Fiscal Year. The plant would then be closed and the work force dissipated. For these reasons he did not believe it would be at all feasible to consider the approach we had suggested.

Under the Air Force contract, Mathieson will take over and operate a fairly large production facility which is presently under construction. Completion of this large production facility, however, is scheduled over a year away and there are no presently available operating forces that could be utilized on such a plan as we had suggested. Heck did say that once the Air Force plant was placed in operation, it might be possible to consider the type arrangement we had suggested, but he felt this would be impossible until the plant had been placed in operation and had more or less settled down to somewhat of a routine operation which would be expected to require another two years.

In view of the circumstances, the remaining part of our discussions with Mathieson had to do with the work arrangement included in their written proposal. It was learned during this discussion that the Maintenance Department proposed for use in our stand by operation is actually located on Company-owned facilities designated as the "Packard Road Area". From this basic maintenance facility, Olin-Mathieson carries out the stand by operation in the Chemical Corps plant which is located across the street from the Maintenance facility and in addition performs maintenance work in other Company-owned facilities in the general area. Thus, the Mathieson

The Files

- 3 -

June 9, 1958

proposal contemplates that the above Maintenance Department will simply supply the necessary forces either on a full-time or ^{our} part-time basis as required in conducting the stand by operation in a plant in the same way they are now providing service at the Chemical Corps plant. There is one distinction in the Chemical Corps plant when compared with our stand by operation and this relates to the use by Mathieson in pilot plant operations of a portion of the Chemical Corps plant which has the effect of picking up a part of the cost which would otherwise be charged to the Chemical Corps as stand by maintenance cost. This is the same sort of arrangement that has been suggested by Mathieson in connection with their contemplated use of the electrolytic cells at our Boron-10 plant. It is recognized that if NYD should approve an arrangement where Mathieson would be permitted to operate the electrolytic cells at a portion of the cost otherwise chargeable to the Commission as stand by maintenance cost, such an operation would thereby lower the stand by cost to the Commission.

Mathieson had proposed a cost-plus-a-fixed-fee type arrangement and their proposal pointed out that their estimate of cost did not include certain elements of possible work, such as emergency repair jobs, possible shipment of Government property from the plant, etc., since they could not be certain when such work would be needed or in what volume, if required. They had suggested that each time such a job arose, it would be necessary to adjust the fixed fee. We recognized the validity of the point made by Mathieson and in order to overcome the short comings of a CPFF type contract where the full scope of the work cannot be determined at the time the fixed fee is agreed upon, we proposed the use of a time and material type contract which would establish certain charge rates made up of labor, overhead, and profit and which would automatically cover the problem pointed out by Mathieson in their proposal. We told the Mathieson people that we would expect them to do all necessary work in the plant during the one-year period and with payment of a rate which would include their profit factor and payment of net material cost, they would be fully compensated for whatever actual scope of work was finally determined to be required. Mr. Heck stated he would agree to this type of arrangement since he felt it was a more appropriate method of contracting for the type of work we desired than would be the CPFF type arrangement they had proposed.

We suggested that they develop proposed charge rates covering all possible classifications they might have occasion to use on the work during the next fiscal year. Mr. Hull agreed to have these rates prepared and to have appropriate material available to substantiate the various components of costs in the charge rates and it was agreed that we would meet again the following morning to review and possibly agree upon the series of charge rates to be included in the contract.

We then reviewed with Mathieson the cost reimbursement principles which had been made a part of our invitation for proposals and on which Mathieson had expressed a desire for clarification. We were able to satisfy Mathieson that our principles as actually applied to contracting on a time and material basis would give them an appropriate recovery of their costs. During the

The Files

- 4 -

June 9, 1958

course of the general discussion, Mr. Heck pointed out that the Air Force people, in connection with their operations next door to our Boren-10 plant, had expressed some interest in determining whether any part of the presently held approximately 500 acres associated with our plant could be released to the Air Force. He stated this question arose since it appeared that we had only about 250 acres under fence immediately surrounding our plant and the general appearance in the area was that we had very little if any need for the remaining part of the land. We pointed out to the Mathisson people that the responsibility for the Boren-10 plant area would be transferred to our NYDO on July 1, 1958, and any inquiries concerning either the use of a portion of our plant or the securing by the Air Force of any portion of the 500 acres should be taken up directly with NYDO subsequent to July 1, 1958. It was pointed out that Mr. Graup, who was attending the meeting as a representative of NYDO, would actually be the individual who would administer the stand by contract and that such inquiries might well be directed to him.

Notes on Meeting Held on June 5, 1958.

Those in attendance were:

For Olin-Mathisson:

- Frank Hall, Comptroller
- C. H. Putnam, Associate Director of Mechanical Services
- John H. Heck, Manager, Contract Negotiations

For Atomic Energy Commission:

- C. W. Hill
- Frank Malone
- R. G. Humphries

For Navy Department:

- Clarence West, Resident Auditor --(Part-Time)

As the meeting opened, Mr. Hall presented the following classifications and payroll rates for the personnel they felt could be required in carrying out the stand by program at our plant. These are:

<u>Classification</u>	<u>Monthly Rate</u>	<u>Hourly Rate</u>
Repairman		\$ 2.69
Millwright or Pipefitter		2.77
Electrician or Instrument man		2.80
Laborer		2.13
	<u>Salary Personnel</u>	
Responsible Custodian	\$ 722.00	\$ 4.18 *
Resident Custodian	458.00	2.65
Secretary/Steno	302.00	1.75

* Determined by dividing monthly rate by 173 hours.

The Files

- 5 -

June 9, 1958

ClassificationHourly Rate

Guards

\$ 2.14

NOTE: This is the rate to be paid by Mathieson under a subcontract with Pinkerton Detective Agency and will be billed at bare cost in the same manner as material cost.

Mr. West, Navy auditor, was able to check the accuracy of the proposed rates by reviewing the printed union contract with the Oil, Chemical, and Atomic Workers, C.I.O. to be effective July 1, 1958, so far as the annual rates are concerned. He secured the salary cards from the Personnel Department and was able to verify the monthly rates of the Responsible Custodian, Resident Custodian and Secretary/Steno. Mr. West also verified the rate to be paid by Mathieson to Pinkerton Detective Agency for the guards.

Mr. Hull then presented a breakdown of the Overhead Account No. 87h, Mechanical Shop, showing the record for April 1958 and the calendar year to date. This record served as a basis for an agreement on the overhead rate to be added to the above-stated salary and wage rates.

The first item, Salaries and Wages, was stated to include general supervision for which no direct charge is to be made under our contract; clerical and shop personnel having to do with receipt of materials, issue of materials, and other clerical tasks for which no direct charge is to be made under our contract, and we agreed to accept this item in total.

Hull explained on the next item, Overtime Premium, that all premium cost under their accounting system is included in the overhead pool and for this reason, only, straight time charge rates would be utilized under our contract, whether or not the item was performed on overtime days or not. Since the premium costs involve only \$362.00 for the month of April, it is obvious that there is no undue amount of premium work and we agreed to go along with this item.

~~e/~~ suggested the deletion of ~~the next item,~~ Materials and Supplies, on the theory that we were proposing to reimburse the net cost of all material used on our job. Hull agreed with the principle involved but stated this item also covered the cost of repairing hand tools, which tools would be used on our job without a direct charge and after some discussion, it was agreed that we would recognize 50% of this item as appropriate for inclusion in the overhead rate.

The next item of Travel, covering only travel in the month of April, was stated to represent travel of supervisory personnel but would not make a direct charge to our contract if any such travel was required in performing our work. We, therefore, agreed to accept this item.

The Files

- 6 -

June 9, 1958

The next three items covering Repairs, Installations and Utilities were eliminated since they related solely to the maintenance of the Mechanical Shop and would serve only work to be performed within the shop facility.

The Telephone item was accepted, and Outside Services was eliminated as not relating to our operation.

Payroll Taxes and Insurance was accepted as being normal expense of all labor and the Maintenance Shop.

The items of Rent and Depreciation and Leasehold expenses were eliminated as relating only to work performed within the Mechanical Shop.

The last two items covering General Taxes, representing City of Niagara Sales Tax and Miscellaneous expenses were accepted.

With these agreed eliminations, the overhead pool of \$134,938.47 was adjusted downward to \$115,353.43, which when related to a direct labor base of \$187,000, developed an overhead rate of 60%.

Mr. Hull then pointed out that since the Mechanical Shop was a service department the cost of which was charged out to using departments, they did not under their accounting system effectuate a transfer-in of costs of other service departments such as accounting, purchasing, personnel departments, etc., and since these departments would be serving our operation, he proposed an increase of 5% in the overhead rate making a total overhead rate of 65% to give them appropriate return for accounting, purchasing and personnel department services. He indicated an actual allocation from these departments would run much higher. Without verification, we accepted this additional 5% as being reasonable on its face.

Mathieson had proposed a 4 1/2% G & A rate. We questioned Mr. West, Navy auditor, as to the rate they were allowing Mathieson on their work. He stated the last audited and agreed upon rate covered Calendar Year 1956 and ran, after eliminations, 5.6%. He said in the current year, they are paying a provisional rate of 5%. He said he was presently involved in the audit of Calendar Year 1957 and had not proceeded to a point where he could furnish even a recommended rate. But he did say he felt the 4 1/2% proposed by Mathieson would likely be within a few points one way or the other of the final rate to be negotiated for 1958. On this basis, we agreed to accept Mathieson's proposed rate of 4 1/2%.

In the Mathieson proposal, they had suggested a fixed fee of 10% on all costs. We agreed to use 10% as a profit factor in the charge rates which would have the effect of eliminating profit on materials. Mathieson agreed to this proposal.

In connection with the Responsible Custodian, he is expected to spend about one day per week on the average at the Boron-10 plant. Mathieson

The Files

- 7 -

June 9, 1958

suggested that we cover the 25 miles per week travel cost at .07 per mile as an addition to the hourly rate of the Responsible Custodian. At \$1.75 cost per week related to 8 hours time per week, this developed an addition of \$.23 per hour which we agreed to.

We had proposed that material cost be billed at net invoice or net stores issue cost without any markup. Mathison stated their policy would require recovery of G & A expense on such material cost and at this meeting, we tentatively agreed to the application of a provisional G & A rate of 1/2% to material cost, subject to adjustment of this rate to actual after audit. Upon return to Oak Ridge, we discussed the thought of including the estimated G & A on material in their charge rates for the Resident Custodian and Resident Repairman and secured Mr. Heck's agreement to the approach over the telephone. On the basis of 1/2% of the estimated material cost of \$2400, this developed an additional .03 per hour on both the repairman and the Resident Custodian. On the basis of the above agreement, the charge rate for the seven classifications were calculated as follows:

	<u>Repairman</u>	<u>Millwright or Pipfitter</u>	<u>Electrician or Instrument Man</u>	<u>Laborer</u>
Labor	2.49	2.77	2.80	2.13
O/H 65%	1.62	1.80	1.82	1.38
Sub-total	4.11	4.57	4.62	3.51
G & A 1/2%	.18	.21	.21	.16
Sub-total	4.29	4.78	4.83	3.67
Profit - 10%	.43	.48	.48	.37
	4.72			
G & A/Material	.03			
CHARGE RATE	\$4.75	\$5.26	\$5.31	\$4.04

	<u>Resident Custodian</u>	<u>Secretary</u>	<u>Responsible Custodian</u>
Labor (Monthly rate + 173)	2.65	1.75	4.18
O/H - 65%	1.72	1.14	2.72
Travel	-	-	.22
Sub-total	4.37	2.89	7.12
G & A @ 1/2%	.20	.13	.32
Sub-total	4.57	3.02	7.44
Profit - 10%	.46	.30	.74
G & A/Material	.03		
CHARGE RATE	\$5.06	\$3.32	\$8.18

Materials @ net invoice or stores cost.

Mr. Putnam, who is to be in general charge of our program, suggested that it would be a good idea if he and one or two of his men could work with Hooker during the last week in June so that they could become completely

The Files

- 8 -

June 9, 1958

familiar with the features of the plant for which they were to assume full responsibility on July 1, 1958. We agreed that this would be an appropriate arrangement and Mr. Malone told us that Hooker would be agreeable to work with Mathieson on this basis and Mr. Hill agreed to prepare a contract to provide for this spot of work in Fiscal Year 1958. We pointed out that we would obligate funds only for the 1958 period of work at the time the contract was signed and after the contract was transferred to NYCO effective July 1, 1958, it would be expected that they would obligate such additional funds under the contract as would be necessary to cover the operation during Fiscal Year 1959. Mr. Heck stated they were agreeable to this approach.

I pointed out to Mr. Heck that we were not in a position to advise them that they were selected for the work, but we could state that we would recommend their selection by the Manager, GPO, and we had no reason to believe that ^{the} showing that we could make he would disagree with our recommendation. We promised to have a draft of the agreement in their hands at an early date with the expectation that the agreement would be such that any changes that might be suggested could be worked out over the telephone. However we would be prepared to meet with them again if this becomes necessary.

Mathieson indicated that they would estimate the one week of service in the latter part of June in working with Hooker should not amount to more than \$500 if that much.

There was then a general discussion with Mathieson as to what would be expected of them with reference to utilities. On the acquisition of necessary fuel oil for heat and other purposes, the Commission would authorize Mathieson to acquire such oil from General Services Administration supply schedules. On gasoline, Olin-Mathieson would purchase direct from the supplier and we would reimburse the net cost. On the water system, Olin-Mathieson would be expected to read the meter and to send these meter readings to NYCO which bills will be paid by NYCO and where the billings to the users on the lines could be prepared by NYCO.

On the telephones, Olin-Mathieson would be expected to purchase this service from the telephone company on a reimbursable basis and on electric power, this would be supplied under a power contract through NYCO with Olin-Mathieson paying the bill on a reimbursable basis.

Signed by R. G. Humphries

R. G. Humphries

CC: C. W. Hill
J. W. Ruch

ITEMS OF NONCOMPLIANCE

20-111

During the inspection of the licensee no items of noncompliance were noted or observed.

20-112

20-578.70

- (1) No individual is serving in capacity of "Criticality Engineer" as job and title are described on pages 2 and 3 of original application No. K-34 Revised (See Item III A 2 of report details).
- (2) All movement of tote trays or racks are not performed by accountability representative as described on page 4 of application No. K-34 Revised (See Item III A 2 of report details). (c) + (n)
- (3) In-process safes were closer than 20" as described on page 4 of application No. K-34 Revised (See Item III A 4 of report details). (s)
- (4) All of the process materials were not stored in tote trays or racks and proper spacing was not observed in in-process storage safes as described on pages 4 and 5 of application No. K-34 Revised (See Item III A 4 of report details). (u)
- (5) All personnel were not issued weekly film badges; do not have urine analysis run weekly; do not have complete blood counts run every six months as described on page 7 of application No. K-34 Revised (See Item V B, C, of report details).

20-578.80

- (6) 20.203 "Caution Signs, Labels and Signals" - (a)(1) "Additional Requirements" - in that safes used to store enriched U were not posted with the proper radiation sign and symbol (See Item III A 4 of report details).
- (7) 20.203 "Caution Signs, Labels and Signals" - (f)(1) "Containers" - in that bird cages, containers, stored shipping caskline containing in excess of 25 gms of enriched uranium were not labeled with proper sign and symbol (See Item III A 4 of report details).

Part 70 Inspection

Date of Inspection: June 9-30, 1958

DETAILS**I. Introduction**

An inspection of activities related to the use of special nuclear materials was conducted by R. H. Hagelton, Inspection Division, SDO and P. B. Klovie, Inspection Division, NRC, at the facilities of Sylvania-Corning Nuclear Corporation, Hicksville, New York and Bayville, New York, on June 9-30, 1958.

Sylvania-Corning's Hicksville plant A & B, which fabricates fuel elements both under AEC contract and under license, is under the administrative control of Royd Mite, General Manufacturing Manager. Mite, who utilizes John Robinson as Manager of plant B (Commercial and Fabrication Area) reports directly to Leo Duvogant, President, Sylvania-Corning Nuclear Corporation. Mite has had previous experience with both Sylvania and Sylvania-Corning as Plant Manager of the Hicksville facility fabricating nuclear fuel elements under AEC contract.

Other Sylvania-Corning management and production personnel are identified and discussed under Nuclear Safety and Radiological Health and Safety sections of this report.

A. Scope of Inspection

Licensee: Sylvania-Corning Nuclear Corporation
Bayville, New York
Hicksville, New York

Licenses: Special Nuclear Materials Licenses

1. SM-82 (as amended)

Metalls uranium enriched in ^{235}U isotope - is limited to that which may be used in accordance with procedures described in the licensee's application of March 25 and July 19, 1957 and letter of August 14, 1957.

2. SM-141

Up to 100 gms of ^{235}U contained in uranium (as UO_2) enriched in the ^{235}U isotope.

B. Personnel Employed: - Hicksville, Long Island, New York - SM-82

Royd Mite, General Manufacturing Manager
Guth Edwards, Controller
Arthur Myster, Contract Administrator
John Samsen, Production Control
Ed Meyer, Manufacturing Superintendent
R. H. Ball, Accountability Supervisor
Ed Jung, Accountability Representative
Lloyd Hume, Production Shop Superintendent
E. F. Larson, Sr. Engineer
E. O'rish, Health and Safety
John Miele, Health and Safety

Personnel Contacted: - Bayville, New York - SM-141

J. L. Zimroz, Engineering Manager
William Dooches, Accountability
E. Feltmann, Accountability
A. Masters, Contract Administrator

SYL 000031

I. General Information

1. Inspection of the Syvonia-Corning Richville Plant (SNC-82) consisted of an inspection of the commercial fuel fabrication plant, Plant B, which included inspection of storage safes, vaults and production facilities within the plant which are used in the processing of special nuclear material. Accountability records, control and procedures were also reviewed. Procedures for receipt, handling, processing and storage was discussed with Syvonia-Corning personnel. Administrative control of licensed activities was also reviewed. Nuclear safety, fire and accident, and radiological health and safety aspects of the special nuclear material program were examined.
2. Inspection of the Syvonia-Corning Ryeida, New York (SNC-321) Plant consisted primarily of inspection of the laboratory and storage facilities. Work under license SNC-321, which began on February 3, 1974, was completed in April 1974. Accountability records were inspected.

II. Description of Facilities

The Commercial Fuel Fabrication Plant (Plant B) one of several buildings within a fenced enclosure, consists of a one story converted garage of approximately 3000 square feet in area. The plant, which is associated with the manufacture of reactor fuel, consists of a metal casting room, rolling mill, machining, welding and assembly areas, quality control laboratory, storage safes, and accountability room. A brief description of the above areas follows:

1. The Metal Casting room (approximately 12 x 15') contains an induction type furnace. Material is charged into the top furnace located on a platform 6' above ground level and the cast ingot removed from the bottom furnace located at street level.
2. The Rolling Mill area consists of three mills, a Blake and Johnson reversible rolling mill, a Stanat Combination mill, and a Penn Roll mill, and several heating furnaces located adjacent to the aforementioned mills.
3. Machining, welding and assembly areas contain a Bridgeport lathe, a 200 ton press, a large Hagura shear, a Lodge and Shipley shear, Cincinnati Miller, several welding units, and other smaller pieces of machinery. In addition, a small radiography (x-ray) room and vapor degreasing tanks are available in the area. A 15 x 15' room containing acid, caustic, and neutral cleaning baths is used frequently to clean the fuel elements and plates. Cores are cleaned in the vapor degreasing tank.
4. A quality control laboratory, which contains the usual chemical laboratory equipment such as ventilated hoods, work bench, etc., is used to determine the percentage uranium in various stages of the process by chemical means only. No isotopic analysis is performed.
5. Storage safes for the containment of scrap, finished fuel elements, and material in process are located in several areas. Three locked safes are located in the assembly area. A description of material in these safes will be reported under "Storage."

SYL 000032

4. The accountability room is more or less the central control point for materials accountability. This sprinklerless room, 15 x 20', contains three locked safes. In addition, the room is equipped with two scales, a Sessler - Kahlbach balance having a capacity of six kilograms, and a Sartorius-Werte balance having a capacity of 200 gms. Several larger work tables located in this room are used to hold tote trays containing material for either weighing or storage purposes.

The aforementioned areas and their contained fabrication equipment utilize all of the available 3000 square foot area. Crowded working conditions were observed to prevail in all areas. Messrs. Mann, Production Shop Superintendent and Jung, Accountability Representative, noted that the conditions of operation were rather poor, but stated that their company intends to move within several months into a newly erected commercial fabrication plant located within their property. The new one-story plant was visited and found to be complete from a construction viewpoint. However, most of the equipment had not been installed.

The general production shop layout was described by Mr. Mann. He stated that it would be far superior to the old facility in that it was better suited to isolating process batches of special nuclear material in normal production operations. He noted that the new building would include the following areas: Administration, Operations Process Control Laboratory, Inspection Accountability, Component Machining, Plant Engineering and Machine Shop, Shipping and Receiving Assembly, Milling, Machining and Laboratory, Milling and Forging and Inspection.

III. Nuclear Safety

A. Criticality

1. General

There was no Criticality Engineer in the employ of the licensee at the time of inspection. Mr. William S. Rothwell, noted as Criticality Engineer in Application No. N-34, revised Application for Special Nuclear Material License, had never been in the employ of the licensee.

When asked how criticality limits and procedures had been established, Arthur Murtar, Contract Administrator, stated that these had been borrowed from various sources. Most of these limits and procedures had been established "as a result of information provided to us by others in this field and from various technical publications." He further stated that at the time of the inspection, no one in the employ of Sylvenda Fuel element facility had the technical background or experience necessary for making criticality calculations.

Mr. Murtar stated he uses the services of Dr. Rudy Sher of Brookhaven National Laboratory, as a Criticality Consultant. Dr. Sher works for Dr. Herbert Louis at Brookhaven. Sher was reported to have been used on several occasions in the past to review feasibility reports submitted to the Commission and to assist in establishing batch limits or storage limitations on new job proposals for licensed operations. He is also called, according to the management, on occasions when there is a question of living up to the license or when there is any question related to periodic revision of material accounts. Sher, in his letters to the licensee, has provided the licensee with criticality working levels required in the use of the material. This information has been provided to the accountability representative, Health and Safety, and the top production personnel.

No written administrative procedures or instructions have been provided to plant personnel regarding criticality work limits.

SYL 000033

An attempt was made to contact Dr. Shar at Brookhaven National Laboratory to determine the number of times he had been called in by Sylvania as a consultant and determine exactly the type of criticality evaluation made by him. Dr. Shar departed for France on July 2, 1958 and was not expected to return to the United States for a year.

Since this inspection, a letter to this office from Garth Edwards, Controller, Sylvania-Corning Nuclear Corporation, dated June 24, 1958, noted that Sheldon Struss, physicist, has been hired by the company. The letter included as EXHIBIT "A" states that Struss, a Reactor Engineer, who "has had extensive experience in performing reactor physics calculations, including those pertaining to criticality", will review production procedures from a criticality standpoint. Struss has a BS degree from City College of New York, MS degree from New York University and has attended the Oak Ridge School of Reactor Technology from 1954 - 1955. Struss reports directly to the Director of Engineering, L. H. Kates.

2. Organization and Procedures

As noted prior in the report, Rayd Metz, Plant General Manager, reports directly to Lee Davenport, President, Sylvania-Corning Nuclear Corporation. E. Meyer, Manufacturing Superintendent, reports directly to Metz. Lloyd Mann, Production Shop Superintendent, reports to Meyer.

According to Mr. L. Mann, written specifications have been prepared for him for individual fabrication operations by the Engineering Department. He, in turn, orally instructs production personnel on the production specifications. He further added that health and safety rules and regulations are being prepared by Mr. Grieb, Chief Safety Engineer, for each production operation, and that these regulations will be reviewed for operational safety and criticality.

Health and safety responsibilities are under Henry Grieb, Chief Safety Engineer and his assistant, John Male, Safety Engineer. Both report directly to L. H. Kates, Director of Engineering. Both individuals have had previous experience in directing health and safety programs for contract projects involving special and/or source materials and their alloys in both solid and powder form. The safety engineers have the responsibility of enforcing compliance with federal and Sylvania-Corning's own regulations both for nuclear and non-nuclear health and safety.

The Accountability Representative, El Jung, is responsible for special nuclear material and source material accountability, reports to Accountability Supervisor, Milton Hill, who, in turn, reports to T. O'Connor, Manager, Security and Office Management, who is accountable to Garth Edwards, Controller.

This installation employing significant quantities of fissile material places strong reliance upon the accountability representative in issuing materials in order to minimize the possibility of assembling a critical mass. The accountability representative has no training or experience in criticality control aspects of nuclear safety. The accountability representative has the responsibility of initial receipt, storage, issuance, and reference of enriched material, and has responsibility for control of movement of special nuclear materials throughout the plant in accordance with the criticality limitations initially set up by him. Some of the critical regulations and limitations that are employed at the Commercial Fuel Plant are defined by the management as follows:

(1) Incoming shipments arrive from Oak Ridge in water tight 21" cube bird cages, limited by Dr. Shaw to 9 kg in case of possible collapse of cage. Bird cage critical mass under flooding conditions is 22.8 kg of 9X U, assuming the bird cage is water tight.

(2) All material is checked for contamination by the plant safety engineer prior to being accepted and stored in racks and safes. Fully enhanced uranium in metallic form up to 2000 grams of total uranium was stored in plastic bottles and rigidly fixed in safe racks, on a spacing of 21" from center to center.

(3) Proper spacing of material in process safes is accomplished by storing all material in tote trays. The tote trays, which are constructed of metal, are 16" long x 10" wide x 4" high in inside dimensions. Storage safes or in-process safes were stated not to be nearer each other than 20". Mr. Jung stated that Dr. Shaw, in setting up criticality limits, uses a standard safety factor of 2-1/2 in making determinations of safe storage for scrap, core, and clad and unclad plates. Storage of material in tote trays and safes is discussed under "Storage."

(4) Tote trays are tagged by the accountability representative in a color to denote type of operation and material.

(5) All movement of material in tote trays and racks is performed by the accountability representative.

Inquiry of production workers and accountability representatives revealed that there were occasions when production workers themselves transferred material from one operating station to another without approval of the accountability representative.

(6) Tote trays containing scrap are limited to a maximum of 1000 grams of fully enhanced uranium or its equivalent of lower enhanced uranium. The scrap material is only removed by the accountability representative.

(7) The amount of uranium metal incorporated into a melt is limited to 2000 grams of fully enriched uranium. On the Industrial Reactor Laboratory (IRL) and the Mac Master University fuel element fabrication jobs, the melts consist of 1140 grams total U, while for the IRL job, the melts are made up of approximately 500 grams total U. The melt is poured into at least two molds.

(8) The melting room is limited to a total of 2000 grams of enhanced uranium at any one time.

(9) A batch limitation of 350 gms of fully enhanced uranium or its equivalent is set for punch press operations and is maintained at all points during finishing operations (20 plates for 20 punchings).

(10) Furnaces used for heating and rolling the picture frames and cover plates are equipped with racks that hold only 20 plates spaced on 3/4" centers. The furnaces are located on 28" centers.

SYL 000035

(11) There is only one rack allowed at any one operation, except an assembly where 3 racks may contain as much as 1500 grams. A limit of 250 grams or equivalent of a mixed uranium is set for chemical wastes which are initially collected in a covered bucket as solution, then dried. Material is stored in a locked cupboard inside steel quart cans measuring 4-1/2" in diameter x 9" in height. The storage shelves are 9" apart, so that there is a 5" space above each row of jars.

(12) Cleaning solutions from the cleaning tanks are limited to 10 grams of fully enhanced uranium or equivalent, each. The solution is evaporated for dryness before the uranium content reaches 10 gram value.

It was observed that outside the Quality Control Laboratory, where 15 wet determinations are made by dichromate titration analysis, 180 grams of U total material is stored in the alchemy in each of two 5 gallon containers, with no markings or labels. In addition, one 50 gallon container containing a total of 20 grams was noted stored in a similar manner. Upon questioning Mr. Long and the quality control chemist, it was found that neither individual had knowledge of U or U²³⁵ ratios of the solution. There is no positive control for addition of material at this point. Neither the chemist nor the account ability representative had any way of knowing if they were exceeding established batch limits. They did not know what quantity of material was in containers without resorting to records in other sections of the plant.

(13) Metal shipping containers having inside dimensions of 22" x 19" x 14" carrying 6 fuel elements, each of which contains 250 grams of fully enhanced uranium or equivalent in the center of 3-1/2" centers. The container is similar to that used by Oak Ridge to ship M2 type elements.

3. Fabrication Operations

Following is a brief description of the operations involved in the fabrication of fuel elements from initial receipt until shipment.

- (1) Material is obtained from Oak Ridge in standard water tight bird cages (10" diameter x 5" deep) in shipments up to 12 kg U²³⁵ (9% enriched) in the form of pellets and broken buttons. In November, 1957, a 16 kg shipment was received in a bird cage and a complaint was made by Sylvania to Oak Ridge regarding this high material shipment.
- (2) Incoming raw material is weighed and stored in the raw materials safe.
- (3) The uranium-aluminum charge is weighed, poured into a furnace pot, and melted by induction heat, the uranium is poured into a mold to cool. Up to 1140 gram total uranium is charged into the furnace for licensed material. Approximately 300 grams per charge is used for the Brookhaven material. Contaminated uranium is removed from the mold on a Bridgeport drill press.

- (4) After the casting is removed from the mold, the ingot is taken back to the accountability room, where it is weighed, weight recorded, and then moved to the rolling area. The ingot is heated to rolling temperature in a furnace, heated manually, and is hot rolled to desired thickness in a Blake and Johnson reversible rolling mill. Samples are made of the core plate and chemically analyzed to determine the distribution and alloy percentage of the uranium in the core material.
- (5) The plates are returned to the fabrication area, where the bare plate is cut in half lengthwise on a Niagara shear, identified by numbers, radiographed, and punched on an E. V. Rice punch press in order to obtain samples for chemical analysis. The material is returned to accountability for weighing and recording of samples prior to submission to the laboratory for chemical analysis as to uranium content only. The inspectors were informed that no isotopic analysis for enriched uranium is performed by the licensee on licensed materials and that only contract materials are sent to New Brunswick Laboratory for isotopic analysis.
- (6) The plates are returned to the rolling area, where each plate is rolled to thickness on a Blake and Johnson rolling mill and a Stuart Combination mill.
- (7) A Niagara shear and Rice-punch press are used to produce picture frames from the 2 1/2 aluminum plate and to punch cores composed of U-41. The plates and cores are subsequently degreased. The material is then returned to accountability for weighing and release or storage.
- (8) The cores are pressed in each picture frame on a 200 ton hydraulic press. A double core frame assembly is then heated in a furnace and hot rolled in a Vann roll mill. The rolled plate is cut lengthwise on a Niagara shear into single core frames, which are conveyed to a chemical cleaning area, cleaned and returned to the fabrication area. They are placed between aluminum cover plates and welded into a sandwich assembly.
- (9) Sandwiches are initially heated in the furnace, hot rolled in a Blake-Johnson rolling mill, and then cold rolled.
- (10) The sandwiches are clearscoped, scribed and radiographed. The excess aluminum of a cover plate is removed on a Lodge & Shipley shear. The aluminum side plates are manually deburred and trimmed to proper dimension on a Cincinnati miller.
- (11) The plates are then cleaned, numbered, inspected and stored. IM plates are attached, while the IM and IM-2 Master plates are assembled into elements with side plates.
- (12) The plates are then chemically cleaned, assembled and given final inspection.
- (13) Accountability then receives finished products for packaging and shipping.

All of the fabrication operations were observed with the exception of (1), (2) and (10) above.

SYL 000037

At the time of the inspection, work on flat uranium-aluminum plates (93% enriched) was being performed for EML under a subcontract. The EML flat plates were clad with 2.3 aluminum and contain 5.06 grams per plate. Batch limit of plates in process is 60 plates. Licensed material was being processed for the Industrial Reactor Laboratory (IRL) and the Masters University. Cases for these plates consist of 18 weight percent U-235, fully enriched. There is 11.3 - 12.03 grams total uranium content per plate. Work on plates in process is 20 plates. Both the IRL and the Master jobs are being performed for American Machine and Foundry, builder of these reactors. Another operation performed by Netherlands is under American Machine and Foundry contract, but was not in progress at the time of this inspection.

4. SAFES

Storage safes for storage of incoming, in process and completed materials are located in the Plant 3 and the new building. A description of the storage safes and materials contained therein follows:

- (1) Two bird cages (20" standard type) containing 1.5 kg and 5.1 kg were noted stored in the Raw Materials safe located in the accountability room. The material was separated by a distance of 20". Safes were removed from the top of the 10" diameter x 5" deep material container of each cage and therefore were not water tight. Bird cages were not labeled with the amount of materials contained or with radiation caution sign and symbol. 1227 gms of EML material was stored on the bottle shelf. Mr. Jung stated that a maximum of 12 kg is stored in the safe. A second safe with 5 shelves located in accountability room contained approximately 2.2 kg total U in the form of alloy scrap, melt charges for melt operation, and sample bottles. No amounts of material were on the tote trays or bottles, only identification number. The third safe contained approximately 500 gms of EML plates in tote trays spread on three shelves. None of the safes were coated with the proper sign and symbol or were the tote trays and materials contained in each safe labeled with contents or radiation sign and symbol.
- (2) Assembly area storage safe was noted to be properly posted. The safe contained 6 - 90 gm Pu fuel elements (540 gms) on the shelf. These elements were not contained in tote trays.
- (3) Niagara Shear contains 3 safes. These safes are not separated by a distance of 10", although application for Special Nuclear Material No. EML, revised, states that safes will be no closer than 10 feet. It was found that three locked cages located in the work area behind the shears were separated so that the first safe was 2' from the second, while the third safe was approximately 3' away from the second. The safes were not coated with the proper radiation symbol and sign. A description of material in these safes follows:
 - (a) The first safe contained approximately 900 gms of EML flat plates (contract) not in tote trays. The plates were stacked lengthwise (vertically) in the safe next to a tote tray containing 1 kg of 93% enriched material. This is one of the prime examples of downgrading of license and contract materials due to the inadequate crowded working facilities.

SYL 000038

(b) A second safe containing 4 shelves contained ~ 1 kg total U, 2 tote trays containing 700 gm total U each.

(c) The third safe contained 20 ml lead plates containing a total of 167 gm U stacked horizontally on a shelf outside of any tote tray.

(4) In an aisleway directly outside the quality control laboratory, two 5 gallon containers containing a total of 180 gm total U and one 55 gallon container containing a total of 50 gm total U were not labeled with any sign or radiation symbol.

(5) A storage vault in the newly erected commercial fuel plant contained ~22 kg total U in the form of scrap, solutions, turnings, in process fuel plates and completed elements inside shipping coffins. The coffins, each holding 6 elements in secured racks, contained approximately 1200 gm total U each. These containers were not labeled with proper radiation sign and symbol. Fuel plates in process were stored in the center of the room on a table containing two shelves approximately 2' apart. Fuel plates totaling 900 gm total U were stored on the top shelf outside of a tote tray, while 200 plates (1000 gm) was stored on the lower shelf. Licensed scrap solutions and solids were stored in 5 gallon containers approximately 1' apart. The 5 gallon containers contained total uranium from 47 gm to 129 gm of solution scrap in each container. None of the containers was labeled with proper sign and symbol.

Material stored in tote trays was identified by color code system but was not labeled as to amount of material contained. The accountability representative, through his code numbers, was able to identify the amounts of material in each safe after reviewing his records.

2. Fire and Accident

Henry Grieb and John Male are responsible for the established fire and accident program, both nuclear and general plant safety.

A plant fire brigade is organized for emergency service to function in time of fire, explosion or any other catastrophic situation. Project personnel, according to Male, have all been educated and instructed in the techniques involved in extinguishing and preventing the spread of fires.

Company policies and rules have been formulated and established to prevent accidents, including fires that could result in the spread of radioactive materials.

Portable fire extinguishers, G-1 poster, and standard fire hose apparatus are located throughout the plant. Male made note of criticality situations due to flood of enriched materials and stated that uranium fires are not treated with water. He emphasized the following:

- (1) There is no springler system in the plant.
- (2) Plant 2 is separated from other operating areas by a fire wall.
- (3) Fire alarms are accessible for reporting fires.
- (4) There is no flood hazard to the Plant 2 or the Ricksville facility by virtue of close proximity to streams or rivers.

SYL 000039

3. SECURITY

Plant B employs the same guard service used in Plant A, which is operated under prime contract with the Savannah River Operations Office. The entire Richville facilities are enclosed by a 6 - 8' steel fence and patrolled by a security force 24 hours a day.

Access to the Plant B fabrication area, accountability area, storage vaults, and safes is limited by written instruction and by badge issuance to authorized personnel. Plant security, Mr. Jung and two of his people are the only ones knowing the safe combinations.

IV. Accountability

(1) Strong reliance is placed on the accountability representative and his five assistants in issuing materials following the established batch limits. Pastore stated that no conscious effort was made to establish criticality limits such as establishment of batch sizes of new jobs under consideration. Accountability personnel are responsible not only for accountability of special nuclear materials but also for seeing that enriched materials used in the various production operations are below those quantities which could achieve critical mass proportions. As noted previously in this report, Jung has had no experience in criticality evaluations.

(2) Accountability records are maintained of material by weight and number by E. Jung, Accountability Representative, for each particular job and for each of its component operations from the time incoming material is received until the finished product is obtained. Jung keeps records on official permanent and working records in which he keeps materially balanced. Records maintained for the following job components were noted: Raw Material, Melting and Core Production Process, Samples in collection, Reference samples, Enriched scrap, Unenriched scrap, Crucible turnings gains and loss from each operation, Plate fabrication, Plate control, Reject plates, Final assembly process and finished elements. For each of the above, records are kept according to project number, weight of material in grams and under the following columns: received, removed and disposition, and balance. Dates, requisition numbers, quantity of plates, material, uranium content, and U235 content are also included.

Individual logs are kept by accountability of all incoming shipments of various process operations, material storage and shipment materials. Logs for each individual licensed job is kept under a different color code system. A master log is kept by Jung in the accountability room for each individual job operation under project number.

(3) The accountability representative and his assistants weigh in all materials during in-process or storage stage and are responsible for releasance of the materials.

(4) Special Nuclear Material records were examined and found in order. The inventory record maintained by Jung indicated a total inventory of 60.2 kg total U (9% enriched). This inventory is distributed as follows: ~22 kg in new storage vault (new building), ~20 kg in Plant B storage safes, and ~19 kg in process.

Records of receipt, inventory, and sales or transfers were available and found to be in order.

SYL 000040

8. 2. material analysis records are kept by the quality control laboratory and accountability representative. No isotopic analysis for U-235 content is performed on fissile materials. On contract material, records of isotopic analysis are maintained by accountability.

V. Radiological Health and Safety

A. Organization and Procedures

Two safety engineers, Messrs. Grieb and Miale, have had experience in the organization and supervision in both non-nuclear and safety health programs and nuclear safety programs of AEC contract material for several years. Both individuals report to the Director of Engineering, and have the responsibility of enforcing regulations both pertinent to the 10 CFR 20 of the Federal Regulations and Sylvania's own Health and Safety Regulations. According to Miale, written instructions have been supplied to all personnel. These include safe handling of radioactive material and radiation protecting equipment and radiomaterials. There has not been any inclusion of criticality limits in any of the supplied information. Miale stated that he is revising a Health and Safety Manual for the Sylvania Nuclear Corporation and that this should be available within the next few months. He further stated that Dr. Sher had informed him and other top supervisory personnel with regard to criticality limits. Miale also noted that both he and Henry Grieb, his immediate superior, are called in to review operations with respect to criticality, radiation hazards and health and safety.

B. Medical Program

Bio-assay and medical monitoring is performed by the company's physician for the Long Island area, Dr. Young. According to Grieb, urine samples are run on individuals when there is an accident; when a new program is initiated; or when air sampling or direct radiation surveys indicate the presence of contamination. Complete blood counts and complete physical examinations are given to each employee every 18 months. A complete pre-employment and termination physicals are also given.

C. Personal Monitoring

Film badges are worn by accountability, inspection, and waiting personnel as x-ray users. The rest of the production personnel are not included in the film badge program. Film badges are supplied by Eastman's Corporation of America on a weekly basis. Records of film badge results show no exposure in excess of 30 mrem beta, except for fluorescence personnel, whose film badge exposures average 100 mrem.

D. Radiation Monitoring Instrumentation

The following operable instrumentation was on hand at the time of the survey:

Two air locator gamma survey meters (range 0-25 mR).

Two NaI(Tl) alpha gamma survey meters (range 0-12,500 counts per minute).

An alpha scintillation counter and scaler are available for analyzing air samples.

X. Survey Program

1. Direct Radiation

Incoming and outgoing shipments are all checked for contamination by the Safety Engineer.

Radiation surveys are made of all new operations. The period between surveys range from 6 to 8 months.

2. Inhalent Air Monitoring

Air monitoring is conducted using a Hudson air sampler (20 liters per minute) using a Whatman 41 filter paper. Operational breathing apparatus, process air samples and general air samples were taken by the safety engineer. The period between surveys range from 6 to 8 months. All new operations or changes in operations are air sampled for contamination immediately upon initiation of such operations.

Results of air sampler taken show general plant air concentrations to average between 2% and 7% d/m^3 . A singular operational air sample taken during the weighing of pellets for HPL job - (pellets contaminated) was found to be as high as 2800 d/m^3 of air. This operation was of 2 minutes duration. Other samples taken of the same operation ranged from 237 and 6360 d/m^3 . After improvement of the weighing operation, air samples were 115 and 172 d/m^3 .

3. Stack Effluents

Stack effluent is monitored approximately every 6 months, according to the, using isotachic analysis techniques. Stack effluent concentrations are reported to be less than 7% d/m^3 .

4. Waters

Water samples are taken using a Whatman 41 filter paper over a 100 square centimeter. Water samples are taken on all incoming and outgoing shipments and in the general waste water. Water of incoming shipments ranged between 15 to 120 d/m^3 of d/m^3 . Water taken on outgoing shipments were less than 7% d/m^3 . Effluent water from the collection of the general waste water was 5% alpha d/m^3 . The average of all water taken was only 60.

5. Liquid Effluent Monitoring

All liquid wastes are monitored prior to release of the lower tank and thence to the septic system. According to the, all wastes containing in excess of .5% gross organic matter were not released, but were filtered. The filters were collected and kept as a camp accountability. Records of waste waters released to the septic system indicate levels of 1000 grams/liter of water to be the highest amount measured to date. Records of analysis of wash water (contaminated clothing) show release of free Cl_2 2.125 gm/l to 0.06 gm/l. In Plant 8, he stated all chemical and cleaning solutions are evaporated to dryness and material collected and stored as scrap.

6. Field Survey

According to the, some samples were taken outside the general plant area. Results of these samples show an average of 5% d/m^3 with a low of 1 and a high of 250 d/m^3 . He stated soil samples had been taken outside the plant facilities, but results of the analysis were not yet available.

7. Records

Records of personnel monitoring, direct radiation and air borne contamination are maintained as are records of waste

SYL 000042

disposal.

Physical examination records (including blood and
bio-assay samples) are maintained.

License SM-141

The licensee used facilities at their Bayside, Long Island plant to fabricate two pellets of 2 1/2 gms total U for General Atomics, San Diego, California. The work was started on February 5, 1953 and completed in April 1953. A total of 10 gms total UO₂ (containing 8.7 gms U - 8.15 gms of U235) was procured for this operation from Millinocket Chemical Company.

The powder metallurgy techniques which involved compacting of enriched UO₂ and zirconium hydride, according to Dr. Zambrow was performed inside a ventilated hood. The operations involved were:

1. 2.5 gms of enriched UO₂ and approximately 20 gms of ZrH₂ mixed in a vial.
2. The powder mixture is loaded into a die.
3. The die is heated in an hydrogen atmosphere at 675° C and hot pressed. The resultant compact was 3/8" in diameter by 2" long.
4. The compact was then cut into two pieces 1/4" x .9" long by dry machining inside a hood.

Accountability records maintained by Mr. Donohue, showed transfers of compact to General Atomics of 3.6 gms U and 3.3 gms as enriched U235. 5.13 gms total U is presently in storage in the accountability safe inside a 1 gallon container. Mr. Donohue stated that a letter had been sent to General Atomics requesting shipping instructions for the scrap material.

Dr. Zambrow stated that the procedures outlined in their license application booklet No. 70-107 dated November 15, 1957 was followed.

Radiological health safety was performed by Mr. Grieb. The radiation monitoring procedures are the same as reported under SM-32.

SYL 000044

Hooker Case File
Env. Prot. Bureau
N.Y.S. Department of Law
New York, New York

AU:GSB

Oak Ridge, Tennessee

JUN 13 1958

U. S. Army Engineer District, New York
Corps of Engineers
111 East 16th Street
New York 3, New York

Attention: Mr. Thomas F. Lynch, Chief
Real Estate Division

Gentlemen:

Reference is made to your letter dated May 16, 1958, Ref: NANRS - Lake Ontario Storage Area, Niagara Falls, N. Y., in which you requested permission for the Department of the Air Force, Rome Air Development Center, to use a parcel of land, including Building No. 418 located thereon, for a period of 5 years.

Effective June 15, 1958, permission is hereby granted for the Department of the Air Force, Rome Air Development Center, to use the parcel of Government-owned land under the custody and control of the Atomic Energy Commission at the former Lake Ontario Ordnance Works bounded on the west by the land presently under permit to the Air Force for power line purposes, on the north by the AEC security fence, on the east by Campbell Road, and on the south by Fletcher Road, containing approximately 26 acres, as outlined in red on the enclosed map, titled "Lake Ontario Ordnance Works, Metes and Bounds Survey, 1 to 11 June 1948." This permission is granted for a period of 5 years (subject to revocation as hereinafter provided) for the purpose of conducting propagation tests of tropospheric scatter equipment between the U. S. Air Force Verona Site and a new terminal. Also included in this grant of permission is the right to use Building No. 418 (former telephone building) located on the above land.

The above permission is granted subject to the following conditions:

1. The Department of the Air Force will be responsible for settlement of all third party claims arising from their entry upon and use of the land and Building No. 418.
2. The above grant of permission shall not impair in any respects the rights of the AEC to continue to enter upon the land as may be required at any time or times for the purpose of repairing, maintaining, or operating utility lines under AEC control crossing the area under permit.

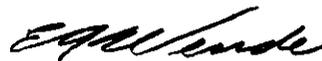
U. S. Army Engineer
District, New York

- 2 -

JUN 13 1958

3. The Department of the Air Force will conduct its operations under this permit in such a manner as to avoid or minimize the possibility of injury or damage to AEC fences, lines, or other facilities or property. If damage does occur, the Department of the Air Force will immediately inform AEC of such injury or damage and will repair such injury or damage to the satisfaction of a duly authorized representative of the AEC, or will reimburse AEC for the full cost and expense to AEC of repairing such injury or damage if repairs are made by or through AEC because of time factor or otherwise.
4. The Department of the Air Force will not commence modifications to Building No. 418 unless such modifications have been approved by AEC.
5. The Department of the Air Force will comply with security regulations of the Atomic Energy Commission applicable to the area within which rights granted hereunder are exercised.
6. Until July 1, 1958, the Chief, Niagara Falls Branch, Oak Ridge Operations Office, U. S. Atomic Energy Commission, who is located at the site, will be contacted before any work under this permit is commenced. Beginning July 1, 1958, Mr. A. F. Carney, Director, Administrative Operations Division, New York Operations Office, U. S. Atomic Energy Commission, 70 Columbus Avenue, New York 23, New York, will be contacted prior to commencement of work.
7. The U. S. Atomic Energy Commission may revoke the permission herein granted upon 60 days' written notice to the permittee.

Very truly yours,



S. R. Sapirio
Manager
Oak Ridge Operations

Enclosures:
Map

cc: E. J. Bloch, Dir. of Production, Washington, w/o encl.
J. A. Derry, Dir. C&S Division, Washington, w/encl.
J. W. Ruch, w/o encl.
F. W. Malone, Chief, NF Branch, w/encl.
J. W. Ould, Jr., w/encl.
(New York Operations Office, Attn: A. F. Carney, w/encl.)

Hooker Case File
Env. Prot. Bureau
N.Y.S. Department of Law
New York, New York

FOIA MATERIALS FROM DOE

ROLL 121

9279

Legal Files

June 16, 1958

K. D. McCasland

AFRICAN METALS CORPORATION K-65 AND METAL OXIDE SLUDGES AT NIAGARA
AND FERNALD

SYMBOL: MC:KDM

On May 28, 1958, I transmitted (by Buckalip) to Edwin E. Spingarn, Office of the General Counsel, a copy of a memorandum to the files prepared by R. G. Humphries, Deputy Director, Contract Division, CRO, outlining discussions held with Washington personnel and representatives of African Metals Corporation concerning the subject materials. I particularly called Spingarn's attention to the 2nd and 3rd paragraphs of page 4 of the memorandum concerning the question as to whether the Commission owned any residue uranium remaining in the subject material after processing by the Government. I stated that unless we were advised to the contrary, we would proceed on the basis that AEC does not own any part of these residues (the undersigned was so advised by James P. Murray, Jr. (through Ed Guilian) of the General Counsel's Office, on May 16, 1958, while in Washington for the above-mentioned discussions).

On June 13, 1958, while Guilian was in my office, I asked him if Spingarn had considered the question of AEC ownership of any part of these residues. Guilian advised me that Spingarn had reviewed my transmittal of May 28, that this matter had been discussed and that the Office of General Counsel was in full accord with the view previously expressed by Murray that AEC did not own any part of these residues. I stated that we would proceed on that basis, and in view of our conversation I would not check further with Spingarn.

K. D. McCasland

CC: R. G. Humphries
John Rich

MATERIALS 10 African Metals

Encl. 2

Contract No. AT-(3C-1)-1524

June 17, 1958

Mr. E. J. Witkowski
Oak Ridge National Laboratory
Oak Ridge, Tennessee

Subject: Radioactive Waste Shipment From Model City, New York

Dear Sir:

Enclosed are the Bills of Materials for cars AMX 201 & 205 which will be shipped June 18. The radiation monitoring results are noted and the cars are placarded.

A copy of this Bill of Material is being sent to D. Manieri at KAPL for his records.

Very truly yours,

Paul Seager

Paul Seager
Design Engineer
P-31

ES:ks

cc:	D.A. Manieri	KAPL
	F.W. Malone	MS-ARC
	J.D. Sweeney	RC
	P. Seager	REC

ROLL 1A1

Contact No. AT-(30-1)-1524

June 17, 1958

RADIOACTIVE WASTE MATERIAL
IN BOX CAR ATMX 201
DISPOSAL AT ORNL

<u>ITEMS</u>	<u>DESCRIPTION</u>	<u>MATERIALS</u>	<u>MAX. WEIGHT</u>
46 Boxes 2 Pallets	Wood 65 gal.c/s	Misc. Scrap None	750 #/Box 50 #/Pallet
Totals	46 Boxes & Boxes		

Estimated weight of car load 34,600#

Monitoring Results:

Containers should not exceed 50 mr/hr

External Radiation

10 mr/hr at 12 ft. from outer surface of box car sides.

10 mr/hr at 5 ft. from ends of box car.

Paul Seager
Paul Seager
Design Engineer
Plant - 31

Send to 4412 & 4413

Contract No. AT-(30-1)-1524

June 17, 1959

RADIOACTIVE WASTE MATERIAL
IN BOX CAR ATMX 205
DISPOSAL AT ORNL

<u>ITEMS</u>	<u>DESCRIPTION</u>	<u>MATERIALS</u>	<u>MAX. WEIGHT</u>
48 Boxes	Wood	Misc. Scrap	750 #/Box

Total 48 Boxes

Estimated weight of car load 36,000#

Monitoring Results:

Containers should not exceed 50 mr/hr

External Radiation

10 mr/hr at 12 ft. from outer surface of box car sides.

10 mr/hr at 5 ft. from ends of box car.

Paul Seager
Paul Seager
Design Engineer
Plant - 31

ka

Seal 4414-4415

1458

92

Merril Eisenbud, Manager, New York Operations Office

JUN 25 1958

S. R. Sapirie, Manager, Oak Ridge Operations Office

TRANSFER OF BORON METAL PLANT TO NEW YORK OPERATIONS OFFICE

SYMBOL: OF:TPC

By memorandum on the subject, dated March 17, 1958, from E. J. Bloch, Director, Division of Production, we were advised that the Divisions of Production and Reactor Development had concurred in our proposal of transfer to New York Operations Office of administrative responsibility for the Boron Metal Plant and related property at Modat City, N. Y., and the waste storage area, known as the Haist Property, at Tonawanda, N. Y. The same memorandum said that we should work out all necessary details with NYOO. A copy of Mr. Bloch's memorandum was forwarded to you.

As July 1, 1958, the effective date of the transfer, is imminent, we wish to summarize the status of significant items related to the transfer.

On June 30, 1958, the following will be the status of items shown:

1. Placement of the Boron Plant in Standby: Hooker Electrochemical Company will have the plant and related facilities in standby condition, ready for turn over to Olin Mathieson Chemical Company as of close of business June 30, 1958. The Hooker contract will be retained here for close-out. The Olin Mathieson contract, effective July 1, 1958, will be transferred to NYOO.
2. Other Contracts and Agreements. In addition to the Olin-Mathieson contract, these contracts will be transferred to NYOO:

<u>Contract</u>	<u>Scope</u>
New York Central Railroad, AT-(30-1)-805	Sidetrack agreement
Tennessee Gas Transmission Co., AT-(30-1)-1996	Pipe-line easement to TCOF.
City of Niagara Falls, AT-(30-1)-1035	Water supply.
Niagara Mohawk Power Company, AT-(30-1)-525	Electric supply.
New York Telephone Company, TS-71861	Telephone Service.

PLANTS, LABS., BUILDINGS & LAND 2 *W. J. ...*

Merril Eisenbud

- 2 -

JUN 25 1958

Agreements with agency and private users for water supply, and permits to the Air Force and Navy for occupancy and use of land and buildings will also be transferred. By separate memorandum we will furnish more detail as to scope, term and future administrative action of the above contracts. Where necessary, we have taken action to extend contracts for FY 1959.

3. Records. The only records to remain at the plant site will consist of manuals, drawings and tracings related to standby maintenance, plant reactivation and operation, together with property lists and cards.

We are this week sending to NYOO a small amount (possibly one file drawer) of records from our active Feed Materials and Contracts files. Real property records to be forwarded early in July will include copies of various permits to the Air Force and Navy for occupation and use of land and buildings, complete information pertinent to such permits and a map of the entire Model City area showing the location of the several areas occupied and used by the AEC and other agencies. Finance records, necessary for year-end closing, will remain here until August when they will be transferred to you.

All classified and unclassified Hooker and AEC records have been removed from the sites. In keeping with the unclassified nature of the work, beginning July 1, 1958, no classified records will be at the site.

4. Property Disposal. Stores and equipment not required for standby have been transferred to AEC and other agency contractors, donated to educational institutions, or sold.

Physical inventory of stores and equipment have been taken this month. Inventory listings and related property record cards will be turned over to Olin-Mathieson at the site. In addition, you will be furnished cost data related to standby inventories and plant and equipment based on June 30 closings. This will include quantities and dollar values of boron polymer which will be set aside in drums and retained at the site for plant start-up purposes.

5. Source and Special Nuclear Materials Accountability. Transfer from Hooker and the AEC Site Representative of accountability for source and special nuclear materials and related records will be resolved this week.

Merril Eisenbud

- 3 -

JUN 25 1958

6. KAPL Wastes. The waste material resultant from Knolls Atomic Power Laboratory operations will have been burned or shipped to Oak Ridge for burial.
7. Radium Write-Off. Headquarters has approved and action has been taken to write-off the dollar value of radium contained in Commission-owned residues located at the Niagara Falls site. The question of such write-off was raised in the New York meeting of March 3, 1958, in which the proposed transfer was discussed.
8. African Metals Sludges. It is expected that a lease agreement with African Metals Corporation will be in effect as of July 1, 1958. The lease will permit African Metals to store for a 25-year period the K-65 and other radium-bearing sludges located in the Water Tower - Silo and the old Water Treatment Area. NYOO will administer the lease, the terms and conditions of which have been made known to NYOO personnel through discussions and related correspondence.
9. Personnel. Confirming information given orally to NYOO, Frank Malone will remain on ORO rolls through July 12; his transfer to the Division of Production, Headquarters, will be effective July 13. We understand that Headquarters is agreeable, if Malone's services are required at Niagara Falls beyond July 13, to arranging some extension in date of physical transfer. Malone is the only AEC employee involved in the transfer of plant responsibility.
10. Customs. By teletyped dated June 5, 1958, copy to you, we advised Operations Offices concerned that assistance would not be available after June 30 in clearing through customs AEC shipments through the ports of Buffalo and Niagara Falls. Of late, this assistance has mostly consisted of expediting on the part of the AEC representative at the site. Prior to transmitting the June 5, teletype, we informally advised AEC offices, most directly concerned, that customs assistance was being discontinued. The offices contacted could see no difficulty in making their own arrangements.
11. Finance and Budget. You will be separately advised of year-end balances and cost transfers involved in inventories and plant and equipment. Budget information for FY 1959 planning was supplied in our teletypes to you of April 23 and May 2, 1958. Additional budget information, based on year-end closings, will be forthcoming.

JUN 25 1958

Merril Eisenbud

- 4 -

- 12. Future Boron Distribution. Boron inventories in excess of standby requirements have been transferred to Chicago Operations Office (Michigan Chemical Corporation) and Oak Ridge Operations Office (Oak Ridge National Laboratory). A copy of a press release, dispatched June 16, 1958, on boron distribution plans has been separately forwarded to NYOO.
- 13. Delegations of Authority. OROO will revoke those delegations of authority which have been issued to ORO personnel to act as Commission representatives in administration of the above referenced contracts. Revocation will be effective as of close of business June 30, 1958. We assume that NYOO will issue to its representatives new delegations, effective July 1, 1958.

The following comments pertain to significant items which will remain open as of July 1, 1958:

- 1. Air Force Transfer. AEC Headquarters has received a request from the Corps of Engineers for transfer to the Air Force of the sewage disposal plant, the land it occupies, various utilities (railroad side track, 10" potable water line, 42" raw water line, 30" outfall sewer line and related easements); and approximately five acres of land over which the Air Force has run power lines under AEC permit. Headquarters has requested the Engineers to furnish additional information on the land connected with the sewage disposal plant. Receipt of such information is expected momentarily and the "programmatic transfer" to the Air Force, which we have recommended, can then be processed.

In accepting transfer of the above mentioned property, the Air Force will take over and administer water agreements with private and agency users. OROO will be responsible for meter readings and billings for the quarter ending June 30, 1958. By the time quarterly readings for the period ending September 30, 1958, are required, the Air Force transfer should be consummated.

It is our understanding that Headquarters will prepare for field review and comment documents related to the Air Force transfer.

- 2. C-Slag. Approximately two million pounds of dolomitic soluble uranium bearing slag now located at Niagara Falls will be moved to the Y-12 Plant at Oak Ridge for processing. Car loadings and other removal action will be done under subcontract to Union Carbide Nuclear Company. It is intended that removal will be accomplished by July 15, 1958. Details to cover

OFFICE >				
SURNAME >				

JUN 25 1958

Merril Eisenbud

- 5 -

accountability requirements are being discussed during this week's site inspection of NYCO representatives. Under separate cover, we are mailing to you a copy of a letter, dated June 11, 1958, from J. P. Murray, Y-12 Plant Superintendent, to C. A. Keller, Director, Production Division, ORO. The letter describes details of the C-slag removal.

I believe you will agree after review of all items summarized herein that work connected with the transfer of the Boron Metals Plant and Haist Property has been satisfactorily resolved or brought sufficiently to conclusion so that an orderly transfer will be realized. We sincerely appreciate the assistance which NYCO has given us in meeting this objective. If we may be of help in resolving any problems resulting from the transfer, we urge that you call upon us.

ORIGINAL SIGNED BY
 E. A. WENDE

S. R. Sapirie

- CC: E. J. Bloch, Division of Production, Headquarters (2)
 W. K. Davis, Division of Reactor Development, Headquarters (thru: E. J. Bloch) (2)
 R. C. Armstrong, Assistant Manager for Operations, ORO
 L. H. Groeniger, Director, Organization & Personnel Div., ORO
 J. R. Moore, Director, Contract Division, ORO
 J. W. Guld, Assistant General Counsel, ORO
 F. P. Trent, Director, Supply Division, ORO
 L. D. Mackay, Director, Finance Division, ORO
 F. W. Malone, Niagara Falls

	Feed Materials Division	D&P	Contract	Legal	Supply	Finance	Operations
OFFICE							
SURNAME	Carter	Rosen	Miller	Trent	Wendel	Malone	Malone
DATE	6-24-58	6/24	6/25/58	6/24	6-25-58	6-25-58	6/25

Hooker Case File
Env. Prot. Bureau
N.Y.S. Department of Law
New York, New York

FOIA MATERIALS FROM DOE

Roll 121

S. R. Sapirie, Manager, Oak Ridge Operations

John W. Ruch, Director, Feed Materials Division

AFRICAN METALS CORPORATION K-65 AND METAL OXIDE SLUDGES AT
NIAGARA FALLS AND FERNALD

SYMBOL: OF:TPC

We are enclosing copies of:

1. A tabulation of waste residues held in trusteeship for African Metals, Inc.
2. Copy of a memorandum on the subject to Files from K. D. McCasland, Assistant General Counsel's Office.

Enclosure #1 shows the amount of uranium contained in African Metals sludges as reflected in source and special nuclear materials inventory records maintained in the Nuclear Materials Control Branch, ORO. Enclosure #2 reflects the opinion of the General Counsel's Office that the Commission has no ownership in any of the uranium contained in subject material.

In view of the General Counsel's opinion that the Commission does not have title to the uranium remaining in the African Metals residues, we recommend that such uranium be removed from AEC inventory records. This action will reduce AEC record keeping to merely a location record of the uranium. This is significant as we prepare to enter long term leases with African Metals for the facilities at Niagara Falls and Fernald where the African Metals residues are stored. We note that we have advised African Metals of the licensing requirement of the Atomic Energy Act of 1954, as amended, and regulations pertaining thereto (Part 40, Title 10 CFR). Provisions covering the application for, obtaining and maintaining any applicable licenses are being included in the proposed lease agreements.

MATERIALS 10 Africa
Metals

Hooker Case File
Env. Prot. Bureau
N.Y.S. Department of Law
New York, New York

FOIA MATERIALS FROM DOE

ROLL 121

S. R. Spirie

- 2 -

If you approve our recommendation for removal of the uranium from inventory records, please sign in the space provided below.

John W. Ruch

APPROVED:
ORIGINAL SIGNED BY
E. A. WENDE

S. R. Spirie
Manager
Oak Ridge Operations

Enclosures:
1-Tabulation of Waste Residues
2-Copy Memo, McGasland to Files, 6-16-58

OK
CC: R. C. Armstrong, w/encls.
C. A. Keller, w/encls.
L. D. MacKay, w/encls.
J. R. Moore, w/encls.
J. W. Ould, Jr., w/encls.
A. F. Carney, NYOO, w/encls.

OFFICE	Feed Materials Division	PROD. DIV.	PRODUCTION DIVISION	OPERATIONS	MANAGER
SURNAME	Carberry:dh Cooking	McCasland	Keller	MW	Wend
DATE	6-26-58	6/26/58	6/26/58	6/27/58	6/27

26
 6/16/58

Tabulated below is the latest compilation of waste residues held in trusteeship for African Metals, Inc., at Niagara Falls and at FMPC.

TABLE

Trusteeship - Residues stored at LOOW,
 Niagara Falls

<u>Type of Material</u>	<u>Approximate Weight in Thousand Pounds</u>		<u>Lbs. U</u>	<u>Dry Wt. %U</u>
	<u>Wet</u>	<u>Gross Dry</u>		
1. Sludge from 10% African Ore (L-30)	16,825	25,942	54,996	0.21
2. Sludge from 6% African Ore (L-50)	11,349	7,036	6,332	0.09
3. Sludge from African Ore (P-32)	675	463	2,500	0.54
4. Residue from African Ore (K-65)	22,000	-	11,005	.05 (Approx)
5. Lead Sulfide Residue from African Ore (P-54)	<u>148</u>	<u>74</u>	<u>633</u>	<u>0.85</u>
Sub-Total	80,997	33,515	75,466	

Trusteeship - Residues stored at FMPC,
 Fernald, Ohio

1. Non-Recoverable (K-65) Ra Bearing Silica sludge	48,000	27,188	.057
2. Raffinate Metal Oxides	<u>1,620</u>	<u>5</u>	<u>.003</u>
Sub-Total	<u>49,620</u>	<u>27,193</u>	
TOTAL	130,617	102,659	

Incl. 2

S. R. Sapirie, Manager, Oak Ridge Operations

NY 17 4/26/58

John W. Rush, Director, Feed Materials Division

AFRICAN METALS CORPORATION K-65 AND METAL OXIDE SLUDGES AT NIAGARA FALLS AND FERNALD

SYMBOL: OF:TPC

We are enclosing copies of:

- 1. A tabulation of waste residues held in trusteeship for African Metals, Inc.
- 2. Copy of a memorandum on the subject to Files from K. D. McCasland, Assistant General Counsel's Office.

Enclosure #1 shows the amount of uranium contained in African Metals sludges as reflected in source and special nuclear materials inventory records maintained in the Nuclear Materials Control Branch, ORO. Enclosure #2 reflects the opinion of the General Counsel's Office that the Commission has no ownership in any of the uranium contained in subject material.

In view of the General Counsel's opinion that the Commission does not have title to the uranium remaining in the African Metals residues, we recommend that such uranium be removed from AEC inventory records. This action will reduce AEC record keeping to merely a location record of the uranium. This is significant as we prepare to enter long term leases with African Metals for the facilities at Niagara Falls and Fernald where the African Metals residues are stored. We note that we have advised African Metals of the licensing requirement of the Atomic Energy Act of 1954, as amended, and regulations pertaining thereto (Part 40, Title 10 CFR). Provisions covering the application for, obtaining and maintaining any applicable licenses are being included in the proposed lease agreements.

MATERIALS 10 Africa Metals
~~MATERIALS~~ 10

OFFICE ▶						
SURNAME ▶						
DATE ▶						

S. R. Sapirie

- 2 -

If you approve our recommendation for removal of the uranium from inventory records, please sign in the space provided below.

John W. Ruch

APPROVED:
ORIGINAL SIGNED BY
E. A. WENDE

S. R. Sapirie
Manager
Oak Ridge Operations

Enclosures:
1-Tabulation of Waste Residues
2-Copy Memo, McGasland to Files, 6-16-58

CC: R. C. Armstrong, w/encls.
C. A. Keller, w/encls.
L. D. Mackay, w/encls.
J. R. Moore, w/encls.
J. W. Ould, Jr., w/encls.
A. F. Carney, NYOD, w/encls.

OK

OFFICE ▶	Feed Materials Division	ASST. GENL. COUNCIL	PRODUCTION DIVISION	OPERATIONS	MANH
SURNAME ▶	Carberry:dh <i>Carberry</i>	McGasland	Keller	nw	<i>[Signature]</i>
DATE ▶	6-26-58	6/26/58	6/26/58	6/27/58	6/27

OK

Tabulated below is the latest compilation of residues
in trusteeship for African Metals, Inc., at Niagara Falls and at
FMPC.

TABLE

Trusteeship - Residues stored at LOOW,
Niagara Falls

<u>Type of Material</u>	<u>Approximate Weight in Thousand Pounds</u>		<u>Lbs. U</u>	<u>Dry Wt. %U</u>
	<u>Gross</u>			
	<u>Wet</u>	<u>Dry</u>		
1. Sludge from 10% African Ore (L-30)	46,825	25,942	54,996	0.21
2. Sludge from 6% African Ore (L-50)	11,349	7,036	6,332	0.09
3. Sludge from African Ore (F-32)	675	463	2,500	0.54
4. Residue from African Ore (K-65)	22,000	-	11,005	.05 (Approx)
5. Lead Sulfide Residue from African Ore (P-54)	<u>148</u>	<u>74</u>	<u>633</u>	<u>0.85</u>
Sub-Total	80,997	33,515	75,466	

Trusteeship - Residues stored at FMPC,
Fernald, Ohio

1. Non-Recoverable (K-65) Ra Bearing Silica sludge	48,000		27,188	.057
2. Raffinate Metal Oxides	<u>1,620</u>		<u>5</u>	<u>.003</u>
Sub-Total	<u>49,620</u>		<u>27,193</u>	
TOTAL	130,617		102,659	

RECEIVED
GENERAL COUNSEL
MAY 16 1958

RECEIVED
MAY 16 1958

Legal Files

June 16, 1958

K. D. McCasland

AFRICAN METALS CORPORATION K-65 AND METAL OXIDE SLUDGES AT NIAGARA AND FERNALD

SYMBOL: MC:KDM

On May 28, 1958, I transmitted (by Buckslip) to Edwin E. Spingarn, Office of the General Counsel, a copy of a memorandum to the files prepared by R. G. Humphries, Deputy Director, Contract Division, ORO, outlining discussions held with Washington personnel and representatives of African Metals Corporation concerning the subject materials. I particularly called Spingarn's attention to the 2nd and 3rd paragraphs of page 4 of the memorandum concerning the question as to whether the Commission owned any residue uranium remaining in the subject material after processing by the Government. I stated that unless we were advised to the contrary, we would proceed on the basis that AEC does not own any part of these residues (the undersigned was so advised by James P. Murray, Jr. (through Ed Guilian) of the General Counsel's Office, on May 16, 1958, while in Washington for the above-mentioned discussions).

On June 13, 1958, while Guilian was in my office, I asked him if Spingarn had considered the question of AEC ownership of any part of these residues. Guilian advised me that Spingarn had reviewed my transmittal of May 28, that this matter had been discussed and that the Office of General Counsel was in full accord with the view previously expressed by Murray that AEC did not own any part of these residues. I stated that we would proceed on that basis, and in view of our conversation I would not check further with Spingarn.

K. D. McCasland

CC: R. G. Humphries
John Buch

MATERIALS 10 African Metal

B. M. Robinson

Diary

June 16, 1958

-1-

Roy Anderson, by phone, gave me the following information regarding the quantity of metal oxides which result from processing of African metals Q-11 ore.

1. Metal oxides now in silos 1,212,443 lbs.
2. Metal oxides now in 55 gal. drums 350,333
3. Metal oxide and some nitrate resulting from clean out of refinery at end of Q-11 campaign's stored in 30 & 55 gal. drums 57,504

1,620,280 lbs.

= 810 tons

4. Metal oxides estimated to be produced in final campaign 220,000 lbs.
= 110 tons

TOTAL 920 tons ✓

Tabulated below is the latest compilation of waste residues held in trusteeship for African Metals, Inc., at Niagara Falls and at FMPC

TABLE

Residues stored at Niagara Falls, Ending Inventory April 30, 1957

<u>Type of Material</u>	<u>Approximate Gross Wt. in Thousand Pounds</u>		<u>S.S. Lbs. U</u>	<u>Dry Wt. %U (Approx)</u>
	<u>Wet</u>	<u>Dry</u>		
1. Sludge from 10% African Ore (L-30)	46,825	25,942	54,996	0.21
2. Sludge from 6% African Ore (L-50)	11,349	7,036	6,332	0.09
3. Sludge from African Ore (F-32)	675	463	2,500	0.54
4. Residue from African Ore (K-65)	22,000	11,000	11,005	.10
5. Lead Sulfide Residue from African Ore (P-54)	<u>148</u>	<u>74</u>	<u>633</u>	0.85
Sub-Total	80,997	44,515	75,466	

Residues stored at FMPC, Fernald, Ohio, Ending Inventory May 31, 1958

1. Non-Recoverable (K-65) Re Bearing Silica sludge	48,000	24,000	27,099	.12
2. Refined Metal Oxides	<u>3,240</u>	<u>1,620</u>	<u>437</u>	.03
Sub-Total	51,240	25,620	27,536	
TOTAL	132,237 <u>132,237</u>	70,135 <u>70,135</u>	103,002 <u>103,002</u>	

Contract No. AT-(30-1)-152h

June 26, 1958

Mr. E. J. Mikowski
Oak Ridge National Laboratory
Oak Ridge, Tennessee

Subject: Radioactive Waste Shipment From Rodal City, New York

Dear Sir:

Enclosed are the Bills of Materials for cars AX 208 & 209 which will be shipped on or about June 26. The radiation monitoring results are noted and the cars are placarded.

A copy of this Bill of Material is being sent to D. Manieri at KAPL for his records.

Very truly yours,

Paul Seager

Paul Seager
Design Engineer
P-31

FS:lm

cc: D.A. Manieri	KAPL
F.W. Malone	HF-ALC
J.D. Sweeney	NEC
P. Seager	HSC

Contract No. AT-(30-1)-1524

June 26, 1953

RADIOACTIVE WASTE MATERIAL
IN BOX CAR ATX 208
DISPOSAL AT ORNL

<u>ITEMS</u>	<u>DESCRIPTION</u>	<u>MATERIALS</u>	<u>MAX. WEIGHT</u>
47 Boxes	Wood	Misc. Scrap	750 #/Box

Total 47 Boxes

Estimated weight of car load 35,250#

Monitoring Results:

Containers should not exceed 200 mr/hr

External Radiation

10 mr/hr at 12 ft. from outer surface of box car sides.

10 mr/hr at 5 ft. from ends of box car.

Paul Seager

Paul Seager
Design Engineer
Plant - 31

Contract No. AT-(30-1)-1524

June 26, 1953

RADIOACTIVE WASTE MATERIAL
IN BOX CAR AT 209
DISP SAL AT ORNL

<u>ITEMS</u>	<u>DESCRIPTION</u>	<u>MATERIALS</u>	<u>MAX. WEIGHT</u>
30 Boxes	Wood	Misc. Scrap	750 #/box

Total 30 Boxes

Estimated weight of car load 22,500#

Monitoring Results:

Containers should not exceed 200 mr/hr

External Radiation

10 mr/hr at 12 ft. from outer surface of box car sides.

10 mr/hr at 5 ft. from ends of box car.

Paul Seager
Paul Seager
Design Engineer
Plant - 31

ka



Second United Nations
International Conference
on the Peaceful Uses
of Atomic Energy

A/CONF.15/P/1836
USA
27 June 1958
ORIGINAL: ENGLISH

Confidential until official release during Conference

PRODUCTION OF BORON-10

by

G. T. Miller,* R. J. Kralik,* E. A. Belmore,* and J. S. Drury**

INTRODUCTION

The contrasting nuclear properties of the boron isotopes led to an effort to separate these isotopes on a large-scale basis very early in the development of the U. S. nuclear energy program. Research leading to a solution of this problem was first initiated under the leadership of H. C. Urey at Columbia University in 1943. It was there that the basic conditions were developed for the separation of the isotopes by the equilibrium distillation of the dimethyl ether-boron trifluoride complex. It was there, also, that a process for the reduction of the complex to elemental boron was evolved. This work has been reported in detail by Kilpatrick, Hutchison, Taylor, and Judson.¹

Later, based on this research, a semi-commercial plant using the boron trifluoride-dimethyl ether complex was built and operated by the Standard Oil Company of Indiana. The boron-10 enriched complex from this plant was shipped to the American Cyanamid Company where it was converted to BCl_3 and reduced to elemental boron by the hydrogen-hot wire process. Both of these companies developed a number of improvements on their phases of the process before the pilot plant was finally shut down and dismantled. The work of the Standard Oil Company of Indiana was reported by A. L. Conn and co-workers,^{2,3} and that of the American Cyanamid Company by J. K. Dixon and co-workers.⁴

In 1953 the U. S. Atomic Energy Commission authorized construction of a new plant for the manufacture of elemental boron enriched in boron-10. The site of the former Lake Ontario Ordnance Works at Model City (Niagara Falls), New York, was selected as the location and the Hooker Electrochemical

*Hooker Electrochemical Company, Niagara Falls, New York, U.S.A.

**Oak Ridge National Laboratory, Oak Ridge, Tennessee, U.S.A.

DOL-08-02985

Company as operating contractor. The engineering firm of Singmaster and Breyer (now a division of the Fluor Corporation) was retained to design and build the plant. Because of the experience available from earlier studies, the isotope enrichment method chosen for use in this plant was the equilibrium distillation of the boron trifluoride-dimethyl ether complex. Similarly, the hot-wire reduction method was chosen as the process by which the metal should be obtained. The process was installed in an existing building for a total cost of approximately four million dollars. The designed capacity of the plant was 500 kilograms per year of elemental boron enriched to 90-95 atom % B-10/B total.

The boron-10 plant began operating in June 1954. Initially a staff of 120 persons was required. This was divided into 35 chemical operators, 19 maintenance mechanics, and 14 supervisors and chemical engineers. The remaining 52 were distributed among the Control Laboratory Group, the Development Group and Service groups. This staff was gradually decreased to 109 by the end of 1957.

Operation of this plant was divided into two sections or phases. Phase I was concerned with the processes necessary for the enrichment of the boron-10 isotope by the fractionation of the boron trifluoride-dimethyl ether complex. Phase II was concerned with the reduction of this enriched complex to elemental boron.

approximately 40 Kg of boron-10 in the form of elemental boron enriched to 92% B-10/B total.

PRESENT STATUS OF THE PLANT

The plant was shut down in January 1958 and placed in standby on July 31, 1958. The action was taken as a result of a decision by the United States Atomic Energy Commission that the inventory on hand was adequate to meet the demand for elemental boron enriched in isotope-10 for the next several years.

Office Memorandum • UNITED STATES GOVERNMENT

TO : ^{DOL-08-02985} A. Tammaro, Assistant General Manager
for Research and Industrial Development

DATE: JUL. 2 1958

FROM : *for* *W. Morris*
W. Kenneth Davis, Director
Division of Reactor Development

SUBJECT: APPROVAL OF LOAN OF AEC-FURNISHED MATERIALS TO EDUCATIONAL INSTITUTIONS

SYMBOL: RD:KDS:GVP

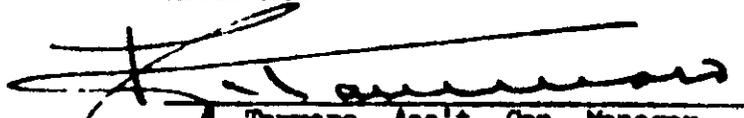
The universities and colleges listed in the attachment to this memorandum have requested the loan without charge of the corresponding amounts of source, special nuclear and other material. I am submitting this list of requests to you recommending that you consider them in accordance with AEC 267/42. This staff paper authorizes the General Manager to approve the loan of AEC-furnished materials to non-profit educational institutions. Subsequently, the General Manager delegated this authority to you by note dated May 12, 1958.

The total amounts of source and special nuclear material in the attachment, if approved, represent the first such materials to be loaned without charge under this program in FY 1959, and are within the limits established in AEC 267/46.

All of the institutions in the attachment are qualified under the AEC educational assistance program to receive the loan of materials requested. They will be advised that they must possess the appropriate licenses as required before the materials are released to them. Therefore, it is recommended that you approve the loan of the indicated amounts of source, special nuclear and other material to the respective educational institutions listed in the attachment.

Attachment:
Educational Institutions recommended
for the loan without charge of AEC-
furnished materials.

APPROVED:


A. Tammaro, Ass't. Gen. Manager
for Research & Industrial Dev.

7/3/58
Date

**EDUCATIONAL INSTITUTIONS
FOR THE LEAD WEAPONS
OF A FUTURE WORLD**

NATURAL URANIUM METAL (BLUES CAUSED IN ALUMINUM)

<u>Institution</u>	<u>Amount, Egs.</u>	<u>Maximum Allocated in Any Fiscal Year (ASR 267/46)</u>
University of California, Berkeley	2500	
California Institute of Technology ✓	2500 ✓	
University of Connecticut ✓	2500 ✓	
Everford College	2280	
University of Illinois	1640	
Kansas State College	1420	
Michigan College of Mining & Technology ✓	2500 ✓	
Occidental College ✓	2500 ✓	
The University of Rochester ✓	2500 ✓	
Texas Technological College ✓	2500 ✓	
Utah State University ✓	<u>2500</u> ✓	
Total	25,340	62,500

CONTAINED U-235

<u>Institution</u>	<u>Amount, grams</u>	
University of Arizona	1500	
University of Missouri	700	
University of Nevada	700	
University of Oklahoma	750	
The University of Texas	700	
Utah State University	<u>1</u>	
Total	4,351	160,000

PLUTONIUM IN PLUTONIUM-BERYLLIUM NEUTRON SOURCES

<u>Institution</u>	<u>Amount, grams</u>	<u>Maximum Allocated in Any Fiscal Year (AEC 267/46)</u>
The University of Akron	80	
Arizona State College at Tempe	32	
University of Arizona	64	
The University of Buffalo	16	
California Institute of Technology	80	
Gettysburg College	16	
University of Illinois	80	
Kansas State College	80	
Michigan College of Mining & Technology	80	
University of Nevada	80	
The City College, New York	80	
Occidental College	80	
The University of Rochester	80	
The University of Texas	16	
Utah State University	64	
Total	928	3200

PLUTONIUM IN OTHER FORMS

<u>Institution</u>	<u>Amount, grams</u>	
University of Houston	1	
Total	1	200

POLONIUM IN POLONIUM-BERYLLIUM NEUTRON SOURCES

<u>Institution</u>	<u>Amount, grams</u>
University of Maine	5
University of Missouri	10

QUOTATION FROM LETTERS TO UNIVERSITIES
AND COLLEGES REGARDING HANDLING
URANIUM METAL

As the number of universities and colleges requesting canned slugs will exceed the monthly output rate of canned reject slugs at Savannah River, you would be delayed several months in obtaining canned uranium slugs. However, the Commission will be able to provide uncanned slugs to you more expediently. These slugs would need to be specially handled, and contained in protective water-proof tubes, properly sealed to assure against contamination or chemical reaction by the uranium.

Uranium metal slowly oxidizes in air at room temperature and will spark when struck with or dropped on a hard object. Personnel handling uranium metal should wear gloves which will protect their hands from the radiation emitted.

Statements that you would provide the necessary safety measures, the protective containment of the slugs, and the necessary monitoring procedures to detect harmful contamination would be required in your application for a license to possess uncanned natural uranium metal slugs.

In returning this acceptance please indicate your preference for either uncanned or canned slugs.

02983

Oak Ridge, Tennessee

JUN 13 1958

AGD:RGH

Olin Mathieson Chemical Corporation
P. O. Box 438
Niagara Falls, New York

Attention: Mr. John H. Heck, Manager, Contract Negotiations

Subject: PROPOSED CONTRACT NO. AT-(40-1)-2421 FOR STANDBY MAINTENANCE
SERVICES AT BORON-10 PLANT, MODEL CITY, NEW YORK

Gentlemen:

This will advise you that your firm has been selected to furnish the required standby maintenance services at our Boron-10 Plant, located at Model City, New York, for which you submitted a proposal in response to our invitation.

In line with the discussions in your offices on June 4 and 5, 1958, we have prepared a proposed time and material type contract to cover your services. Enclosed for your consideration are four (4) copies of the proposed contract. We hope you will find the contract to be in accord with the understanding reached with you. If you should have any questions concerning the document, kindly telephone me at Oak Ridge ID-220, Extension 4338.

If you find the contract to be in satisfactory form, it is requested that you execute and return three (3) of the enclosed copies, retaining the fourth copy for your file. When the contract is signed for the Commission, you will be furnished one completely executed copy together with such number of carbon copies as you may require.

It was certainly a pleasure to negotiate with you and we would like to express our appreciation for the courtesies extended to us during our visit.

Very truly yours,

R. G. Humphries
Acting Director, Contract Division
Oak Ridge Operations

Enclosure:
Contract AT-(40-1)-2421 (4 cys)

CC: John W. Ruch, w/cy encl
Frank Malone, Niagara Falls, w/cy encl
Leo Graup, New York Operations, w/cy encl

3694

Office Memorandum • UNITED STATES GOVERNMENT

1.9

TO : Clarence L. Karl, Manager, Fernald Area Office DATE: JUL 15 1958
 THRU : S. R. Sapirie, Manager, Oak Ridge Operations Office
 E. J. Bloch, Director, Division of Production
 FROM : W. Kenneth Davis, Director *S.S. Mamm for*
 Division of Reactor Development, Washington

2352

SUBJECT: LOAN WITHOUT CHARGE OF UNCANNED NATURAL URANIUM REJECT SLUGS TO
 EDUCATIONAL INSTITUTIONS

SYMBOL: RD:EDB:GVP

Reference is made to the telephone conversation between Mr. George V. Packer, Division of Reactor Development staff member, and Mr. Roy Anderson, Deputy Area Manager, Fernald Area Office, on July 8 regarding the above subject.

The Atomic Energy Commission established a policy and program of loaning without charge nuclear materials to non-profit educational institutions by approving staff papers AEC 267/28 and AEC 267/42. Allocations for the loaned nuclear material are authorized by AEC Washington.

These materials include reject natural uranium slugs. Until now the reject Savannah River and Hanford canned slugs have been in sufficient supply to provide uranium for the subcritical assemblies being built by universities and colleges for instructional purposes in reactor physics laboratories.

Now, however, there is a need to make use of machined, uncanned reject slugs available at Fernald. For forecast purposes only, I am requesting you to anticipate furnishing machined, uncanned slugs to the following educational institutions:

<u>Institution</u>	<u>Natural Uranium, Kgs.</u>
California Institute of Technology	2500
University of Connecticut	2500
State University of Iowa	2500
Michigan College of Mining & Technology	2500
Occidental College	2500
The University of Rochester	2500
Texas Technological College	2500
Utah State University	2500
Total	20,000

MATERIALS 3-7
 FMD
 JUL 31 1958

(continued)

H 7500

Clarence L. Karl

- 2 -

It would be desirable for all of the above schools to receive machined uncanned reject solid Savannah River slugs if enough are available to make up entire 2500 kg. shipments uniformly containing these slugs. Otherwise, shipments may be 2500 Kgs. each containing all Type A or all Type B machined uncanned hollow Savannah River reject slugs.

I am attaching copies of the memorandums indicating General Manager approval for schools to receive nuclear materials including those listed above. After we have received the respective institutions' formal acceptances of the loan of the above amounts of natural uranium, I will request you to contact the schools and arrange shipments. I am also attaching a quotation from the letters to the schools warning them of the health and safety measures required in handling natural uranium metal.

If you have any questions on this matter contact George V. Packer, DRD, AEC Washington, Hazelwood 7-7800, extension 4283.

Attachments: *OK/mt*
GM approval dtd 1/28/58
GM approval dtd 5/23/58
GM approval dtd 7/8/58
Quotation re handling uranium metal

JUL 31 1958

H 7500

E. I. du Pont de Nemours & Co.
Explosives Department
Atomic Energy Division
Wilmington 98, Delaware

- Copy 1-2 - P. J. Hagelston
- 3 - H. Worthington - J. C. Woodhouse-R. E. Fisher
- 4 - M. S. Bloomsburg - A. C. Dutton
- 5 - R. R. Herries
- 6 - W File
- 7 - M. H. Wahl - C. W. J. Wendt
- 8 - J. W. Croach-P. H. Permar
- 9 - C. C. McBride
- 10 - TIS File

CG 301-15

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

July 23, 1958

MEMORANDUM TO FILE

FROM R. R. HERRIES

R. R. Herries

This document consists of [REDACTED] pages

No. [REDACTED] of [REDACTED] copies

Series A

MARK VA MEETING
SAVANNAH RIVER LABORATORY
JULY 16, 1958 (u)

A meeting was held at the Savannah River Laboratory on July 16, 1958 to review the status of the Mark VA pressure bonding program. Those present were:

- W. Lidman, SylCor
- K. Geiling, SylCor
- H. E. Watts, SylCor
- E. C. Stark, SROO
- M. S. Bloomsburg
- R. R. Herries, Will

- D. Baker, SRL
- R. H. Bouter, SRL

Summary

1. SylCor has pro River, 40 of which will evaluation of the piece identical conditions ha for reactor tests.

2. All inner Mark

3. The Savannah F heat treatments for Mar during irradiation of t

4. The Mark VA 1r is as follows:

- a. two assem August at
- b. two assem in the fo

WSRC DECLASSIFICATION REVIEW	
1st Review Date: 4/27/94	Determination (Circle N)
Authority: <input type="checkbox"/> ADC <input checked="" type="checkbox"/> ADD	1. Classification Urr
Name: R. L. Collins	2. Classification
2nd Review Date: 4/23/00	3. Class
Authority: ADD	4. O
Name: J. G. [Signature]	

E. I. du Pont de Nemours & Co.
Explosives Department
Atomic Energy Division
Wilmington 98, Delaware

- Copy 1-2 - P. J. Hagelston
- 3 - H. Worthington - J. C. Woodhouse-R. E. Fisher
- 4 - M. S. Bloomsburg - A. C. Dutton
- 5 - R. R. Herries
- 6 - W File
- 7 - M. H. Wahl - C. W. J. Wende
- 8 - J. W. Croach-P. H. Permar
- 9 - C. C. McBride
- 10 - TIS File

CG-301.15

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

July 23, 1958

MEMORANDUM TO FILE
FROM R. R. HERRIES

R. R. Herries

This document consists of 1 page

No. 1 of 1 copies

Series A

MARK VA MEETING
SAVANNAH RIVER LABORATORY
JULY 16, 1958 (U)

A meeting was held at the Savannah River Laboratory on July 16, 1958 to review the status of the Mark VA pressure bonding program. Those present were:

- | | |
|-------------------------|--------------------|
| W. Lidman, SylCor | D. Baker, SRL |
| K. Geiling, SylCor | R. H. Bouter, SRL |
| H. E. Watts, SylCor | R. S. Wingard, SRL |
| E. C. Stark, SROO | W. N. Posey, SRL |
| M. S. Bloomsburg, Wilm. | B. L. Owens, SRP |
| R. R. Herries, Wilm. | |

Summary

1. SylCor has provided 53 sets of Mark VA elements to Savannah River, 40 of which will be used for two irradiation assemblies. Although evaluation of the pieces is not yet complete, test pieces made under identical conditions have been examined and found to be satisfactory for reactor tests.
2. All inner Mark VA elements are now being welded at SylCor.
3. The Savannah River Laboratory will investigate alternative heat treatments for Mark VA cores to minimize the "bumping" anticipated during irradiation of the initial pieces.
4. The Mark VA irradiation schedule proposed by Savannah River is as follows:
 - a. two assemblies (reactor positions) to be irradiated in August at an intermediate power level;
 - b. two assemblies to be irradiated at a higher power level in the following reactor cycle;

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

- c. four assemblies, including specially heat treated material, for irradiation by the end of the year.

Discussion

Status

At the time of the last meeting the first single canned irradiation specimens (90 sets) had been delivered to the Savannah River Laboratory and inspection and evaluation were in progress. It was subsequently decided that the elements were not acceptable for irradiation. They were, however, used as flow test specimens.

The primary cause for rejection of the pieces was the occurrence of areas of thin aluminum claddings caused by the flow of the end caps into the can wall and ribs during pressing. Other defects of lesser importance were (1) entrapped lubricant in the end closure, (2) areas of depleted nickel, and (3) occasional large grains in the aluminum cladding.

Following evaluation of the specimens selected from the 90 sets of irradiation candidates SylCor discontinued production of pieces for delivery to Savannah River and concentrated upon improving quality. Extensive development and destructive evaluation was carried out at SylCor. Considerable improvement was demonstrated and specimens were again submitted to Savannah River for evaluation. The results showed that the major problems had been solved and that the specimens were satisfactory for reactor use. The process conditions were then frozen and SylCor clad 53 sets of elements; 40 sets, or 2 columns, for irradiation in August; and the remainder for various other tests. The pieces are now being inspected and evaluated at Savannah River. The results to date are very encouraging.

The 53 inner fuel elements were welded at SylCor with a single edge closure at one end. The outer fuel pieces were welded at Savannah River with a single center closure at one end.

Destructive Evaluation

Savannah River reported that the quality of ten sets of elements recently evaluated at Savannah River was satisfactory. Previous problems of thin claddings (end configuration), cladding folds, nickel depletion, and dirt in the closures had been corrected or minimized. Superficial folds in the ribs and large grains in the aluminum cladding were reported as items warranting further attention although they were not considered to be serious. One isolated value of 0.016" was reported for the cladding thickness, the remaining values were above the 0.020" specified.

Several of the SylCor weld specimens were destructively evaluated at Savannah River and found to be of uniformly good quality. Externally the welds were relatively smooth, shiny, and free of porosity. Sectioning

[REDACTED]

of the welds showed a consistent weld throat (minimum distance between aluminum - to - aluminum interface and weld surface) of about 0.025". The weld penetration varied from 0.077" to 0.095".

Process

SylCor reported that the following process changes had been adopted since the previous meeting:

1. The pieces are now cleaned, prior to welding, with hot rather than cold nitric acid to aid in removal of entrapped lubricant at the interface.
2. The cleaned pieces are stored in a vacuum chamber to minimize porosity during welding.
3. In sealing the inner fuel tubes, SylCor now folds the inner can wall over the end cap to meet the outer can wall in a single closure at the outer edge of the piece. This technique minimizes end configuration problems and the extrusion of the end caps into the ribs. The aluminum can walls had previously been folded over the end cap to form a single closure at the center of the end surface.

At about the time the change was made, SylCor was completing modification of its inert arc equipment for use in welding the Mark VA elements. Since changing the location of the interface and "V" groove necessitated development of a new welding technique, SylCor was requested to undertake welding of the inner fuel tubes. The closures with the "V" groove and interface at the edge of the piece resulted in much more uniform welds and increased throat thicknesses than had the center welds.

Although it was not necessary to change the method of closure for the outer fuel tubes, SylCor will investigate a similar change to improve the quality of those welds. When it has been demonstrated that the welds are reproducible and satisfactory, the outer pieces will also be welded at SylCor.

SylCor reported that a process description for hot pressing Mark VA elements would be completed by September 15.

Cost Estimates

SylCor reported that a revised cladding cost estimate would be completed by the week of August 10. Estimates concerning manpower requirements, time cycles, and equipment requirements are being reassessed. A presentation of the revised estimate, in the form of a progress report, is planned for early September.

Future Program

Savannah River's proposed program for the short Mark VA development was discussed in order that SylCor might plan their future work.

[REDACTED]

Two assemblies (40 of the 53 sets of elements now on hand at Savannah River) will be charged into a reactor in late August for irradiation at an intermediate power level. Two additional assemblies will then be required for irradiation at a higher power level, provided the results of the first test are satisfactory. SylCor was therefore asked to provide by September 1, 90 sets of elements for a second irradiation test as well as additional flow tests and destructive evaluation.

The Savannah River Laboratory has predicted that the Mark VA elements currently being prepared for irradiation will be dimensionally stable but will "bump" somewhat more than the standard Al-Si canned material. This prediction is based upon comparisons of the respective heat treatments, Growth Index values, grain sizes, and grain structures for the Mark VA elements and for the recent lots of specially heat treated Mark VIIA SylCor elements.

Four to six assemblies of Mark VA tubes will be irradiated for a third test, probably during December. Savannah River, therefore, plans to begin studies immediately to develop alternative heat treatments to provide a stable structure which will not "bump" excessively during irradiation. SylCor will supply cores for the development as well as for heat treating the pieces to be ultimately canned and irradiated in the third test. The exact scheduling of the work will be dependent upon the length of time necessary to develop the alternative heat treatments at Savannah River.

In line with the above program, SylCor was requested to:

1. provide the necessary elements to carry out the proposed irradiations and associated tests;
2. continue to investigate quality improvements;
3. investigate welding of the outer fuel elements;
4. investigate cost reduction items;
5. continue the engineering cost estimates now in progress.

Next Meeting

The next group meeting was scheduled for September 18 at SylCor.

RRH:apb

C. L. Karl, Area Manager
Fernald Area Office

AUG 4 1958

S. R. Sapiric, Manager
Oak Ridge Operations

**LOAN WITHOUT CHARGE OF UNCANNED NATURAL URANIUM REJECT SLUGS TO
EDUCATIONAL INSTITUTIONS**

SYMBOL: OF:RJM

Reference is made to the telephone conversation between Mr. George V. Packer, Division of Reactor Development Staff Member, and Mr. Roy Anderson, on July 8, 1958, regarding the above subject.

The Atomic Energy Commission established a policy and program of loaning, without charge, nuclear materials to nonprofit educational institutions by approving staff papers AEC 267/28 and AEC 267/42. Allocations for the loaned nuclear material are authorized by AEC Washington.

These materials include reject natural uranium slugs. Until now the reject Savannah River and Hanford canned slugs have been in sufficient supply to provide uranium for the subcritical assemblies being built by universities and colleges for instructional purposes in reactor physics laboratories.

Now, however, there is a need to make use of machined, uncanned reject slugs available at Fernald. For forecast purposes only, we are requesting you to anticipate furnishing machined, uncanned slugs to the following educational institutions:

<u>Institution</u>	<u>Natural Uranium, Kgs.</u>
California Institute of Technology	2500
University of Connecticut	2500
State University of Iowa	2500
Michigan College of Mining and Technology	2500
Occidental College	2500
The University of Rochester	2500
Texas Technological College	2500
Utah State University	2500
Total	20,000

MATERIALS 3-7
FMD

C. L. Karl

- 2 -

AUG 4 1958

It would be desirable for all of the above schools to receive machined, uncanned reject solid Savannah River slugs if enough are available to make up entire 2500-kg. shipments uniformly containing these slugs. Otherwise, shipments may be 2500 kgs. each containing all Type A or all Type B machined, uncanned hollow Savannah River reject slugs.

Attached are copies of memoranda indicating General Manager approval for schools to receive nuclear materials, including those listed above. After we have made arrangements with the respective institutions for the loan of the material, we will notify you to ship through the normal procedures already in effect for furnishing materials to licensees.

Please contact us if you have any questions on this matter.

ORIGINAL SIGNED BY

Dr. A. WENDEL

for S. R. Sapirie

Enclosure:

- 1. GM approval dtd 1/28/58
- 2. GM approval dtd 5/23/58
- 3. GM approval dtd 7/8/58
- 4. Quotation re handling uranium metal

CC: R. G. Armstrong
 G. A. Keller
 H. M. Roth
 W. Kenneth Davis, DND, AEC Wash.

OFFICE ▶	Feed Materials Division	Res. & Devel.	Operations	Manager
SURNAME ▶	PS M 7131 Marlino:mf	Ruch	Corley	n.w. Wendel
DATE ▶	7/30/58	7/31	7/31/58	8/4/58

Form AEC-818 (Rev. 9-53) U. S. GOVERNMENT PRINTING OFFICE 16-62781-4

Routed by

MAIL & DOC ACCTB SECTION

ROUTE SLIP

<i>[Signature]</i>
Deputy Manager
Assistant to Manager - Pub. Ed.

ASST. GEN. COUNSEL
Patent Branch

INSPECTION DIVISION

ASST. MANAGER FOR OPERATIONS

FEED MATERIALS DIVISION
Engineering & Process Devel. Br.
Niagara Falls Branch
Production Planning Branch

PRODUCTION DIVISION
Plant Operations Branch
Nuclear Materials Control Br.

RESEARCH AND DEVELOPMENT DIV.
Biology Branch
Reactor Branch
Research Branch
Research Services Branch

ASST. MGR. FOR CONST. & ENGRG.

AREA CONSTRUCTION DIVISION
Contract Branch
Operations Branch
Area 5 Branch

CONSTRUCTION DIVISION

ENGINEERING DIVISION
Design Coordination Branch
Power and Radio Branch
Reports and Control Branch
Safety Branch

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ASST. MGR. FOR ADMINISTRATION

BUDGET AND REPORTS DIVISION
Analysis Branch
Funds Control Branch
Reports Branch

CONTRACT DIVISION

FINANCE DIVISION
Acct. Payable & Travel Sec.
Government Payroll Sec.
Accounting Branch
General Ledger Section
Audit Branch

ORGANIZATION & PERSONNEL DIV.
Government Personnel Branch
Examination Section
Industrial Personnel Branch
Organization & Methods Branch

SUPPLY DIVISION
Office Management Branch
Building Services Section
Stores Unit
Correspondence Section
Mail & Document Acct. Sec.
Photographic Services Section
Records Officer
Records Service Center Sec.
Teletype Section
Procurement Branch
Purchasing Section
Property Management Branch
Supply Operations Branch
Equipment Section
Materials Operation Section
Traffic & Trans. Section

SECURITY DIVISION
Personnel Security Branch
Physical Security Branch

COMMUNITY AFFAIRS DIVISION
City Management Branch
Commercial Services Branch

FERNALD AREA OFFICE

NEW BRUNSWICK AREA OFFICE

PADUCAH AREA OFFICE

PORTSMOUTH AREA OFFICE

ST. LOUIS AREA OFFICE

PUERTO RICO AREA OFFICE

OAK RIDGE EXTENSIONS
Declassification Branch
Isotopes Extension
Technical Information Service Ext.
Administrative Officer
Production Control Officer
Publishing Branch
Cataloging Branch
Classified Distribution Branch
Printing Branch
Reference Branch

TREASURY DISBURSING OFFICE

GENERAL ACCOUNTING OFFICE

AIR FORCE SPECIAL PROJECTS OFFICE

CONTROLLER REGIONAL AUDIT STAFF

Suggest we prepare memo S.R.S. to Karl ad advise DRD that we have said this approach.

8/17

*1. [Signature]
L. [Signature]
Marlin*



MEMO ROUTE SLIP Form AEC-93 (Rev. May 14, 1947)		See me about this.	For concurrence.	For action.
		Note and return.	For signature.	For information.
TO (Name and unit) <i>Cook, Ridge</i>	INITIALS	REMARKS		
	DATE			
TO (Name and unit)	INITIALS	REMARKS		
	DATE			
TO (Name and unit)	INITIALS	REMARKS		
	DATE			
FROM (Name and unit)	REMARKS			
PHONE NO.	DATE			

USE OTHER SIDE FOR ADDITIONAL REMARKS



Office Memorandum • UNITED STATES GOVERNMENT

TO : J. W. Ruch, Director, Feed Materials Division DATE: August 15, 1958
Oak Ridge

FROM : Paul J. Hagelston, Chief, Reactor Materials Branch
Technical and Production Division, Savannah River

SUBJECT: DINGOT AND INGOT MARK VII-A SHIPPING SCHEDULES

SYMBOL: TM:TBN:ggm

Pursuant to a telecon between Karl and Hagelston on August 13, 1958, concerning schedules of dingot and ingot Mark VII-A slugs, we concur in the agreed upon arrangements made by Caudry, NLO, and Chittenden, du Pont, as follows:

1. SYLCOR will receive material based upon a schedule of one month dingot and two months of ingot.
2. SRP will receive material based upon a monthly schedule of one-third dingot and two-thirds ingot.

This supersedes previous correspondence on the same subject.

CC: C. L. Karl, Area Manager, Fernald

MATERIALS 4-1

Hooker Case File
DOL 48-02985
Env. Prot. Bureau
N.Y.S. Department of Law
New York, New York

FOIA MATERIALS FROM DOE

Roll 121

AUG 2 5 1958

Merril Eisenbud, Manager, New York Operations

S. R. Sapiro, Manager, Oak Ridge Operations

TRANSFER OF BORON METAL PLANT TO NEW YORK OPERATIONS OFFICE

SYMBOL: OF:TPC

In our memorandum to you, dated June 25, 1958, on the above subject, we indicated that we would separately furnish detail as to scope, term and future administration of contracts and various agreements related to the Boron Metal Plant. This information is presented in the enclosed summary.

Copies of all contracts which were transferred to NYOO for administration have been forwarded to you. In the near future we will forward conformed copies of water permits and related correspondence covering the five private users and the Lewiston-Porter School as shown in the enclosed summary. A blank water permit form is enclosed for interim information. Agreements with the three agency - contractor users of water are covered in minutes of periodic meetings of agency - contractor representatives held at the Niagara Falls site. These minutes are included in the files which have been transferred to NYOO.

If there are any questions, please let us know.

ORIGINAL SIGNED BY

S. R. Sapiro
S. R. Sapiro

Enclosures:

1. Summary of Contracts (2)
2. Water Permit (1)

CC: R. C. Armstrong
L. D. MacKay, ORD Finance Div., w/Summary
J. R. Moore, ORD Contract Div., w/Summary
J. W. Ould, Jr., Ass't. Gen. Counsel, w/Summary

RECEIVED

AUG 25 1958

U.S. DEPARTMENT OF ENERGY

Hooker Case File
Env. Prot. Bureau
N.Y.S. Department of Law
New York, New York

2
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9
1

SUMMARY OF CONTRACTS
AND AGREEMENTS RELATED
TO THE BORON METAL PLANT

Name	Term	Scope	Remarks
Keller,	7/1/58 - 6/30/59 with option for renewal 7/1/59 - 6/30/60 exer- cisable upon written notice 30 days prior to 6/30/59	Furnishing of water	To be terminated or transferred to the Air Force when Sewage Disposal Plant transfer is approved. Air Force will then supply water covering requirements of the AEC, other Government agencies and private users. Air Force will also assume administration of water agreements with agency and private users.
Robbons, Manager	1/1/58 - 12/31/58	Sidetrack agree- ment wherein NYC RR agrees to con- nect its sidetrack to Government's and operate its loco- motives on both tracks in trans- portation of goods to and from Boron Metal Plant.	To be terminated upon ap- proval to transfer to Air Force the Sewage Disposal Plant and various utilities including railroad side- track. The Air Force will then enter a sidetrack agreement with the N. Y. Central R. R.

Hooker Case File
02985 Env. Prot. Bureau
N.Y.S. Department of Law
New York, New York

ROLL 121



SUMMARY OF CONTRACTS
AND AGREEMENTS RELATED
TO THE BORON METAL PLANT

<u>Contract No.</u>	<u>Contractor</u>	<u>Address</u>	<u>Attention Of</u>	<u>Ter</u>
<u>A. Contracts Transferred to NYO</u>				
AT-(30-1)- 1035	City of Niagara Falls, New York	The City Council Niagara Falls, New York	Calvin L. Keller, Mayor	7/1/58 - 6/ with option renewal 7/1 6/30/60 ex- cisable upo written not 30 days pri to 6/30/59
AT-(30-1)- 805	The New York Central R. R. Company	466 Lexington Ave. New York 17, N. Y.	E. J. Gibbons, Gen'l Manager	1/1/58 - 12

Exhibit 1

Hooker Case File
Env. Prot. Bureau
N.Y.S. Department of Law
New York, New York

Contract No.	Contractor	Address	Attention Of
AT-(30-1)- 525	Niagara Mohawk Power Corp.	3rd St. and Ferry Ave., Niagara Falls, New York	
AT-(40-1)- 2421	Olin Mathieson Chem. Corporation	P. O. Box 438, Niagara Falls, New York	John H. Heck Manager, Con- tract Negotia- tions
AT-(40-1)- 1996	Tenn. Gas Trans- mission Company	P. O. Box 1031 Syracuse, N.Y.	P. Mills, Attorney
AT-(40-1)- 2427	African Metals Corp.	25 Broad St., New York 4, N.Y.	Charles S. Cressy, Secretary.

Hooker Case File
 Env. Prot. Bureau
 N.Y.S. Department of Law
 New York, New York

- 2 -

Attention Of	Term	Scope	Remarks
	Indefinite	Furnishing of electric power	Not affected by Air Force transfer (above). To be retained by NYCO for administration. During Hooker Plant operation, ORO arranged that Hooker pay monthly invoices. NYCO may wish to make similar arrangement with respect to Olin-Mathieson.
John H. Heck Manager, Contract Negotiations	6/30/59	Furnish services for maintenance of Plant in standby.	
P. Mills, Attorney	50 year easement from 4/26/55	Easement to TGCT to run pipelines under Government-owned property.	
Charles S. Cresay, Secretary.	25 year lease from 7/1/58	Storage arrangement for radium bearing sludges and residues lessee.	

U
S
D
O



Contract No.	Contractor	Address	Attention Of
<u>B. Water Agreements Transferred to NYO</u>			
Water Permit	Howard H. Heaton	Fletcher Road Youngstown, N.Y.	I
	Edward R. Garrow	Harold Road Youngstown, N.Y.	
	Irving J. Grass	1314 Norwood Ave. Niagara Falls, N.Y.	
	Irvin Fletcher	Fletcher Road Youngstown, N.Y.	
	Taylor E. Powell	Fletcher Road Youngstown, N.Y.	
	Lewiston-Porter School	Creek Road Youngstown, N.Y.	
	Post Engineer U.S. Army AA Group (NIKE)	Fort Niagara Youngstown, N.Y.	
	Bell Aircraft Corp.	P. O. Box 1 Buffalo 5, N.Y.	
	Olin Mathieson Chem. Corporation	P. O. Box 480 Niagara Falls, N.Y.	

<u>Contract No.</u>	<u>Contractor</u>	<u>Address</u>	<u>Attention Of</u>
---------------------	-------------------	----------------	---------------------

C. Contracts Retained by ORO

TS-71881	New York Telephone Company		
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) AT-(30-1)-1524	Hooker Electrochemical Co. (Now, Hooker Chem. Corp.)	Niagara Falls, N.Y.	T. E. Moffitt, President
------------------	---------------------------------------------------------	---------------------	-----------------------------

DOL 0802365

- 4 -

Attention Of	Term	Scope	Remarks
	Indefinite	Furnish telephone ser- vices	ORO will close out and make final payment
T. E. Moffitt, President	7/1/53 - 6/30/58	Operation of Boron Metal Plant and maintenance of storage facilities	ORO will close out and make final payment.



Office Memorandum • UNITED STATES GOVERNMENT

TO : Merrill Eisenbaur, Manager
New York Operations Office

DATE:

FROM : W. Kenneth Davis, Director
Division of Reactor Development

SUBJECT: AUTHORIZATION FOR WITHDRAWAL OF NUCLEAR MATERIALS -
2ND QUARTER FY 1958

SYMBOL: RD:ADM:DPK

Attention: S. J. Braiden

To simplify the ordering of and accounting for nuclear materials in the Reactor Development Program, quantities of material required for various projects will be consolidated and authorized under the Reactor Development Program Number 4000. Occasionally, it may be desirable for special control purposes to authorize withdrawals for a specific project, in which case a special allotment number in the 4000 series will be assigned by this office. Forecasts will be required by individual projects.

You are therefore authorized to withdraw during the second quarter fiscal year 1958 under Quota No. 4000 the following quantities of materials:

Normal Uranium - 1,117.2 kilograms (total U.)
U-233 - 1.00 kilogram

The specific projects and their requirements which form the basis for the above authorization are:

Quota No.	Description	Quantities (kg)	
Normal U.			
4000.3	FED - Investigation of UO ₂ Types	11.3	BNL
4000.4	FED - RD Ceramics and Fuel Elements	4.5	"
4000.5	FED - Hydrostatic Pressing & Cladding	5.4	"
4000.6	Reactor Development Work ("The Magic Structures in Uranium")	* 1,390.0	NULL
4100	Liquid Metal Fuel Reactor Experiment	6.0	BNL
U-233			
4000.0	Liquid Metal Fuel Reactor	1.00	BNL

(continued)

* This is an approval to transfer from SRM inventory to MIO inventory.

RECEIVED
GENERAL INVESTIGATIVE DIVISION
APR 22 1958

Frank Malone said

Burning of KAPL Waste

Date	Boxes	Number of Fires
2/26/58	39	1
2/27	10	1
2/28	12	1
3/11	29	1
3/20	2	1
4/11	27	1
4/21	38	1
6/26	3	1

Film badges are being mailed today to Tom Carberry

Partial of KAPL Waste Pack Low Boxes

Roll 120

Hooker Case File
 Env. Prot. Bureau
 N.Y.S. Department of Law
 New York, New York

Contract No. AT-(30-1)-1524
 Hooker Chemical Corporation
 Modification No. 16

SUPPLEMENTAL AGREEMENT

THIS SUPPLEMENTAL AGREEMENT, entered into this 2nd day of December, 1958, by and between the UNITED STATES OF AMERICA (hereinafter referred to as the "Government"), represented herein by the UNITED STATES ATOMIC ENERGY COMMISSION (hereinafter referred to as the "Commission"), and HOOKER ELECTROCHEMICAL COMPANY (hereinafter referred to as the "Contractor"), a corporation organized and existing under the laws of the State of New York, with its principal office in Niagara Falls, New York;

WITNESSETH THAT:

WHEREAS, the Government and the Contractor entered into Contract No. AT-(30-1)-1524, dated July 1, 1953, for the performance by the Contractor of certain work and services as therein more particularly described, which contract has been amended heretofore by Modifications Nos. 1 through 15; and

WHEREAS, by authority of a resolution adopted at a meeting of stockholders of Hooker Electrochemical Company held on May 28, 1958, the name of the Contractor was changed to Hooker Chemical Corporation, effective May 29, 1958; and

WHEREAS, the parties, in accordance with Paragraph 2 (w) of ARTICLE II - FISCAL PROVISIONS, have negotiated a settlement of the overhead allowances provided for in subparagraphs 2 (w) (i) through (vi) to conform to the actual overhead costs for the period December 1, 1957, through June 30, 1958; and

WHEREAS, the parties are desirous of amending the contract further in order to set forth the agreement reached and to have the contract appropriately reflect the aforesaid change in name; and

WHEREAS, the Commission certifies that this Supplemental Agreement is authorized by and executed under the Atomic Energy Act of 1954, in the interest of the common defense and security;

NOW, THEREFORE, the parties agree that Contract No. AT-(30-1)-1524 is hereby further modified in the following respects, but in no others:

1. Effective May 29, 1958, the name of the Contractor is changed from Hooker Electrochemical Company to Hooker Chemical Corporation, and thereafter, the term "Contractor" wherever found in the contract shall be deemed to refer to Hooker Chemical Corporation.

2. In accordance with the provisions of Paragraph 2 (w) of Article II, firm lump-sum allowances for actual overhead costs covering subparagraphs (i) through (vi) for the period hereinafter stated shall be as follows:

<u>Period</u>	<u>Provisional Amount Paid</u>	<u>Agreed Lump-Sum Amount</u>	<u>Due AEC from Hooker to Adjust Overpayment</u>
12/1/57 - 6/30/58	\$61,148.47	\$58,342.28	\$2,806.19

IN WITNESS WHEREOF, the parties hereto have executed this Supplemental Agreement the day and year first above written.

UNITED STATES OF AMERICA

BY: UNITED STATES ATOMIC ENERGY COMMISSION

BY: John R. Moore
John R. Moore
Director, Contract Division, C30
(Contracting Officer)

WITNESSES:

Mary Lou Ciccia
6573 Pine Avenue
Queens, N.Y.
(Address)

HOOKER CHEMICAL CORPORATION

BY: T. E. Moffitt
T. E. Moffitt

TITLE: President

Alvin Chambers, Jr.
1314 Ave. of the Americas, N.Y.
(Address)

Hooker Case File
 Env. Prot. Bureau
 N.Y.S. Department of Law
 New York, New York

OLIN MATHIESON CHEMICAL CORPORATION

~~RESEARCH AND DEVELOPMENT DIVISION~~

P. O. Box 480

NIAGARA FALLS, NEW YORK

RESEARCH and DEVELOPMENT DIVISION

December 15, 1953.

Contract No. AT-(40-1)-2421

Mr. Leo Graup, Authorized Representative,
 U. S. Atomic Energy Commission,
 New York Operations Office,
 70 Columbus Ave.,
 New York 23, New York.

Dear Sir:-

Reference is made to list of buildings located at the U. S. AEC BC70N-10 Plant. This list was submitted by Mr. Frank Malone and, after making a survey of the locations, we are attaching a list showing the present status as we find it. The following breakdown is submitted:

A total of 66 buildings, of which 24 require maintenance; 22 that do not require maintenance; 4 assigned to the African Metals Corporation; 3 being used by Olin Mathieson Chemical Corporation on a temporary "Usage Permit"; 1 assigned to the Air Force as a Radar Station and 12 assigned to Olin Mathieson Chemical Corporation in the North Plant area.

Regarding the 12 buildings in the North Plant area under the supervision of Olin Mathieson Chemical Corporation; the 1 assigned to the Air Force as a Radar Station, and the 4 assigned to the African Metals Corporation, please advise if these buildings are transferred to these users, if not, what is their status at the present time?

Very truly yours,

L. P. Clarke
 L. P. Clarke, Supervising Representative

U. S. AEC BC70N-10 PLANT

Approved by *V.R. Bonnette*
 Plant Engineer.

LPC:aw.

cc: V.R. Bonnette

AM

Hooker Case File
 Env. Prot. Bureau
 N.Y.S. Department of Law
 New York, New York

Contract No. AT-(40-1)-2121

December 12, 1958.

LIST OF BUILDINGS LOCATED AT U.S. AEC BORO-10 PLANT

<u>Building Number</u>	<u>Description</u>	<u>Present Status</u>
401	Production & Main Office	Maintenance required
402	Hospital	" "
403	Development Lab. and Fire Hall	" "
404	Monomer Plant	" "
405	Cell Room and Storage	" "
406	Carpenter and Paint Shop	" "
407	Mason Shop	" "
408	Water Cooling Tower	" "
409	Fire Storage reservoir	" "
410	Filter Building - 2 story	" "
411	Water Cooling Reservoir	African Metals
412	South Accelerator	Maintenance not required
413	West Accelerator	African Metals
414	North Accelerator	" "
415	Surge Chamber	Maintenance required
416	Main Guard and Clock House	" "
417	Executive Garage	" "
418	Telephone Building	Air Force Radar <i>12</i>
419	Incinerator	Maintenance required
420	Storage Building	Temporary "Usage Permit" O.M.C.C.
421	Storage Building	Maintenance required

15
 9
 21

Hooker Case File
 Env. Prot. Bureau
 N.Y.S. Department of Law
 New York, New York

Contract No. AT-(40-1)-2421

-2-

December 12, 1958.

LIST OF BUILDINGS LOCATED AT U.S. AEC BOSTON-10 PLANT

<u>Building Number</u>	<u>Description</u>	<u>Present Status</u>
422	Equipment Shed	Maintenance required
423	Vehicle Garage & Repair Shop	" "
424	Vehicle Garage Change House	Maintenance not required
425	Safety Equipment Shop	Maintenance required
426	Old A.E.C. Office	" "
427	Storage Building	" "
428	Storage Building	Temporary "Usage Permit" O.M.C.C.
429	New A.E.C. Office	Maintenance required
430	Storage Building	Temporary "Usage Permit" O.M.C.C.
431	#1 Vault - South	Maintenance not required
432	#2 Vault - North	" " "
433	Radium Vault	" " "
434	L-65 Tower and Thaw House	African Metals Corporation
435	Sewerage Pump House	O. M. C. C. North Plant
436	Inhoff Tank	O. M. C. C. " "
437	Sludge Bed - South	O. M. C. C. " "
438	Sludge Bed - North	O. M. C. C. " "
439	Acid mixing tank	O. M. C. C. " "
440	Venturi Vault	O. M. C. C. " "
441	Chlorine Tank	O. M. C. C. " "
442	Acid Building	O. M. C. C. " "
443	Welding Shop - Baker Smith	Maintenance not required
444	Storage - Baker Smith	" " "

Tail
10

Hooker Case File
Env. Prot. Bureau
N.Y.S. Department of Law
New York, New York

FOIA MATERIALS FROM DOE

Roll 121

Contract No. AT-(40-1)-2421

-3-

December 12, 1958

LIST OF BUILDINGS LOCATED AT U. S. AEC BORM-10 PLANT

<u>Building Number</u>	<u>Description</u>	<u>Present Status</u>
445	Pipe Shop - Baker Smith	Maintenance not required
446	Lord Electric Building	C. M. C. C. North Plant
447	Tool House - Baker Smith	C. M. C. C. North Plant
448	Store House - Baker Smith	C. M. C. C. North Plant
449	Sallite Process Building	Maintenance not required
450	Nitric Acid Concentration building	• • •
451	Change House	• • •
452	Storage Building	• • •
453	Ammonia Sphere	• • •
454	Acid Area Shop	• • •
455	Warehouse	• • •
456	Change House	• • •
457	Change House	• • •
458	Change House	• • •
459	Storage Building	• • •
460	Locomotive Shed	• • •
461	Change House	• • •
462	Service House	• • •
463	Cutfall Sewer Building	C. M. C. C. North Plant
464	Water Meter Pit Building Stella Niagara	Maintenance required
465	Power Sub-station building Stella Niagara	• • •
466	Chlorine Building Creek & Pletcher Rd.	• • •

RECEIVED

DEC 15 1958

NEW YORK OBSERVATORY

61958

**P. 2. Koenig, 1952b, *Shipment of Long Billets to Lake Ontario Storage Area*,
Correspondence to Geraldine Hughes; James Koenig; February 11, 1952**

~~RESTRICTED~~
~~SECURITY INFORMATION~~
Office Memorandum • UNITED STATES GOVERNMENT

TO : Geraldine F. Hughes, Secretary to Chief
Tonawanda Sub-Office
FROM : James J. Koenig, Chief, Operations Branch
St. Louis Area
SUBJECT: SHIPMENT OF LONG BILLETS TO LAKE ONTARIO STORAGE AREA
SYMBOL: 252:12

DATE: February 11, 1952

Fifteen boxes containing 75 long billets were shipped from Kansas City, Missouri, to the Lake Ontario Storage Area on February 6, 1952.

This shipment was made in Soo Line Car No. 176108 on government bill of lading 6857.

CLASSIFICATION CANCELLED
OR CHANGED TO
BY AUTHORITY OF *00C*
BY *KW* DATE *9/4/80*
sed Daws
9/11/80

~~RESTRICTED~~
~~SECURITY INFORMATION~~
This information affecting
the national defense of the
United States within the
meaning of the espionage laws
and the transmission or
the revelation of its contents
in any manner to an un-

CLASSIFICATION CANCELLED
OR CHANGED TO
BY AUTHORITY OF *00C*
BY *KW* DATE *9/4/80*
sed Daws
9/11/80

~~RESTRICTED~~
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This information affecting
the national defense of the
United States within the
meaning of the espionage laws
and the transmission or
the revelation of its contents
in any manner to an un-

~~RESTRICTED~~
~~SECURITY INFORMATION~~

61958

**Smith, 1958, *Weekly Progress Report for February 7, 1958*; R. J. Smith;
February 11, 1958, p. 3**

~~CONFIDENTIAL~~

SECURITY INFORMATION

R. J. Smith, Jr., Chief, Operations Branch,
Production Division, NYOO
F. W. Malone, Chief, Tonawanda Sub-Office

February 11, 1952

WEEKLY PROGRESS REPORT FEBRUARY 7, 1952

SYMBOL: TA:GH

AIR MAIL

SPECIAL DELIVERY

SPECIAL REREVIEW
FINAL DETERMINATION
UNCLASSIFIED

By: P. F. Brown
Date: 4-3-84

II. OPERATIONS:

a. Uranium:

K-65 dumping operations were resumed February 11 upon receipt last week of verbal approval of Mr. A. Levine. 100 drums dumped this week.

Approximately ten tons of rods from the last Bethlehem rolling were cut to specified size and shipped to Bendix Aviation Corp. Kansas City.

Thirty samples accumulated according to specifications during the cutting of the rods for Bendix were shipped to Argonne National Lab. via Railway Express Co. Feb. 11.

Forty pounds of uranium rolled rod were shipped to Bob Hobart at Du Pont, Wilmington, via Air Express February 5 at the request of J. Simon.

Fifty-one billets were shipped via Kreuger Trucking Co. to Allegheny-Ludlum Corp. at Watervliet, N.Y. for use in the February experimental program.

Four truckloads of rods billets and scrap were received and unloaded at LOOW as a result of the rolling at Watervliet.

One wafer from Billet #2596 was cut and shipped to L. King at Birdshoro upon request of J. Simon.

Twenty tons of scrap uranium metal accumulated from Simonds monthly rollings will be shipped to Fernald Area on February 12 in two truckloads.

Approximately ten tons of wet and dry oxide accumulated from Simonds three most recent rollings will be shipped to Vitro Mfg. Co. at Cannonsburg Pa. by truck February 13.

At request of J. Cook, NYOO Transportation Representative, an emergency shipment of five drums of potassium carbonate were delivered by LOOW truck from Niagara Alkali Co. of Niagara Falls, NY to Allegheny Ludlum Co. at Watervliet, NY for their recent experimental rolling.

OFFICE ▶					
SURNAME ▶					
DATE ▶					

F. J. Epp, Director, Admin. Div., Fernald Area,
Cincinnati, Ohio
F. V. Malone, Chief, Tonawanda Sub Office

February 19, 1952

DISMANTLING OF BUILDINGS IN ACID AREA AT LOOW BY FRANK PIEKARSKI

SUBJECT: TA:CH;amd

The George A. Fuller Company subcontracted the work of dismantling six buildings in the Acid Area at LOOW to Frank Piekarski, 70 Skillen St., Buffalo, N. Y. These buildings were identified by the numbers 8021, 2, 3, 4, 5 and 6 and were known as Bi and Tri Nitrating Houses. The purpose of this action was to salvage the structural steel for use at Fernald Area. Although this office had no participation in this contract except to issue bills of lading covering shipments of the steel made to Fernald, some methods used by the contractor during the dismantling process were observed and are described herein for your information.

The workmen burned off the bolts anchoring the upright columns to the concrete bases. Cables were attached to the top section of the framework and to a bulldozer and power shovel. The following day it was noticed that the building had been pulled or pushed over and the steel was being cut with acetylene torches into various lengths. While observing the loading of steel into gondola cars, it was noted that some of it appeared badly twisted, particularly the longer lengths. Also some pieces of planking were still attached to the steel.

During the performance of this work, two fires occurred. The first fire resulted from smoldering sparks from acetylene torches and was discovered Saturday evening, December 29, at 9 o'clock. The Youngstown Fire Dept. was summoned by the guard on duty and the fire quickly extinguished. No damage resulted as the fire had not reached the steel.

The second fire also resulted from smoldering sparks from acetylene torches and occurred on Saturday afternoon, Jan. 5, 1952. Since LOOW employees were present, project fire-fighting facilities were used and the fire was extinguished in one and one-half hours. This fire was discovered about 3 o'clock in the afternoon and since the contractor had not been at the site that day, it is assumed the fire had been smoldering since about 5 o'clock the previous day when the workmen departed. One-half of the front wall of the building and one-half of the east side wall of the building were burned. Although the steel column in that corner of the building was burned, no apparent damage was observed and the fire was not considered hot enough to seriously effect it. Mr. Behrens of Fuller was informed of this incident immediately. He advised this office that the steel would be inspected upon receipt and a determination as to useability made at that time.

OFFICE ▶							
SURNAME ▶							
DATE ▶							

ROAD
LUTTS
2291
ST
MIL
ST

F. J. Epp

February 19, 1952

F. W. Malone

DISMANTLING OF BUILDINGS IN ACID AREA AT LOOW BY FRANK PIEKARSKI

SYMBOL: RA:GH:amd

After the second fire special checks were instituted on these buildings by LOOW guards during "after working hour" patrols, and fire extinguishers were made available to the contractor. Mr. Piekarski visited this office on the following Monday and informed us that all the buildings would be down before his crew departed that day, thereby eliminating any further danger of fire.

OFFICE ▶					
SURNAME ▶					
DATE ▶					

322-68-588

2,6

Box #67

FOLDER: MATERIALS 13

4107 1953

FEBRUARY 26 1953

NY 17
OH. 48

AM:HB:ab

National Industrial Reserve Division
Public Buildings Service
General Services Administration
Washington 25, D. C.

MATERIALS 13
✓ 040 95A

Attention: Mr. C. D. Williams, Director

Dear Sir:

4543

We refer to your letter dated February 12, 1953, reference "PHPP" concerning the use of slightly contaminated ferrous metal scrap in the control of Chlorine fumes at your Magnesium metal plant at Painesville, Ohio.

The Atomic Energy Commission again welcomes the opportunity to be of assistance in this program and is willing to release additional material on the same terms as heretofore. We are particularly pleased to know that you are now equipped to handle metals in thicknesses of more than one-quarter inch and not to exceed three-quarter inch. We believe that we can furnish you with approximately eight hundred tons of this metal.

As soon as we are informed that the Diamond Magnesium Company has awarded a contract to a qualified contractor for the loading of the scrap into railroad cars, we will arrange for the prompt release of this scrap.

Please advise us if we can be of further assistance in this program.

Very truly yours,

cc: H. Blatz - Health & Safety
H. Hershman - Chief,
Tonawanda Sub-Off.
P. Neuman - Finance
F. Belmore - Production

J. S. Quidor, Director,
Administrative Operations Division

OFFICE ▶	Prop. Br.	Prop. Br.	Adm. Oper.			
SURNAME ▶	Baum	Carney	Quidor			
DATE ▶	2/25/53	2/25/53				

~~CONFIDENTIAL~~

MARCH 7 1952

Frank Malone, Lake Ontario Storage Area,
Kenmore, New York

R. J. Smith, Jr., Chief, Miscellaneous Operations
Area, Production Division, HYCO

SOLID SCRAP FROM LEAD BATH ROLLED URANIUM FOR RECASTING
AT HANFORD

SYABCL: FB:HJH:jd

L.O.O.W.

This will confirm a telephone conversation of March 5, 1952 between
Miss J. Hughes and Mr. H. J. Hershman of this office.

Please ship on or before March 15, 1952, one carload of 40 tons of
solid scrap from lead bath rolled uranium metal to G.E. at Hanford,
Attention: Mr. D. E. Kilgore, for recasting into ingot. You may
include in this shipment the Joslyn and Knolls scrap metal. As in
the case of the last shipment you made to Hanford, scrap pieces do
not require shortening.

Please identify the shipment as recastable scrap and notify both
Hanford and this office as soon as the material has been shipped
together with a complete breakdown for the material.

cc: D. Sturges, Attn: I. Lind, Hanford
R. J. Smith, Jr., Prod. Div., HYCO
H. J. Hershman, " " "
MAR ✓

Special Rereview
Final Determination
Unclassified

By: K. A. Walter
Date: Aug. 8, 1980
T. F. Davis

CLASSIFICATION CANCELLED
OR CHANGED TO
BY AUTHORITY OF DOC 1/72
BY RAW DATE 1978

~~CONFIDENTIAL~~

~~CONFIDENTIAL~~

~~SECURITY INFORMATION~~

750

OFFICE →	H. J. Hershman	Staff Tech'l	Misc. Oper.			
SUBRANE →	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>			
DATE →	3-5-52	3/5/52	3/6			

NY 17

NATIONAL LEAD COMPANY
OF OHIO

P. O. BOX 158
MT. HEALTHY STATION
CINCINNATI 31, OHIO

326-62-A588
Box # 69
FALCON #3: Feed Materials
Production Center
March 10, 1952

SUBJECT **MODEL CITY AS A STORAGE FOR FEED MATERIALS**
TO **J. F. Chandler, Area Manager A.E.C. - Fernald**
FROM **G. W. Wunder, Plant Manager**
REFERENCE **Meeting held at N.Y.O.O. January 17, 1952 on Rolling and Machining**

At the above meeting Joe Cook, A.E.C. and C. William Mossberg, N.L.O., presented Flow Charts of material. Lake Ontario District was selected as a central storage and shipping point. It was pointed out that Lake Ontario had sufficient personnel to receive and ship the material, but that N.L.O. would accept full responsibility for the material. Howard Zeitz, N.L.O., has been assigned to the above mentioned duty.

To effectuate complete assurance of ingots, billets, rods, lithium carbonate and potassium carbonate being at the right place at the right time, we would appreciate your confirming the use of Lake Ontario Ordnance Works, Model City. This should be coordinated both with the authorities at Lake Ontario and N.Y.O.O. to prevent materials from being re-routed in transit or arriving at rolling locations too far in advance.

Request that instructions be issued to all concerned that this company has full responsibility and authority in designating material to be received and shipped from Model City. All shipments of uranium metal and turnings and allied S.F. materials and scrap from Model City should be made only with the authority of Dr. Clyde H. Walden, Accountability Representative, N.L.O.

Yours truly
Original Signed By
G. W. WUNDER
Plant Manager
G. W. Wunder
Plant Manager

GWW/ah

cc: D. J. Blythe
J. F. Chandler 1x
S. Gustavson N.Y.O.O.
Dr. P. Morgan N.Y.O.O.
C. W. Mossberg
R. D. Smith N.Y.O.O.
C. H. Walden
H. F. Warn

3.1
2.23.17

STANDARD FORM NO. 64

Office Memorandum • UNITED STATES GOVERNMENT

TO : W. E. Kelley, Manager
New York Operations Office

FROM : W. J. Williams
Deputy General Manager, Washington

DATE: MAR 10 1952

SUBJECT: DISPOSAL OF EXCESS LAND TOGETHER WITH IMPROVEMENTS - LAKE ONTARIO
ORDNANCE WORKS, NIAGARA COUNTY, NEW YORK

SYMBOL: CSSB:JRM

PLANTS, LABS., BUILDINGS & LAND - 5 (LOOK)

Reference is made to your letter of January 11, 1952, together with enclosures, relating to the above subject.

You are authorized to have the New York office of the Corps of Engineers report to the General Services Administration the land described in enclosures 1 and 2 to your letter of January 11, 1952, together with the improvements described in your letter, as excess to the requirements of the AEC.

Regarding the use of the land by the Eastern Army Anti-Aircraft Command, there is no objection, subject to your approval, to authorizing such use on a temporary basis pending the formal declaration of excess to the General Services Administration. It is considered advisable, however, to coordinate such action with the General Services Administration in order to provide for continued use by the Army after the property has been formally reported excess.

OFFICIAL USE ONLY
RETURN TO MAIL AND RECORDS

U-633

A3

3.7

PLANTS, LABS., BUILDINGS & LAND 5-2000

F. M. Belmore, Director, Production Division
(THRU) H.B.Fry, Deputy Manager

March 12, 1952

J.S.Quidor, Director, Administrative Operations Division

USE OF SEWAGE DISPOSAL FACILITIES AT LAKE ONTARIO STORAGE AREA

SYMBOL: AO:BW:bd

Reference is made to the attached letter from the Bell Aircraft Corporation, dated February 25, 1952, wherein they request permission to consider utilizing our sewage disposal plant at Lake Ontario Storage Area, rather than construct an additional plant.

It is our understanding that the operation of this disposal plant is automatically controlled and costs to date have been negligible.

If you agree to permit Bell Aircraft to make this study, they ^{will} ~~should~~ be advised that their use will be contingent upon the following: they will bear all costs, comply with our security requirements; and the Atomic Energy Commission will continue to use the disposal plant without any cost.

Please advise me whether Bell Aircraft's request should be granted.

Attachment:
Cy ltr dtd 2/25/52 frm
Bell Aircraft Corp.

OFFICE →	Off Mgt Br	Adm Operations Div.			
SUPPL →	<i>W. Quidor</i>	<i>W. Quidor</i>			

Roll 122

SECURITY INFORMATION

CONFIDENTIAL

R. J. Smith, Jr., Chief, Operations Branch,
Production Division, NYO
F. W. Malone, Chief, Non-roads sub-Office

March 18, 1952

WEEKLY PROGRESS REPORT MARCH 13-15, 1952

SYMBOL: TA:GH

1000
OPERATIONS & MANAGEMENT 8-1

II. OPERATIONS:

Production Division:

1. Uranium:

40 tons of uranium metal scrap shipped to H&L.

Two carloads of material consigned to Sitmonds Law & Steel Company diverted to LOO# due to Railroad Strike.

Approximately 55 pounds of Argonne samples exported to Dr. D. D. Langmuir at Chalk River.

45 tons of billets received from Allegheny for storage were shipped to Bethlehem for experimental rolling on March 13. Rolling will be performed March 15.

Five rods from January Bethlehem rolling were shipped to Bethlehem for further rolling during operations on March 15.

One box of contaminated scrap received from AM&F weighing 1239.5 pounds net.

One box of depleted oxide samples received from NYD weighing 15 pounds gross.

Special Review
Final Determination
Unclassified

By: K. A. Walter
Date: Aug. 8, 1980
T. F. Davis

PRODUCTION:

One carload of solid uranium scrap including scrap rods received from Joclyn which had been stored at LOO# about one and a half years, as well as approximately sixty boxes of miscellaneous scrap received from KAPL in May 1951, were shipped to Hanford on March 12.

All billets received from Saterviet on March 9 were unloaded, inventoried, and weighed in the presence of Mr. Howard Weitz, an NLO representative.

Mr. Mosberg, NLO Purchasing and Transportation Agent, advised LOO# that all material scheduled for Bethlehem operation on March 15 was to be delivered by 7:30 A.M. on Friday, March 14. Since this would involve extra transportation expense, he suggested that LOO# contact Bethlehem and attempt to arrange a later delivery deadline, if it would not inconvenience Bethlehem.

CLASSIFICATION CANCELLED

OR CHANGED TO
BY AUTHORITY OF *DAW* 1/7/80
BY *DAW* DATE 12/23

U T 4

R. J. Smith, Jr.

-2-

March 15, 1980

F. J. Malone

URGENT MARCH 15, 1980

TO: SAC, BETHLEHEM

Mr. Henderson was contacted at Bethlehem and he advised that his reason for requesting an early delivery was to give the Bethlehem employees sufficient time to handle the material. However he informed LOO# that noon on the 14th would be a satisfactory delivery deadline and would provide sufficient handling time at Bethlehem. These arrangements were completed on Wednesday, March 13, and Mr. Moschere advised of the course.

On Thursday, March 14, Mr. Moschere contacted LOO# and advised that due to complications at Bethlehem, Mr. Henderson had reversed his decision on the delivery deadline, and had requested that all material be delivered at 7:00 A. M. on March 15. Since this information was received at LOO# on Thursday afternoon, and since Kreuzer Trucking Company could not furnish trucks until 7:00 P. M. on Thursday, it was necessary for LOO# personnel to remain on duty until trucks were loaded and dispatched.

Mr. J. Marinucci, NYO Security Division, advised that it would be necessary to have an LOO# guard accompany the shipment from LOO# to Bethlehem and remain with it during the over-night period that it was stored in the warehouse of the Kreuzer Trucking Company.

LOO# personnel worked a total of thirty-five hours overtime as a result of the above action.

Rods numbered 2453, 2579, 2349, 2664, and 2663 weighing a total of 2462 pounds which were heat treated at Bethlehem during the January rolling, were shipped to Bethlehem for further rolling during the March 15 operation, at the direction of Mr. Ray Stewart OMLC. These rods have been in storage at LOO# since the January rolling at Bethlehem. These rods were not listed on the record of material received with the January shipment, and no previous shipping instructions were ever received regarding them.

Two carloads of material from Mallinckrodt assigned to diamonds shipped from St. Louis on March 4, were diverted to LOO# and received and unloaded at LOO#, March 12. This diversion was arranged to prevent a delay in delivery of the material as a result of the continuation of the strike. It was intended to store the material until required at diamonds and deliver it by LOO# truck.

Special Review
Final Determination
Unclassified

By: R. A. V. [Signature]
Date: [Date]

DO NOT WRITE IN THESE SPACES

U T 4

Hooker Case File
Env. Prot. Bureau
N.Y.S. Department of Law
New York, New York

FOIA MATERIALS FROM DOE

BOLL 122

U T 4 2

R. J. Smith, Jr.

March 15, 1952

F. W. Malone

WEEKLY PROGRESS REPORT MARCH 10-15, 1952

SUBJECT: URANIUM

However, since the receipt of this material, it has been ascertained that 248 units were shipped to Simonds from St. Louis and approximately 90 units were shipped from Hanford. Since this amount is in excess of what can be handled at Simonds during the allotted time, LOOW will retain the material received in storage until a future operation.

Twenty-three kilograms of uranium red samples were received from Argonne National Laboratory via Air Express and exported to Dr. W. B. Langmuir at Chalk River via Air Express. Dr. Langmuir advised that it was imperative that samples reached Chalk River prior to Friday, or scheduled tests could not be performed. Special expediting of the shipment was arranged with U. S. Customs and Airlines in Buffalo and assurance was received that the material would be delivered Wednesday evening in Ottawa where it could be held for pick-up by a Chalk River representative. Dr. Langmuir advised on Thursday that the shipment was received as scheduled.

Approval has been granted to The Linde Air Products Company to use Step III building for their own purposes, and arrangements have been completed to remove all Government property not installed and store same in an unused building at LOOW. Linde will retain custody of this material and equipment.

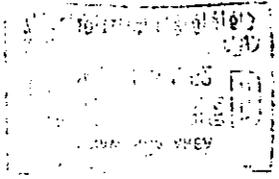
The next Simonds operations will begin on March 20.

Mr. Fred Belmore, Directory Production Division, NYO, visited LOOW for a routine inspection on March 14.

CC: F. W. Malone

Special Review
Final Determination
Unclassified

By: K. A. Walter
Date: Aug. 5, 1980
T. F. Davis



Small, illegible text at the bottom center of the page, possibly a reference or archival note.

TONAWANDA AREA

PROGRESS REPORT

MARCH 1952

II. PRODUCTION:

K-65 sludge dumping operations were discontinued February 29, at the direction of R. Smith, as a result of the discovery of new cracks and leaks and the spread of old cracks on the outer surface of the storage tower. Mr. Frank Secchia of NYOO Engineering Division has advised LOOW that a representative will inspect the tower during the week of March 17th.

A total of 265 drums of K-65 sludge were dumped during the period from February 11 to 29, the start-up and shut-down dates for this second phase of dumping 800 drums or 200 tons. However, the tower was not operated continuously during this period. The length of time required to thaw material was increased due to severely cold weather, and the high radiation exposures received by all personnel as a result of the necessity of remaining at the top of the tower to shovel sludge out of the drums, were the chief factors which prevented continuous operation.

All material rolled at Bethlehem on February 17 was received and unloaded at LOOW on Sunday, February 18. Eighteen bundles of these rods were shipped to Hanford. Bundles 9 thru 14, 16 and 22 were shipped to Hanford from LOOW on February 19, and bundles 15, 17 thru 21, 23, thru 26 were included in a shipment from Simonds to Hanford. All of the two thousand and three thousand series rods were shipped to AN&F and the balance of the rods were shipped to Fernald with the exception of four beams of seven thousand series, 1.40 diameter, which have been retained in storage at LOOW pending shipping instructions.

Nine rods in the seven thousand series were sampled and distributed to Hanford, Argonne and Chalk River. Pieces C and F of these sampled rods are in storage at LOOW pending shipping instructions.

Forty-one bundles of 1-15/16 diameter oval billets and 23 ingots were received at LOOW from Allegheny on March 9. This material was inventoried and weighed in the presence of an NLO representative. The billets were shipped to Bethlehem via Kreuger Trucking Company on Thursday, March 13 for delivery at 7:00 A.M. Friday, March 14.

Five billets from the January operations at Bethlehem were also included in the shipment of March 13 for rolling March 15 at Bethlehem.

OFFICE ▶					
SURNAME ▶					
DATE ▶					

61961

**Pp. 8-13. LOOW, April 1952, *Tonawanda Area Progress Report*;
Lake Ontario Ordnance Works (LOOW); April 1952**

~~RESTRICTED~~
~~SECURITY INFORMATION~~

NY 17
Unlawful
Jm.

D. C. Moore, Director, Engineering and
Construction Division

April 9, 1952

F. M. Belmore, Director, Production Division

DISPOSAL OF K-65 DRUMS NOW AT LOOW

SYMBOL: PS:AJB:mam

Reference is made to your memorandum of February 8, 1952, subject "Additional Loading of Material In Silo at LOOW," and to your memorandum of October 30, 1951, same subject, to which was attached a copy of a letter by the Stearns-Rogers Manufacturing Company dated September 26, 1951.

Loading of K-65 material in the LOOW silo is now suspended for the following reasons:

- a. New cracks have been observed on the outside of the silo and old cracks appear to be spreading. Details of this situation were reported in my memorandum of March 3, 1952.
- b. A representative of African Metals who recently visited LOOW had no knowledge of Stearns-Rogers approval of September 26, 1951, for additional loading of the silo and, accordingly, was unable to approve the current program of loading an additional 1000 tons above the limit of 3680 tons as originally agreed.

With respect to item b. above, we understand that African Metals is inquiring of Stearns-Rogers as to its relaxation on loading limits in the silo. Also, we have requested Raw Materials to determine from African Metals the status of Stearns-Rogers with respect to the latter. We will advise you when information is received in this connection.

In the event African Metals gives approval to additional loading, we request that your office, in cooperation with African Metals' engineering consultant, review the structural situation to redetermine whether, and to what extent, it will be safe to additionally load the silo.

The Tonawanda Sub-Office has advised that at the present time there are 4500 drums at LOOW remaining to be dumped of which approximately 1000 are deteriorated or are off-size and will require redrumming before they can be further handled. It is desirable that all of the 4500 drums be disposed of as expeditiously as possible.

Special Rereview
Final Determination
Unclassified

By: K. A. Walter
Date: Aug. 6, 1980
T. F. Davis

~~RESTRICTED~~
~~SECURITY INFORMATION~~

is prohibited by law.
is prohibited by law.

D. C. Moore

- 2 -

April 9, 1952

Our preliminary cost estimate for transshipping the 4500 drums from LOOW to Fernald is in good agreement with that stated in your memo of October 30, 1951. Since these costs appear to be excessive, we request that you prepare preliminary designs and cost estimates for the utilization of the horton-sphere as suggested in your memo of October 30, 1951. In this connection, the approval of Health and Safety and of African Metals will be necessary before the horton-sphere can be used.

Also, since the deteriorated and off-size drums must be disposed of, it is requested that a redrummyng device be designed and costed and that the design be submitted to Health and Safety for approval. In this connection it might be well to consider the possibility of adapting the present dumping equipment to handle small drums and to designing a setup so that over-size drums could be cut down to the height of 55 gallon drums with the objective of eliminating or minimizing the necessity for a redrummyng operation.

CC: P. L. Merritt
M. Eisenbud
R. J. Smith, Jr.
F. Malone, Tonawanda Sub-Office ✓

Special Review
Final Determination
Unclassified
By: K. A. Walter
Date: Aug. 6, 1990
T. F. Davis

APR 10 1952

P. O. BOX 158
MT. HEALTHY STATION
CINCINNATI 31, OHIO

April 16, 1952

SUBJECT

INFORMATION FOR NLO REPRESENTATIVE AT LOOW

TO

L. Harmon

FROM

H. C. Zeitz

REFERENCE

CLASSIFICATION CANCELLED
OR CHANGED TO
BY AUTHORITY OF 00C
BY KAW/att/DATE 9/4/80
9/11/80

This is confirmation of information given to you over the telephone on the afternoon of April 16, 1952. The following points were discussed and settled as follows:

1. The lot marking at Bethlehem on April 12, 1952, was started wrong by the Bethlehem people and, since the Accountability Department failed to give them the stencil provided and marking instructions, we will have to take the blame for improper marking of the scrap lot. It should have appeared as E-103 instead of L-12.
2. In regards to this, you are to attempt to correct all markings of this lot, there at LOOW, since you have a stencil available. Please notify me if this is not or cannot be done.
3. A copy of your NLO document #1939 for G. Hughes will be completed and forwarded to you, as soon as possible, per your request.
4. A complete inventory of both full and empty beams at LOOW, which belong to NLO, is being obtained by you now and this information will be forwarded to me as soon as possible.
5. Please notify me immediately whenever the thirty (30 gal.) empty drums arrive at LOOW from Middlesex.
6. Since NLO is responsible for the sampling of the three rods from Hunford, you should be present when it is sampled (i.e., after sampling instructions are received). Also, please notify FMPC when this material has been sampled and shipped. Part of the material that hasn't been shipped belongs to NLO (i. e., the "P" pieces).
7. The carloads of ingots for the Simonds' rolling must be unloaded to prevent accrument of demurrage unless they are Government cars for which NLO will not be charged demurrage. These cars must be shipped to Simonds Saw and Steel so that they will arrive there two days prior to the start-up of rolling. The start-up of rolling operations will either be on May 1, 1952, or May 5, 1952. Thereafter, send two carloads every other day.

It will not be necessary to unload any cars that come into LOOW close to the shipping date (i.e., two days before), since they can be re-routed directly to Simonds Saw and Steel Company.

8. The next rolling at Allegheny-Ludlum will be from 8:00 AM on May 2, 1952, to 8:00 AM on May 4, 1952. A total of forty-eight hours.

9. We will use 140 ingots (7000 series or over) from previous rollings, 335 ingots which arrived last week and 25 ingots from the lot that should be on the way to LOOW now. Plan to ship these 500 to Allegheny so that the 140 will be lined up first, the 335 next and the 25 last, with each of the three groups in their own numerical order.

10. You are to call J. Riegert at Allegheny and work out your shipping schedule with him, keeping in mind that the empty beams will not be needed before the rolling starts on June 2. However you decide to make the shipments, please notify me of the schedule.

11. All ingots to be used by NLO are requested through the Fernald AEC Manager. The only requirement is that the ingots should arrive at LOOW in time to allow shipment of them to Allegheny-Ludlum for a specified rolling date. NLO does not specify actual shipping dates or scheduling of the ingots from MCW or Bendix.

12. Ship the following scrap material, via truck, from LOOW to FMPC, as soon as possible. This is per C. Walden's instructions of April 17, 1952.

#1	Wooden Box of Scale -	15#	Net	
#2	" " " " -	10#	Net	
#1	Drum (A-102) of Butt Ends	1559#	Net	(contains extra piece of
#2	" " " " " "	2456#	Net	
#3	" " " " " "	2230#	Net	
#4	" " " " " "	2358#	Net	
#5	" " " " " "	2148#	Net	(contains extra piece of
#6	" " " " " "	2078#	Net	
#7	" " " " " "	2552#	Net	
#8	" " " " " "	1958#	Net	
#9	" " " " " "	2952#	Net	
One	Drum (B-102) of Scale -	98#	Net	
#1	" (B-103) of Cropped Ends-	286#	Net	
#2	" " " " " "	395#	Net	
#3	" " " " " "	283#	Net	
#4	" " " " " "	486#	Net	
#5	" " " 7779 Cobble -	432#	Net	
#6	" " " 7828 & 7901 Cobbles -	592#	Net	
#30	" (A-103) " Burnt Scrap -	494#	Gross	
#31	" " " " " "	462#	Gross	
#32	" " " " " "	566#	Gross	
#33	" " " " " "	456#	Gross	
#34	" " " " " "	518#	Gross	
#35	" " " " " "	1002#	Gross	
#36	" " " " " "	860#	Gross	
#37	" " " " " "	514#	Gross	

H. C. Zeitz to L. Harmon, April 16, 1952

Page 3

This is a total of two (2) wooden crates and 24 drums with a total gross weight of about 29,000#. Please notify us (FMPB) when you release it and send us a complete breakdown of the contents of shipment.

Yours truly,



H. C. Zeitz

HCZ:edc

cc - S. F. Audia
H. S. Nelson
C. W. Walden
G. Hughes ✓

U.S. DEPARTMENT OF COMMERCE
OFFICE OF FOREIGN TRADE DEVELOPMENT
WASHINGTON, D. C.

RESTRICTED DATA
SECURITY INFORMATION
Do not disseminate to unauthorized personnel

Hooker Case File
Env. Prot. Bureau
N.Y.S. Department of Law
New York, New York

Roll 122

3.1 NY00

STANDARD FORM NO. 64

CONFIDENTIAL SECURITY INFORMATION

Office Memorandum • UNITED STATES GOVERNMENT

TO R. J. Smith, Jr., Chief, Operations Branch
Production Division, NY00

DATE: April 16, 1952

FROM F. W. Malone, Chief, Tonawanda Sub-Office, Model City, N.Y. *5-16*

SUBJECT TRANSMITTAL OF MONTHLY PROGRESS REPORT FOR APRIL 1952

SYMBOL: TA:GE

Tona
ORGANIZATION & MANAGEMENT 8-1

Enclosed is the Monthly Progress Report for April 1952 covering activities under the Tonawanda Sub-Office for this month.

Encl.:
Summary and Report cys 1A & 2A

CC: F. W. Malone cy 3A

381

WHEN SEPARATED FROM ENCLOSURES HANDLES DOCUMENT AS UNCLASSIFIED

Special Reviewer
Final Determination
Unclassified
By: K. A. Walter
Date: Aug. 6, 1989
T. F. Davis

CONFIDENTIAL

TO FILE

MAY 1 - 1952

Roll 122

~~CONFIDENTIAL~~ SECURITY INFORMATION

TONAWANDA AREA

PROCESS REPORT

THIS REPORT CONTAINS 6 PAGES
NUMBER 1 OF 5 PAGES, SERIES A

APRIL 1952

SUMMARY

II OPERATIONS:

A. PRODUCTION DIVISION:

L. Uranium:

CLASSIFICATION CANCELLED
OR CHANGED TO
BY AUTHORITY OF *DSC* / 1/77
BY *KAC* DATE 1/22/...

Material from March experimental rollings shipped to Fernald with the exception of two beams of rods which were shipped to AMF, Brooklyn on March 26 and fifteen rods shipped to Hanford on March 26. Four designated rods from this rolling were sampled in prescribed manner and specific samples distributed to Hanford, Argonne and Chalk River on March 27.

240 ingots shipped from LOOW to Watervliet for April 5 rolling. Rolled billets returned to LOOW and trans-shipped to Bethlehem for finish rolling on April 12. Rolled rods returned from Bethlehem on April 13 and stored at LOOW pending distribution instructions.

Approximately 100 units of MCW billets trucked from LOOW to Simonds for March-April rolling.

All SO-305 slugs shipped from storage at LOOW to AMF, Brooklyn.

Samples of oxides received from XRO shipped to New Brunswick Lab for analysis.

700 pounds of metal rods shipped to Joslyn Mfg. Co., Ft. Wayne, Ind.

Three Hanford rods returned to LOOW for sampling and distribution under U.S.-Canadian Material Exchange Program. All samples prepared for this program shipped in accordance with instructions. One and one-half tons of uranium billets received from Chalk River for storage at LOOW.

335 ingots received at LOOW from Bendix Aviation, Kansas City, for next experimental rolling. One box of special billets from MCW for this rolling also received at LOOW.

1400 pounds of lead gangue ore residues received from Vitro, Jersey City.

30 units of metal scrap from Simonds last rolling received at LOOW.

Six units of thorium billets received from Ames Area for storage at LOOW.

RECEIVED DATA
This report contains information of a classified nature. It is to be controlled in accordance with the provisions of Executive Order 11652, dated 10/14/48, and any amendments thereto. Release of this information in any form to the public is prohibited.

Special Review
Final Determination
Unclassified

By: K. A. Walker
Date: / /



ORO 65161

UT 21

Hooker Case File
Env. Prot. Bureau
N.Y.S. Department of Law
New York, New York

FOIA MATERIALS FROM DOE

ROLL 122

~~CONFIDENTIAL~~

TONAWANDA AREA

PROGRESS REPORT

APRIL 1952

CLASSIFICATION CANCELLED

OR CHANGED TO
BY AUTHORITY OF *DOE 1/72*

BY *KAW* DATE *1978*

II. PRODUCTION:

Nine rods from the February experimental rolling were cut and samples distributed on February 22. Four additional rods were rolled during the March experimental rollings at Allegheny and Bethlehem and sampled at LOOW. Samples were distributed in accordance with a program developed at the U. S. - Canadian Uranium Metallurgy Meeting of February 4 in NYOO. On April 11 all thirteen "C" samples cut in February and March were delivered by Government truck to the Atlas Steels Company Limited at Welland, Ontario.

Three ingots rolled during February experimental rollings were returned to LOOW from Hanford to be cut into prescribed samples. The "C" pieces were scheduled for delivery to Atlas Steel in the original shipment. Although the material arrived from Hanford on the morning of the day the shipment was dispatched to Canada, and samples could have been prepared in time to be included in the shipment, the fact that the Hanford ingots were cut into three lengths of approximately thirteen feet instead of the usual two lengths of from sixteen to eighteen feet, made it impossible to follow previous cutting instructions to obtain required samples.

NYOO was contacted immediately for new sampling instructions, but was unable to furnish same due to lack of SROO authority. Since the necessary information could not be obtained that day from SROO, a partial shipment of thirteen "C" samples was made.

Some difficulty was encountered in delivering material to Atlas Steel Company as April 11 was a Canadian Holiday and no provision had been made at the plant for unloading LOOW truck. Mr. E. Jackman, Plant Superintendent was contacted by Atlas Guard upon arrival of AEC driver, Mr. W. Collins. Mr. Jackman came to the plant immediately and assisted Mr. Collins in removing the material from the truck.

A list of the rod numbers and weights was turned over to Mr. Jackman for Mr. Hatfield, Chalk River representative.

Instructions for cutting Hanford material were relayed from SROO to this office by telephone from NYOO on Tuesday, April 15. Mr. George Mercer of Chalk River called this office shortly thereafter to ascertain the delay in receipt of Hanford material at Welland. He was advised that cutting instructions had just been received and material would be cut and delivered to Atlas before noon on Wednesday, April 16. All remaining samples will be prepared and shipped to specified destinations on April 16. This will include the shipment of all "F" samples to Chalk River. No instructions have been received for the disposition of scrap resulting from this sampling program.

RESTRICTED DATA

This document contains restricted data as defined in the Atomic Energy Act of 1954. Its transmission or disclosure in any form is prohibited.

Special Review
Final Determination
Unclassified
By: K. A. Walter
Date: 1/72
T. F. Jones

DT 2

Roll 122

Tonawanda Area Progress Report

-2-

April 1952

The accountability for the Hanford material was transferred to TOA, therefore, TOA in turn will transfer accountability for samples to appointed stations at each destination.

A shipment of one and a half tons of uranium billets were received from National Research Council at Chalk River. This material is being stored at LOOW pending further instructions. This material was cleared through Customs under the regulation providing for the return of U. S. goods without payment of duty. The Deputy Collector in Buffalo advised that this would be the most expeditious manner in which to handle the import, although the Chalk River personnel did not believe the regulation was thoroughly applicable.

All material rolled at Bethlehem on March 15 was received at LOOW, unloaded and stored. Upon receipt of instructions from National Lead this material was distributed as requested.

Two hundred and forty ingots were shipped to Alleghaney-Ludium at Watervliet for the April 5 rolling. All material was returned to LOOW after rolling and stored until April 12 rolling at Bethlehem. Material was shipped to Bethlehem on April 11 at the request of National Lead, and Bethlehem production was returned to LOOW on April 13 where it is being stored pending disposition instructions from NLO.

Three hundred and thirty-five ingots ordered from St. Louis by NLO for the next Alleghaney rolling formerly scheduled for April 19, were received from Bendix Aviation Co. in nine shipments-- seven truckloads and two LCL shipments. The Tonawanda Office was unaware of these shipments until notified by the local office of Interstate Express on Wednesday, April 9th that material would be delivered on April 10th. Later that day notice of the shipment was received via telephone from Mr. V. Sullivan of St. Louis Area. He advised that National Lead Co. had ordered the material delivered to LOOW intine for the trans-shipment to Watervliet for rolling on April 19th. He also advised that original shipment from Bendix consisted of two truckloads via Riss trucking Company and five truckloads via Interstate. The conclusion was reached that Interstate had divided their five loads into seven in order to comply with weight regulations governing interstate commerce.

Special Review
Final Determination
Unclassified

By: K. A. Walter
Date: Aug. 6, 1980
T. F. Davis

Mr. Sullivan and Interstate were informed by this office that it would be impossible for LOOW to accept delivery of all loads in one day due to limited unloading facilities and heavy work loads. Arrangements were made with Interstate to accept two loads each day with the possibility of three loads on the final day. However, on Thursday, April 10, two truckloads from Riss and one from Interstate arrived simultaneously. A seconds load from Interstate arrived an hour later. Shortly thereafter two representatives from Interstate visited this office to ascertain why their loads could not be delivered immediately, unloaded and their equipment released.

Roll 122

Tonawanda Area Progress Report

-3-

April 1952

The situation was explained to them and they agreed to schedule their equipment in for unloading as requested, but expressed reluctance at the necessity for the extended use of their equipment, especially since this meant that some of the equipment would not be available for other customers until after the weekend. They were informed that an effort would be made on April 11 to unload three of their trucks.

However, a request from National Lead later that afternoon to load three Kreuger trucks on April 11 for delivery to Bethlehem automatically cancelled plans to unload the three Interstate trucks. Interstate was informed that one truck could be unloaded if delivered at 8:00 A.M. on April 11. This was accomplished. The balance of the material was received and unloaded on April 14th.

Mr. C. Karl of Fernald Area was informed of this incident by memo and it is expected that effective action will be taken to more closely coordinate future shipments of this type.

Information has been received that no additional K-65 sludge is to be stored in the present storage tower at LOOW. A physical inventory of all drummed K-65 now stored on roadways is underway. High radiation exposures received by personnel conducting this inventory makes it necessary to limit the time spent on inventorying these drums to a maximum of two hours per day. It is expected that only a small percentage, if any, of the 1009 drums previously scheduled for repackaging will require this action prior to shipment to Fernald. Repackaging for dumping at LOOW was necessary because the dumping mechanism could not accommodate the various sizes of the drums.

Mr. Levine of NYO Engineering Division inspected the recent changes on the exterior of the tower and arranged for a general survey of it by Mr. Gidlow. Mr. Gidlow performed this survey on April 10 and reported verbally that the expected settling increase was observed, but no indication of tilting was evident. His formal report will be submitted to Mr. Levine shortly.

Mr. C. Crassy a representative of African Metals Corp. and Mr. W. Bistya of NYO Raw Materials Office inspected the storage of AF-Met sludges at LOOW on March 25.

Representatives of NYO Accountability Branch conducted an SF Material Accountability Survey at W and SSS from March 25 thru March 28.

A Security Survey of LOOW and the Tonawanda Sub-Office was performed on March 17 by Mr. Henry Stetina, NYO Security Agent.

A routine inspection of results of the surplus supplies and equipment disposal program at LOSA was performed by J. S. Quidor, Director, NYO Administrative Division on April 8.

Special Review
Final Determination
Unclassified

By: K. A. Walter
Date: Aug. 6, 1980
I. F. Davis

Tonawanda Area Progress Report

-4-

April 1952

HEALTH & SAFETY:

Four radioactive tubes were disposed of on the scrap pile at LOOW. The tubes were the property of the U. S. Air Force Shawnee Radar Warning Center, Lockport, N.Y. The Shawnee Station had requested disposition advice from this office and the above action was taken at the suggestion of NYO Health & Safety Division.

At the request of the Air Force Material Command, Buffalo, N.Y., this office performed a radiation survey of a Cobalt 60 source located at Fredric Flader Co., North Tonawanda, N.Y. The measurement readings obtained were forwarded to the Air Force. The radiation determination was necessary to coordinate the planned shipment of this source.

LINDE AIR PRODUCTS COMPANY:

All Government equipment not installed was transferred from the Step III plant at Linde to a designated storage building at LOOW. This action was taken to provide additional space for Linde operations. The cost of the transfer was paid by Linde since the move was made for their convenience. It is understood that Linde will assume a share of the Government expense for maintenance of this plant in return for permission to use same.

SIMONDS SAW & STEEL COMPANY:

A total of 350 units of billets from Mallinckrodt, Hanford and Fernald were rolled at Simonds during the last operation which commenced on March 21 and continued through April 8. 310 units from this production were shipped to Hanford and fifteen units were shipped to Fernald.

The next operation at Simonds is scheduled for May 5 but they have indicated that an effort will be made to move the date up to May 1. Simonds have agreed to roll 400 units during this operation.

Seven carloads of material have been shipped from St. Louis Area to LOOW to be held until required by Simonds. Three of these cars have been received. One carload is being shipped from Hanford on April 17 and a second carload is scheduled to leave on the 18th. In accordance with NYOO directive, Hanford was instructed that cars should be routed to avoid flooded areas.

Verbal instructions have been received from National Lead to ship fifty ingots stored at LOOW to Simonds. These ingots are to be cut into billets and rolled during Simonds May operation. Since TOA is accountable for this material, no action will be taken until confirmation of these instructions is furnished by NYO.

Special Review
Final Determination
Unclassified

By: K. A. Walter
Date: Aug. 8, 1930
J. F. Davis

Approved: _____
Special Agent in Charge

Hooker Case File
Env. Prot. Bureau
N.Y.S. Department of Law
New York, New York

FOIA MATERIALS FROM DOE

Roll 122

Tonawanda Area Progress Report

-5-

April 1952

A physical inventory of Government property in use at Simonds was performed by a representative of this office. It is planned to transfer property accountability to Katicral Lead since AEC contract AT 30-1-CEN-339 with Simonds has been superseded by Subcontract AT 30-1 (1156) between Simonds and National Lead effective March 1.

Mr. H. Hershman has requested that all solid scrap resulting from May rolling at Simonds be shipped directly to Hanford for recasting.

Special Review
Final Determination
Unclassified

By: K. A. Walter
Date: Aug. 6, 1980
T. F. Davis

Hooker Case File
Env. Prot. Bureau
N.Y.S. Department of Law
New York, New York

FOIA MATERIALS FROM DOE

BOLL 122

- 3 -

R. J. Smith, Jr.

April 18, 1952

F. W. Malone

WEEKLY PROGRESS REPORT APRIL 18, 1952

SYMBOL: TA:GM

ADMINISTRATION:

Mr. Joseph Maffucci of NYO Property Accountability Branch visited LOOW this week to assist various representatives of the Board of Education in selecting useable items from the inventory of surplus supplies and equipment. Representatives of the Buffalo Board of Education, Canisius College, University of Buffalo and Cornell University were among those who visited LOOW to participate in this program.

Shipments of various surplus items were made to Dept. of Justice, Danbury, Connecticut; U. S. Naval Supply Depot, San Diego, California; Northern Bronze Co., Philadelphia, Pa.

Since Fernald Area and National Lead Co. have both expressed the intention of having qualified representatives inspect the surplus stores and equipment inventory at LOOW, it is suggested that action be taken in the near future, as the receipt of requisitions from agencies other than the AEC is rapidly increasing.

A physical inventory of Government property located at Simonds Saw & Steel Co. was completed this week. It is planned to transfer accountability for this property from Tonawanda Sub Office to National Lead Co.

EXPORTS AND IMPORTS:

One carload of ore was imported for Harshaw Chemical Co., Cleveland, Ohio from Eldorado Mining & Refining, Ltd., Port Hope, Ontario, Canada.

Special Review
Final Determination
E2 Unclassified
By: K. A. Walter
Date: Aug 6 1979
T. F. Lums

Dr. J. P. Morgan, Jr., Area Manager, St. Louis Area

April 23, 1952

C. L. Karl, Area Manager, Fernald Area, Cincinnati

2.23.1
3.1

LONG INGOT REQUIREMENTS

St. Louis MATERIALS -3

SYMBOL: FA:RELS:mb

ATTENTION: James Koenig

The rolling schedule at Allegheny-Ludlum through June is as follows:

May 2-3	-	500 ingots. (long)
June 6-7	-	500 ingots. (")
June 27-28	-	500 ingots. (")

There are 480 ingots now on hand at LOSA, which satisfies the requirements of the May 2-3 run.

It is requested that your production schedule satisfy the requirements for the two June runs.

Ingots for the run of June 6-7 should arrive at LOSA by June 1; ingots for the June 27-28 run by June 20. All ingots should be conditioned until further notice.

Please send the list of ingot numbers comprising each lot to this office as far in advance as possible. A copy of your shipping papers to Kansas City would be adequate for our needs.

CC: F. M. Belmore, NICO ✓
D. J. Blythe, NLO

CLASSIFICATION CANCELLED

BY AUTHORITY OF *DOE*
BY *K. Walter* DATE *9/25/80*
P. P. Brown 9-24-80

RESTRICTED DATA
ORO-63467
The Atomic Energy Act of 1954, as amended, prohibits the unauthorized disclosure of its contents. Its transmission or disclosure of its contents is prohibited.

E. H. REISNER, Chief, PROPERTY BRANCH
 DISTRICT OFFICE
 D. C. MOORE, Director, ENGINEERING & CONSTRUCTION

APR 29 1952

TO : Frank W. Malone, Chief
 Model City, New York

FROM : H. E. Reiser, Chief, Property Accounting Branch

DATE: April 29, 1952

SUBJECT: DRUM CONVEYOR SYSTEM and UNLOADING CHUTE CONSTRUCTED AT LAKE
 ONTARIO STORAGE AREA, MODEL CITY, N.Y. PROJECT 2-221-9017

SYMBOL: FG:HER:RMM

A recent report of construction work completed at the Lake Ontario Storage Area included two items which we were unable to give the correct account classification because of lack of certain information.

We were wondering if you could assist us in securing the additional necessary details from your records on hand in order for us to make the proper entries on our books.

The items in question are as follows:

1. Designing, fabricating and installing Drum Handling Conveyor \$52,502.80
 Contractor: Jervis P. Webb
 Contract No., Gen.779

We were advised that this conveyor should be classified as "processing equipment", account #735. However, to our knowledge there is no processing done at the Lake Ontario Storage Area.

Therefore please let us know the exact purpose for which this conveyor is used, also the various units of the conveyor, i. e., motors, type of rollers, dimension of conveyor, power used and any other detail you might feel essential to give a complete description.

2. Fabricating and installing Unloading Chute in tower \$ 4,037.75
 Contractor: Albert Elia Building Co., Inc.
 Contract No. Gen. 1165.

This loading chute was also classified as "processing equipment". Is it part of the Conveyor System and what purpose does it serve?

The above item for \$4,037.75 includes the costs of installing an "underground water line crossover" outside the building. Thus far we were unable to determine the approximate cost of this water line which we have to set up under a different classification.

TO : Frank W. Malone

-2-

DATE:

FROM : H. E. Reiser

SUBJECT: DRUM CONVEYOR SYSTEM AND UNLOADING CHUTE CONSTRUCTED AT LAKE
ONTARIO STORAGE AREA, MODEL CITY, N.Y. PROJECT 2-221-9017

SYMBOL: FG:HER:rum

3. Erecting Quanset Huts and Loading Platform \$48,906.57
Contractor: W. F. Hendrich Co., Inc.
Contract No. Gen.849.

Can you determine from your records what portion
of the above amount applies to the Loading Platform?

CC: Castellano, Finance
Stanford "

Hooker Case File
Env. Prot. Bureau
N.Y.S. Department of Law
New York, New York

FOIA MATERIALS FROM DOE

Roll 122

~~CONFIDENTIAL~~

R. J. Smith, Jr.

10-

May 9, 1952

F. W. Malone

WEEKLY PROGRESS REPORT MAY 5-9, 1952

SYMBOL: TA:GH

R-4 MATERIALS:

Seven surplus radium sources were received from atomic base for storage at LOON.

One surplus radium source No. 179 was received from Columbia University for storage at LOON.

HEALTH & SAFETY:

Four additional radioactive tubes were received at LOON from the Shawnee Radar Base for disposal on LOON scrap pile. Since no previous notice of the shipment was received at LOON, the tubes were accepted for disposal, but Shawnee was informed to suspend shipments pending other arrangements for disposition of these tubes.

Special Review
Final Determination
Unclassified

By: K. A. Walter
Date: Aug. 6, 1980
T. F. Davis

~~CONFIDENTIAL~~



Geraldine Hughes, Tonawanda Sub-Office

MAY 13 1952

S
3.1

A1

R. J. Smith, Jr., Assistant Director, Production Division,
New York

K-65

Tona.
MATERIALS - 3

La...

SYMBOL: P:RJS:bh

Please provide me with inventory and identification information on the 4500 odd drums of K-65 which remain undumped at LOOW. This information is desired as soon as possible and should be in sufficient detail to permit the securing of the Vendor's permission to transfer said material to Fernald.

OFFICE →	Production				
SURNAME →	Smith				
DATE →	5/12/52				

R. J. Smith, Jr., Assistant Director,
Production Division - Thru: F. M. Belmore

May 14, 1952

G. E. Dunlap

ROLLING THORIUM FOR DUPONT EVALUATION

3.1
2.23.12

SYMBOL: PM:GED:jb

RESEARCH & DEVELOPMENT (GEN.) - 4

We have received a verbal request from Mr. Ed Hayes of duPont (to be confirmed in writing) for the production of approximately 400 thorium slugs which will involve the use of about 2,000 pounds of Ames' thorium ingot. We understand that this can be drawn from stock on hand at Lake Ontario.

Since Simonds Saw & Steel Co. will complete their May rolling of uranium about May 20th, we would like to have this rolled to Hanford size bar immediately following the completion of the uranium run in order to meet duPont's desires on schedule.

Would you please authorize Lake Ontario to ship the following ingots to SS&S Co. in time for rolling May 20th:

- a) 10 ingots of Msx grade
- b) 10 ingots of Grade A

Mr. O'Reilly has been notified that this material is coming.

cc: Mr. P. Hagelston, SROO

G. E. Dunlap, Prod. Div.
M&R

MAY 15 1952

OFFICE →					
SURNAME →	Dunlap/ARM				
DATE →	5/14/52				

R. J. Smith, Jr.

May 16, 1952

F. M. Belmore

3.1
2.2 3.12

ROLLING OF THORIUM METAL AT SIMONDS

SYMBOL: PM:ARN:jb

RESEARCH & DEVELOPMENT (GEN.) - 4

DuPont has not come through with a written request for thorium metal fabrication but it is anticipated information will be needed on irradiated slugs from rolled thorium metal so Production Division will proceed with this independently. Hanford has not kept historical identity on past material shipped to them but has agreed through Paul Holsted (AEC Hanford) to do so in the future.

We now want to go ahead in order to get irradiation and cost information on rolling and a comparison with extruded thorium metal.

In view of the foregoing information, it would be desirable to have one ton of thorium ingots (as listed below) transferred from LOSA to Simonds by May 19th so that this material can be rolled at the completion of the uranium rolling which is expected to be completed on or before May 20th:

- a) 10 ingots of Grade "A" which represent cast virgin metal
- b) 10 ingots of Grade "MX" which represent recast turnings.

cc: A. R. Noto, Prod.
M&R

MAY 19 1952

OFFICE→	A. R. Noto	Met. Dev.	Production		
SURNAME→	<i>A.R. Noto</i>		<i>ARN</i>		
DATE→	<i>5/17/52</i>	<i>ARN</i>	<i>5/19</i>		

A1

~~SECRET~~
~~RESTRICTED DATA~~

E. J. Smith, Jr., Assistant Director, Production Division, May 31, 1952
New York
Geraldine Hughes, Administrative Aide, Tonawanda Sub-Office

K-65

SYMBOL: TA:CH

1000 MATERIALS -3

Reference is made to your memo of March 29 and May 13 ^{sk} regarding the above subject.

Enclosed is an inventory of all of the complete lots of K-65 sludge which are still on the roads at LOON. In addition to these complete lots the following groups of drums are also on the roads:

- 98 Samples
- 162 55 gallon partial lots
- 370 55 gallon mixed lots, wet, bent or high drums

The identification of the latter two groups is extremely difficult since most of the markings have been worn off or are not readable. We are attempting to establish the identity of these drums from the daily drum-dumping sheets and SF receiving reports. This information will be forwarded as soon as it is available.

A list of all the lots and numbers of drums dumped is being compiled and will be forwarded when it is completed.

Encl.:

List of K-65 drums on roads (full lots)

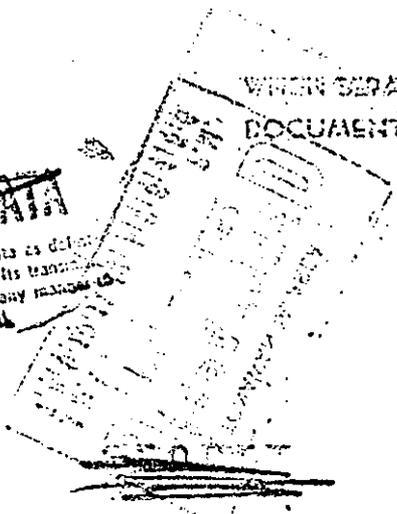
CC: B. Bistyga
F. Malone

Special Review;
Final Determination
Unclassified

By: K. A. Walter
Date: Aug. 6, 1990
T. F. Davis

WHEN SEPARATED FROM ENCLOSURES, HANDLE THIS DOCUMENT AS Unclassified

~~RESTRICTED DATA~~
This document contains restricted data as defined by the Atomic Energy Act of 1946. Its transmission or the disclosure of its contents in any manner to an unauthorized person is prohibited.



2.23.52

USE WHERE REQUIRED

THIS DOCUMENT CONSISTS OF 2 PAGES
NO. 3 OF 3, CONTROL NO. A.

U. S. ATOMIC ENERGY COMMISSION
CLASSIFIED MESSAGE

DISTRIBUTION:

- Cy 1 - TT
- 2 - G. Rennie
- 3 - MSR

125

SIGNATURE OF CERTIFYING OFFICIAL

DATE OF MESSAGE

F. M. BRIMORE, DIRECTOR, PRODUCTION DIVISION

MAY 26, 1952

FROM: W. E. KELLEY, MANAGER
U. S. ATOMIC ENERGY COMMISSION
NEW YORK OPERATIONS OFFICE

St Louis
MATERIALS 3

TO: J. P. MORGAN, AREA MANAGER
U. S. ATOMIC ENERGY COMMISSION
ST. LOUIS AREA OFFICE
ST. LOUIS, MISSOURI

CLASSIFICATION CANCELLED

OR CHANGED TO

BY AUTHORITY OF DDC

BY *K.W. Walker* DATE *7/25/80*
J.P. Brown *9/3/80*

ATTENTION: J. J. KOENIG

MESSAGE

(Must be typed double space and line length not to exceed 6 1/2")

PLEASE ARRANGE TO MAKE THE FOLLOWING SHIPMENTS OF INGOTS CLM

1. THREE HUNDRED TWENTY TONS OF SHORT INGOTS FROM YOUR INVENTORY TO LOCKPORT FOR THE JUNE ROLLING PD YOU SHOULD CONTACT R. E. L. STANFORD, FERNALD AREA AND SET UP A SHIPPING SCHEDULE FOR THIS ALLOCATION PD
2. FOUR HUNDRED TWENTY CONDITIONED LONG INGOTS AND THIRTY UNCONDITIONED LONG INGOTS TO ARRIVE AT THE LAKE ONTARIO STORAGE AREA BY JUNE ONE, 1952 PD
3. FIVE HUNDRED CONDITIONED LONG INGOTS TO ARRIVE AT THE LAKE ONTARIO STORAGE AREA BY JULY THREE, 1952 PD
4. FIVE HUNDRED CONDITIONED LONG INGOTS TO ARRIVE AT THE LAKE ONTARIO STORAGE AREA BY JULY TWENTY FOUR, 1952 PD PARA

NO SHORT INGOTS ARE SCHEDULED TO BE ROLLED DURING JULY PD STARTING JULY ONE

* Complete if CONFIDENTIAL (when originator deems it necessary) or if message bears higher classification. See additional instruction on reverse side.

ORO 63465 3

Phillip L. Merritt, Assistant Director,
Division of Raw Materials

June 2, 1952

F. M. Belmore, Director, Production Division

K-65

SYMBOL: P:RJS:bh AI

As you are already aware, the K-65 dumping at Lake Ontario Storage Area has exceeded the load limit agreed upon for the concrete water tower.

Remaining at LCSA are some 4900 drums of K-65 which have not been dumped, those lots listed in the enclosed inventory plus:

<u>No. of Drums</u>	<u>Description</u>
98	Samples
162	55 gal. drums, partial lots with markings obliterated
370	55 gal. drums, mixed lots, some with wet material, in bent or oversized drums with markings obliterated

It is our intention to transfer the undumped K-65 from LOSA to Fernald and dump it in the K-65 storage facilities there.

Your concurrence and that of the Vendor, if required, is requested.

CLASSIFICATION CANCELLED
OR CHANGED TO _____
BY AUTHORITY OF DOE/DPC
RAYMOND A. CARLSON 9-21-79
REVIEWED BY DATE

Enclosure:
K-65 Inventory, Copy 1/A

CC: F. W. Malone, Cleveland Area Office
G. Hughes, Tonawanda Sub-Office

SEARCHED
SERIALIZED
INDEXED
FILED

When removed from enclosure, handle this document as Restricted
Special Review
Final Determination
Unclassified
By: K. A. Walter
Date: Aug. 6, 1980
E. F. Davis

~~CONFIDENTIAL~~
~~CONFIDENTIAL~~

6/5/52
I-349

~~SECRET~~ ~~RESTRICTED DATA~~
 K-65 INVENTORY - FILL LOTS (55 gal. Drums)

LOT NO.	NO. OF DRUMS	NET WT. Lbs.	Drum #
85	96	52,687	F1-76
86	"	49,025	F97-192
87	"	46,542	F173-287
88	"	46,693	F249-384
89	"	47,621	F385-480
90	"	44,500	F481-576
91	"	44,989	F571-672
92	"	46,407	F673-768
93	"	45,067	F767-864
94	"	44,993	F865-960
96	"	44,191	F1067-1152
97	"	44,721	F1153-1248
99	"	41,077	1345-1440
101	"	43,438	1537-1632
102	"	44,291	1633-1728
103	"	44,594	1729-1824
104	"	46,343	1825-1920
105	"	48,801	1921-2016
106	"	47,081	2017-2112
107	"	46,857	2113-2208
108	"	44,023	2209-2304
109	"	46,120	2305-2400
110	"	46,723	2401-2496
111	"	46,276	2497-2592
112	"	47,621	2593-2688
113	"	47,778	2689-2784
113	"	46,314	2785-2880
115	"	44,682	2881-2976
116	"	43,644	2977-3072
117	"	46,043	3073-3168
118	"	46,208	3169-3264
119	"	47,438	3265-3360
120	"	48,163	3361-3456
121	"	51,840	3457-3552
122	"	51,763	3553-3648
123	"	50,532	3649-3744
124	"	51,805	3745-3840
125	"	51,152	3841-3936
126	"	51,418	3937-4032

Q TA921
 0249

CLASSIFICATION CANCELLED
 OR CHANGED TO
 BY AUTHORITY OF DCE/DPC
 ATANIL A. CHANESSE
 REVIEWED BY *[Signature]* 9-26-78
 PAGE

Special Review
 Final Determination
 Unclassified
 By K. A. Walker
 Date: Aug. 6, 1980
 T. E. Davis

174 140
150 40,058 (30 gal. Drums) - 3817-3956
 40 3,894 1,869,319

~~SECRET~~

RESTRICTED DATA
 This document contains restricted data as defined
 in the Atomic Energy Act of 1946. Its transmittal
 or the disclosure of its contents in any manner to
 an unauthorized person is prohibited.

55 gal drums. K-65

INVENTORY (FULL LOTS)

LOT#	AMT	NET WT.
85	96	52,687
86		49,025
87		46,542
88		46,693
89		47,621
90		44,300
91		44,989
92		46,407
93		45,067
94		44,993
96		44,191
97		44,721
99		41,077
101		43,438
102		44,291
103		44,594
104		46,343
105		48,801
106		47,081
107		46,857
108		44,023
109		46,120
110		46,723
111		46,276
112		47,621
113		47,778
114		46,314
115		44,682
116		43,644
117		46,043
118		46,208
119		47,438
120		48,163
121		51,840

LOT#	AMT	NET WT.
122	96	51,763
123		50,532
124		51,805
125		51,152
126		51,418
174	150	40,058

30 gal drums.

3744 - 55 gal Full Lots
 150 - 30 gal Full Lot
 98 - Sampler
 162 - 55 gal Partial lots
 870 - 55 gal mixed lots, West, Bent or.

NEW YORK OPERATIONS OFFICE
ROUTING SLIP

FORM 6
REV. 4-30-51

3.1

DATE June 10, 1952

FILE NO. _____

ROUTE TO & INITIAL

ROUTED FROM: Accountability

MANAGER	Mr. Kelley	Correspondence	
DEPUTY MANAGER	Mr. Fry	Mail & Records	
Budget		Reproduction	
		Teletype	(3)
		Travel	
HEALTH & SAFETY	Mr. Eisenbud		
PRODUCTION	Mr. Belmore	REMARKS:	
Assistant to the Director			
Metals Branch			
Operations Branch			
ENGINEERING & CONSTRUCTION	Mr. Moore		
TECHNICAL ADVISERS	Dr. Parsegian		
TECHNICAL INF. & DECLASS. SV.	Dr. Slesser		
Library			
ADMINISTRATIVE OPERATIONS	Mr. Quidor		
Office Management			
Procurement			
Property Management			
Records Management			
Traffic & Transportation			
CONTRACT COORDINATION	Mr. Clarke		
Contract Control			
FINANCE	Mr. Del Vecchia		
LICENSING	Mr. Burman		
ORGANIZATION & PERSONNEL	Mr. Hill		
PUBLIC INFORMATION SERVICE	Mr. Allardice		
SECURITY	Mr. Kirkman		
ASSISTANT GENERAL COUNSEL	Mrs. Duncombe		
NEW YORK PATENT GROUP	Mr. Sherwood		
DIVISION OF RAW MATERIALS	Dr. Merritt		
Mineralogical Laboratory			

Barke -
we think this is
an accumulation of
losses over a long
period of time plus
possible paper shortages.
However, since this
is the first real
physical inventory taken
at OSA for a long time
we can't tie it down.
I guess this means the
ASB will come in,
FB.

Special Review
Final Determination
Unclassified
By: K. A. Walter
Date: 1980
T. F. Davis

~~SECRET~~
~~SECURITY INFORMATION~~

USE WHERE REQUIRED

(Insert classification)

JUN 1

THIS DOCUMENT CONSISTS OF 2 PAGES
NO. 1527 OF 97 COPIES, SERIES A

U. S. ATOMIC ENERGY COMMISSION
CLASSIFIED MESSAGE

U.S. ATOMIC ENERGY COMMISSION
NEW YORK OPERATIONS OFFICE

Special Rereview
Final Determination
Unclassified

By: K. A. Walter
Date: 1960

T. F. Davis

#131

SIGNATURE OF CERTIFYING OFFICIAL

DATE OF MESSAGE 6/11

~~H. E. ...~~ Manager

MATERIALS 9

FROM: USAEC, NEW YORK OPERATIONS OFFICE, NEW YORK, N.Y.

TO: U.S. ATOMIC ENERGY COMMISSION
1901 CONSTITUTION AVENUE, N.W.
WASHINGTON, D.C.

ATTENTION: M. BOYER, GENERAL MANAGER
JOHN A. WATERS, DIR. OF SECURITY
R. W. COOK, DIR. OF PROD.

MESSAGE

(Must be typed double space and line length not to exceed 6 1/2")

PRIORITY

A RECENT INVENTORY OF URANIUM METAL AND HIGH GRADE URANIUM SCRAP AT TONAWANDA SUB-OFFICE REVEALED A SHORTAGE PD ANOTHER INVENTORY OF THESE MATERIALS WAS TAKEN LAST WEEK TO ASSURE THE FACT THAT A SHORTAGE DID EXIST PD WE FOUND THE MAY THREE ONE/ONE NINE FIVE TWO REPORTED INVENTORY OF THESE MATERIALS TO BE SHORT ABOUT THREE SEVEN SIX ZERO POUNDS OF URANIUM METAL BASED ON ACTUAL WEIGHING AND ALSO AN OVERAGE OF ABOUT FIVE ONE FIVE POUNDS URANIUM METAL CONTAINED IN HIGH GRADE RESIDUES BASED ON IDENTIFICATION OF ITEMS AND URANIUM CONTENT AS RECEIVED TAKEN FROM SF SHIPPING FORMS PD THE ABOVE RESULTS IN A NET SHORTAGE OF ABOUT THREE TWO FOUR FIVE POUNDS OF URANIUM METAL FROM THE AMOUNT SHOWN ON THE

(Do not type below this line)

* Complete if CONFIDENTIAL (when originator deems it necessary) or if message bears higher classification. See additional instruction on reverse side.

(Insert classification)

ORO 54430

3

(Insert classification)

(Page Number)

U. S. ATOMIC ENERGY COMMISSION
CLASSIFIED MESSAGE

CONTINUATION SHEET

SIGNATURE OF CERTIFYING OFFICIAL

DATE OF MESSAGE

W. E. Boyer, General Manager

FROM:

USAEC, NEW YORK OPERATIONS OFFICE, NEW YORK, N.Y.

TO:

U.S. ATOMIC ENERGY COMMISSION
1901 CONSTITUTION AVENUE, N.W.
Washington, D.C.

ATTENTION: M. BOYER, GENERAL MANAGER
JOHN A WATERS, DIR. OF SECURITY
R. W. COOK, DIR. OF PRODUCTION

MESSAGE

(Must be typed double space and line length not to exceed 6 1/2")

PRIORITY

SF MATERIAL REPORT FROM THE TONAWANDA SUB-OFFICE FOR MAY THREE ONE CMA
ONE NINE FIVE TWO PD AS A RESULT OF THE METHODS OF ACCOUNTING CONTROL
USED THERE IS APPARENTLY NO POSITIVE METHOD OF RECONCILING RECEIPTS
AGAINST SHIPMENTS SINCE MATERIAL WAS NOT ALWAYS RECEIVED AND SHIPPED
BY EITHER THE SAME DESIGNATION OR WITH IDENTIFYING MARKS CMA IT IS
DOUBTFUL THAT FURTHER INVESTIGATION CMA WHICH IS BEING CARRIED ON BY
THIS OFFICE WILL RESOLVE THE SHORTAGE PD ~~ENDXXXXXXXXXXXX~~
NEW YORK FIELD OFFICE OF FBI HAS BEEN INFORMED OF THE FOREGOING AND
WILL BE KEPT ADVISED OF PERTINENT DEVELOPMENTS BY OUR SECURITY DIVISION
END REF PA:SG:en

Special Review
Final Determination
Unclassified

By: K. A. Walter
Date: 1980
T. F. Davis

(Do not type below this line)

(Insert classification)

11

3.1
2.232

C. Karl, Area Manager, Fernald Area, Cincinnati
Ohio
F. W. Malone, Chief, Tonawanda Sub Office

June 17, 1952

CORROSION OF NATIONAL LEAD RODS - LOOW

Loow

SYMBOL: TAD:FWM:amd

On June 13, 1952, we noticed that certain rods that were rolled, straightened and packed in steel "I" beams from the Bethlehem rolling of May 10, 1952, are now showing signs of corrosion. We reported this condition to Mr. Leo Harmon on June 13 and Mr. Audia on June 16.

Our experience in the past has been that once the rods start to show color that the pitting and corrosion of same follows very rapidly. My suggestion in this particular case is that the rods be removed from storage and used as soon as possible.

The building the rods are stored in appears to be a normal dry atmosphere and since we have had considerable long storage of rods in that building along with the fact that 4 beams of rods received in February for the National Lead account still show no signs of corrosion, I do not believe that the corrosion is a result of our storage.

cc: G. Wunder
S. Audia
R. J. Smith, Jr.

ASPH...
...
...
...
...

RECEIVED
JUN 20 1952
...

cat 7

D. C. Moore, Director, Engineering & Construction
Division, NYOO
F. W. Malone, Chief, Tonawanda Sub Office

June 17, 1952

REACTIVATION OF THE SPRINKLER SYSTEM - BLDG. 717 - LOOW

SYMBOL: TA:FM:mad

Loow
PLANTS, LABS., BUILDINGS & LAND 41

Our concrete vaults used for the storage of Uranium and Thorium rods and related scrap are presently filled to capacity. This necessitates our using Bldg. 713 for the storage of additional receipts and bulky shipments that cannot be stored in the vaults.

The sprinkler system that was installed in Bldg. 717 was reactivated by our maintenance group. This required the re-installation of the control valves and the re-opening of the outside shutoff valve. The line was then tested by opening of the testing valve installed in the building. From this test we are satisfied that we do have water in the lines and that the alarm system is in good working order.

Since this system has been out of commission for approximately 10 years, I believe that an inspection by one of your personnel should be made at this time to approve our reactivating of the sprinkler system.

cc: R. J. Smith, Jr.

AMERICAN
M.A.
1952 JUN 17 11 01 AM '52

RECEIVED
JUN 20 1952
FEDERAL BUREAU OF INVESTIGATION

63874

**Koenig, 1952a, *Shipment of Long Billets from Bendix*, correspondence to
J. P. Morgan; 1952**

NY 17

2.23.1

3.1

2.18.4

J. J. Koenig, Deputy Area Manager, St. Louis

FEBRUARY 1 1952
St. Louis
MATERIALS 3

J. P. Morgan, Chief, Staff Technical Branch,
Production Division, New York

SHIPMENT OF LONG BILLETS FROM BENDIX

SYMBOL: PM:JPM:man

~~CONFIDENTIAL DATA~~
~~...~~
an unqualified guarantee is not made.

This is in answer to your memorandum of January 25, 1952, requesting instructions regarding shipments of conditioned long billets from Bendix. The Allegheny rolling on February 8, 1952, will require only 160 of the long billets shipped from St. Louis January 23 and 25. The additional 5 billets plus the 60 long ingots that Bendix has in inventory should be shipped to Lake Ontario Ordnance Works.

The quantity of long billets to be conditioned should follow our scheduling memo of December 27, 1951, until such time as this memo is officially modified. We will however continue to advise you as to the actual number of billets required at Allegheny. All excess over and above this number should be sent to LOOW for storage. We are attempting in this way to build up a cushion of long conditioned billets at LOOW in an effort to try to smooth out the flow of this material.

CC: R. J. Smith, Jr.

CLASSIFICATION CANCELLED

~~OR CHANGED TO~~

BY AUTHORITY OF *CC*

BY *[Signature]* DATE *9/25/80*

P. J. Brown 9-24-80

~~CONFIDENTIAL DATA~~

NAME →	PRODUCTION				
NAME →	MORGAN <i>[Signature]</i>				
NAME →	<i>[Signature]</i>				

66860

**LOOW, January 1952, *Tonawanda Area Progress Report for January 1952*;
Lake Ontario Ordnance Works (LOOW); January 1952**

34

TOHANANDA AREA
PROGRESS REPORT
JANUARY 1952

SUMMARY

~~CONFIDENTIAL~~
SPECIAL REREVIEW
FINAL DETERMINATION
UNCLASSIFIED

By: *P. J. Brown*
Date: *4-3-84*

II OPERATIONS:

A. Production Division:

1. Uranium:

800 drums of K-65 sludge, the additional amount authorized, were dumped into the tower. This operation was completed January 2.

The last shipment of 314 salvaged scrap drums was made to Middlesex January 14. This brought the total shipped to 2166. The condition of the balance of scrap drums is considered too poor for salvage.

One carload of contaminated scrap from Harshaw Chemical Company received and unloaded.

To date 40 carloads of steel scrap have been shipped to CSA, at Diamond Magnesium Co., Luckey, Ohio, by Niagara Riggers, the contractor for this operation. This does not complete the 1000 tons authorized, but Diamond Magnesium has request a thirty-day interlude in order to relieve the congestion in their yards.

One box of samples from December Bethlehem rolling and one box of samples from AMF shipped to Argonne. One piece of sample rod shipped to Catalytic. One box of samples from January Allegheny rolling shipped to Hanford. 250 pounds of miscellaneous rods shipped to Note at Joslyn.

27 tons of AMF slugs received at LOOW for storage.

26 tons of Bendix billets shipped from storage at LOOW to Allegheny for January rolling.

55 tons of rods, billets and scrap received for storage at LOOW from January operations at Allegheny.

Two carloads of waste received for storage from Knolls Atomic Laboratory.

One combination fire-proof filing cabinet transferred to Vitro at Pittsburgh.

Hooker Case File
Env. Prot. Bureau
N.Y.S. Department of Law
New York, New York

FOIA MATERIALS FROM DOE

Roll 122

JANUARY 1968

II. PRODUCTION:

The authorized 800 drums of K-65 sludge were added to the lower section of the storage tower. Operations commenced November 29, 1951, and were completed January 2, 1952.

In accordance with instructions from Mr. A. Levine, NRC Engineering Division, arrangements were made to have a survey performed by W. Gidlow after the completion of dumping. A report of this survey was forwarded to NYCO directly by Mr. Gidlow. The survey indicated no serious changes in the settling of the tower.

Mr. Levine indicated that another 800 drums of K-65 will be dumped when approval of this survey report has been obtained. No apparent damage to the tower has resulted from the additional storage operations.

Arrangements were made to store two carloads of Bendix billets at LOOW pending rolling operations at Allegheny-Ludlum Steel Company. One carload of one hundred billets was received unloaded and stored. The second carload was diverted to Allegheny prior to arrival at LOOW. All billets were shipped to Allegheny for rolling operation of January 15.

All product, feed and scrap material from this rolling, approximately 53 tons, was received at LOOW on January 20 for storage. All product rods, approximately thirty tons, will be shipped to Bethlehem for rolling January 26 and 27. In addition, four tons of Simonds rods from December rolling will be transferred from LOOW to Bethlehem for this operation.

Arrangements have been made for LOOW trucks and personnel to haul finished material and scrap from Bethlehem to LOOW. Distribution to designated sites will be made from this point.

Approximately ten tons of the Bethlehem finished rods will be cut from twenty-foot lengths to six-foot pieces at LOOW, numbered, packed nine to a box, and shipped to Kansas City. The remaining two-foot pieces will also be boxed and shipped to Bendix. This cutting will be performed at LOOW and several minor alterations have been made to the present "rod cutting" building to accommodate this material. Fabrication of packing boxes is underway.

Twenty-seven tons of machined slugs or pins contained in fifty boxes have been received from AM&F for storage at LOOW. It is planned to store this material for Du Pont, a Savannah Operations Office contractor, until the required delivery date of April 1. These slugs are being stored in an isolated heated building.

Several boxes have been opened at random points of the storage pile to permit daily surveillance of this material for indications of "Sweating" and corrosion. A log is maintained of the building temperature each day and the material condition.

Special Review
Final Determination
Unclassified

By: K. A. Walter
Date: Aug. 6, 1980
I. F. Davis

CLASSIFICATION CANCELLED
ON CHANGED TO: *DR*
BY AUTHORITY OF: *DR*
DATE: *12/28/83*

65163

66862

**LOOW, March 1952, *Tonawanda Area Progress Report for March 1952*;
Lake Ontario Ordnance Works (LOOW); March 1952**

TONAWANDA AREA

PROGRESS REPORT

MARCH 1952

II. PRODUCTION:

K-65 sludge dumping operations were discontinued February 29, at the direction of R. Smith, as a result of the discovery of new cracks and leaks and the spread of old cracks on the outer surface of the storage tower. Mr. Frank Secchia of NYOO Engineering Division has advised LOOW that a representative will inspect the tower during the week of March 17th.

A total of 265 drums of K-65 sludge were dumped during the period from February 11 to 29, the start-up and shut-down dates for this second phase of dumping 800 drums or 200 tons. However, the tower was not operated continuously during this period. The length of time required to thaw material was increased due to severely cold weather, and the high radiation exposures received by all personnel as a result of the necessity of remaining at the top of the tower to shovel sludge out of the drums, were the chief factors which prevented continuous operation.

All material rolled at Bethlehem on February 17 was received and unloaded at LOOW on Sunday, February 18. Eighteen bundles of these rods were shipped to Hanford. Bundles 9 thru 14, 16 and 22 were shipped to Hanford from LOOW on February 19, and bundles 15, 17 thru 21, 23, thru 26 were included in a shipment from Simonds to Hanford. All of the two thousand and three thousand series rods were shipped to AM&F and the balance of the rods were shipped to Fernald with the exception of four beams of seven thousand series, 1.40 diameter, which have been retained in storage at LOOW pending shipping instructions.

Nine rods in the seven thousand series were sampled and distributed to Hanford, Argonne and Chalk River. Pieces C and F of these sampled rods are in storage at LOOW pending shipping instructions.

Forty-one bundles of 1-15/16 diameter oval billets and 23 ingots were received at LOOW from Allegheny on March 9. This material was inventoried and weighed in the presence of an NLO representative. The billets were shipped to Bethlehem via Kreuger Trucking Company on Thursday, March 13 for delivery at 7:00 A.M. Friday, March 14.

Five billets from the January operations at Bethlehem were also included in the shipment of March 13 for rolling March 15 at Bethlehem.

OFFICE ▶					
SURNAME ▶					
DATE ▶					

66863

**LOOW, November 1951, *Tonawanda Progress Report for November 1951*;
Lake Ontario Ordnance Works (LOOW); November 1951**

Hooker Case File
Env. Prot. Bureau
N.Y.S. Department of Law
New York, New York

Office Memorandum • UNITED STATES GOVERNMENT

TO : R. J. Smith, Chief, Operations Division, NYOO DATE: November 26, 1951

FROM : F. W. Malone, Chief, Tonawanda Sub-Office, Model City, N.Y.

SUBJECT: MONTHLY PROGRESS REPORT FOR NOVEMBER

SYMBOL: TA:GH

Townsh
COMMUNICATION & MANAGEMENT • 8-1

Enclosed is the Monthly Progress Report for November 1951 covering activities under the Tonawanda Sub-Office for this month.

*1 cc of memo to be kept
in file 12/15/51*

Encl.:
Summary & Report cys 1A & 2A

CC: F. W. Malone, cy 3A

WHEN SENT TO... HANDLE TH'S
... *unclassified*

This report contains information which is exempt from disclosure under the provisions of the Freedom of Information Act, 5 U.S.C. 552, and is being furnished to you for your information only. It is not to be disseminated outside your agency.

Special Review
Final Determination
Unclassified
By: K. A. Walker
Date: Aug. 6, 1988
T. F. Davis

TO FILE
NOV 30 1951

TONAWANDA AREA

PROGRESS REPORT

NOVEMBER 1951

SUMMARY

Tonawanda
ORGANIZATION & MANAGEMENT - 8/

II OPERATIONS:

A. Production Division:

1. Uranium:

Chute modifications at K-65 storage tower have been completed. Dumping operations at tower may be resumed in Spring 1952, or Hortonsphere may be accepted as a storage place for remainder of K-65 drums on hand.

Simonds has exceeded scheduled Hanford requirements for this month by one ton, and for the Fiscal Year to date has exceeded requirements by eleven tons.

A building has been designated for radium source storage and first sources are expected about December 1.

Uranium metal/^{and oxide} shipments were made to American Machine & Foundry, Brooklyn, Bridgeport Brass Company, Bridgeport, Argonne National Laboratory, National Lead Company, Fernald Area, Westinghouse Atomic Power Laboratory, Simonds Saw & Steel Company, Cincinnati Airport, Cannonsburg, Pa.- Vitro, and Mallinckrodt.

Uranium sludge shipment was made to Vitro at Jersey City, N.J.

Uranium metal rods, oxide and scrap were received at LOON from Allegheny-Ludlum; Simmons, Albany; Bethlehem, Lackawanna; Knolls Atomic Power Laboratory at Schenectady, Massachusetts Institute of Technology, Cambridge, Birdsboro Foundry, and Hanford Operations Office.

2. Thorium:

Special Review
Final Determination
Declassified

By: K. A. Walker
Date: Aug. 6, 1983
J. F. Davis

40 billets were received for rolling at Simonds this month. Four of these were shipped to Brush for experimental work. Thirty-six were rolled at Simonds and shipped to Brush, Cleveland.

12 billets have been received for the December rolling, from Ames Area.

CLASSIFICATION CANCELLED
OR CHANGED TO
BY AUTHORITY OF DGC
BY *KAW* DATE *1/72*
DATE *1972*

SECURITY INFORMATION

TONAWANDA AREA

CONGRESS REPORT

NOVEMBER 1951

~~SECRET~~

II. PRODUCTION:

Approximately six tons of rods packed in steel "I" beams which had been rolled at Simonds in September and stored at LOOW were shipped to AM&F, Brooklyn. Also, eight 1 1/16" D. rods packed in two steel "I" beams, from Bethlehem rolling No. 5 were shipped from LOOW storage to AM&F on November 21.

Approximately twenty-five tons of rods from Simonds October production which had been stored at LOOW, were shipped to Bridgeport Brass Company in three shipments. The remaining fifteen tons are scheduled to be shipped in two shipments to be delivered at Bridgeport on December 8th and 15th. This will complete the delivery of material required for the ANL Critical Experiment to be furnished from Simonds rolling operations.

One box of samples from the last Bethlehem rolling was shipped to Argonne National Laboratory and three boxes of samples were shipped to National Lead Company, Fernald Area, from LOOW storage.

Seventy-five pounds of uranium rods of various diameters and lengths were shipped to Westinghouse Atomic Power Laboratory, Homestead, Pa., from storage at LOOW.

Eight "scalped" billets received at Simonds in October from Bendix Aviation Corporation, Kansas City, were stored at LOOW until the November operation and then returned to Simonds for processing.

Four special diameter rods shipped to Fred Stroke at Cincinnati for experimental work were returned to LOOW for storage from Fernald Area.

Sixty drums containing approximately sixteen tons of wet oxide accumulated from Simonds rolling operations were shipped to Vitro Corp., at Cannonsburg, Pa., from LOOW, to be dried and forwarded to Mallinckrodt for recovery.

A half-pound composite sample of dry oxide accumulated from Simonds rolling operations, was sent to Mallinckrodt for analysis. It is intended to ship the dry oxide to MCW for recovery if the analysis is satisfactory. However, results of the analysis have not as yet been received.

Special Review
Final Determination
Unclassified

By: K. A. Walter
Date: Aug. 6, 1969
T. F. Davis

A half ton of L-19 samples collected at the Haist Property by A. Lindroos was shipped to Vitro Corp., at Jersey City, N.J., for pilot plant processing.

The salvaged material from Simonds September operations has been cut and packed at LOOW and is being held pending receipt of shipping instructions.

ALL INFORMATION CONTAINED
HEREIN IS UNCLASSIFIED
DATE 11/17/72 BY KAW

CLASSIFICATION CANCELLED
OR CHANGED TO
BY AUTHORITY OF USC 1772
BY KAW DATE 1972

TONAWANDA PROGRESS REPORT

November 1951

Special metal billets and rods were selected from storage at LOOW and prepared for experimental work at Simonds Saw & Steel Company and Bethlehem Steel Company, conducted by Gifford Briggs of NYOO. Upon completion of tests the material was returned to storage at LOOW.

Two trips were made by LOOW personnel to transfer scrap oxide and turnings from Alleghany-Ludlum and Simmons to LOOW for storage.

Thirteen bundles of cobbled rods and four drums of scrap from the last Bethlehem rolling were transferred to storage at LOOW by personnel from this site.

Approximately 300 pounds of rods were received from Knolls Atomic Power Laboratory at Schenectady, for storage at LOOW.

Approximately 5,000 pounds of scrap oxide and ten tons of scrap metal were received at LOOW for storage from Simonds October operations.

Thirty-five hundred pounds of scrap ends were received for storage at LOOW from AM&F operations. Four boxes of rods were also received from the same consignor.

Nine hundred and fifty pounds of machined slugs were received from Massachusetts Institute of Technology, Cambridge, Mass., for storage at LOOW.

Eight assorted pieces of billets weighing 346 pounds were received for storage from Birdsboro Foundry & Machine Company.

Eleven tons of rods were received for storage from Alleghany-Ludlum at Watervliet, due to the cancellation of the Bethlehem rolling operations scheduled for November 18th.

Six rods weighing approximately 650 pounds were received at LOOW for storage from Hanford Operations Office.

Two carloads of scrap iron (contaminated) were received from Mallinckrodt.

THORIUM

Forty thorium billets were received in spasmodic shipments during the month from Ames Area. Four of these billets were shipped to Brush Beryllium Company, Cleveland, Ohio, and the remaining thirty-six were shipped to Simonds Saw & Steel Company for rolling on November 19th. The product rods, approximately one ton, were shipped to Brush Beryllium Company, Cleveland, Ohio, November 23.

A partial shipment of twelve billets for the Simonds December rolling has been received at LOOW from Ames Area.

CLASSIFICATION CANCELLED
OR CHANGED TO _____
BY AUTHORITY OF _____
BY *N. All.* DATE *12.7.51*

Special Review
Final Determination
Unclassified
By: R. A. Walter
Date: Aug. 8, 1988
J. F. Cois

TONANANDA PROGRESS REPORT

November 1951.

K-65 dumping operations have not been resumed at LOOW. Since Dumping operations cannot be resumed in the present storage tower until Spring of 1952, depending on settling conditions, the NYO Engineering Division has proposed an alternative storage facility for the remainder of the material now stored on the roads. The "Hortonsphere" is located approximately 300 yards from the present storage tower and has a five thousand drum capacity. The approval from African Metals Corp. will be obtained by the NYO Raw Materials Division if the proposal is accepted.

The chute in the present storage tower was modified to provide additional loading of the lower section if permission is received to store additional material in this facility. Monthly surveys of the tower will be performed to observe possible settling.

Representatives of AEC Schenectady and the Knolls Atomic Power Laboratory visited LOOW to select a possible storage site for plutonium and uranium waste disposal from KAPL. It has been proposed to store the waste in the former "Fire Hall" upon arrival and gradually dispose of it by burning it in the incinerator.

W. Bistyga of the Raw Materials Division, NYO, inspected possible storage sites at LOOW for the storage of radium sources. This Division and L. C. Burman, License Director, have advised this office that the "Hose Building" has been selected as suitable for the storage of these sources, and that the first sources will arrive approximately December 1.

Arrangements have been made with NYO Health & Safety Division to perform periodic radon surveys at LOOW after the commencement of the radium source storage program.

A quarterly accountability report of the sources will be required by NYO in accordance with GM 173.

Mr. Levine of NYOO Engineering Division, accompanied Mr. G. W. Stabe of the Fuller Construction Company on an inspection of surplus buildings at LOOW for the purpose of selecting and raising those that could yield salvageable steel for use at Fernald Area. Several prospective bidders were contacted and indicated their willingness to undertake this work. The successful bidder is expected to start this program within two weeks and complete it in six weeks.

Special Review
Final Determination
Unclassified

By: K. A. Walter
Date: Aug. 6, 1980
T. F. Gaws

CLASSIFICATION CANCELLED
OR CHANGED TO
BY AUTHORITY OF DOC 11772
BY KAW DATE 1278

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Env. Prot. Bureau
N.Y.S. Department of Law
New York, New York

TONAWANDA PROGRESS REPORT

November 1951

CLASSIFICATION CANCELLED
OR CHANGED TO
BY AUTHORITY OF DEC 11/72
BY KAW DATE 1978

SIMONDS SAW & STEEL COMPANY

The November rolling operations at Simonds began as scheduled on the 19th.

327,115 pounds or approximately 164 tons of billets were received. 61,355 pounds or 31 tons of these billets were "turned ingots" from Bendix Aviation Corporation at Kansas City, Mo., and the balance were regular virgin Mallinckrodt material.

Hanford requirements for the Fiscal Year 1951 to date are 653 tons. This requirement has been met and exceeded by 11 tons.

<u>Month</u>	<u>HGE Req'm't</u>	<u>SSS Supplied</u>	<u>TOA Supplied</u>	<u>Total Supplied</u>
July '51	113 tons	None	171 tons	171 Tons
Aug. "	113 tons	108 tons	None	108 "
Sept. "	133 tons	48 "	54 "	102 "
Oct. "	147 tons	59 "	76 "	135 "
Nov. "	147 tons	148 "	None	148 "
	653 tons	363 tons	301 tons	664 "

A decrease in the number of billets worked per hour at Simonds will increase the mill time considerably over the time formerly required to provide the same amount of production. This change in production procedure was authorized by R. Stanford, NYO representative.

J. Koenig of St. Louis AEC and Dr. Keller of MGN observed the rolling operations at Simonds on November 19 and 20.

The next operation at Simonds is scheduled for December 17th.

HEALTH & SAFETY:

A Hearing was held by the New York State Compensation Board on the Fortun and Weber cases. An AEC representative attended the Hearing to prevent security information from being discussed.

ADMINISTRATION:

Herman Baum, NYOO representative, visited LOOW to perform an inventory of all equipment in use at this site including office furniture and equipment. He also performed a complete inventory of all Government property at the Electromet Area Plant.

Special Review
Final Determination
Unclassified

Tom Green, NYO, performed a routine periodic inspection of all motorized equipment at LOOW. Upon completion, he indicated that the equipment was
By: K. A. Walter
Date: Aug. 6, 1988
T. F. Davis

TONAWANDA PROGRESS REPORT

November 1951

being utilized and maintained satisfactorily. A recommendation was made that the former Army trailer and the 1941 Chevrolet truck be disposed of to Fernald Area. It was decided to repair and retain the truck, but the trailer will be shipped prior to the end of this month.

Mr. Riley, NYO Job Analyst, performed a review of clerical positions at this office.

Five contaminated furnaces, surplus at Mallinckrodt were received at LOOW for storage.

One Fairbanks platform scale was shipped to Brush Beryllium Co., Luckey, Ohio, from LOOW surplus.

A tank furnace approximately 9' x 6' procured from Bethlehem Steel Company was shipped from LOOW to Allegheny-Ludlum Steel Company at Watervliet for use in their recent rolling operation. A Brewer "Tornado" vacuum-cleaner from LOOW surplus was included with this shipment.

One steel executive type desk and a swivel chair were shipped to Cleveland Area Office from LOOW surplus.

One oak executive type desk was shipped to Western Reserve University at Cleveland, Ohio, at the request of the Cleveland Area Office.

GSA has requested bids on the removal of the steel scrap from LOOW for shipment to Diamond Magnesium Co., but the contract award has not been made as yet.

Colonel Welte, Major General P. W. Rutledge and Brigadier General H. F. Myers, inspected the "box factory" and the telephone building at LOOW for possible use in the establishment of the proposed anti-aircraft base.

IMPORTS & EXPORTS:

Four radium sources were imported from Eldorado, one for the University of Chicago, one for Columbia University, and two for Argonne National Laboratory.

One carload of ore was imported from Eldorado for Hershaw, Cleveland.

Special Review
Final Determination
Unclassified

Fifteen drums and two boxes of Beryllia Hexagons were imported in five separate shipments from Norton Co., for Carbide & Carbon, Oak Ridge.

By: E. A. Walker
Date: Aug. 6, 1969
I. F. Davis

A ten pounds sample, one small drum and ten regular drums of Beryllium oxide were exported to Norton Company in three shipments for Brush Beryllium Co., Luckey, Ohio.

One package of instruments was exported to Eldorado for NYOO.

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OR CHANGED TO
BY AUTHORITY OF Doc. 11770
BY: [Signature] DATE: 12/28

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