

United States Government

OH.49-2

W. Weston
Department of Energy

memorandum

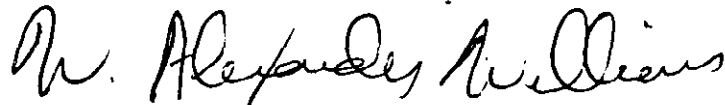
FLICRAP 7609 (OH.49)
11/21/1

DATE: AUG 12 1991
REPLY TO: EM-421 (J. Wagoner, 3-8147)
ATTN OF:
SUBJECT: Elimination of the Duriron Company Site

TO: The File

I have reviewed the attached site summary and elimination recommendation for the Duriron Company Site in Dayton, Ohio. I have determined that there is little likelihood of radioactive contamination at this site.

Based on the above, the Duriron Company Site is hereby eliminated from further consideration under the Formerly Utilized Sites Remedial Action Program.


W. Alexander Williams, PhD
Designation and Certification Manager
Off-Site Branch
Division of Eastern Area Programs
Office of Environmental Restoration

Attachment

END COPY

bcc:
Weston
EM-40 (2)
EM-42 (3)
Williams Reader

WJ

EM-421:wagoner:djh:353-8147:8/12/91:elim.waw

P. Hevner Review: _____

Williams
EM-421 *WAW*
8/12/91
WJ
Wagoner
EM-421
8/12/91

OTS NOTE

DATE: July 15, 1991
TO: Alexander Williams
FROM: Dan Stout ^{JS}
SUBJECT: Duriron Elimination Recommendation

The attached memorandum and supporting documents are the basis for our recommendation to eliminate the Duriron Company site from further consideration under FUSRAP.

FUSRAP records from 1945 note the Duriron Company, of Dayton, Ohio, was a subcontractor on the Y-12 construction project. In 1952, the Duriron Company was the recipient of one ton of contaminated scrap nickel which was shipped from the Lake Ontario Storage Area in New York. The nickel was to be used to manufacture stainless steel piping for Fernald construction. It is likely that wartime metal shortages necessitated using the contaminated nickel in order to maintain construction schedules. No other records have been discovered which discuss the Duriron Company or handling of radioactive materials.

Nickel used in stainless steel typically constitutes from one to ten per cent of the final product. Thus, the contaminated nickel was diluted during processing. Little waste should result from the alloying operation. The possibility of residual radioactivity at either Duriron or in the piping is considered unlikely. In fact, a recipient of two tons of the contaminated nickel, Jessop Steel, has been surveyed under FUSRAP. No contamination in excess of guidelines was detected at Jessop Steel (Jessop also conducted uranium rolling operations). As residual contamination at Duriron is considered very unlikely, we recommend the site be eliminated from further consideration as a candidate for remedial action under FUSRAP and be removed from the FUSRAP considered sites list.

cc: C. Young
E. Mitchell
file FUSRAP OH.0

MEMORANDUM

TO: FILE - 04.0

DATE 6/24/91

FROM: D. Stout

SUBJECT: Elimination Recommendation For Duriron Co.

SITE NAME: Duriron Co. ALTERNATE NAME:

CITY: Dayton STATE: OH

OWNER(S) Past: unknown Current: Owner contacted [] yes [] no; if yes, date contacted

TYPE OF OPERATION

- [] Research & Development [] Facility Type [] Production scale testing [] Manufacturing [] Pilot Scale [] University [] Bench Scale Process [] Research Organization [] Theoretical Studies [] Government Sponsored Facility [] Sample & Analysis [] Other

- [x] Production [] Disposal/Storage

TYPE OF CONTRACT

- [] Prime [] Subcontractor [] Purchase Order [] Other information (i.e., cost + fixed fee, unit price, time & material, etc)

Contract/Purchase Order #

CONTRACTING PERIOD:

OWNERSHIP:

Table with 7 columns: AEC/MED OWNED, AEC/MED LEASED, GOVT OWNED, GOVT LEASED, CONTRACTOR OWNED, CONTRACTOR LEASED. Rows include LANDS, BUILDINGS, EQUIPMENT, ORE OR RAW MATL, FINAL PRODUCT, WASTE & RESIDUE.

Material was Nickel slag

AEC/MED INVOLVEMENT AT SITE

Control

- AEC/MED managed operations
- AEC/MED responsible for accountability
- AEC/MED overviewed operations
- Contractor had total control
- unknown

Health Physics Protection

- Little or None
- AEC/MED responsibility
- Contractor responsibility

MATERIALS HANDLED:

Type (on basis of records reviewed)

- No Radioactive
- Natural Radioactive from Feed Materials Production
 - Ore
 - Refined Source Material
 - Residue
- Natural Radioactive Material from Non-Nuclear Activities
- Man-Made
- Other Scrap Nickel

Comment Material was contaminated

Quantities (on the basis of records reviewed)

- None
- Production Quantities
- Small Amounts

Comment 1 ton of scrap nickel processed

OTHER PERTINENT FACTS:

- Facility was Licensed
 - During AEC/MED-Related Operations
 - For Similar Activities
 - For Other Activities

Comment _____

Commercial Production Involving Radioactive Material during AEC/MED Operations

Facility was Decontaminated and Released

Availability of Close Out Records

- None
- Some
- Sufficient

Radioactive Status:

	YES	MAYBE	PROBABLY NOT	NOT
Contaminated Potential for Exposure (accessible)	---	---	X-	---
	---	---	---	X

QUANTITY OF RECORDS AVAILABLE:

- Very Little Some Sufficient

PROBABILITY OF FINDING ADDITIONAL RECORDS:

- Low Possible High

RECOMMENDATIONS:

- Eliminate
 Consider for Remedial Action
 Collect More Data

Comment Nickel was used to produce stainless steel,
little likelihood of remaining material

REFERENCES: - Cleveland Office, Manhattan Engineer District, list
of contractors.
- W.B. Harris memo to G. Carney, 11/10/1952, contaminated
Nickel trays at LOSA
- A. Carney memo to R. Hershman, 12/2/1952, Transfer
of Nickel Scrap
- Tonawanda area monthly progress report for December,
1952

SUMMARY Records list shipment of 3 tons of contaminated
scrap nickel; one ton was shipped to Position.
It is likely that valuable metals were in short
supply due to Korean war. The AEC arranged
to use the contaminated nickel in stainless steel
production for Fernald construction. As nickel is
used in stainless steel at less than 10%o
quantities, it is unlikely that resulting steel is
contaminated, and little waste should be generated
from the nickel melting. Small quantity
and one-time operation appears likely due
to available records.

~~SECRET~~

CLEVELAND OFFICE

15 May 1945

PMS	RTG	CTR	
X	c	11	Acklin Stamping Co., Toledo, Ohio.
X	b	12	Allis-Chalmers Mfg. Co., Norwood, Ohio.
X	b	11	American Welding & Mfg. Co., Detroit, Mich.
XIX	a	4	Babcock & Wilcox, Barberton, Ohio.
X	c	2	Battelle Memorial Institute, 505 King Ave., Columbus, Ohio.
XIX	c	4	Brush Beryllium Co., 3714 Chester Ave., Cleveland, Ohio.
XIX	c	4	Brush Beryllium Co., Lorain, Ohio.
X	b	11	Canton Drop Forging Co., "Plant # 2", Canton, Ohio.
XIX	c		Cleveland Area Office, 401 Euclid Ave., Cleveland, Ohio.
IX	c	4	Clifton Products Co., Painesville, Ohio.
X	b	1	Duriron Co., Dayton, Ohio.
X	c	1	Emerson-Scheuring Tank & Mfg. Co., Indianapolis, Ind.
X	c	14	Esterline-Angus Co., Indianapolis, Ind.
S	c	14	Ferguson, H. K. Co., Inc., Hana Bldg., Cleveland, Ohio.
X	b	5	Firestone Tire & Rubber Co., Akron, Ohio.
X	c	6	General Electric Co., "Wire Works Division", Euclid, Ohio.
X	c	6	General Electric Co., "Glass Technology Laboratory", Cleveland, Ohio.
X	c	7	Grasselli Chemicals Department "Experimental Lab", 3092 Broadway, Cleveland, Ohio.
XIX	a	4, 13	Harshaw Chemical Co., "Denison Plant", 1000 Harvard Ave., S. W., Cleveland, Ohio.
XIX	c	4, 5	Harshaw Chemical Co., "Office & Lab Group", 1945 East 79th St., Cleveland, Ohio.
X	a	5, 11, 12	International Nickel Co., Huntington, W. Va.
X	c	2, 4	Joslyn Mfg. & Supply Co., 1701 McKinley Ave., Fort Wayne, Ind.
X	c	5	McGean Chemical Co., 2910 Harvard Ave., Cleveland, Ohio.
X	c	5	McGean Chemical Co., "Republic Bldg.", 29 Prospect Ave., N. W., Cleveland, Ohio.
X	b	11	Metal Forming Co., Elkhart, Ind.
X	a	2	Monsanto Chemical Co., "Unit III", 160 West 1st St., Dayton, Ohio.
X	a	2	Monsanto Chemical Co., "Unit IV", Oakwood, Ohio.
P	b	14	Morgantown Ordnance Works "AT Plant", Morgantown, W. Va.
X	a	6, 14	National Carbon Co., Phillipl Road, Amore, W. Va. (Clarksburg, W. Va.)
X	c	6, 14	National Carbon Co., "Laboratory", W. 73rd St., Cleveland, Ohio.

~~SECRET~~

DECLASSIFIED

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

FOIA MATERIALS FROM DOE

ROLL 121

Gus Carney, Chief, Property Branch
Administrative Operations Division

November 10, 1952

W. B. Harris, Acting Director
Health & Safety Division

CONTAMINATED NICKEL TRAYS AT LOSA.

SYMBOL: HSR:EB:ms

In connection with the memorandum from Merrill Eisenbud to Gus Carney, dated November 6, 1952 concerning the release of contaminated nickel trays at LOSA, the Health & Safety Division would like about 20 to 25 samples of the trays. These samples should be about 1" to 1 1/2" square, and should be sent to Mr. E. V. Barry, of this Division.

CC: H. Hershman, Chief, Tonawanda Sub-Office

*Sub -
24 sent 11/12/52*

NOVEMBER 12 1952

Office Memorandum • UNITED STATES GOVERNMENT

TO : R. Hershman, Chief, Tonawanda Sub-Office

DATE: DECEMBER 8 1962

FROM : A. F. Carney, Chief, Property Division
New York

SUBJECT: TRANSFER OF NICKEL SCRAP

SYMBOL : N:JFC:jk

It is requested that two (2) tons of nickel scrap be shipped to:

Jessup Steel Company
Washington, Pennsylvania
Attention: Mr. Vic Miscio

This scrap will be used in the fabrication of stainless steel pipe for use at our Fernald Area and in conformance with a memo request dated 11/13/52 from the George A. Fuller Co. to Engineering Division, New York Operations Office.

Shipment should be made via fast motor freight, collect.

Transfer is to be made on an inter-office basis at a transfer price of \$1800.00 to be charged to the George A. Fuller Contract AT-(30-1)-1145.

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

FOIA MATERIALS FROM DOE

Roll 122
PA. 38
PA. 17
NY. 26
NY. 17
OH. 2
OH. 18
OH. 48

~~CONFIDENTIAL~~
Office Memorandum • UNITED STATES GOVERNMENT

TO : R. J. Smith, Jr., Assistant Director, Operations
Branch, Production Division, NYOO
DATE: December 22, 1952
FROM : H. J. Hershman, Chief, Tonawanda Sub-Office *HJH*
SUBJECT: TRANSMITTAL OF MONTHLY PROGRESS REPORT FOR DECEMBER
SYMBOL: TA:GE

Tona
DOCUMENTATION & MANAGEMENT 4-1

Enclosed is the Monthly Progress Report for December 1952 covering activities under the Tonawanda Sub-Office for this month.

Encl.:
Report and Summary cys 1A and 2A

Revised
1/14/53
w/ cc memo

WHEN SEPARATED FROM ENCLOSURES
HANDLE DOCUMENT AS UNCLASSIFIED

~~CONFIDENTIAL~~
This document 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 distributed outside your office.

Special Review
Final Determination
Unclassified
By R. A. Walter
Date: Aug. 6, 1980
T. F. Deas

classified

SEARCHED
SERIALIZED
INDEXED
FILED

TO FILE
JAN 14 1953

File
1/14/53

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

FOIA MATERIALS FROM DOE

Roll 122

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TONAWANDA AREA
THIS DOCUMENT CONTAINS 1 PAGE(S)
NUMBER 1 OF 4 DOCUMENTS SERIES A

PROGRESS REPORT

DECEMBER 1952

SUMMARY

CLASSIFICATION CANCELLED
OR CHANGED TO
BY AUTHORITY OF *Dis. 12/72*
BY *N.A.W.* DATE *1978*

II OPERATIONS:

1. Uranium:

400 tons of uranium ingots rolled at Simonds beginning December 4. 180 tons shipped to Fernald and balance to Hanford. Next rolling scheduled for January 12. 100 tons scheduled to be rolled.

Sampling of all materials at Haist Property and L-30 in Water Treatment Area have been completed. Balance of material in Water Treatment Area will be sampled in January. 115 samples have been shipped to New Brunswick Laboratory for analysis.

Latest SF Accountability Manual submitted to NYOO.

2. Thorium:

Four tons of thorium ingot shipped from LOOW to Simonds for rolling. One ton of rod was shipped to Brush Beryllium Co and three tons to AM&P. Four tons of ingots received at LOOW from Iowa State College for storage.

A discrepancy in thorium accountability was discovered and reconciled.

III ADMINISTRATION:

5 carloads of contaminated scrap from Mallinckrodt were received and unloaded at LOOW.

Complete physical inventory of supplies and equipment at Linde and Electromet Standby Plants was accomplished by the Tonawanda Area, NYO Property Management Section and NYO Health & Safety Division jointly.

3 tons of contaminated scrap nickel shipped to Duriron and Jessup Steel Companies.

Sly Dust Collector removed from Linde Step III plant and shipped to Fernald Area.

Special Review
Final Determination
Unclassified

By K. A. Walter
Date Aug. 6, 1970
J. F. Davis

~~CONFIDENTIAL~~

ORO 65155

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

FOIA MATERIALS FROM DOE

BOLL 122

REPRODUCTION PROHIBITED

THIS DOCUMENT CONTAINS OF 3 PAGE 3
NUMBER 1 OF 4 PAGES SERIES A

TONAWANDA AREA
PROGRESS REPORT
DECEMBER 1952

CLASSIFICATION CANCELLED
OR CHANGED TO
BY AUTHORITY OF *DOCS 1172*
BY *K. A. W.* DATE *1978*

II PRODUCTION:

1. Uranium:

Uranium rolling operations started at Simonds Saw & Steel Company on December 4th. Approximately 400 tons of uranium ingots were rolled. Of this quantity about 180 tons were shipped to Fernald and the balance to Hanford. The last of the NLO ingot in storage at LOSA was shipped to Simonds to be included in this rolling.

A Health Radon Survey was made by the NYOO Health & Safety Division during this rolling.

The next rolling operation is scheduled at Simonds Saw & Steel Co. for January 12, 1953. The present schedule calls for only 100 tons to be rolled.

2. Sampling of Waste Residues:

The Process Development Branch of the NYOO Production Division has planned the complete sampling of all uranium waste residues in storage at the Haist Property and in the Water Treatment Area at the LOSA. Sampling of the sludges started early in December under the direction of Richard Brief, a representative of the Process Development Branch.

The Haist Property has been completed as well as L-30 at LOSA. The remaining materials are scheduled for completion in January 1953. One hundred fifteen samples have been submitted for analysis to the New Brunswick Laboratory. Results will be compared with those samples taken last year by the Kellix Division of Vitro.

Copies of the latest SF Accountability Manual have been submitted to the SF Accounting Branch of the New York Operations Office.

3. Thorium:

Four tons of thorium ingots were removed from storage at LOSA and rolled at Simonds Saw & Steel Company. One ton of rolled rod was shipped to Brush Beryllium Company for extrusion and three tons to the American Machine & Foundry Company at Brooklyn for machining. The NYOO Health & Safety Division conducted special air radon measurements during the thorium rolling.

REPRODUCTION PROHIBITED

REPRODUCTION PROHIBITED

Special Review
Final Determination
Unclassified

By: K. A. Watter
Date: Aug. 6, 1980
T. F. Davis

ORO 62155

Tonawanda Area Progress Report

-2-

December 1952

Four tons of thorium ingots were received from Iowa State College for storage at LOSA. Included in this material was one large sized ingot being held for special rolling study.

Effective January 1, 1953, all shipments of thorium from Iowa State College are scheduled to be delivered to Fernald Area.

During the monthly inventory, a discrepancy was found between the physical and book inventory for thorium metal ingot. This discrepancy had been carried since last April and was adjusted this month. The discrepancy was not adjusted books until all shipping papers from Iowa State College were reconciled.

III ADMINISTRATION

Five carloads of uranium and radium contaminated scrap were received from the Mallinckrodt Chemical Works refinery and unloaded by LOOW personnel. Since an effective program was inaugurated by the Health & Safety Division for the contractors' sale in the open market of slightly contaminated steel, only greatly contaminated metal was received this time from Mallinckrodt.

Complete physical inventory of standby equipment and supplies in the Linde and Electro Met plants were completed this month. The NYOO Property Management Section surveyed the equipment as to condition and fair value, while the Health & Safety Division surveyed the degree of contamination. The results of the survey will determine our negotiations covering either dismantlement or abandonment of the facilities.

Three tons of contaminated scrap nickel were shipped to the Duriron and Jessup Steel Companies to be used in manufacturing vitally needed equipment for the Fernald Plant. Special handling instructions for this contaminated material have been forwarded to the steel processors by the Health & Safety Division.

A Sly Dust Collector was removed from the Standby Linde Plant and shipped to the National Lead Company of Ohio at Fernald. The dust collector was necessary to meet a production schedule for the burning of non-specification grade metal scrap.

All recommendations made as a result of a Fire and Accident Survey last month have been complied with. The fire engine has been checked and found to be in good working order, and emergency instructions provided in the use of sprinkler systems drained for the winter to prevent freezing.

Special Review
Final Determination
Unclassified

By: K. A. Walter
Date: Aug. 8, 1960
T. F. Davis

Roll 122

Tonawanda Area Progress Report

-3-

December 1952

IV SECURITY

A reciprocal guard security system has been inaugurated with the Bell Aircraft Corporation Plant adjacent to our property. The reciprocal system provides additional security and permits immediate AEC notification in the event of emergency or accident to the guard patrol.

V IMPORTS & EXPORTS

One radium source E 862 was imported for National Bureau of Standards in Washington, D. C.

One radium source E 1272 was imported for Rensselaer Polytechnic Institute, Troy, New York

One carload of ore was imported from Eldorado for Mallinckrodt Chemical Works.

10 mc of radium nitrate crystals in a glass vial was imported from Eldorado for Argonne National Laboratory, Lemont, Illinois.

Special Review
Final Determination
Unclassified

By: K. A. Walsh
Date: Aug. 6, 1990
T. F. Davis



OFF 49A21

John Herman

Department of Energy

Washington, DC 20585

JAN 27 1995

OFF 49

The Honorable Michael Turner
101 W. Third Street
Dayton, Ohio 45041

Dear Mayor Turner:

Secretary of Energy Hazel O'Leary has announced a new approach to openness in the Department of Energy (DOE) and its communications with the public. In support of this initiative, we are pleased to forward the enclosed information related to the former Duriron Company site in your jurisdiction that performed work for DOE or its predecessor agencies. This information is provided for your information, use, and retention.

DOE's Formerly Utilized Sites Remedial Action Program is responsible for identification of sites used by DOE's predecessor agencies, determining their current radiological condition and, where it has authority, performing remedial action to meet current radiological protection requirements. A conservative set of technical evaluation guidelines is used in these investigations to assure protection of public health, safety and the environment.

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for

The DOE has studied the historical records of the former Duriron Company site and we have concluded that further investigations of the site are not necessary because of the limited scope of the activities performed there.

Even though additional involvement by DOE is not necessary at this site, we are prepared to respond to any concerns you may have.

If you have any questions, please feel free to call me at 301-427-1721 or Dr. W. Alexander Williams (301-427-1719) of my staff.

Sincerely,

James W. Wagoner II
Director
Off-Site/Savannah River Division
Office of Eastern Area Programs
Office of Environmental Restoration

Enclosures

cc:
Duriron Company, Dayton, OH
R. Owens, Ohio Bureau of Radiological
Health

