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New

MEMORANDUM

TO: FILE

DATE 11/3/87

crj

FROM: Andrew Wallis III

SUBJECT:

SITE NAME: Midwest Manufacturing Co. ALTERNATE NAME:

CITY: Galesburg STATE: IL

OWNER(S) Past: Midwest Mfg. Co. Current: Owner contacted [] yes [x] no; if yes, date contacted

TYPE OF OPERATION

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

TYPE OF CONTRACT

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

Contract/Purchase Order #

CONTRACTING PERIOD: Early 1940's (Met Lab Personnel used site equipment)

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.

It is not clear from the records if uranium was used here or if the work just involved preparation of Aluminum Jackets for uranium. However, it is probable that some experimental attempts at the preparation of sheets and Al jacketing of Uranium were done by Met Lab at the site.

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

Comment Some uranium may have been brought to the site for jacketing experiment. The limited records suggest only a few pieces would have been involved.

Quantities (on the basis of records reviewed)

- None
- Production Quantities
- Small Amounts

Comment It is not clear but some uranium may have been jacketed at this site by MET LAB personnel

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 Some experiments involving jacketing uranium may have been conducted here but there is no potential for exposures from this operation. Lack of records suggest no production work was completed at this site.

REFERENCES:

Attached

SUMMARY Records indicate MED/METALLURGICAL LABORATORY may have used this site to conduct experiments involving sheet deep drawing of sheets and Aluminum jacketing of Uranium. The scope of the work was experimental involving very small amounts of normal Uranium and the MET LAB would have maintained control of the Uranium at all times. Based on this analysis and MET LAB operating practices described in the MED history, there is no potential for exposures in excess of guidelines from these operations.

MIDWEST MFG, Galesburg, IL

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11/03/87

DATE	FILE#	FROM	TO	SUBJECT	SITES	BOX #
04/26/43	3.1CHD	DOAN, R.	CHIPMAN, J.	EXPERIMENTAL WORK AT OUTSIDE COMPANIES (ATTACHMENT IS A LIST OF COMMERCIAL FIRMS THAT DEALT WITH METALLURGICAL LAB ALSO ATTACHED IS LETTER DTD 4/26/43 DOAN TO CHIPMAN RE:EXPERIMENTAL WORK AT OUTSIDE COMPANIES)	WOLVERINE, PRATT, JOSLYN, MIDWEST MFG, GLOBE STEEL, ALCOA, B&T, SUMMERILL, INTERNATIONAL REGISTER, WYCOFF DRAWN STEEL, DOW	MLRF 1945
04/23/43	3.1CHD	CHIPMAN, J.	DOAN, R.	LIST OF COMMERCIAL FIRMS DEALING WITH MET LABS (ATTACHED TO 4/26/43 LETTER DOAN TO CHIPMAN IN FILE 3.1CHD)	WOLVERINE, W.E. PRATT, JOSLYN, MIDWEST MANF. CO., GLOBE STEEL, ALCOA, B&T METALS, SUMMERILL, INTERNATIONAL REGISTER, WYCOFF (WYCKOFF), DOW	7X 3763

Summary of memo to J.C. Sterns from the Methods and Materials Section of the MET LAB, Dated November 7, 1944

This memo describes 5 areas of study defined by the Methods and Material section that are important to the development of nuclear power:

- Phases of special materials and their alloys
- Fabrication
- Corrosion
- Heat Transfer and Fluid Flow
- Special Physical Tests

In the first area, several Federal agencies and laboratories plus Educational institutions are listed. All of these were addressed in other FUSRAP investigations.

Fabrication is the only area where names of contractors are listed that have experience or equipment that could be used.

Extrusion work was done at Wolverine.

Extrusion presses used for tests were located at:

- B and T Metals, Columbus, OH
- Revere Brass and Copper, Detroit, MI
- Aluminum Co. of America, New Kensington
- Extruded Metals Company, Grand Rapids, MI

Hot Piercing equipment available to the MET LAB included:

- Wolverine
- Globe Steel Tubes, Milwaukee (probably)

Cold rolling facilities available included:

- Westinghouse, Bloomfield, NJ
- Callite Tungsten Co., Union City, NJ
- National Bureau of Standards

Hot rolling was done at:

- Joslyn Manufacturing, Fort Wayne, IN
- Copperweld, Glassport, PA (facility offered only not used)

Forging was done at:

- DOW Chemical, Midland, MI
- Westinghouse, Bloomfield

Drawbench equipment is available at:

- Wolverine
- Extruded Metals
- Globe
- ALCOA
- Copperweld

Summeril Tube Company in Bridgeport, PA made some light walled stainless steel. Midwest Manufacturing Co., Galesburg, IL was reported to have done deep drawing of sheets. Equipment for similar operations were reported available at DOW, Westinghouse, and Site B (Chicago). Swagging equipment was available at the Bureau of Standards, Westinghouse, and the Chicago Armory. Tube reducing could be done at Tube Reducing Corp., Wallington, NJ.

It is noted that this memo does not specifically indicate any radioactive materials were processed only "materials of interest". The Memo also specifically indicates the capability is "available" at some of these sites not that they were used.

No sites are mentioned in the other areas of this memo.

*This material was Summarized
from a memo contained in the
Met LNS files at the Washington
DC National archives by A. Wallo III
Ad Wallo III*

Metallurgical Laboratory

April 28, 1943

TO: John Chipman

FROM: E. L. Dean

SUBJECT: Experimental Work at Outside Companies

This is with reference to your memorandum of April 23, 1943, giving a list of 11 companies at which various members of the Metallurgical group have been conducting experimental work from time to time involving tube alloy metal.

Major Peterson has outlined a definite procedure to be followed in all cases where it is desired to conduct experimental or other work at locations outside the confines of the Metallurgical Laboratory, in order that the security angle may be adequately taken care of, and has requested that the prior approval of his office be obtained before any work of this kind is actually undertaken. The necessary forms for transmitting requests for approval of work to be done in outside plants are now available, and I have discussed them with you.

It is, of course, too late to obtain prior approval on such work as has already been done at the companies indicated in your list. However, as regards future work, I would like to request that one of the two following alternative be adopted by your group:

1. Suspend all activities at the companies listed in your memorandum until you can prepare the forms requested by the Area Engineer and secure his approval on each company.
2. If the nature of the work in hand at any of the companies indicated is too urgent to be held up pending obtaining the approval of the Area Engineer in the manner indicated above, it would be desirable to write a memorandum for Mr. Compton's signature to Major Peterson stating the special circumstances and requesting interim approval while the necessary request forms are being prosecuted.

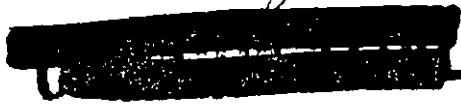
CLASSIFICATION CHANGED
 TO: NOT CLASSIFIED
 1-30-69 EN Pettit
 Authority of: USAEC
 JAN 30 1969 J Hall

MUC # 10-17

This document consists of
 1 pages and 0 figures.
 No. 6 of 7 copies, Ser. A
 April 23, 1943

Voucher No. 03652

R. L. Dean
 John Chipman



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

The following is a list of commercial firms with whom Mr. Creutz
 and I have had dealings. Also I am listing the names of the personnel
 with whom we have had contacts and the type of work which has been done.
 The names of the personnel for whom clearance has been requested are
 marked with an asterisk. We would welcome further discussion as to the
 advisability of requesting clearance on the others.

<u>Company</u>	<u>Personnel</u>	<u>Work being done</u>
Wolverine Tube Co. Detroit, Michigan	Otto Klopsch, Gen. Manager J. Rodgers*, Chief Met. J. Schmar*, Asst. Met.	Cold drawing and ex- trusion of tuballoy and aluminum. Jacketing
Wm. E. Pratt Co. Joliet, Illinois	Frank E. Clark, Pres. A. J. Blaesser*, Vice Pres.	Machining metal slugs
Joslyn Mfg. Co. Chicago and Fort Wayne	A. J. Blaesser*, Vice Pres. E. Yonkers*, Metallurgist L. Fry*, Gen. Mgr. Fort Wayne	Hot rolling and cold straightening of tuballoy
Midwest Mfg. Co. Galesburg, Illinois	B. S. Battles, Manager	Methods for Al jacketing
Globe Steel Tubes Milwaukee, Wisconsin	H. M. Ibrig, Dir. of Res. Hofman, Metallurgist	Cold drawing and cold straightening
Aluminum Co. of Amer. New Kensington, Pa.	F. C. Frary* B. J. Fletcher* John R. Willard*	Aluminum tubing, corrosion, and jacketing of tuballoy
B and T Metals Co. Columbus, Ohio	Mr. Bernell* Marvin Smith*	Extrusion of tuballoy and of aluminum
Sumnerill Tubing Co. Bridgeport, Pa.	Jack Doda	Cold drawing of tuballoy Aluminum sheathing
International Register Chicago	Mr. Bauerline Mr. Gallagher	Centerless grinding of tuballoy
Nyeoff Drawn Steel Co. Chicago	Mr. Johnson, Mgr. Pat Newburn, Shop Foreman	Centerless grinding
Dow Chemical Co. Midland, Michigan	Wm. Loose, Metallurgist	Welding tuballoy

John Chipman

JC/e
 cc C. M. Cooper, Reading File