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MEMORANDUM

TO: FILE

DATE 11/27/87

FROM: C. Young

SUBJECT: ELIMINATION RECOMMENDATION

SITE NAME: MANUFACTURING LABORATORIES, INC ALTERNATE NAME: MAN LABS

CITY: Boston STATE: MA

OWNER(S) Past: MANUFACTURING LABORATORIES Current: MANUFACTURING LABORATORIES, INC Owner contacted [x] yes [] no; if yes, date contacted 11/27/87

TYPE OF OPERATION

- [x] Research & Development [x] Facility Type
[] Production scale testing [] Manufacturing
[] Pilot Scale [] University
[x] Bench Scale Process [] Research Organization
[] Theoretical Studies [] Government Sponsored Facility
[] Sample & Analysis [x] Other (Building - 3 to 4 man operation)

[] Production [x] Disposal/Storage -> finished product and residue returned to Watertown Arsenal.

TYPE OF CONTRACT

- [] Prime [] Other information (i.e., cost + fixed fee, unit price, time & material, etc)
[] Subcontractor } unknown - however, Contractors with Frankfurt Arsenal & Watertown Arsenal
[] Purchase Order } COST + fixed fee

Contract/Purchase Order # Unknown

CONTRACTING PERIOD: 1953-1954 (approximately 18 month 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.

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 Depleted Uranium Metal (U-235)
- Comment _____

Quantities (on the basis of records reviewed)

- None
- Production Quantities
- Small Amounts

Comment Probably less than 200 pounds of uranium metal

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 According to President of the Company

Availability of Close Out Records

None Some Sufficient

Radioactive Status:

	YES	MAYBE	PROBABLY	NOT
Contaminated Potential for Exposure (accessible)	---	---	NOT 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 *Elimination recommendation based upon limited quantity of radioactive materials handled and expertise of individuals involved. President of company indicates that the facility was cleaned after the contract was completed and residues shipped to Watertown Arsenal.*

REFERENCES:

See attached telephone conversation with Mr. Philip A. Kulin, President of Manufacturing Laboratories during period of contracts.

SUMMARY

Manufacturing Laboratories Inc. obtained one research contract with Watertown Arsenal and another from Frankfurt Arsenal (U.S. Army). The contracts were to develop a process for making projectiles from depleted uranium metal. The projectiles were cast by adding uranium metal that had been reduced to powder into a solvent binder - then machining the projectiles to specifications. Recollections of the President of the Laboratories indicate that maybe 50 projectiles were cast. The research and casting of the projectiles took place over a period of, at most, 18 months during 1953 & 1954. Personnel involved were experienced in the handling of radioactive material and health physics practices. The quantity was ~~small~~ small - 3 to 4 personnel. According to Mr. Philip A. Kulin, then president of the company - only about 100 pounds of metal were involved. Cleanup of the facilities at termination of the contracts over a period of a week or so was done more by necessity to account for all residues than from the standpoint of health physics. The building where the work was done has since been torn down and the area redeveloped.

Contact: ~~Philip~~ Philip A. Kulin, (305) 428-1850. Mr. Kulin worked on MED/AEC projects at MIT (Hood Building) before founding Manufacturing Laboratories, Inc. The other employees had previous experience under MED/AEC contracts.