

MI. 15-3

OTS NOTE

DATE: March 25, 1991
TO: A. Williams
FROM: D. Stout *DS*
SUBJECT: Elimination Recommendation for the Star Cutter Corporation

The attached memorandum and supporting documents are the basis for our recommendation to eliminate the former Star Cutter Corporation site from further consideration under FUSRAP. The site is located in Farmington Hills, Michigan.

Documents discovered to date which indicate use or handling of radioactive material by Star Cutter consist of two Analytical Data Sheets, dated June 29, 1956, prepared by the National Lead Company of Ohio (NLO), an Atomic Energy Commission (AEC) prime contractor. The data sheets report the results of radiological monitoring conducted during operation of an oil-cooled drilling/hollowing machine. The sheets record measurements during five slug hollowing operations. No dispersion of uranium is indicated, presumably any dust and turnings were captured by the coolant. Although not documented in the data sheets, it is reasonable to assume that the slugs used in the test were removed from the test site by NLO in accordance with AEC accountability procedures in place at the time. Disposition of coolant is unknown.

A telephone interview was conducted with a Star Cutter employee who joined the company in 1942. Neither he nor the chief engineer remembered any uranium processing; however, a vice president did confirm that a one time test was conducted for NLO. The Farmington Hills tax assessor noted the 23 acre site is currently owned by Hitachi, and substantial interior renovation was performed and additions were constructed when the property was last transferred in 1986.

In view of the limited quantity of radioactive material involved, the short duration of the test, and extensive site renovation, the potential for residual radioactive contamination in excess of current DOE guidelines is considered very remote. Therefore, we recommend that this 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
FUSRAP MI.15

MEMORANDUM

TO: FILE

DATE 3/21/91

FROM: D. Stout

SUBJECT: Star Cutter Corporation Elimination Recommendation

SITE NAME: Star Cutter, 34500 Grand River Ave. ALTERNATE NAME: _____

CITY: Farmington Hills STATE: MI

OWNER(S)

Past: Star Cutter Current: Hitachi
Owner contacted yes no; if yes, date contacted _____

TYPE OF OPERATION

- Research & Development
- Facility Type
- Production scale testing
- Pilot Scale
- Bench Scale Process
- Theoretical Studies
- Sample & Analysis
- Manufacturing
- University
- Research Organization
- Government Sponsored Facility
- Other _____
- 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 # No record of

CONTRACTING PERIOD: June 1956

OWNERSHIP:

	AEC/MED OWNED	AEC/MED LEASED	GOVT OWNED	GOVT LEASED	CONTRACTOR OWNED	CONTRACTOR LEASED
LANDS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
BUILDINGS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
EQUIPMENT	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
FIRE OR RAW MATL	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
FINAL PRODUCT	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WASTE & RESIDUE	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

National Lead of Ohio (NLO) provided material

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 _____

Quantities (on the basis of records reviewed)

- None
- Production Quantities
- Small Amounts

Comment Data sheet indicates five slugs, perhaps
100 lbs. total

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 One-time test operation with small quantities.
Residual contamination is very unlikely.

REFERENCES: - NLO Analytical Data Sheets of 6/24/56
- Record of Conversation with J. Edmiston, 3/21/91

SUMMARY

Star Cutter manufactured machine tools including
gun drills, which were useful for hollowing uranium
slugs. NLO appears to have conducted a one-day
test with one of Star Cutter's drills. No evidence
of subsequent operations with uranium.