

3510

CT.9-1

MEMORANDUM

TO: FILE

DATE 5/14/87

FROM: D. Levine

SUBJECT: Elimination Recommendation

SITE NAME: The Torrington Company

ALTERNATE NAME:

CITY: Torrington STATE: CT (Specialties Division)

OWNER(S)

Past: Current: Owner contacted [] yes [x] no; if yes, date contacted

TYPE OF OPERATION

- [x] Research & Development Facility Type
[x] Manufacturing
[] Production scale testing
[] Pilot Scale
[x] Bench Scale Process (subging experiments)
[] Theoretical Studies (very small scale)
[] Sample & Analysis
[] Production
[] Disposal/Storage
[] 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)
materials shipped to Bridgeport Brass, and then to Torrington

Contract/Purchase Order #

CONTRACTING PERIOD: approximately 2/51 to 2/53

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 *uranium rods*
 - 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 *swaging experiments were carried out on small samples (three 3ft. 13/16" diameter rods on 2/23/51, four 3ft. 0.600" diameter rods after 2/6/53).*

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
Contaminated Potential for Exposure (accessible)	---	---	<u>X</u>	---

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 _____

REFERENCES: (see attached Database list)

SUMMARY The Torrington Company performed swaging experiments on uranium rods. Due to the research nature of this work, and the small quantities of uranium involved, it is recommended that this site be eliminated.

Torrington Company
 Database References, 5/14/87

DATE	FILE#	FROM	TO	SUBJECT	SITES	BOX
05/15/52	CT.9	TORRINGTON CO.	NOTO, A.	FIRST PAGE OF LETTER, SUBJ: POSSIBLE SWAGING A SOLID ROD FROM .812" DOWN TO .040" <i>(Discussion only; no experiments)</i>	THE TORRINGTON CO.	3/1
02/06/53	CT.9	NOTO, A.	FILES	BRIDGEPORT BRASS CONSTRUCTING TORRINGTON CO. TO CONDUCT SWAGING EXPERIMENTS <i>4 rods</i>	TORRINGTON CO., BRIDGEPORT BRASS	3/1
03/02/51	NJ.20	REICHARD, H.	FILES	SWAGING TEST OF DUPONT SIZE BARS AT THE TORRINGTON COMPANY <i>3 rods</i>	TORRINGTON, WYCKOFF STEEL CO.	22/1
08/21/52	CT.9	DELAGI, R.	FILES	INVESTIGATION OF SWAGING AS A POSSIBLE TECHNIQUE FOR THE FABRICATION OF URANIUM RODS FOR THE CVR PROGRAM (NOW WARD PROGRAM)	TORRINGTON CO.	65/1
08/01/51	CT.9	CRATE, J.	CRAWFORD, D.	TRIP REPORT TO TORRINGTON COMPANY BY AMF	TORRINGTON CO, AMF	DUP1

UNCLASSIFIED

AMERICAN MACHINE AND FOUNDRY COMPANY
ENGINEERING DIVISION

CT. 9 3.03-7-7

- FIELD TRIP REPORT
- MEETING REPORT
- ENGINEERING REPORT

8-1-51 DATE	DPEAFTR-2017 SERIAL NO.
JO 79008 - 3.03-7 PROJECT OR JOB NO.	1 3 PAGE OF
7-1-51 PERIOD COVERED	J. J. CRATE WRITTEN BY

MET-C

TO: D. B. CRAWFORD

SUBJ: STRAIGHTENING BY ROTARY SWAGING

CUSTOMER: _____

ADDRESS: _____

PERSON CONTACTED: _____

PURPOSE: TO TEST THE ROTARY SWAGER AS A MEANS FOR STRAIGHTENING EXTRUDED ROD

PLACE: Torrington Company, Torrington, Connecticut

PRESENT: E. Mayhew - Torrington Co. J.A. Bolton - AMF
J.J. Crate

SUMMARY: Six (6) samples of 1" Rod 42" long were swaged in a standard, Size #6, Torrington Swager. The rod was preheated. Feeding was done by hand. A tube set up behind the dies and turning with them received the rod after swaging. The rod was checked for straightness and diameter on test immediately after cooling. See Table I for tabulation of tests. See Sketch I for arrangement of test.

ACTION: Additional testing on the rotary swager is planned so that the following can be developed: A guide tube to hold the rod straight as it leaves the swaging dies and a guide for feeding the rod into the machine.

DISCUSSION: Rate of feed showed no conclusive results when considering the final diameter of the rod. The lower temperature resulted in a poor surface subject to a wavy flow pattern of the rod sheath over the core. High spots on the dies were evidenced by surface marks on the sheath after swaging. It is necessary to force the rod into the dies as the machine is not self feeding. The work must rotate to prevent breaking but must move relative to the dies so that they work the rod around its periphery. The rod was very difficult to feed by hand in its heated condition.

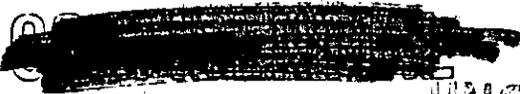
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Classification Changed to UNCLASSIFIED by Authority of J.J. Crate
Allynmonds
St. Defs. Spec.
9/24/86 By _____ Date _____

APPROVED: D.B. Crawford
Chief Project Engineer

JJC/rap
cc: R.W. Hughes Jurgens
C.P. Kidder File (2)
J.K. Hamill (3) Encls. 2
W.H. Gunkel



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