

CT. 10

DATE 5/13/87

FROM: D. Levine

SUBJECT: *Elimination Recommendation*

SITE NAME: New England Lime Company ALTERNATE NAME: NELCO

CITY: Canaan STATE: CT → this is the
Magnesium Division of
OWNER(S) NELCO;

Past: _____ Current: _____
Owner contacted ☐ yes ☒ no; if yes, date contacted _____

☒ Research & Development

- ☐ Production scale testing
- ☒ Pilot Scale
- ☐ Bench Scale Process
- ☐ Theoretical Studies
- ☐ Sample & Analysis

Facility Type

☒ Manufacturing
☐ University
☐ Research Organization
☐ Government Sponsored Facility
☐ Other

☐ Production

☐ Disposal/Storage

• note that Charles A. Pfizer Co. is listed as an alternate name in 12/31/86 Site Summary Report; FMPC subcontract list indicates that there was no record of AEC contract with Pfizer Co.

TYPE OF CONTRACT

☐ Prime
☒ Subcontractor through NLO
☐ Purchase Order

☐ Other information (i.e., cost + fixed fee, unit price, time & material, etc)

Contract/Purchase Order #

CONTRACTING PERIOD: approx. 6/63 to 12/63 (work on uranium containing residue;

OWNERSHIP: NELCO also supplied magnesium and calcium at least from March 1944 to June 1956)

AEC/MED OWNED	AEC/MED LEASED	GOVT OWNED	GOVT LEASED	CONTRACTOR OWNED	CONTRACTOR LEASED
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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

NLO furnished information regarding handling of uranium-containing material (ref. letter, K.N. Ross to J.A. Quigley, 6/14/63)

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 approximately 6 drums of residue were opened and examined
(ref. letter, K.N. Ross to J.A. Quigley, 6/14/63)

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)	---	---	<u>X</u>	---

all scrap from the 1963 feasibility studies was returned to production streams (ref. letter, J. Ruch to R. Armstrong, 12/5/63)

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 New England Lime Company supplied magnesium and calcium to MED/AEC,
at least in the time period March 1944 to June 1956)

REFERENCES: (see attached Database Report)

SUMMARY

Tests were conducted to evaluate the potential for recovery of magnesium from uranium contaminated residues. The tests indicated that the recovery costs were too high (ref. letter J.W. Ruch to C.L. Karl, 12/11/63). There are no indications in the available records that any work beyond the initial feasibility study was conducted. Because of the experimental nature of the study, and the small amount of material handled, it is recommended that this site be eliminated.

New England Lime Company
Database References, 5/13/87

DATE	FILE#	FROM	TO	SUBJECT	SITES	BOX #
02/05/53	3.0	M. SANDHIRE	J. SHEPARDSON	ANALYTICAL RESULTS FOR <u>MAGNESIUM</u> PROCESS FOR MCW SUPPLIED BY NELCO	MALLINCKRODT, NELCO, NBL	1/16
10/29/63	CT.10	KARL, C.	RUCH, J.	RECOVERY OF MAGNESIUM-URANIUM RESIDUES AT NELCO	NELCO, NLD	79/28
11/11/63	CT.10	POZZI, J.	MOORE, W.	ESTIMATE OF REQUIREMENTS TO RECOVER MAGNESIUM AND URANIUM FROM PILL	NELCO	79/28
12/11/63	CT.10	RUCH, J.	KARL, C.	RECOVERY OF MAGNESIUM-URANIUM RESIDUES AT NELCO	NELCO, NLD	79/28
10/24/50	CT.10	EISENBUD, M.	BELMORE, F.	FIRE PROTECTION INSPECTIONS AT NEW ENGLAND LINE AND METALS SELLING CO. (magnesium)	NELCO, METALS SELLING CO	EML
/ /	3.1CHO	REPORT		"THE FABRICATION ON ALCLADDING OF THORIUM" (calcium)	BATTELLE, MIT, ANL, JOSLYN, ELECTROMET, NELCO, METAL HYDRIDES	47/27
03/01/44	CT.10	MORSE, R.	THAYER, H.	ARRANGEMENTS FOR NEW ENGLAND LINE CO. TO GRIND AMCO <u>MAGNESIUM</u> CROWNS	NELCO, KINGDALE, NY AND CASSER, CT	145/8
12/01/50	CT.10	HERSHMAN, H.	FILES	PRODUCTION OF <u>CALCIUM</u> FOR OAK RIDGE AT THE NEW ENGLAND LINE CO.	NEW ENGLAND LINE CO., NELCO	20/
03/04/54	3.1NLD	CONTRACT LIST		RESEARCH AND DEVELOPMENT CONTRACTS (INCLUDES COSTS) on distillation and purification of metals	MERRILL, SONIC RESEARCH, VITRO, SYLVANIA, BATTELLE, NELCO, BLAW-KNOX, RCA, EB&B, NAA, CORNING, GE, STANFORD, ELGIN, ARMOUR, GRAHAM, RAND, A.D. LITTLE, NUCLEAR DEV., FERGUSON	
06/14/63	CT.10	ROSS, K.	QUIGLEY, J.	TRIP REPORT TO NELCO 6/11-12/63	NEW ENGLAND LINE CO., NELCO	
05/25/49	3.8	BELMORE, F.	DEL VECCHIA, F.	FINANCIAL APPRAISAL OF AEC <u>PHYSICAL FACILITIES</u>	HARSHAW, LINDE, MCW, NELCO, BERYLLIUM CORP, BRUSH BERYLLIUM, BURNS & ROE, CLIFTON, MIT, SYLVANIA	88/25
/ /	3.1CHO	REPORT		"THE FABRICATION ON ALCLADDING OF THORIUM"	BATTELLE, MIT, ANL, JOSLYN, ELECTROMET, NELCO, METAL HYDRIDES	47/27
10/24/50	CT.10	EISENBUD, M.	BELMORE, F.	FIRE PROTECTION INSPECTIONS AT NEW ENGLAND LINE AND METALS SELLING CO.	NELCO, METALS SELLING CO	EML
05/18/49	3.1NYOO NYOO		STATUS REPORTS	STATUS REPORTS FOR MAY, APRIL, AUGUST, SEPTEMBER, NOVEMBER, DECEMBER magnesium	MULTIPLE, BENDIX, BRUSH, KELLEX, NELCO	FOIA

12/05/63 3.1FMD RUCH, J.	ARMSTRONG, R.	CLASSIFICATION OF WASTE MATERIAL AND WASTE DISPOSAL OPERATIONS	NELCO, BRIDGEPORT BRASS, GENERAL CHEMICAL, NUCLEAR METALS	FOIA
06/15/56 NY.7 WHITMAN, C.	FILE	MONTHLY STATEMENT OF PROGRESS, REDUCTION OF URANIUM OXIDE BY CARBON AND THORIUM OXIDE, 12/1/55-11/1/56, 2/1-3/1/56, 4/1-5/1/56, 5/1-6/1/56 <i>calcium</i>	SYLVANIA BAYSIDE, NLO, NELCO, RARE EARTHS, BAKER	FOIA
08/31/50 CT.10	WORKSHEET-ACCOUNTABILITY	WORKSHEET FOR MONTHLY ACCOUNTABILITY REPORT; <i>magnesium</i>	NELCO, METALS SELLING CORP, ENTERPRISE METAL PRODUCTS, TITANIUM ALLOY MANUFACTURE, METALS SELLING CORP., BOM, DOW-VELASCO, TX, METLI & WORTHINGTON-HATBORD	112/1
11/14/50 CT.10 KOENIG, J.	MORGAN, J.	<u>MAGNESIUM</u> PROCUREMENT - TRIP REPORT TO AEC, NEW ENGLAND LIME CORPORATION, AND METALS SELLING CORPORATION	NELCO, METALS SELLING CORPORATION, MCW	70/4
11/17/49 CT.10 POZZI, J.	MAYER, C.	SHIPMENT OF <u>MAGNESIUM</u> BILLETS	GERITY-MICHIGAN CORP., NELCO, REVERE COPPER & BRASS, METALS SELLING CO.	103/6
12/07/49 CT.10 POZZI, J.	MAYER, C.	PRODUCTION SCHEDULE : <i>magnesium</i>	NELCO	103/5

Charles A. Pfizer Co.
Database References, 5/13/87

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/ / 3.1NLO

FMPC SUBCONTRACTOR LIST FMPC SUBCONTRACT LIST - INCLUDES CONTRACT NUMBER AND BACKGROUND

no record of
AEC contract

ALLIED CHEMICAL & DYE, AMERICAN
CYANAMID, EAGLE-PICHER, HERCULES
POWDER, KELLEX, VITRO, MCW,
MATHIESON, NLO, CHARLES PFIZER,
REYNOLDS METALS, ROHM AND HAAS,
J.T. BAKER

FMPC Subcontractor list (undated) in 3.1NLO

Firm	ALC Contract	Type of work	Type of Contract	ALC Office	Performance	Amount
National Lead Company (TAM)	AT(30-1)-620	Prod	Cost	NYCO (Vetcon)	Good	\$ 53,000
	AT(30-1)-661	R & D	Cost	NYCO		\$ 450,000 Transp.
	AT(30-1)-924	Sup	Cost	NYCO		\$ 25,000
X AT(30-2)-Gen-16 (Sub S-159-401)		Weather Reports	No cost	NYCO		
Charles Pfizer & Co., Inc.	NO RECORD					
Reynolds Metals Co.				EF00		Supply contract. \$83,000 No information obtained.
				W O		Small contract. No information.
Rohm and Haas Co.	NO RECORD					
J. F. Ecker Chemical Co.				H00		4 supply subs. around \$2 30,000 each. No in- formation obtained.

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