

3864

PA.27-1

PA.27

MEMORANDUM

TO: FILE

DATE 12/7/87

FROM: C. Young

SUBJECT: ELIMINATION RECOMMENDATION

SITE NAME: FOOTE MINERAL COMPANY

ALTERNATE NAME:

CITY: EXTON (PLANT LOCATION) STATE: PA

HQ - 10 E. Chelton Avenue Philadelphia, PA

OWNER(S)

Past: FOOTE MINERAL CO. Current: UNKNOWN

Owner contacted [] yes [x] no; if yes, date contacted

TYPE OF OPERATION

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

TYPE OF CONTRACT

- [x] Prime SEE SUMMARY
[] Subcontractor
[] Purchase Order
[] Other information (i.e., cost + fixed fee, unit price, time & material, etc) Fixed fee contracts - bid 50's, AT(40-1)-1736 and 1668.

Contract/Purchase Order # UNKNOWN

CONTRACTING PERIOD: UNKNOWN

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.

See SUMMARY

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 Plot plant scale processes of monazite sand at Exton facility
~~Produce Hafnium zirconium metal - separated Hafnium from Zirconium~~
 may have rolled some uranium metal during mid-1940's

Quantities (on the basis of records reviewed)

- None
- Production Quantities
- Small Amounts

Comment Relieved small - no data to indicate how much

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)	---	---	NOT <input checked="" type="checkbox"/>	---
	---	---	<input checked="" type="checkbox"/>	---

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 list.

SUMMARY

Documents assembled that pertain to the Foote plant in Exton, PA indicate rare earths primarily zirconium was the material involved. Monazite sand was processed on a pilot plant scale at the site. Two major fixed price contracts with ABC have been identified - AT(40-1)-1726 for approximately \$4 million and AT(40-1)-1668 for approximately \$2.3 million - for miscellaneous supplies and equipment. Specific deliverables under these contracts are unknown. Foote was a large producer (1955 into early 1970's) of oxide at uranium processing plants in Arizona, Colorado and New Mexico. However, involvement of the Exton plant is unknown.

Sufficient information pertaining to the question of the Exton plant to justify further consideration of this site under FUSRAP is not available. Therefore, recommend elimination of this site from further consideration under FUSRAP.

Foote offshore operations (Brazil) may have served as a source of monazite sands processed for thorium content.

FOOTE MINERAL CO.

FILE#	DATE	FROM	TO	SUBJECT	SITES	REC. #
3.0	04/07/48		REPORT	MONAZITE SAND DESCRIPTION OF PROCESSING OPERATIONS AT LINDSAY, MAYWOOD, WOLFF-ALPORT, NATIONAL CARBON, FOOTE MINERAL	LINDSAY LIGHT, MAYWOOD, WOLFF-ALPORT, NATIONAL CARBON CO., FOOTE MINERAL, PFALTZ & BAUER, RICHFIELD, NJ ROHM AND HAAS	1481
NC	08/03/48	NOLAN, T.	MERRITT, P.	ZIRCONIUM	BOM-ALBANY, FOOTE MINERAL CO., PHILADELPHIA	1523
3.1CHD	07/13/49	GRANT, P.	DISTRIBUTION	ZIRCONIUM DEVELOPMENT AND PROCUREMENT PROGRAM	MULTIPLE, MIT, BATTTELLE, WESTINGHOUSE, TITANIUM ALLOY MFG CO., NATIONAL RESEARCH CORP., IOWA STATE COLLEGE, HORIZONS, BUREAU OF MINES, ALLEGHENY LUDLUM, FOOTE MINERAL, UNIV. LOUISVILLE, GE, IONICS	1689
PA.27	09/14/49	MORGAN, J.	ROTH, H.	PROCUREMENT OF ZIRCONIUM BARS	FOOTE MINERAL	1732
3.1CHD	04/13/50	TREMEL, E.	WARD, F.	BERYLLIUM METAL DISCS	NORTH AMERICAN, BRUSH BERYLLIUM, FOOTE	1861
3.1NYDD	05/16/50	SCHLEMMER, F.	WILLIAMS, W.	ZIRCONIUM SAMPLES	FOOTE MINERAL, TITANIUM ALLOY, BOM	1881
NY.41	05/23/50	EPP, F.	SMITH, R.	SHIPPING SCHEDULE - ZIRCONIUM TETRACHLORIDE	TITANIUM ALLOY, FOOTE MINERAL CO., BOM	1888
PA.4	08/28/50	PEARSON, R.	REACTOR MATERIALS BRANCH	MATERIAL TRANSFER CERTIFICATES (ZIRCONIUM FROM FOOTE AND TITANIUM ALLOY TO WESTINGHOUSE)	FOOTE MINERAL CO., TITANIUM ALLOY, WESTINGHOUSE	1939