

IL 0-053 3863

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IL 0-05

1.21.1

MEMORANDUM

TO: FILE

DATE 12/7/87

FROM: A. Wallo

SUBJECT:

SITE NAME: Morse Chemical Co. ALTERNATE NAME: \_\_\_\_\_

CITY: Chicago STATE: IL

OWNER(S)  
Past: Morse Chemical Current: \_\_\_\_\_  
Owner contacted  yes  no; if yes, data contacted \_\_\_\_\_

TYPE OF OPERATION

- Research & Development
- Facility Type
- Production scale testing
- Manufacturing
- Pilot Scale
- University
- Bench Scale Process
- Research Organization
- Theoretical Studies
- Government Sponsored Facility
- Sample & Analysis
- Other \_\_\_\_\_

- Production
- Disposal/Storage

Chemical Co.

TYPE OF CONTRACT

- Prime
- Subcontractor
- Purchase Order
- Other information (i.e., cost + fixed fee, unit price, time & material, etc) \_\_\_\_\_

Contract/Purchase Order # \_\_\_\_\_

CONTRACTING PERIOD: Not under contract only Bid on Thorium work

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 type="checkbox"/>	<input type="checkbox"/>
BUILDINGS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
EQUIPMENT	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
ORE OR RAW MATL	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
FINAL PRODUCT	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WASTE & RESIDUE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

AEC/MED INVOLVEMENT AT SITE

Control

N/A

- 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 DID NOT WIN; JUST B.D ON Thorium work

Quantities (on the basis of records reviewed)

- None  Production Quantities
- Small Amounts

Comment N/A - Did not win Contract

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 Company was asked to submit a proposal to process Thorium  
ORE. Proposal was submitted; Morgewas not selected

REFERENCES: (Belient Rare Earths (Division chemical) was)  
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A Hrc Led.  
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SUMMARY -----  
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IL.0-05-1

E.I. RMD

4/8  
RMD

# MORSE CHEMICAL COMPANY

8 SOUTH MICHIGAN AVENUE  
CHICAGO, ILLINOIS, U.S.A.

TELEPHONE - ANDOVER 3-3461  
CABLE ADDRESS "MORCHEMCO" CHICAGO

June 30, 1954

RESEARCH & DEVELOPMENT - 13 -

Raw Materials Division  
United States Atomic Energy Commission  
1901 Constitution Avenue, N.W.  
Washington 25, D. C.

Attention: Mr. R. Faulkner, Assistant Director  
Reference: P:FH

Dear Sir:

We are writing to submit a firm proposal for the processing of monazite now in the stockpile in accordance with the invitation to Morse Chemical Company in your letter of May 20th and your telegram of June 18th, 1954.

The Morse Chemical Company will treat the entire 7,150 tons of monazite to produce therefrom thorium nitrate and sodium rare earth sulfate (double sulfate), both products to meet the specifications enumerated in your letter of May 20. Deliveries will be made in accordance with the terms of your letter, to begin no later than February, 1955 and complete by December 1956 at a regular production rate.

Our price for breaking the monazite sand, that is, production of purified thorium nitrate and rare earths in a form suitable for return to you, would be \$635.00 for each short ton of monazite treated. If the monazite treated contains 6.18% thorium oxide the cost of the thorium nitrate will be \$2.48 per pound. This latter per pound price is equivalent to the per ton of monazite price assuming 6.18% thorium oxide content in the monazite. These prices are based on processing 7,150 tons or more of monazite which is to be delivered f.o.b. our plant in time specified.

Our firm proposal at this time is based on processing only the monazite sands. The reason for this being that Morse Chemical is thoroughly familiar with the technology of processing monazite. Sufficient time has not been available for evaluating the problems involved in processing the various sludges described in your May 20 letter.

As stated previously to members of your staff in conferences in New York and Washington, the process to be employed in this work was developed by The Rohm & Haas Company over a period of years, and was thoroughly tested. The Morse Chemical

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As stated previously to members of your staff in conferences in New York and Washington, the process to be employed in this work was developed by The Rohm & Haas Company over a period of years and was thoroughly tested. The Morse Chemical Company would be the beneficiary of all of Rohm & Haas' experience and continuing consultation of Dr. Loren Hurd, developer of the process, and other members of The Rohm & Haas research and production staff. See enclosure #1.

Mid-West Laboratories of Chicago, and now director of Morse Chemical Company is now negotiating to engage a number of additional experienced scientists and engineers to assist Dr. Wolnak. We have contracted with the Vern E. Alden Company, engineers, of Chicago for the procurement and installation of the equipment and as consultants on all engineering aspects of the project. See enclosure #2. Our major plant will be in the Chicago area though if necessary we can use some additional facilities which we have at the Spencer Manufacturing Company in Spencer, Ohio, which is a subsidiary of Morse Chemical Company. George Rosseter and Company which is combining with Peat Marwick Mitchell & Company and our accountants. The Continental Illinois Bank and Trust Company is our principle bank. Our general counsel is Baker, McKenzie, Hightower & Brainerd. Directors include:

M. B. Morse, Chairman of the Board  
Dr. C. H. Burgess, Bear Creek Mining Company,  
Subsidiary of Kennecott Copper Corporation  
W. LeRoy Haskell, Harris Upham & Company  
Christopher G. Janus, president, Morse Chemical Company  
Allen Hosmer Morse, vice-president, Morse Chemical Company  
J. Albert Roesch, partner, Roesch & Crosby  
Dr. Bernard Wolnak, director, Mid-West Laboratories

The financing of this venture will be done principally by The Morse Investment Company which is a holding company owned by a part of the Morse family which founded Fairbanks, Morse and Company. However, it should be pointed out that Morse Chemical Company is completely independent of Fairbanks, Morse and Company.

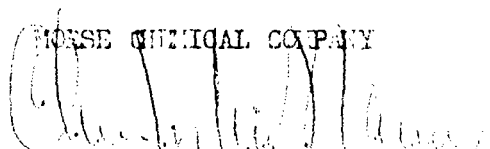
With respect to your statement that "while proposed unit prices are the prime consideration, we necessarily reserve the right to consider other factors in determining whether an award to your company would be in the best interest of the Government", we should like to point out that an award to The Morse Chemical Company would result in a plant and organization devoted to the treatment of monazite and the extraction of thorium and the other elements therefrom, thus reducing the almost exclusive dependence of the United States Government, of the AEC, and other consumers upon the one principal and two or three small suppliers of thorium in this country. A competitive and progressive thorium-rare earths industry would seem to be more in the interest of the Government and of the Nation's economy than the present situation in which a single concern has occupied so hegemonic a position as to constitute essentially a monopoly.

We understand that these bids submitted may be opened for further discussion. After you have had the opportunity to consider the details of our proposal, we would be glad to meet with you to help provide any supplemental data and for further discussion.

Pursuant to our conversation with you in Washington on June 30, we will submit within a week additional proposals which will be related to but independent of the project described in your letter of May 20 which we feel may be of considerable benefit to your future program.

Sincerely yours,

MORSE CHEMICAL COMPANY

  
Christopher G. Janus  
President

CGJ:vt:mv  
Enclosures