



PROJECT AND BUDGET PROPOSAL FOR NRC WORK

DATE OF PROPOSAL

February 20, 1984

☐ NEW☐ REVISION NO.

PROJECT TITLE

Environmental Impact Statement on the Decommissioning of the
Kerr-McGee West Chicago Rare Earths Facility

FIN NUMBER

A2157

NRC OFFICE

Office of Nuclear Materials Safety & Safeguards

NRC B&R NUMBER

50-19-01-01

DOE CONTRACTOR

Argonne National Laboratory

CONTRACTOR ACCOUNT
NUMBER

8M482

SITE

9700 S. Cass Avenue, Argonne, IL 60439

DOE B&R NUMBER

40-10-01-05

COGNIZANT PERSONNEL

ORGANIZATION

FTE PHONE NUMBER

PERIOD OF PERFORMANCE

NRC PROJECT MANAGER

W. A. Nixon

NRC/NMSS

427-4510

STARTING DATE

03-01-84

OTHER NRC TECHNICAL STAFF

COMPLETION DATE

Open

DOE PROJECT MANAGER

R. Dalton

DOE/CH

972-2229

CONTRACTOR-PROJECT MANAGER

P. F. Gustafson

ANL/ER

972-4144

PRINCIPAL INVESTIGATOR(S)

S. Y. Tsai

ANL/ER

972-7798

STAFF YEARS OF EFFORT (Round to nearest tenth of a year)

FY 1983

FY 1984

FY

FY

FY

Direct Scientific/Technical

1.0

0.5

Other Direct (Graded)

0.1

0.1

TOTAL DIRECT STAFF YEARS

1.1

0.6

COST PROPOSAL (in thousands)

Direct Salaries

\$ 59.0

\$ 28.0

Material and Services (Excluding ADP)

1.0

42.3

ADP Support

1.0

1.0

Subcontracts

0

0

Travel Expenses

Foreign

0

0

Domestic

1.0

1.0

Indirect Labor Costs

16.0

8.7

Other (Specify) Biomedical & Environmental
Administration

1.0

1.7

General and Administrative (17.3 %)

17.0

17.3

TOTAL OPERATING COST

\$ 96.0

\$100.0

CAPITAL EQUIPMENT

FIN CHARGED: _____

TOTAL PROJECT COST

FY 84

MONTHLY FORECAST
EXPENSE

OCTOBER

-

NOVEMBER

-

DECEMBER

-

JANUARY

-

FEBRUARY

-

MARCH

8

APRIL

8

MAY

8

JUNE

3

JULY

3

AUGUST

3

SEPTEMBER

3

PROJECT AND BUDGET PROPOSAL FOR NRC WORK

A2157


DATE

02-20-84

PROJECT TITLE

Environmental Impact Statement on the Decommissioning of the Kerr-McGee West Chicago Rare Earths Facility

DOE PROPOSING ORGANIZATION

FORECAST MILESTONE CHART: Scheduled to Start —  — Completed (Shown in Quarter Year)
PROVIDE ESTIMATED DOLLAR COST FOR EACH TASK FOR EACH FISCAL YEAR

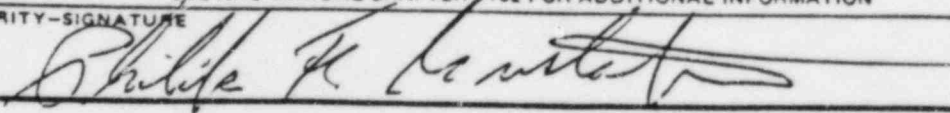
TASK		FY 1984				FY				FY				FY				FY			
		1st	2nd	3rd	4th	1st	2nd	3rd	4th	1st	2nd	3rd	4th	1st	2nd	3rd	4th	1st	2nd	3rd	4th
Evaluation of disposal plan and preparation of final report	SCHEDULE	Δ →																			
	COST	\$100.0																			
	SCHEDULE																				
	COST																				
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	SCHEDULE																				
	COST																				
TOTAL ESTIMATED PROJECT COST		\$100.0 (hearings initiated in FY84 expected to carry into FY85)																			

PROJECT DESCRIPTION: (Provide narrative descriptions of the following topics in the order listed. Attach on plain paper to this NRC Form 189. If an item is not applicable, so state.)

1. OBJECTIVE OF PROPOSED WORK
2. SUMMARY OF PRIOR EFFORTS
3. WORK TO BE PERFORMED AND EXPECTED RESULTS
4. DESCRIPTION OF ANY FOLLOW-ON EFFORTS
5. RELATIONSHIP TO OTHER PROJECTS
6. REPORTING SCHEDULE
7. SUBCONTRACTOR INFORMATION
8. LIST NEW CAPITAL EQUIPMENT REQUIRED
9. DESCRIBE SPECIAL FACILITIES REQUIRED
10. CONFLICT OF INTEREST INFORMATION

SEE NRC MANUAL CHAPTER 1102 FOR ADDITIONAL INFORMATION

APPROVAL AUTHORITY—SIGNATURE



DATE

2/21/84

PROJECT TITLE: Environmental Impact Statement on the Decommissioning of the
Kerr-McGee West Chicago Rare Earths Facility

1. Objective of Proposed Work

The objective of this extended work is to evaluate whether Kerr-McGee's proposed plan to stabilize residues at the inactive thorium facility located in West Chicago, Illinois, is in compliance with the technical requirements of the Environmental Protection Agency's (EPA) standards governing stabilization of uranium and thorium residues which were promulgated in October 1983.

2. Summary of Prior Efforts

The Final Environmental Statement (FES) for the decommissioning of the West Chicago facility was completed and issued in May 1983. The alternatives considered in the FES included onsite disposal, onsite storage, offsite disposal at potentially suitable sites within Illinois, offsite disposal at existing disposal sites, temporary storage by covering ore residues, segregation of wastes according to level of contamination, and no action. Environmental impact and cost analyses were performed for all the alternatives. Comments on the Draft Environmental Statement were addressed by specific responses in the FES.

3. Work to be Performed and Expected Results

Kerr-McGee's proposed disposal cell design for onsite waste stabilization (Alternative I in FES) will be evaluated with respect to EPA's closure standards set forth in 40 CFR 192 regarding the longevity of the cell cover design and the control of radon release to the atmosphere. The disposal plan will also be compared with the EPA's closure performance standards of 40 CFR 264 for minimal maintenance of the disposal site and long-term groundwater protection. The study results will be presented in a report which will be prepared and submitted to NRC according to the Reporting Schedule.

4. Description of any Follow-on Efforts

It is anticipated that ANL staff will be called upon to assist in providing expert testimony for the NRC Atomic Safety Licensing Board hearing. The schedule for testimony is unpredictable. However, it is anticipated that it will be initiated in FY 1984 and carry into FY 1985.

5. Relationship to Other Projects

This is a continuation of a project initiated in FY 1982.

6. Reporting Schedule

The report will be prepared according to the following schedule:

Draft report sent to NRC	May 1, 1984
ANL receives NRC's review comments	May 15, 1984
Final report sent to NRC	June 1, 1984

A monthly letter report will be submitted by the 15th of the month to Mr. W.A. Nixon, Office of Nuclear Material Safety and Safeguards. These reports will include the following:

- (1) A listing of efforts completed during the period; milestones reached, or if missed, an explanation provided.
- (2) Any problems or delays encountered or anticipated and recommendations for resolution.
- (3) A summary of costs and progress to date.
- (4) Plans for the next report period.

7. Subcontractor Information

Not applicable.

8. List of New Capital Equipment Required

None.

9. Describe Special Facilities Required

None.

10. Conflict of Interest Information

There are no known significant contractual or organizational relationships of this organization or its employees with industries regulated by NRC (e.g., utilities) and suppliers thereof that might give rise to an apparent or actual conflict of interest.