

File 3.5 A2157

ARGONNE NATIONAL LABORATORY

9700 SOUTH CASS AVENUE, ARGONNE, ILLINOIS 60439
(312) 972-6460

May 7, 1985

Mr. John G. Davis, Director
Office of Nuclear Materials Safety
and Safeguards
ATTN: Program Support
U.S. Nuclear Regulatory Commission
Washington, DC 20555

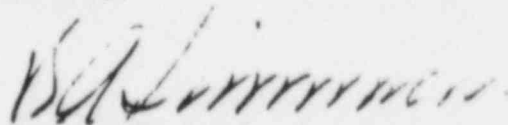
SUBJECT: NRC Form 189, "Environmental Impact Statement on the Decommissioning of the Kerr-McGee West Chicago Rare Earths Facility" (FIN No. A2157),
NRC #50-19-01-00 (ANL No. 8M482)

Dear Mr. Davis:

Enclosed for your review are five copies of the subject proposal, which was prepared by S. Y. Tsai of the Environmental Research Division. This proposal was prepared in accordance with the Nuclear Regulatory Commission's Standard Order for Work, dated March 29, 1985.

Scientific questions regarding this proposal^E should be addressed to the Office of the Associate Laboratory Director for Biomedical and Environmental Research (extension 3804) or the principal investigator listed above. Administrative questions should be addressed to Mr. J. B. Wozniak of my staff at extension 6797.

Sincerely,



Benjamin A. Simmons, Director
Strategic Planning and Evaluation

BAS:dmc
Enclosures (5)

cc: B. D. Shipp, DOE/CH
R. W. Barber, DOE/GTN
C. A. Beckwith, NRC
Office of the Controller, NRC
H. Drucker, ANL

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PDR FOIA
RAPKIN85-438 PDR



PROJECT AND BUDGET PROPOSAL FOR NRC WORK

DATE OF PROPOSAL

May 1, 1985

☒ NEW☐ REVISION NO.

PROJECT TITLE

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

PIN NUMBER

A2157

NRC OFFICE

Office of Nuclear Materials Safety and Safeguards

NRC BAR NUMBER

50-19-01-00

DOE CONTRACTOR

Argonne National Laboratory

CONTRACTOR ACCOUNT
NUMBER

8M482

SITE

9700 S. Cass Avenue, Argonne, IL 60439

DOE BAR 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

10/01/79

OTHER NRC TECHNICAL STAFF

COMPLETION DATE

10/31/86

DOE PROJECT MANAGER

R. Dalton

DOE/CH

972-2229

CONTRACTOR-PROJECT MANAGER

A. J. Dvorak

ANL/ERD

972-4144

PRINCIPAL INVESTIGATOR(S)

S. Y. Tsai

ANL/ERD

972-7798

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

FY 1984

FY 1985

FY 1986

FY

FY

Direct Scientific/Technical

0.3

2.0

1.8

Other Direct (Graded)

≤ 0.1

0.2

0.3

TOTAL DIRECT STAFF YEARS

< 0.4

2.2

2.1

COST PROPOSAL (in thousands)

Direct Salaries

\$ 20.0

\$112.0

\$112.0

Material and Services (Excluding ADP)

0.1

7.1

7.0

ADP Support

0.1

5.5

5.0

Subcontracts

0

0

0

Travel Expenses

Foreign

0

0

0

Domestic

0

13.0

10.0

Indirect Labor Costs

6.4

36.0

40.0

Other (Specify) Biomedical & Environmental
Research Adm. (2.3%)

0.7

5.0

5.0

General and Administrative (17.3 %)

5.7

37.4

37.0

TOTAL OPERATING COST

\$ 33.0

\$216.0

\$216.0

CAPITAL EQUIPMENT

FIN CHARGED:

*Includes \$67K from \$100K in FY84

TOTAL PROJECT COST

\$ 33.0

\$216.0*

\$216.0

FY 85

OCTOBER

NOVEMBER

DECEMBER

JANUARY

FEBRUARY

MARCH

MONTHLY FORECAST
EXPENSE

15.4

7.8

4.2

18.8

6.4

3.4

APRIL

MAY

JUNE

JULY

AUGUST

SEPTEMBER

15

25

30

30

30

30

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

1. Objective of Proposed Work

The objective of this extended work is to prepare a Supplemental Environmental Impact Statement (SEIS) related to the decommissioning of the Kerr-McGee's rare earths facility in West Chicago, Illinois. This study will analyze the environmental, social, and economic impacts associated with the storage or permanent disposal of waste materials at the West Chicago site or at one of the six alternative sites located in the State of Illinois.

2. Summary of Prior Efforts

The Final Environmental Statement (FES) for the decommissioning of the West Chicago rare earths facility (NUREG-0904) was completed and issued by the U.S. Nuclear Regulatory Commission (NRC) in May 1983. Six decommissioning alternatives are considered in the FES. Environmental impacts and cost analyses were performed for each alternative at different levels of detail, depending on the availability of information for each site.

Following the issuance of the FES, the new U.S. Environmental Protection Agency standards governing the stabilization and control of uranium and thorium mill tailings and residues (40 CFR 192) were issued. Argonne National Laboratory (ANL) prepared an assessment report to determine whether the stabilization plan proposed by Kerr-McGee would be in compliance with the technical requirements of the standards. This report was submitted to NRC for review on June 27, 1984.

In addition, ANL has prepared responses to several contentions and interrogatories submitted by the People of the State of Illinois regarding the decommissioning of the facility.

3. Work to be Performed and Expected Results

The work to be performed in this proposed study is summarized as follows:

- A maximum of eight alternatives will be analyzed in detail, including two at the West Chicago site and one at each of six alternative sites.
- At present, the six alternative sites are abandoned clay/shale quarry sites located in the State of Illinois. Other alternative site(s) recommended by the State, with NRC/ANL concurrence, may replace the clay/shale quarry site(s) to maintain a total of only six alternative sites.

3. Work to be Performed and Expected Results (Cont'd.)

- The major issues to be analyzed in depth are: long-term groundwater contamination, containment system durability/stability, near-term and long-term radiological impacts, land-use and socioeconomic impacts, and implementation and maintenance/monitoring costs.
- A summary comparison of the results of the analysis will be presented in a cost-benefit analysis.

The results of all the above analyses will be presented in the SEIS which will be published by NRC.

4. Description of Any Follow-on Efforts

It is anticipated that ANL staff will be called upon to assist NRC staff in providing expert testimony for the Atomic Safety Licensing Board hearing. The schedule for ANL's testimony is not yet determined.

5. Relationship to Other Projects

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

6. Reporting Schedule

The SEIS will be prepared according to the attached schedule (Attachment 1). A monthly letter report will be submitted by the 15th of the month to Mr. W. A. Nixon, Nuclear Material Safety and Safeguards (NMSS), with copy to Office of the Director, NMSS. The report will briefly summarize the following:

- A listing of efforts completed during the period; milestones reached, or if missed, an explanation provided.
- Any problems or delays encountered or anticipated and recommendations for resolution.
- A summary of costs and progress to date.
- 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 and suppliers thereof that might give rise to an apparent or actual conflict of interest.

Attachment 1: Proposed Schedule for Preparation of
the Draft SEIS

Primary Responsibility	Activity	Completion Date
NRC	Approve Supplemental EIS Approach and Advise Parties	May 1, 1985
ILL/NRC/ANL	Identify Potential Alternative Sites	May 31
IL	Provide ANL with Alternative Site Data*	May 31
NRC/ANL	Concur on Sites for Detailed Analysis	June 28
NRC/ANL	Visit Alternative Sites	July 12
ANL	Develop Conceptual Designs for Alternative Sites	Aug. 16
NRC/ANL	Review and Concur on Conceptual Designs for Alternative Sites	Aug. 30
NRC/ANL	Concur on (1) Time Frames for Analysis, (2) Major Issues, and (3) Depth of Analysis	Aug. 30
ANL	Prepare Preliminary Draft Supplemental EIS (PDSEIS) - I	Dec. 23
NRC	Review PDSEIS-I	Jan. 24, 1986
NRC/ANL	Concur on Revisions	Jan. 31
ANL	Prepare PDSEIS-II	Feb. 28
NRC	Review PDSEIS-II	Mar. 14
NRC/ANL	Concur on Revisions	Mar. 14
ANL/NRC	Revise PDSEIS-II	Mar. 28
ANL	Prepare Camera-Ready Draft SEIS	Apr. 18
NRC	Concurrence, Prepare Letters, etc.	May 9
NRC	Print and Distribute DSEIS	May 23
NRC	Issue <u>Federal Register</u> Notice of Availability	May 30
ILL/Public/ Kerr-McGee	Review/Comment on DSEIS	Jul.
NRC	Issue Final SEIS	Jan. 1987

*For any new sites and/or new data on previously considered sites.

DATE OF DOCUMENT 05/14/85	DATE RECEIVED 05/14/85	DU. TE 05/24/85	REVISED DUE DATE	DMPI	ON DATE	CONTROL NUMBER 850483
OFFICE ASSIGNED FC		NAME OF ORIGINATOR AND OFFICE R. S. Brown, Jr. - NMSS 114157				
REFERRED TO E. Davis		DESCRIPTION EVALUATION OF PROPOSAL FROM ARGONNE NATIONAL LABORATORY (FIN A2157)				
TRANSITION TYPE (Code Option)		REMARKS				
_____ 1. Add new items _____ 2. Delete items _____ 3. Change item date _____ 4. Update item status (close out) _____ 5. Revised due date _____ 6. Correct item status						
DISTRIBUTION						
NRC FORM 300 (1-79)		U.S. NUCLEAR REGULATORY COMMISSION				
WORK ITEM TRACKING SYSTEM (WITS, NMSS)						