

MAY 14 1985

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MEMORANDUM FOR: Richard E. Cunningham, Director
 Division of Fuel Cycle and Material Safety

FROM: R. S. Brown, Jr., Director
 Planning and Program Analysis Staff, NMSS

SUBJECT: EVALUATION OF PROPOSAL FROM ARGONNE NATIONAL LABORATORY
 (FIN: A2157)

The enclosed proposal has been received in response to SOEW 50-85-71 dated 3/29/85.

Please review the proposal for acceptability. The following are factors which should be considered in your evaluation. Is the technical work proposed consistent with NMSS program needs? Are schedules and reporting requirements acceptable and set forth clearly in the proposal? Are there omissions or deficiencies in the proposal which conflict with our program needs or with our statement of work in the original request for proposal? Do proposed costs appear reasonable in all categories? Has your Division budgeted for sufficient funding in the current and/or future fiscal years? Please address these and any other issues which may require revisions to either the proposal or to the current statement of work.

Please advise the Planning and Program Analysis Staff/Eleni Davis, (ext. 74072) of your evaluation by return memo by 5/24/85. If you would like assistance in evaluating this proposal, please do not hesitate to call.

Original Signed by
 R. S. Brown, Jr.


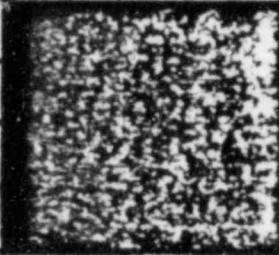
R. S. Brown, Jr., Director
 Planning and Program Analysis Staff, NMSS

Enclosure: As stated

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OFC	: NMSS:PPAS	: NMSS:PPAS	: NMSS:PPAS	:	:	:	:
NAME	: EDavis:mj	: CSeelig	: RSBrown, Jr.	:	:	:	:
DATE	: 5/15/85	: 5/15/85	: 5/14/85	:	:	:	: #26

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NRC FORM 189 (3-81)		U.S. NUCLEAR REGULATORY COMMISSION		DATE OF PROPOSAL May 1, 1985		
 PROJECT AND BUDGET PROPOSAL FOR NRC WORK		<input checked="" type="checkbox"/> NEW <input type="checkbox"/> 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	FTS PHONE NUMBER	PERIOD OF PERFORMANCE		
NRC PROJECT MANAGER W. A. Nixon		NRC/NMSS	427-4510	STARTING DATE 4/1/85		
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		0	0	0		
		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

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FIN No.: A2157-5

Date: May 1, 1985

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.

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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.

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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.

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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
ILL	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.

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