

STRICTION
NMSS/PSB 3.5 (A2156) (A2157)
NMSS r/f
D. Loosley, PSB
E. Leins, WITS - 791437

SEP 25 1979

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

FROM: Robert S. Brown, Jr.
Assistant to the Director
and Chief,
Program Support Branch, NMSS

SUBJECT: EVALUATION OF ANL PROPOSALS (A 2156 and A 2157)

The enclosed proposals were received recently from Argonne National Laboratory. The proposal for FIN A 2157 is in response to the NMSS request of July 19, 1979. Please review the proposals for acceptability.

It is noted that the FY80 funding requirements in the proposals are not presently covered, according to the latest NMSS FY80 Financial Plan. Specifically, there are no funds budgeted for FIN A 2156 and only \$50K budgeted for FIN A 2157, as opposed the ANL proposed amounts of \$60K and \$80K respectively. Please address this apparent shortfall as well as any changes required to the current statements of work and/or proposals for these FINs.

Please advise Program Support (Don Loosley) of your evaluation by return memo by October 5, 1979.

Original signed by
R. S. BROWN, JR.

Robert S. Brown, Jr.
Assistant to the Director
and Chief,
Program Support Branch, NMSS

cc: R. Wilde, FC
W. Crow, FCUF

8508160434 850710
PDR FOIA
RAPKIN85-438 PDR

OFFICE	NMSS:PSB	NMSS:PSB	NMSS:PSB			
SURNAME	D. Loosley, ce	J. D. Evans	R. S. Brown, Jr.			

50-82-29

DATE

DEC 22 1981

STANDARD ORDER FOR DOE WORK

ISSUED TO: (DOE Office)

Chicago Operations Office

ISSUED BY: (NRC Office)

Office of Nuclear Material
Safety and Safeguards (NMSS)

ACCOUNTING CITATION

APPROPRIATION SYMBOL

31X0200.502

B&R NUMBER

50-19-01-01

FIN NUMBER

A 2157-2

PERFORMING ORGANIZATION AND LOCATION

Argonne National Laboratory
Argonne, Illinois 60439

WORK PERIOD - THIS ORDER

FIXED ☒ESTIMATED ☐

FIN TITLE

Licensing Program Support - Environmental Review Assistance

FROM

12/14/81

TO

10/15/82

OBLIGATION AVAILABILITY PROVIDED BY:

A. THIS ORDER

\$ 50,000

B. TOTAL OF ORDERS PLACED PRIOR TO THIS DATE WITH THE PERFORMING ORGANIZATION
UNDER THE SAME "APPROPRIATION SYMBOL" AND THE FIRST FOUR DIGITS OF THE
"B&R NUMBER" CITED ABOVE.

\$ 30,000

C. TOTAL ORDERS TO DATE

(TOTAL A & B)

\$ 80,000

D. AMOUNT INCLUDED IN "C" APPLICABLE TO THE "FIN NUMBER" CITED IN THIS ORDER.

\$ 80,000

FINANCIAL FLEXIBILITY:

☒ FUNDS WILL NOT BE REPROGRAMMED BETWEEN FINs. LINE D CONSTITUTES A LIMITATION ON OBLIGATIONS
AUTHORIZED.☐ FUNDS MAY BE REPROGRAMMED NOT TO EXCEED $\pm 10\%$ OF FIN LEVEL UP TO \$50K. LINE C CONSTITUTES A LIMITATION
ON OBLIGATIONS AUTHORIZED.STANDARD TERMS AND CONDITIONS PROVIDED DOE ARE CONSIDERED PART OF THIS ORDER
UNLESS OTHERWISE NOTED.

ATTACHMENTS:

THE FOLLOWING ATTACHMENTS ARE HEREBY
MADE A PART OF THIS ORDER:

- ☐
- STATEMENT OF WORK
-
- ☐
- ADDITIONAL TERMS AND CONDITIONS
-
- ☐
- OTHER

SECURITY:

- ☒
- WORK ON THIS ORDER IS NOT CLASSIFIED.
-
- ☐
- WORK ON THIS ORDER INVOLVES CLASSIFIED
-
- INFORMATION. NRC FORM 187 IS ATTACHED.

REMARKS:

Reference SOEW 50-82-06 dated 10/19/81 and ANL Form 189 dated 8/17/81.

This order provides the balance of funding required in accordance with the
referenced 189.

ISSUING AUTHORITY

ACCEPTING ORGANIZATION

SIGNATURE

R. S. Brown, Jr.

SIGNATURE

Billy D. Shipp, Acting Director

TITLE

Assistant to the Director and Chief,
Program Support Branch, NMSS

TITLE

Technology Management Division

DATE

JAN 8 1982

8207150013

STANDARD ORDER FOR DOE WORK

50-82-06

DATE

OCT 19 1981

ISSUED TO: (DOE Office)

Chicago Operations Office

ISSUED BY: (NRC Office)

Office of Nuclear Material
Safety and Safeguards (NMSS)

ACCOUNTING CITATION

APPROPRIATION SYMBOL
31X0200.502B&R NUMBER
50-19-01-01FIN NUMBER
A 2157-2PERFORMING ORGANIZATION AND LOCATION
Argonne National Laboratory
Argonne, Illinois 60439

FIN TITLE

Licensing Program Support-Environmental Review Assistance

WORK PERIOD - THIS ORDER

FIXED ☒ESTIMATED ☐FROM
10/15/81TO
10/15/82

OBLIGATION AVAILABILITY PROVIDED BY:

A. THIS ORDER

\$ 30,000

B. TOTAL OF ORDERS PLACED PRIOR TO THIS DATE WITH THE PERFORMING ORGANIZATION
UNDER THE SAME "APPROPRIATION SYMBOL" AND THE FIRST FOUR DIGITS OF THE
"B&R NUMBER" CITED ABOVE

\$ - 0 -

C. TOTAL ORDERS TO DATE

(TOTAL A & B)

\$ 30,000

D. AMOUNT INCLUDED IN "C" APPLICABLE TO THE "FIN NUMBER" CITED IN THIS ORDER

\$ 30,000

FINANCIAL FLEXIBILITY:

☒ FUNDS WILL NOT BE REPROGRAMMED BETWEEN FINIS. LINE D CONSTITUTES A LIMITATION ON OBLIGATIONS
AUTHORIZED.☐ FUNDS MAY BE REPROGRAMMED NOT TO EXCEED $\pm 10\%$ OF FIN LEVEL UP TO \$50K. LINE C CONSTITUTES A LIMITATION
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- ☐
- ADDITIONAL TERMS AND CONDITIONS
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- ☐
- OTHER

SECURITY:

- ☒
- WORK ON THIS ORDER IS NOT CLASSIFIED
-
- ☐
- WORK ON THIS ORDER INVOLVES CLASSIFIED
-
- INFORMATION. NRC FORM 187 IS ATTACHED.

REMARKS:

Reference ANL Form 189 dated August 17, 1981.

This order provides a revised FY82 statement of work (SOW) and an initial increment
of funding in the amount of \$30K. Additional FY82 funding shall be provided at a
later date subject to NRC funding availability and NRC satisfaction concerning
performance quality and timeliness.

ISSUING AUTHORITY

SIGNATURE

R. S. Brown, Jr.

TITLE

Assistant to the Director and Chief,
Program Support Branch, NMSS

ACCEPTING ORGANIZATION

SIGNATURE

William D. Seipp, Acting Director

TITLE

Technology Management Division

DATE

11/2/81

8207130011

STATEMENT OF WORK (SOW) FOR
LICENSING PROGRAM SUPPORT - ENVIRONMENTAL REVIEW ASSISTANCE

FIN A2157-2
B&R 50-19-01-01

1.0 Background

Evaluation of probable or potential environmental impacts is an integral part of the licensing process for uranium fuel cycle facilities. In accordance with Nuclear Regulatory Commission (NRC) regulations, environmental appraisals or environmental impact statements (EIS) are required to support licensing decisions on new license applications, license renewals, proposed major modifications of facilities, and, in some cases, decommissioning plans for uranium recovery operations, fuel processing and fabrication facilities, and for related types of activities. The NRC's Office of Nuclear Material Safety and Safeguards (NMSS) requires technical assistance in conducting its environmental evaluations of applicant proposals and in the preparation of the associated environmental appraisal reports and environmental impact statements (draft and final statements). Argonne National Laboratory (ANL) has provided such assistance in FY79 under NMSS Project A2010-9 and in FY80 and FY81 FIN A2157. This project is a continuation of that effort.

2.0 Work Required

The performing organization shall furnish the necessary qualified personnel, facilities, materials and services to complete the final environmental statement for the Kerr-McGee West Chicago task initiated in FY78 under FIN No. A2010. This will include the resolution of comments received on the draft environmental statement. The target task completion date will be during the 4th Quarter of FY82.

3.0 Reporting Requirements

3.1 Monthly Letter Status Report

Each month, the performing organization shall submit six (6) copies of a brief letter report which summarizes: (1) the work performed during the previous month; (2) personnel time expenditures during the previous month; and (3) costs: (a) during the previous month, (b) cumulative to date (fiscal year and total), and (c) projection by month to completion of the work effort covered by this statement of work. The first monthly report shall provide the initial projection and subsequent reports shall either indicate revised projections or indicate "no change in the cost projection." The report shall be due by the 15th of each month with distribution as follows:

W. A. Nixon, NMSS, 5 copies
Office of the Director, NMSS (Program Support), 1 copy

3.2 Preliminary Draft Environmental Impact Statement
(EIS), Draft EIS and Final EIS

A revised preliminary draft of the EIS will be completed and submitted in the second quarter of FY82. Following review by NMSS staff, the draft EIS (DEIS) will be issued by the end of the second quarter of FY82. The printed final environmental statement, consisting of the revised EIS, the comments on the DEIS from other Federal/State agencies and the private sector, and appropriate responses to these comments will be released within the fourth quarter of FY82.

The following number of copies of the required reports shall be furnished by the performing organization:

Preliminary Draft EIS - 5 copies
Draft EIS - 50 copies
Final EIS - 50 copies

4.0 Meetings and Travel

The performing organization shall meet approximately four times with the NMSS PM to discuss the results of the work. Those meetings shall be of one day's duration and shall be held at the NRC offices in Silver Spring, Maryland.

5.0 NRC Furnished Material

There will be no NRC furnished material.

6.0 Period of Performance

Performance under this work order shall commence on October 15, 1981, and shall continue through October 15, 1982.

7.0 Technical Direction

Mr. W. A. Nixon (FTS 427-4510) is designated as the NMSS Project Manager (PM) for the purpose of assuring that the services required under this SOW are delivered in accordance herewith. All technical instructions to the DOE performing organization shall be issued through the NMSS PM. As used herein, technical instructions are instructions to the Contractor which provide details, suggest possible lines of inquiry, or

7.0 Technical Direction (Continued)

otherwise complete the general scope of work set forth herein. Technical instructions shall not constitute new assignments of work or changes of such a nature as to justify an adjustment in cost or period of performance. Direction for changes in cost or period of performance will be provided by the DOE Operations Office after receipt of an appropriate NRC Form 173 from the Director of the Office of Nuclear Material Safety and Safeguards (NMSS).

If the DOE performing organization receives guidance from the NMSS PM which is believed to be invalid under the criteria cited above, the performing organization shall immediately notify the NMSS PM. If the NMSS PM and the performing organization are not able to resolve the question within five days, the performing organization shall notify the DOE Operations Office.

8.0 Disposal of Property

Upon completion of a program or termination of a project, a reconciled report will be developed jointly by DOE and NRC to record available equipment and related material purchased with NRC funds. This report should be developed as soon as possible after program completion or termination decision has been made, but not later than sixty (60) days after work termination date. The report should be submitted to the Property and Supply Branch, NRC.

NRC FORM 173
(2-78)

③ 7/16/81 PPB 35. A205
U.S. NUCLEAR REGULATORY COMMISSION
CC W. H. Nixon Jr.

STANDARD ORDER FOR DOE WORK

ORDER NUMBER

50-81-02

DATE

OCT 08 1980

ISSUED TO: (DOE Office)

Chicago Operations Office

ISSUED BY: (NRC Office)

Office of Nuclear Material
Safety and Safeguards (NMSS)

ACCOUNTING CITATION

APPROPRIATION SYMBOL

31X0200.501

B&R NUMBER

50-19-01-01

FIN NUMBER

A 2157-1

WORK PERIOD - THIS ORDER

FIXED ☒

ESTIMATED ☐

FROM:

10/1/80

TO:

10/31/81

FIN TITLE

Licensing Program Support-Environmental Review Assistance

OBLIGATION AVAILABILITY PROVIDED BY:

A. THIS ORDER

\$ 90,000

B. TOTAL OF ORDERS PLACED PRIOR TO THIS DATE WITH THE PERFORMING ORGANIZATION UNDER THE SAME "APPROPRIATION SYMBOL" AND THE FIRST FOUR DIGITS OF THE "B&R NUMBER" CITED ABOVE

\$ 0

C. TOTAL ORDERS TO DATE

(TOTAL A & B)

\$ 90,000

D. AMOUNT INCLUDED IN "C" APPLICABLE TO THE "FIN NUMBER" CITED IN THIS ORDER.

\$ 90,000

FINANCIAL FLEXIBILITY:

☒ FUNDS WILL NOT BE REPROGRAMMED BETWEEN FINs. LINE D CONSTITUTES A LIMITATION ON OBLIGATIONS AUTHORIZED.

☐ FUNDS MAY BE REPROGRAMMED NOT TO EXCEED $\pm 10\%$ OF FIN LEVEL UP TO \$50K. LINE C CONSTITUTES A LIMITATION ON OBLIGATIONS AUTHORIZED.

STANDARD TERMS AND CONDITIONS PROVIDED DOE ARE CONSIDERED PART OF THIS ORDER UNLESS OTHERWISE NOTED.

ATTACHMENTS:

THE FOLLOWING ATTACHMENTS ARE HEREBY MADE A PART OF THIS ORDER:

☒ STATEMENT OF WORK

☐ ADDITIONAL TERMS AND CONDITIONS

☐ OTHER

SECURITY:

☒ WORK ON THIS ORDER IS NOT CLASSIFIED.

☐ WORK ON THIS ORDER INVOLVES CLASSIFIED INFORMATION. NRC FORM 187 IS ATTACHED.

REMARKS:

This order provides obligational authority for technical assistance as delineated in the enclosed statement of work and in ANL Schedule 189, A 2157, dated August 1980.

ISSUING AUTHORITY

SIGNATURE

R. S. Brown, Jr.

TITLE Assistant to the Director
and Chief, Program Support Branch, NMSS

ACCEPTING ORGANIZATION

SIGNATURE

Max E. Jackson

TITLE

Director, Technology Management Division

DATE

DEC 13 1980

NRC FORM 173 (2-78)

8204713001/2 + 11/2/80

STATEMENT OF WORK (SOW) FOR
LICENSING PROGRAM SUPPORT - ENVIRONMENTAL REVIEW ASSISTANCE

FIN A2157-1
B&R 50-19-01-01

1.0 Background

Evaluation of probable or potential environmental impacts is an integral part of the licensing process for uranium fuel cycle facilities. In accordance with Nuclear Regulatory Commission (NRC) regulations, environmental appraisals or environmental impact statements (EIS) are required to support licensing decisions on new license applications, license renewals, proposed major modifications of facilities, and, in some cases, decommissioning plans for uranium recovery operations, fuel processing and fabrication facilities, and for related types of activities. The NRC's Office of Nuclear Material Safety and Safeguards (NMSS) requires technical assistance in conducting its environmental evaluations of applicant proposals and in the preparation of the associated environmental appraisal reports and environmental impact statements (draft and final statements). Argonne National Laboratory (ANL) has provided such assistance in FY79 under NMSS Project A2010-9 and in FY80 under FIN A2157-0. This project is a continuation of that effort.

2.0 Work Required

The performing organization shall furnish the necessary qualified personnel, facilities, materials and services to complete the final environmental statement for the Kerr-McGee West Chicago task initiated in FY78 under FIN No. A2010. This will include the resolution of comments received on the draft environmental statement. The target task completion date will be during the 4th Quarter of FY81.

3.0 Reporting Requirements

3.1 Monthly Letter Status Report

Each month, the performing organization shall submit six (6) copies of a brief letter report which summarizes: (1) the work performed during the previous month; (2) personnel time expenditures during the previous month; and (3) costs: (a) during the previous month, (b) cumulative to date (fiscal year and total), and (c) projection by month to completion of the work effort covered by this statement of work. The first monthly report shall provide the initial projection and subsequent reports shall either indicate revised projections or indicate "no change in the cost projection." The report shall be due by the 15th of each month with distribution as follows:

W. A. Nixon, NMSS, 5 copies
Office of the Director, NMSS (Program Support), 1 copy

3.2 Preliminary Draft Environmental Impact Statement (EIS) And Draft EIS

The performing organization shall submit a preliminary draft EIS (5 copies) to the NMSS Project Manager concerning the site by January 1, 1981. The format of the report will follow the outline submitted to NRC by ANL in a letter dated August 13, 1980.

The NMSS Project Manager shall provide written comments to the performing organization by February 1, 1981. The performing organization shall include these comments in the draft EIS which shall be provided to the NMSS Project Manager (50 copies) by March 1, 1981.

The project schedule after March 1, 1981 cannot yet be determined because of the unknown length of the public comment period and other variables. However, this SOW shall be amended by issuance of an NRC Form 173 before October 31, 1981 to define the remainder of the project schedule. When the schedule is redefined the NMSS PM will furnish comments on the draft EIS to the performing organization. Based on these comments, the performing organization shall revise the draft and submit the final EIS fifty (50) copies to the NMSS PM and one (1) to the Office of the Director, NMSS (Program Support) not later than one month after comment on the draft EIS have been received (See Paragraph 12 of the Terms and Conditions Standard Order for DOE Work).

4.0 Meetings and Travel

The performing organization shall meet approximately four times with the NMSS PM to discuss the results of the work. Those meetings shall be of one day's duration and shall be held at the NRC offices in Silver Spring, Maryland.

5.0 NRC Furnished Material

There will be no NRC furnished material.

6.0 Period of Performance

Performance under this work order shall commence on October 1, 1980, and shall continue through October 31, 1981.

7.0 Technical Direction

Mr. W. A. Nixon (FTS 427-4510) is designated as the NMSS Project Manager (PM) for the purpose of assuring that the services required under this SOW are delivered in accordance herewith. All technical instructions to the DOE performing organization shall be issued through the NMSS PM. As used herein, technical instructions are instructions to the Contractor which provide details, suggest possible lines of inquiry, or

7.0 Technical Direction (Continued)

otherwise complete the general scope of work set forth herein. Technical instructions shall not constitute new assignments of work or changes of such a nature as to justify an adjustment in cost or period of performance. Direction for changes in cost or period of performance will be provided by the DOE Operations Office after receipt of an appropriate NRC Form 173 from the Director of the Office of Nuclear Material Safety and Safeguards (NMSS).

If the DOE performing organization receives guidance from the NMSS PM which is believed to be invalid under the criteria cited above, the performing organization shall immediately notify the NMSS PM. If the NMSS PM and the performing organization are not able to resolve the question within five days, the performing organization shall notify the DOE Operations Office.

8.0 Disposal of Property

Upon completion of a program or termination of a project, a reconciled report will be developed jointly by DOE and NRC to record available equipment and related material purchased with NRC funds. This report should be developed as soon as possible after program completion or termination decision has been made, but not later than sixty (60) days after work termination date. The report should be submitted to the Property and Supply Branch, NRC.

STANDARD ORDER FOR DOE WORK

50-80-13

DATE

NOV 16 1979

ISSUED TO: (DOE Office)

Chicago Operations Office

ISSUED BY: (NRC Office)

Office of Nuclear Material
Safety and Safeguards (NMSS)

ACCOUNTING CITATION

APPROPRIATION SYMBOL

31X0200.500

B&R NUMBER

50-19-01-01

FIN NUMBER

A 2157-0

PERFORMING ORGANIZATION AND LOCATION

Argonne National Laboratory (ANL)
Argonne, Illinois 60439

FIN TITLE

Licensing Program Support-Environmental Review Assistance

WORK PERIOD - THIS ORDER

FIXED ☒ESTIMATED ☐

FROM:

10/1/79

TO:

9/30/80

OBLIGATION AVAILABILITY PROVIDED BY:

A. THIS ORDER

\$ 80,000

B. TOTAL OF ORDERS PLACED PRIOR TO THIS DATE WITH THE PERFORMING ORGANIZATION
UNDER THE SAME "APPROPRIATION SYMBOL" AND THE FIRST FOUR DIGITS OF THE
"B&R NUMBER" CITED ABOVE

\$ 60,000

C. TOTAL ORDERS TO DATE

(TOTAL A & B)

\$ 140,000

D. AMOUNT INCLUDED IN "C" APPLICABLE TO THE "FIN NUMBER" CITED IN THIS ORDER.

\$ 80,000

FINANCIAL FLEXIBILITY:

- ☒ FUNDS WILL NOT BE REPROGRAMMED BETWEEN FINs. LINE D CONSTITUTES A LIMITATION ON OBLIGATIONS AUTHORIZED.
- ☐ FUNDS MAY BE REPROGRAMMED NOT TO EXCEED $\pm 10\%$ OF FIN LEVEL UP TO \$50K. LINE C CONSTITUTES A LIMITATION ON OBLIGATIONS AUTHORIZED.

STANDARD TERMS AND CONDITIONS PROVIDED DOE ARE CONSIDERED PART OF THIS ORDER
UNLESS OTHERWISE NOTED.

ATTACHMENTS:

THE FOLLOWING ATTACHMENTS ARE HEREBY
MADE A PART OF THIS ORDER:

- ☒ STATEMENT OF WORK
- ☐ ADDITIONAL TERMS AND CONDITIONS
- ☐ OTHER

SECURITY:

- ☒ WORK ON THIS ORDER IS NOT CLASSIFIED.
- ☐ WORK ON THIS ORDER INVOLVES CLASSIFIED INFORMATION. NRC FORM 187 IS ATTACHED.

REMARKS:

This order provides obligational authority for technical assistance as delineated in the enclosed statement of work and in ANL Schedule 189, A 2157, dated August 1979.

Mr. William A. Nixon (FTS 427-4510) is designated the NMSS Project Manager, replacing Mr. William T. Crow.

ISSUING AUTHORITY

SIGNATURE

Robert S. Brown, Jr.

ACCEPTING ORGANIZATION

SIGNATURE

M. E. Jackson, Director

TITLE Assistant to the Director
and Chief, Program Support Branch, NMSS

TITLE

Technology Management Division

DATE

DEC 5 1979

8207/130008

October 1, 1979

STATEMENT OF WORK (SOW) FOR
LICENSING PROGRAM SUPPORT - ENVIRONMENTAL REVIEW ASSISTANCE

FIN A2157-0
B&R 50-19-01-01

1.0 Background

Evaluation of probable or potential environmental impacts is an integral part of the licensing process for uranium fuel cycle facilities. In accordance with Nuclear Regulatory Commission (NRC) regulations, environmental appraisals or environmental impact statements (EIS) are required to support licensing decisions on new license applications, license renewals, proposed major modifications of facilities, and, in some cases, decommissioning plans for uranium recovery operations, fuel processing and fabrication facilities, and for related types of activities. The NRC's Office of Nuclear Material Safety and Safeguards (NMSS) requires technical assistance in conducting its environmental evaluations of applicant proposals and in the preparation of the associated environmental appraisal reports and environmental impact statements (draft and final statements). Argonne National Laboratory (ANL) has provided such assistance in FY79 under NMSS Project A2010-9. This project (A2157-0) is related to that effort.

2.0 Work Required

The performing organization shall furnish the necessary qualified personnel, facilities, materials and services to complete the final environmental statement for the Kerr-McGee West Chicago task initiated in FY78 under FIN No. A2010. This will include the preparation of a revised draft environmental impact statement reflecting the latest available information on decommissioning and stabilization alternatives, the resolution of comments received on the draft report and preparation of a final environmental impact statement. The target task completion date will be during the 4th Quarter of FY 80.

3.0 Reporting Requirements

3.1 Monthly Letter Status Report

Each month, the performing organization shall submit eleven (11) copies of a brief letter report which summarizes: (1) the work performed during the previous month; (2) personnel time expenditures during the previous month;

Enclosure 1
SOEW 50-80-13

3.1 Monthly Letter Status Report (Continued)

and (3) costs: (a) during the previous month, (b) cumulative to date (fiscal year and total), and (c) projection by month to completion of the work effort covered by this statement of work. The first monthly report shall provide the initial projection and subsequent reports shall either indicate revised projections or indicate "no change in the cost projection." The report shall be due by the 15th of each month with distribution as follows:

W. A. Nixon, NMSS, 10 copies
Office of the Director, NMSS (Program Support), 1 copy

3.2 Interim and Final Technical Report

A draft interim report (15 copies) shall be submitted concerning the site within 90 days of completion of the site survey. This draft report shall be sent to the NMSS Project Manager (PM). The detailed format of this report will be agreed upon after the survey because the report will relate on an "ad hoc" basis to the West Chicago site; however, generally the report shall include: (1) abstract, (2) introduction, (3) survey methods, (4) guidelines used to evaluate results, (5) survey results, and (6) references.

The NMSS PM will furnish comments on the draft report to the performing organization within two weeks after receipt of the draft. Based upon those comments, the performing organization shall revise the draft and submit the final report in fifteen (15) copies to the NMSS PM and one (1) to the Office of the Director, NMSS (Program Support) not later than one month after comments on the draft report have been received. (See Paragraph 12 of Terms and Conditions Standard Order for DOE Work.)

4.0 Meetings and Travel

The performing organization shall meet approximately four times with the NMSS PM to discuss the results of the work. Those meetings shall be of one day's duration and shall be held at the NRC offices in Silver Spring, Maryland.

5.0 NRC Furnished Material

There will be no NRC furnished material.

6.0 Period of Performance

Performance under this work order shall commence on October 1, 1979, and shall continue through September 30, 1980.

7.0 Technical Direction

Mr. W. A. Nixon (FTS 427-4510) is designated as the NMSS Project Manager (PM) for the purpose of assuring that the services required under this SOW are delivered in accordance herewith. All technical instructions to the DOE performing organization shall be issued through the NMSS PM. As used herein, technical instructions are instructions to the Contractor which provide details, suggest possible lines of inquiry, or otherwise complete the general scope of work set forth herein. Technical instructions shall not constitute new assignments of work or changes of such a nature as to justify an adjustment in cost or period of performance. Direction for changes in cost or period of performance will be provided by the DOE Operations Office after receipt of an appropriate NRC Form 173 from the Director of the Office of Nuclear Material Safety and Safeguards (NMSS).

If the DOE performing organization receives guidance from the NMSS PM which is believed to be invalid under the criteria cited above, the performing organization shall immediately notify the NMSS PM. If the NMSS PM and the performing organization are not able to resolve the question within five days, the performing organization shall notify the DOE Operations Office.

8.0 Disposal of Property

Upon completion of a program or termination of a project, a reconciled report will be developed jointly by DOE and NRC to record available equipment and related material purchased with NRC funds. This report should be developed as soon as possible after program completion or termination decision has been made, but not later than sixty (60) days after work termination date. The report should be submitted to the Property and Supply Branch, NRC.

ARGONNE NATIONAL LABORATORY

9700 SOUTH CASS AVENUE, ARGONNE, ILLINOIS 60439

D. LOOSLEY

35 H2157

Telephone 312/972-3115

September 23, 1980

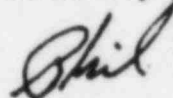
Mr. William J. Dircks, Director
Office of Nuclear Material Safety
and Safeguards
Mail Stop 958-SS
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Dear Mr. Dircks:

Enclosed are two copies of the ANL/EIS Monthly Report for
the month ending August 31, 1980.

With best personal regards,

Sincerely yours,



P. F. Gustafson, Director
Division of Environmental
Impact Studies

PFG/amw
Enc.

cc: J. E. Ayer
W. T. Crow
R. E. Cunningham
J. J. Linehan
D. Loosley
D. E. Martin
J. B. Martin
H. J. Miller
W. A. Nixon
R. G. Page
L. C. Rouse
R. A. Scarano

820 5050286

ARGONNE NATIONAL LABORATORY
OFFICE OF NUCLEAR MATERIAL SAFETY AND
SAFEGUARDS

Report for the month ending August 31, 1980.

A. STATUS OF ENVIRONMENTAL STATEMENTS

. Consultant Services (A2010) - R. A. Zussman, Project Leader

No payments for billings on this contract were made this month.

. Western Nuclear (A2010) - E. W. Daniels, Project Leader

There was no activity on the Split Rock Mill this month.

. Union Carbide Gas Hills (A2010) - E. W. Daniels, Project Leader

The Final Environmental Impact Statement for the operation of the Gas Hills Uranium Project (FEIS-OL) was received from the press. It is dated July, 1980. Most of the preparatory documents have now been filed in storage.

. Natural Phenomena Project (A2150) - J. E. Carson, Project Leader

The camera-ready mats for the Exxon-Richland facility were completed and sent to NMSS.

. Milling Operations Programmatic Statement (A2143) - G. L. Montet, Project Leader

The Final version of the Statement is under review by the NRC Commissioners. We are awaiting their comments.

. Kerr-McGee (A2157) - J. L. Saguinsin, Project Leader

The revised EIS outline was sent to the NRC EPM (W. A. Nixon) in the middle of the month. Two new alternatives were included: Alternative III - Off-Site Disposal at Currently Unlicensed Storage Sites Within the State Identified by Kerr-McGee, and Alternative IV - Interim (Short-Term) Decommissioning Alternative.

Work on the EIS has resumed, focusing on the above alternatives. Our goal is to submit a preliminary draft EIS to NRC by November 30 of this year.

B. BUDGET

The cost report for August is attached.

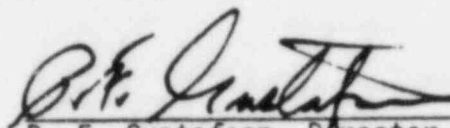
C. OVERDUE ACTIONS BY FCMS REGARDING LABORATORY REQUEST

None

Monthly Report - August 1980
September 23, 1980
Page 2

D. REMARKS

Preliminary telephone discussions have been held concerning the possibility of ANL providing assistance to NMSS for the transfer of B. Gureghian's groundwater model to experts on the NMSS staff. A block of time for such assistance can be made available after September 1, 1980.



P. F. Gustafson, Director
Division of Environmental Impact Studies

C. BUDGET - The Division of Fuel Cycle and Material Safety
Total Cost to Date Through August 31, 1980, (Including Previous FY's)

Fin No.	Project Title	Effort in Man Months			Effort Related Cost K\$			Other Direct Costs K\$ (Travel, Graphics and Supplies)			Supportive ^b Cost K\$			Total Cost K\$		
		Aug	FY	Total	Aug	FY	Total	Aug	FY	Total	Aug	FY	Total	Aug	FY	Total
		1980	1980	To Date	1980	1980	To Date	1980	1980	To Date	1980	1980	To Date	1980	1980	To Date
A2010 FUEL CYCLE - FRONT END																
	Consultant Services	-	-	-	-	-	-	4.2	34.9	34.9	-	-	-	4.2	34.9	34.9
	*Pioneer Uranium	-	1.0	1.0	-	5.1	5.1	-	-	-	-	0.6	0.6	-	5.7	5.7
	*Kerr-McGee W. Chg.	-	-	51.9	-	-	188.8	-	-	31.5	-	-	33.6	-	-	253.9
	Western Nuclear	-	2.1	64.9	0.1	9.8	259.0	-	0.8	28.9	-	2.8	44.3	0.1	13.4	332.2
	Union Carbide	0.5	20.8	72.3	3.1	97.4	296.1	0.4	12.4	40.6	-	11.5	45.4	3.5	121.3	382.1
	General ^a	0.5	2.8	-	2.3	13.5	-	-	25.1	-	-	1.5	-	2.3	40.1	-
	TOTAL	1.0	26.7	-	5.5	125.8	-	4.6	73.2	-	-	16.4	-	10.1	215.4	-
	A2150 - Natural Phenomena	0.5	6.6	43.4	2.4	32.3	179.6	2.1	56.4	430.6	-	-	-	4.5	88.7	610.2
	A2143 - UMOGES	0.8	23.1	240.3	4.2	112.1	839.7	18.0	127.6	328.4	-	-	-	22.2	239.7	1168.1
	A2157 - Kerr-McGee	1.0	8.8	8.8	5.1	41.2	41.2	5.1	15.1	15.1	-	-	-	10.2	56.3	56.3

^aGeneric effort and associated general costs.

^bRedistributed general costs not attributable to specific projects, i.e., general supplies, conferences, etc.

*Closed.

THIS REPORT IS A REFLECTION OF THE DATA BASE USED FOR BILLING BUT IS INTENDED FOR INFORMATION ONLY - NOT FOR BILLING PURPOSES.

ARGONNE NATIONAL LABORATORY

9700 SOUTH CASS AVENUE, ARGONNE, ILLINOIS 60439

3.5/0-2157)

Telephone 312/972-3115

July 30, 1980

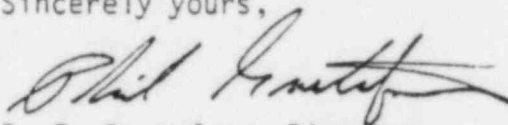
Mr. William J. Dircks, Director
Office of Nuclear Material Safety
and Safeguards
Mail Stop 958-SS
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Dear Mr. Dircks:

Enclosed are two copies of the ANL/EIS Monthly Report for
the month ending June 30, 1980.

With best personal regards,

Sincerely yours,



P. F. Gustafson, Director
Division of Environmental
Impact Studies

PFG/amw
Enc.

cc: J. E. Ayer
W. T. Crow
R. E. Cunningham
J. J. Linehan
D. Loosley
D. E. Martin
J. B. Martin
H. J. Miller
W. A. Nixon
R. G. Page
L. C. Rouse
R. A. Scarano

8205050263

ARGONNE NATIONAL LABORATORY
OFFICE OF NUCLEAR MATERIAL SAFETY AND
SAFEGUARDS

Report for the month ending June 30, 1980.

A. STATUS OF ENVIRONMENTAL STATEMENTS

. Consultant Services (A2010) - R. A. Zussman, Project Leader

A technical assessment concerning the Pioneer-Uravan project was received from the consultant, and the Williams-Robinette and Associates, Inc. billing for the work was paid. The contract was increased to \$30K this month in anticipation of an overrun; however, funding on this project is now near exhaustion.

. Western Nuclear (A2010) - N. J. Beskid, Project Leader

Project charges this month came to a total of 0.5 man-months. These charges were for effort expended in preparing draft responses to allegations in a petition to intervene in the Western Nuclear licensing action by the Wyoming Outdoor Council.

. Union Carbide Gas Hills (A2010) - N. J. Beskid, Project Leader

Effort charges for this month are 0.0. Although some four days effort (by the ANL Project Leader) were involved in finalizing the Gas Hills FES draft in the end of June, they will be included in the July report as they were too late for inclusion here. An effort-cost adjustment of 0.1 man-month was made for this project.

. Natural Phenomena Project (A2150) - J. E. Carson, Project Leader

Editing and typing of the NUREG report for Exxon-Richland continues.

. Milling Operations Programmatic Statement (A2143) - G. L. Montet, Project Leader

Current effort is devoted to preparing a review copy of the Final Statement. The ANL portion of the statement was delivered to the NRC in various pouches, with the last submission on 27 June 1980. The ANL project leader reviewed the conclusionary chapters of the FES at NRC offices on 24 June 1980.

. Kerr-McGee (A2157) - J. L. Saguinsin, Project Leader

We attended a meeting requested by Kerr-McGee and held at Silver Springs, Maryland on June 18. Topics discussed were (1) the kinds of radiation standards (existing and in-house) that Kerr-McGee may use in the course of its decommissioning work, and (2) alternate disposal sites. Kerr-McGee has narrowed its selection down to five or six candidate sites and has started

Monthly Report - June 1980
July 30, 1980
Page 2

A. STATUS OF ENVIRONMENTAL STATEMENTS (Cont'd.)

. Kerr-McGee (A2157) - J. L. Saguinsin, Project Leader (Cont'd.)

additional data collection of these sites. Other activities for the month include the reduction of well water quality data and construction of isoconcentration plots to be included in our water quality analysis for the EIS.

B. BUDGET


The cost report for June is attached.

C. OVERDUE ACTIONS BY FCMS REGARDING LABORATORY REQUEST

None

D. REMARKS

None



P. F. Gustafson, Director
Division of Environmental Impact Studies

C. BUDGET - The Division of Fuel Cycle and Material Safety
Total Cost to Date Through June 30, 1980, (Including Previous FY's)

Fin No.	Project Title	Effort in Man Months			Effort Related Cost K\$			Other Direct Costs K\$ (Travel, Graphics and Supplies)			Supportive ^b Cost K\$			Total Cost K\$		
		Jun	FY	Total	Jun	FY	Total	Jun	FY	Total	Jun	FY	Total	Jun	FY	Total
		1980	1980	To Date	1980	1980	To Date	1980	1980	To Date	1980	1980	To Date	1980	1980	To Date
A2010	FUEL CYCLE - FRONT END															
	Consultant Services	-	-	-	-	-	-	1.9	23.7	23.7	-	-	-	1.9	23.7	23.7
	*Pioneer Uranium	-	1.0	1.0	-	5.1	5.1	-	-	-	-	0.6	0.6	-	5.7	5.7
	*Kerr-McGee W. Chg.	-	-	51.9	-	-	188.8	-	-	31.5	-	-	33.6	-	-	253.9
	Western Nuclear	0.5	2.0	64.8	2.5	9.2	258.4	-	0.8	28.9	2.0	2.8	44.3	4.5	12.8	331.6
	Union Carbide	-	18.0	69.5	0.1	85.5	284.2	1.1	11.5	39.7	-	10.8	44.7	1.2	107.8	368.6
	General ^a	0.1	2.1	-	0.5	10.2	-	25.0	25.1	-	0.4	1.4	-	25.9	36.7	-
	TOTAL	0.6	23.1	-	3.1	110.0	-	28.0	61.1	-	2.4	15.6	-	33.5	186.7	-
A2150	Natural Phenomena	1.0	5.9	42.7	4.7	28.9	176.2	5.2	43.9	418.1	-	-	-	9.9	72.8	594.3
A2143	UMOGES	2.4	20.8	238.0	11.4	101.4	829.0	12.5	108.5	309.3	-	-	-	23.9	209.9	1138.3
A2157	Kerr-McGee	0.7	7.3	7.3	2.0	33.6	33.6	4.0	7.6	7.6	-	-	-	6.0	41.2	41.2

^aGeneric effort and associated general costs.

^bRedistributed general costs not attributable to specific projects, i.e., general supplies, conferences, etc.

*Closed

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ARGONNE NATIONAL LABORATORY

9700 SOUTH CASS AVENUE, ARGONNE, ILLINOIS 60439

D-60564

TELEPHONE 312/972-3115

File 2.5 (A2157)

May 27, 1980

Mr. William J. Dircks, Director
Office of Nuclear Material
Safety and Safeguards
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Dear Mr. Dircks:

Enclosed are two copies of the ANL/EIS Monthly Report for
the month ending April 30, 1980.

With best personal regards,

Sincerely yours,



P. F. Gustafson, Director
Division of Environmental
Impact Studies

PFG/amw
Enc.

cc: J. E. Ayer
W. T. Crow
R. E. Cunningham
M. E. Krug
J. J. Linehan
D. Loosley
J. B. Martin
H. J. Miller
W. A. Nixon
R. G. Page
L. C. Rouse
R. A. Scarano

800 9090723

ARGONNE NATIONAL LABORATORY
OFFICE OF NUCLEAR MATERIAL SAFETY AND
SAFEGUARDS

Report for the month ending April 30, 1980.

A. STATUS OF ENVIRONMENTAL STATEMENTS

. Consultant Services (A2010) - R. A. Zussman, Project Leader

Technical responses to public comments on the Uranium Milling GEIS have been completed by the contractor.

. Western Nuclear (A2010) - N. J. Beskid, Project Leader

The project leader participated in two days of meetings with NRC, their consultant and representatives of Wyoming DEQ and U.S. EPA Region VIII. These meetings were held in Cheyenne, Wyoming and Denver, Colorado on April 30 and May 1, and were for the most part related to comments on the Split Rock FES.

. Union Carbide Gas Hills (A2010) - N. J. Beskid, Project Leader

No activity this month.

. Natural Phenomena Project (A2150) - J. E. Carson, Project Leader

Input unavailable.

. Milling Operations Programmatic Statement (A2143) - G. L. Montet, Project Leader

The ANL team has assisted NMSS in revision of some parts of the DES and responded to comments in several categories. In addition, several contracts have been placed to aid NRC in updating the statement. The large number of comments received has resulted in a more extensive revision and production effort than originally anticipated.

. Kerr-McGee (A2157) - J. L. Saguinsin, Project Leader

Work on the sampling of Thoron (Radon-220) and Radon (Radon-222) in the West Chicago area is proceeding as scheduled. Also, we are finalizing the portion of the EIS pertaining to on-site stabilization or burial of waste. Our evaluation will then subsequently focus on the alternative of off-site disposal based on specific site(s) indicated by Kerr-McGee.

B. BUDGET

The cost report for April is attached.

Monthly Report - April 1980
May 27, 1980
Page 2

C. OVERDUE ACTIONS BY FCMS REGARDING LABORATORY REQUEST

None

D. REMARKS

In accord with Mr. Brown's letter of April 4 to Mr. Bauer, the mobile laboratory (van) has been transferred to Oak Ridge Associated Universities (ORAU). The transfer took place on April 29, when personnel from ORAU picked up the van at Argonne.



P. F. Gustafson, Director
Division of Environmental Impact Studies

C. BUDGET - The Division of Fuel Cycle and Material Safety.
Total Cost to Date Through April 30, 1980, (Including Previous FY's)

Fin No.	Project Title	Effort in Man Months			Effort Related Cost K\$			Other Direct Costs K\$ (Travel, Graphics and Supplies)			Supportive ^b Cost K\$			Total Cost K\$		
		Apr 1980	FY 1980	Total To Date	Apr 1980	FY 1980	Total To Date	Apr 1980	FY 1980	Total To Date	Apr 1980	FY 1980	Total To Date	Apr 1980	FY 1980	Total To Date
A2010 FUEL CYCLE - FRONT END																
	Consultant Services	-	-	-	-	-	-	8.4	18.2	18.2	-	-	-	8.4	18.2	18.2
	*Pioneer Uranium	-	1.0	1.0	-	5.0	5.0	-	-	-	-	0.6	0.6	-	5.6	5.6
	*Kerr-McGee W. Chg.	-	-	51.9	-	0.1	188.8	-	0.1	31.6	-	-	33.6	-	0.2	254.0
	Western Nuclear	0.3	1.2	64.0	1.3	5.2	254.4	0.6	0.8	28.9	0.3	0.8	42.3	2.2	6.8	325.6
	Union Carbide	0.8	18.0	69.5	3.7	85.4	284.1	0.4	10.4	38.6	0.8	10.8	44.7	4.9	106.6	367.4
	General ^a	0.1	1.8	-	0.5	8.7	-	-	-	-	0.1	1.0	-	0.6	9.7	-
	TOTAL	1.2	22.0	-	5.5	104.4	-	9.4	29.5	-	1.2	13.2	-	16.1	147.1	-
A2150	- Natural Phenomena	1.4	4.3	41.1	7.1	21.2	168.5	(0.6)	34.3	408.5	-	-	-	6.5	55.5	577.0
A2143	- UMOGES	4.7	14.9	232.1	22.5	73.2	800.8	28.0	87.5	288.3	-	-	-	50.5	160.7	1089.1
A2157	- Kerr-McGee	0.4	4.8	4.8	2.0	22.7	22.7	-	3.5	3.5	-	-	-	2.0	26.2	26.2

^aGeneric effort and associated general costs.

^bRedistributed general costs not attributable to specific projects, i.e., general supplies, conferences, etc.

*Closed.

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ARGONNE NATIONAL LABORATORY

9700 SOUTH CASS AVENUE, ARGONNE, ILLINOIS 60439

3.5(A 2157)
TELEPHONE 312/972-3115

August 15, 1980

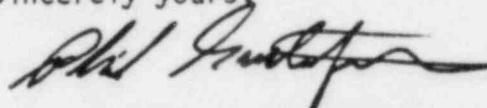
Mr. William J. Dircks, Director
Office of Nuclear Material Safety
and Safeguards
Mail Stop 958-SS
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Dear Mr. Dircks:

Enclosed are two copies of the ANL/EIS Monthly Report for
the month ending July 31, 1980.

With best personal regards,

Sincerely yours,



P. F. Gustafson, Director
Division of Environmental
Impact Studies

PFG/amw
Enc.

cc: J. E. Ayer
W. T. Crow
R. E. Cunningham
J. J. Linehan
D. Loosley ✓
D. E. Martin
J. B. Martin
H. J. Miller
W. A. Nixon
R. G. Page
L. C. Rouse
R. A. Scarano

8205058 280

ARGONNE NATIONAL LABORATORY
OFFICE OF NUCLEAR MATERIAL SAFETY AND
SAFEGUARDS

Report for the month ending July 31, 1980.

A. STATUS OF ENVIRONMENTAL STATEMENTS

. Consultant Services (A2010) - R. A. Zussman, Project Leader

This contract has been increased to \$40K. ANL is in receipt of a report and billing dated July 1, 1980, concerning consulting work on the Western Nuclear Split Rock Project. A June 5, 1980, billing for consulting work on the Pioneer Uranium project was paid.

. Western Nuclear (A2010) - E. W. Daniels, Project Leader

Some effort this month was directed to the preparation of draft responses to petitioners' allegations related to intervention in the Split Rock mill licensing action.

. Union Carbide Gas Hills (A2010) - E. W. Daniels, Project Leader

Effort this month was directed toward revisions to the final draft final EIS for the Gas Hills mill. Work involved preparing text revisions in the document, as well as a reassessment of groundwater quality and section rewriting.

. Natural Phenomena Project (A2150) - J. E. Carson, Project Leader

Editing of the NUREG report for the Exxon-Richland facility was completed and the camera-ready mats were being prepared for publication by NRC.

. Milling Operations Programmatic Statement (A2143) - G. L. Montet, Project Leader

The ANL effort during July was devoted to helping NRC personnel in the last-minute preparations of various sections of the GEIS for review by the NRC Commissioners. Transmittals were frequent throughout the month, with the last submission hand-carried (by Yu-Chien Yuan, who was attending a meeting in Bethesda) to NRC on 30 July 1980.

. Kerr-McGee (A2157) - J. L. Saguinsin, Project Leader

Work on Thoron and Radon measurements in the West Chicago area is proceeding. A detailed description of the sampling program was submitted earlier to the NRC/EPM (W. A. Nixon). We anticipate resumption of work on the EIS next month, with effort focused on the evaluation of alternative candidate disposal sites within the State that have been identified by Kerr-McGee.

Monthly Report - July 1980
August 15, 1980
Page 2

B. BUDGET

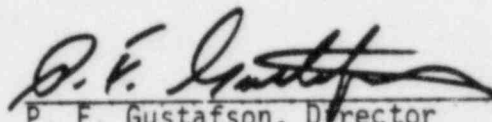
The cost report for July is attached.

C. OVERDUE ACTIONS BY FCMS REGARDING LABORATORY REQUEST

None

D. REMARKS

None



P. F. Gustafson, Director
Division of Environmental Impact Studies

C. BUDGET - The Division of Fuel Cycle and Material Safety
Total Cost to Date Through July 31, 1980, (Including Previous FY's)

Fin No.	Project Title	Effort in Man Months			Effort Related Cost K\$			Other Direct Costs K\$ (Travel, Graphics and Supplies)			Supportive ^b Cost K\$			Total Cost K\$		
		July 1980	FY 1980	Total To Date	July 1980	FY 1980	Total To Date	July 1980	FY 1980	Total To Date	July 1980	FY 1980	Total To Date	July 1980	FY 1980	Total To Date
A2010 FUEL CYCLE - FRONT END																
	Consultant Services	-	-	-	-	-	-	7.0	30.7	30.7	-	-	-	7.0	30.7	30.7
	*Pioneer Uranium	-	1.0	1.0	-	5.1	5.1	-	-	-	-	0.6	0.6	-	5.7	5.7
	*Kerr-McGee W. Chg.	-	-	51.9	-	-	188.8	-	-	31.5	-	-	33.6	-	-	253.9
	Western Nuclear	0.1	2.1	64.9	0.5	9.7	258.9	-	0.8	28.9	-	2.8	44.3	0.5	13.3	332.1
	Union Carbide	2.3	20.3	71.8	8.8	94.3	293.0	0.5	12.0	40.2	0.7	11.5	45.4	10.0	117.8	378.1
	General ^a	0.2	2.3	-	1.0	11.2	-	-	25.1	-	0.1	1.5	-	1.1	37.8	-
	TOTAL	2.6	23.8	-	10.3	120.3	-	7.5	68.6	-	0.8	16.4	-	18.6	205.3	-
	A2150 - Natural Phenomena	0.2	6.1	42.9	1.0	29.9	177.2	10.4	54.3	428.5	-	-	-	11.4	84.2	605.7
	A2143 - UMOGES	1.5	22.3	239.5	6.5	107.9	835.5	1.1	109.6	310.4	-	-	-	7.6	217.5	1145.9
	A2157 - Kerr-McGee	0.5	7.8	7.8	2.5	36.1	36.1	2.4	10.0	10.0	-	-	-	4.9	46.1	46.1

^a Generic effort and associated general costs.

^b Redistributed general costs not attributable to specific projects, i.e., general supplies, conferences, etc.

*Closed.

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DRAFT

NRC FORM 189
(3-81)

U.S. NUCLEAR REGULATORY COMMISSION



PROJECT AND BUDGET PROPOSAL FOR NRC WORK

DATE OF PROPOSAL

August 17, 1981

☐ NEW

☐ REVISION NO.

PROJECT TITLE

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

FIN NUMBER

A2157

NRC B&R NUMBER

40-10-01-05

NRC OFFICE

Office of Nuclear Material Safety & Safeguards

DOE CONTRACTOR

Argonne National Laboratory

CONTRACTOR ACCOUNT

NUMBER

8M482

DOE B&R NUMBER

40-10-01-05

SITE

9700 S. Cass Avenue, Argonne, IL 60439

COGNIZANT PERSONNEL

ORGANIZATION

FTS PHONE NUMBER

PERIOD OF PERFORMANCE

NRC PROJECT MANAGER

William A. Nixon

NRC

427-4510

STARTING DATE

10/01/79

OTHER NRC TECHNICAL STAFF

COMPLETION DATE

09/30/82

DOE PROJECT MANAGER

Richard Tom

DOE/CH

972-2820

CONTRACTOR-PROJECT MANAGER

William J. Hallett

ANL/EIS

972-3117

PRINCIPAL INVESTIGATOR(S)

J. L. Saguinsin

ANL/EIS

972-3197

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

FY 81

FY 82

FY N/A

FY N/A

FY N/A

Direct Scientific/Technical

1.1

0.9

Other Direct (Graded)

0.2

0.1

TOTAL DIRECT STAFF YEARS

1.3

1.0

COST PROPOSAL

Direct Salaries

\$ 46

\$ 41

Material and Services (Excluding ADP)

13

10

ADP Support

0

0

Subcontracts

2

0

Travel Expenses

Foreign

0

0

Domestic

0

2

Indirect Labor Costs

27

23

Other (Specify)

0

0

General and Administrative (%)

FY81 - 2.34%

2

4

FY82 - 4.42%

TOTAL OPERATING COST

\$ 90

\$ 80

CAPITAL EQUIPMENT

FIN CHARGED: N/A

TOTAL PROJECT COST

\$ 90

\$ 80

FY 82 (in thousands)

OCTOBER

NOVEMBER

DECEMBER

JANUARY

FEBRUARY

MARCH

\$15

\$15

\$15

-

-

\$ 7

MONTHLY FORECAST

APRIL

MAY

JUNE

JULY

AUGUST

SEPTEMBER

\$ 7

\$ 6

\$ 4

\$ 4

\$ 4

\$ 3

EXPENSE

820713

PROJECT AND BUDGET PROPOSAL FOR NRC WORK

A2157

DATE

August 17, 1981

PROJECT TITLE

Environmental Impact Statement on the Decommissioning of the Kerr-McGee West Chicago 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 81				FY 82				FY 83				FY 84				FY 85			
		1st	2nd	3rd	4th	1st	2nd	3rd	4th	1st	2nd	3rd	4th	1st	2nd	3rd	4th	1st	2nd	3rd	4th
Preliminary Draft EIS	SCHEDULE	△————▲																			
	COST	\$70,000																			
Radon & Thoron Measurements	SCHEDULE	△————▲																			
	COST	\$20,000																			
Revised PDEIS	SCHEDULE					△————▲															
	COST					\$69,000															
Final EIS	SCHEDULE									△————▲											
	COST					\$11,000															
	SCHEDULE																				
	COST																				
TOTAL ESTIMATED PROJECT COST		\$90,000				\$80,000															

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

R. J. Hallett

R. E. Rowland 9/1/81

DATE

8/17/81

Project Title: Environmental Impact Statement on the Decommissioning of the
Kerr-McGee West Chicago Facility

1. Objective of Proposed Work:

The objective is to prepare an environmental impact statement (EIS) for the decommissioning of the West Chicago facility and to undertake site surveys and field measurements necessary for an adequate characterization of the burial site environment. Similar characterizations will be made for disposal sites identified as likely candidate alternate sites by Kerr-McGee and by us in consultation with the NRC environmental project manager. The completed EIS will serve as a basis for the NRC action on the application by Kerr-McGee for the ultimate disposition of its West Chicago facility.

The EIS will contain a characterization of existing conditions at the site, including the potential for migration of radionuclides. A number of decommissioning alternatives will be evaluated, including: 1) permanent onsite disposal or burial of thorium and rare earth residuals under one or more engineered configurations; 2) onsite storage for an indeterminate period of time with later consideration of disposal; and 3) packaging and shipment of residuals to other possible candidate burial sites, including those within and beyond the State of Illinois.

2. Summary of Prior Efforts:

ANL completed work on the assessment of permanent onsite disposal of wastes and site decommissioning. Sites identified by Kerr-McGee as the most promising alternative burial sites within Illinois were also evaluated. These included abandoned surface coal mines, limestone quarries and clay/shale quarries. A preliminary draft EIS was submitted to NRC in May, 1981.

Radon and thoron measurements were also conducted in the West Chicago area to establish useful baseline information for background levels of these two gaseous emanations.

3. Work to be Performed and Expected Results:

The remaining work on the EIS will be concluded, with emphasis placed on the assessment of the alternative involving onsite storage of wastes for an indeterminate period of time with later consideration for disposal. A revised preliminary draft of the EIS will then be completed and submitted in the second quarter of FY82. Following review by NMSS staff, the draft EIS (DEIS) will be issued by the end of the second quarter of FY82. The printed final environmental statement, consisting of the revised EIS, the comments on the DEIS from other federal/state agencies and the private sector, and appropriate responses to these comments will be released within the fourth quarter of FY82.

4. Description of any Follow-on Efforts:

Not Applicable

5. Relationship to Other Projects:

Not Applicable

6. Reporting Schedule:

A preliminary draft EIS was submitted to NRC in May 1981. The following are to be submitted in FY 1982:

Revised PDEIS	-	2nd Quarter FY82
Printed DEIS	-	2nd Quarter FY82
Final EIS	-	4th Quarter FY82

7. Subcontractor Information:

Not Applicable

8. List of New Capital Equipment Required:

Not Applicable

9. Describe Special Facilities Required:

Not Applicable

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.

**NUCLEAR REGULATORY COMMISSION
PROGRAM BUDGET**

IDENT. NO. A2157

August 1980

1. TITLE

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



2. BUDGET ACTIVITY NO.

DOE 40-10-01-05
ANL 8M482

NRC 50-19-01-01

3. SCIENTIST RESPONSIBLE

P. F. Gustafson/J. L. Saguinsin

4. WORK STARTED

FY Continuous

5. RELATED WORK (With Same Contractor or Others)

Licensing Program Support - Environmental Review Support
Office of Nuclear Material Safety and Safeguards (NMSS) (A2010)

6. PERSON POWER AND COST DATA

	FY 1980	FY 1981 PRESIDENT'S BUDGET	FY 1981 INCREM. REQUIRE.	FY 1982
6a. DIRECT PERSON POWER				
(Person Years)				
SCIENTIFIC				
REGULAR	0.9	0.9	-	-
TEMP. PAID BY ANL	-	-	-	-
TOTAL SCIENTIFIC	0.9	0.9	-	-
OTHER TECHNICAL				
REGULAR	0.1	0.1	-	-
TEMP. PAID BY ANL	-	-	-	-
TOTAL OTHER TECHNICAL	0.1	0.1	-	-
TOTAL PERSON YEARS	1.0	1.0	-	-

6b. OPERATING COSTS

(In Thousands)

DIRECT SALARIES	\$ 33	\$ 36	\$ 0	\$ 0
MATERIALS AND SERVICES	21	26	0	0
MAJOR PROCUREMENTS	0	0	0	0
INDIRECT COSTS	26	28	0	0
TOTAL COST	\$ 80	\$ 90	\$ 0	\$ 0

6c. CAPITAL EQUIPMENT

(In Thousands)

*Discussed 189
on 9/30/80 with Roy Turner
ANL. He stated that 189
was in error and that
\$90K is required in FY81.
RJ*

6d. MAJOR PROCUREMENTS

None

6e. COST (Recap of Subactivities) (In Thousands)

Not Applicable

7. DESCRIPTIONScope

ANL will provide assistance to the Office of Nuclear Materials Safety and Safeguards in the preparation of an environmental impact statement for the decommissioning of the Kerr-McGee Corporation rare earth facility located in West Chicago, Illinois. The statement will contain a characterization of existing conditions at the site, including the potential for migration of radionuclides. A number of decommissioning alternatives will be evaluated, including: 1) burial of thorium and rare earth residuals onsite, 2) packaging and shipment of residuals to other possible candidate burial sites, including those within and beyond the State of Illinois.

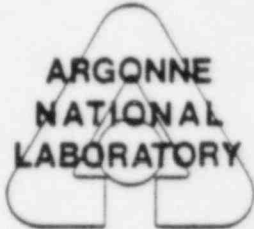
Objectives

The objectives are to prepare an environmental impact statement (EIS) for the decommissioning of the West Chicago facility and to undertake site surveys and field measurements necessary for an adequate characterization of the burial site environment. Similar characterizations will be made for disposal sites identified as likely candidate alternate sites by Kerr-McGee and by us in consultation with the NRC environmental project manager. The completed EIS will serve as a basis for the NRC action on the application by Kerr-McGee for the termination of its license.

Methods

An independent assessment of the probable or potential environmental impacts resulting from the decommissioning of the West Chicago facility will be prepared by a multidisciplinary team of engineers, scientists and socioeconomists. A description of the existing site as well as other candidate burial sites will be undertaken to define baseline conditions. Data from existing surveys by federal, state and private agencies, as well as those found in the literature will be compiled and, as necessary, supplemented by field studies and observations. The description of the candidate burial site environments will be given in terms of their natural, physical, radiological, and socioeconomic components. Particular emphasis will be placed on abstracting and presenting data from past site radiological surveys by ANL.

Activities involved in implementing the various decommissioning alternatives will be identified in sufficient technical detail

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<p>1. TITLE</p> <p>Environmental Impact Statement on the Decommissioning of the Kerr-McGee West Chicago Facility</p>		
<p>2. BUDGET ACTIVITY NO.</p> <p>DOE 40-10-01-05 NRC 50-19-01-01</p> <p>ANL 8M482</p>		
<p>7. <u>DESCRIPTION</u> (Cont'd.)</p> <p><u>Methods</u> (Cont'd.)</p> <p>to allow environmental analysis and evaluation. Possible environmental impacts will be evaluated by analyzing those beneficial and adverse effects on the natural, physical, radiological, and socioeconomic environments. Measures necessary to mitigate such impacts, including the required monitoring programs and accident contingency plans, will be identified and their effectiveness assessed. Conformity or conflict with any local land use plans will be determined as well as the commitment of energy and other depletable resources, having in mind the potential for conservation for each decommissioning alternative.</p> <p><u>Accomplishments for NMSS in FY 1980</u></p> <p>ANL essentially completed the portion of the draft EIS pertaining to onsite burial of wastes and site decommissioning. This work has also been supplemented by a sampling program for Thoron (Radon-220) and Radon (Radon-222) in the West Chicago area to establish useful baseline information for background levels of these two gaseous emanations, with sampling data spanning at least a period of a year.</p> <p><u>Accomplishments for NMSS through FY 1981</u></p> <p>Effort will turn to the assessment of decommissioning alternatives involving shipment to and burial of wastes at a number of specified candidate burial sites. This activity will span the first three to four months of FY 1981. A preliminary draft of the EIS will then be completed and submitted in the second quarter of FY 1981. Following review by NMSS staff, a printed draft EIS (DEIS) will be issued by the end of the second quarter of FY 1981. The printed final environmental statement, consisting of the revised EIS, the comments on the DEIS from other federal/state agencies and the private sector, and appropriate responses to these comments will be released within the fourth quarter of FY 1981.</p>		

7. DESCRIPTION (Cont'd.)

Anticipated Accomplishments in FY 1982


As a follow-up, assistance will be extended to NMSS in the analysis of environmental problems at other sites similar to the Kerr-McGee West Chicago facility and in the preparation of environmental impact statements on the final decommissioning of these other problem sites.


8. EXPLANATION OF MAJOR PROCUREMENTS

Not Applicable

9. EXPLANATION OF CAPITAL EQUIPMENT

Not Applicable

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2. BUDGET ACTIVITY NO. DOE 40-10-01-05 ANL 8M482				
3. SCIENTIST RESPONSIBLE P. F. Gustafson/J. L. Saguinsin		4. WORK STARTED FY Continuous		
5. RELATED WORK (With Same Contractor or Others) Licensing Program Support - Environmental Review Support Office of Nuclear Material Safety and Safeguards (NMSS) (A2010)				
6. PERSON POWER AND COST DATA				
	FY 1979	FY 1980 PRESIDENT'S BUDGET	FY 1980 INCREM. REQUIRE.	FY 1981
6a. DIRECT PERSON POWER (Person Years)				
SCIENTIFIC				
REGULAR	-	1.0	-	-
TEMP. PAID BY ANL	-	-	-	-
TOTAL SCIENTIFIC	-	1.0	-	-
OTHER TECHNICAL				
REGULAR	-	-	-	-
TEMP. PAID BY ANL	-	-	-	-
TOTAL OTHER TECHNICAL	-	-	-	-
TOTAL PERSON YEARS	-	1.0	-	-
6b. OPERATING COSTS (In Thousands)				
DIRECT SALARIES	-	\$35	-	-
MATERIALS AND SERVICES	-	20	-	-
MAJOR PROCUREMENTS	-	0	-	-
INDIRECT COSTS	-	25	-	-
TOTAL COST	-	\$80	-	-
6c. CAPITAL EQUIPMENT (In Thousands)				
	-	-	-	-
8207130015				
6d. MAJOR PROCUREMENTS				
None				

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2. BUDGET ACTIVITY NO. DOE ANL				
7. <u>DESCRIPTION (Cont'd.)</u> <u>Accomplishments for NMSS in FY 1979</u> Under Project A2010, ANL completed a radiological survey of the West Chicago area for NRC, Office of Inspection and Enforcement, Region III. The results were published as NUREG/CR-0413. <u>Accomplishments for NMSS through FY 1980</u> A preliminary draft of the EIS will be completed and submitted by the end of the first quarter of 1980. Following review by NMSS staff, a printed draft EIS (DEIS) will be issued by the end of the second quarter of FY 1980. The printed final environmental statement, consisting of the revised EIS, the comments on the DEIS from other federal/state agencies and the private sector, and appropriate responses to those comments will be released within the fourth quarter of FY 80. <u>Anticipated Accomplishments in FY 1981</u> As a follow-up, assistance will be extended to NMSS in the analysis of environmental problems at other sites similar to the Kerr-McGee West Chicago facility and in the preparation of environmental impact statements on the final decommissioning of these other problem sites.				
8. <u>EXPLANATION OF MAJOR PROCUREMENTS</u> Not Applicable				
9. <u>EXPLANATION OF CAPITAL EQUIPMENT</u> Not Applicable				