



DEPARTMENT OF THE AIR FORCE  
HEADQUARTERS 377TH AIR BASE WING (AFMC)

Barbara ✓  
Counseling  
OS Dept  
File

17 July 1996

377 ABW/EMR  
2000 Wyoming Blvd SE  
Kirtland AFB NM 87117-5659

Mr. Benito Garcia, Chief  
Hazardous & Radioactive Materials Bureau  
New Mexico Environment Department  
PO Box 26110  
Santa Fe NM 87502



Dear Mr. Garcia

Enclosed are the permit-required quarterly reports. I realize the format is not the one preferred by the NMED; however, our tasking to contractors went out well before Mr. Pullen notified me of the correct format. I felt it would be imprudent to have them change formats in "mid-stream."

Next quarter's report will be properly formatted and consolidated according to the example sent by Mr. Pullen. Please contact me at (505) 846-0053 if you have any questions.

Sincerely

  
CHRISTOPHER B. DEWITT, R.P.G.  
Chief, Restoration Branch  
Environmental Management Division

Attachment:  
Quarterly Report

cc:  
NMED-HRMB (Mr. Pullen)  
EPA Region 6 (Ms. Morlock)

KAFB1787





661 ANDERSEN DRIVE PITTSBURGH, PENNSYLVANIA 15220-2745 (412) 921-7090

C-49-07-6-057

July 8, 1996

Halliburton NUS Project Nos. 2A56 (Appendix II) , 0494 (Appendix III), 2A96 (Appendix IV), 3A76 (Appendix V), and 3A77 (Annex B)

Mr. Rodney Arnold  
Contracting Officer's Representative  
AFCEE/ESR  
8001 Inner Circle Drive  
Suite 2  
Brooks AFB, Texas 78235-5328

Reference: USAF Contract No. F33615-90-D-4011  
Delivery Order 0022

**Subject: Quarterly Report**

Period Covered: March 31, 1995 through June 29, 1996

Dear Mr. Arnold:

The following is a summary of project activities conducted during the period of performance for the above-listed RCRA Facility Investigation. This report summarizes the activities as described in the project monthly R&D status reports for each monthly reporting period. The format used in this report is somewhat modified for the March monthly report which illustrates the relationship of the projects by appendicies, stages, and project numbers. Future reports will not use the term stages when referring to the Kirtland AFB projects. Kindly notify me if I can provide further clarification to this correspondance.

Very truly yours,

A handwritten signature in black ink, appearing to read "Roger A. Clark".

Roger A. Clark, Ph.D.  
Program Manager

RAC/sic

cc: Mr. Chris DeWitt  
Mr. Anthony Klimek  
Mr. Mark Thacker  
file

**R&D STATUS REPORT  
MARCH 31, 1996 THROUGH APRIL 27, 1996  
RFI FOR  
KIRTLAND AIR FORCE BASE, NEW MEXICO  
CONTRACT NO. F33615-90-D-4011  
DELIVERY ORDER 0022**

**PREPARED BY HALLIBURTON NUS CORPORATION  
May 20, 1995**

The Scope of Work for Delivery Order 22 consists of RCRA Facility Investigations for five major projects. These projects correlate generally to the lists of SWMUs attached (appendices) to the RCRA Part B Permit for Kirtland AFB. Historically, these projects have been referred to informally as stages of the Kirtland RCRA Facility Investigation. For Halliburton NUS accounting purposes, these projects are further identified by Halliburton NUS Project Numbers. The relationships of the appendices, stages, and Halliburton NUS Project Numbers are summarized in the table below.

Permit Designation	Stage	HNUS Project Number
Appendix II	2B	2A56
Appendix III	2C	0494
Appendix IV	2D	2A96
Appendix V	2E	3A76
Annex B		3A77

*(Note: A sixth component of the Delivery Order - Annex C (Halliburton NUS Project No. 3A78) is currently inactive.)*

For purposes of this Research and Development (R&D) Status Report, the specific projects are referred to as appendices. Each of these projects is presented in separate sections of this report.

## APPENDIX II

Scope of Work- the project activities are divided into the following tasks:

- Task 01 - Project Management
- Task 02 - Scoping Documents
- Task 03 - Field Investigation
- Task 04 - Informal Technical Information Reports
- Task 05 - RFI Report
- Task 06 - Miscellaneous Reports
- Task 07 - Meetings

During the performance period the following occurred:

1. Technical Progress

Task 01 - Project Management

Performed routine project management functions.

Task 02 - Scoping Documents

Worked on Draft Final Appendix II Phase 2 Sampling and Analysis Plan, Kirtland AFB Style Guide for IRP Documents, and engineering estimates.

Task 03 - Field Investigation

Continued field activities.

Task 04 - Informal Technical Information Reports

Worked on comments received on analytical ITIR.

2. Planned Activities

Task 03 - Field Investigation

Continue field activities.

Task 07 - Meetings

The next monthly progress review meeting will be held on May 15, 1996, at Kirtland AFB.

3. Problems Encountered/Proposed Solutions

None.

4. Key Personnel Changes

None

5. Schedule

The project remains on schedule.

6. Budget

See attached Performance and Cost Report.

**APPENDIX III**

Scope of Work- the project activities are divided into the following tasks:

- Task 01 - Project Management
- Task 02 - Scoping Documents
- Task 03 - Field Investigation
- Task 04 - Informal Technical Information Reports
- Task 05 - RFI Report
- Task 06 - Miscellaneous Reports
- Task 07 - Meetings

During the performance period the following occurred:

1. Technical Progress

Task 01 - Project Management

Performed routine project management functions.

Task 02 - Scoping Documents

Continued preparation of the Draft Final Appendix III Phase 2 Sampling and Analysis Plan.

Task 03 - Field Investigation

Field logistics for the upcoming field effort.

2. Planned Activities

Task 07 - Meetings

The next monthly progress review meeting will be held on May 15, 1996, at Kirtland AFB.

3. Problems Encountered/Proposed Solutions

None.

4. Key Personnel Changes

None.

5. Schedule

The project remains on schedule.

6. Budget

See attached Performance and Cost Report.

#### **APPENDIX IV**

Scope of Work- the project activities are divided into the following tasks:

- Task 01 - Project Management
- Task 02 - Scoping Documents
- Task 03 - Field Investigation
- Task 04 - Informal Technical Information Reports
- Task 05 - RFI Report
- Task 06 - Miscellaneous Reports
- Task 07 - Meetings

During the reporting period the following occurred:

1. Technical Progress

Task 01 - Project Management

Performed routine project management functions.

Task 02 - Scoping Documents

Organized project files, reviewed comments received on 2D-1 RFI Report in preparation for the 2D-2 RFI Report.

Task 03 - Field Investigation

Removal of the emergency holding storage tanks.

Task 05 - RFI Report

Continued preparation of the RFI Report.

2. Planned Activities

Task 05 - RFI Report

Preparation of the RFI Report will continue.

Task 07 - Meetings

The next monthly progress review meeting will be held on May 15, 1996, at Kirtland AFB.

3. Problems Encountered/Proposed Solutions

None.

4. Key Personnel Changes

None.

5. Schedule

The project remains on schedule. The next deliverable date is for the Appendix IV (2D-2) RFI Report due to AFCEE, EPA, and KAFB on June 30, 1996.

6. Budget

See attached Performance and Cost Report.

## APPENDIX V

Scope of Work- the project activities are divided into the following tasks:

- Task 01 - Project Management
- Task 02 - Scoping Documents
- Task 03 - Field Investigation
- Task 04 - Informal Technical Information Reports
- Task 05 - RFI Report
- Task 06 - Miscellaneous Reports
- Task 07 - Meetings

During the reporting period the following occurred:

1. Technical Progress

Task 01 - Project Management

Performed routine project management functions.

Task 02 - Scoping Documents

Organization of project files.

2. Planned Activities

Task 07 - Meetings

The next monthly progress review meeting will be held on May 15, 1996, at Kirtland AFB.

3. Problems Encountered/Proposed Solutions

None.

4. Key Personnel Changes

None.

5. Schedule

The project remains on schedule.

6. Budget

See attached Performance and Cost Report.

## ANNEX B

Scope of Work- the project activities are divided into the following tasks:

- Task 01 - Project Management
- Task 02 - Scoping Documents
- Task 03 - Field Investigation
- Task 04 - Informal Technical Information Reports
- Task 05 - RFI Report
- Task 06 - Miscellaneous Reports
- Task 07 - Meetings

During the reporting period the following occurred:

1. Technical Progress

Task 01 - Project Management

Performed routine project management functions.

Task 02 - Scoping Documents

Correspondence regarding fencing removal and installation.

Task 03 - Field Investigation

Continued fence removal and installation and issued statement of work for other upcoming activities.

2. Planned Activities

Task 03 - Field Investigation

Continue Annex B field activities.

Task 07 - Meetings

The next monthly progress review meeting will be held on May 15, 1996, at Kirtland AFB.

3. Problems Encountered/Proposed Solutions

None.

4. Key Personnel Changes

None.

5. Schedule

The project remains on schedule.

6. Budget

See attached Performance and Cost Report.



**R&D STATUS REPORT  
MAY 26, 1996 THROUGH JUNE 29, 1996  
RFI FOR  
KIRTLAND AIR FORCE BASE, NEW MEXICO  
CONTRACT NO. F33615-90-D-4011  
DELIVERY ORDER 0022**

**PREPARED BY HALLIBURTON NUS CORPORATION  
June 10, 1996**

The Scope of Work for Delivery Order 22 consists of RCRA Facility Investigations for five major projects. These projects correlate generally to the lists of SWMUs attached (appendices) to the RCRA Part B Permit for Kirtland AFB. Historically, these projects have been referred to informally as stages of the Kirtland RCRA Facility Investigation. For Halliburton NUS accounting purposes, these projects are further identified by Halliburton NUS Project Numbers. The relationships of the appendices, stages, and Halliburton NUS Project Numbers are summarized in the table below.

Permit Designation	Stage	HNUS Project Number
Appendix II	2B	2A56
Appendix III	2C	0494
Appendix IV	2D	2A96
Appendix V	2E	3A76
Annex B		3A77

*(Note: A sixth component of the Delivery Order - Annex C (Halliburton NUS Project No. 3A78) is currently inactive.)*

For purposes of this Research and Development (R&D) Status Report, the specific projects are referred to as appendices. Each of these projects is presented in separate sections of this report.

## APPENDIX II

Scope of Work- the project activities are divided into the following tasks:

- Task 01 - Project Management
- Task 02 - Scoping Documents
- Task 03 - Field Investigation
- Task 04 - Informal Technical Information Reports
- Task 05 - RFI Report
- Task 06 - Miscellaneous Reports
- Task 07 - Meetings

During the performance period the following occurred:

1. Technical Progress

Task 01 - Project Management

Performed routine project management functions.

Task 02 - Scoping Documents

Worked on Draft Final Appendix II Phase 2 Sampling and Analysis Plan and Kirtland AFB Style Guide for IRP Documents.

Task 03 - Field Investigation

Continued field activities.

Task 05 - RFI Report

Work was begun on the RFI Report.

Task 06 - Miscellaneous Reports

Work on a field data summary report.

Task 07 - Meetings

A field status meeting was held.

2. Planned Activities

Task 03 - Field Investigation

Continue field activities.

Task 07 - Meetings

The next monthly progress review meeting will be held on July 11, 1996, at Kirtland AFB.

3. Problems Encountered/Proposed Solutions

None.

4. Key Personnel Changes

None

5. Schedule

The project remains on schedule.

6. Budget

See attached Performance and Cost Report.

**APPENDIX III**

Scope of Work- the project activities are divided into the following tasks:

- Task 01 - Project Management
- Task 02 - Scoping Documents
- Task 03 - Field Investigation
- Task 04 - Informal Technical Information Reports
- Task 05 - RFI Report
- Task 06 - Miscellaneous Reports
- Task 07 - Meetings

During the performance period the following occurred:

1. Technical Progress

Task 01 - Project Management

Performed routine project management functions.

Task 02 - Scoping Documents

Work was continued on the Kirtland AFB style guide for IRP documents.

Task 03 - Field Investigation

Waste management and general field logistics were conducted prior to the upcoming field effort.

Task 06 - Miscellaneous Reports

Review of status of the Kirtland AFB Delivery Order and funding status.

2. Planned Activities

Task 07 - Meetings

The next monthly progress review meeting will be held on July 11, 1996, at Kirtland AFB.

3. Problems Encountered/Proposed Solutions

None.

4. Key Personnel Changes

None.

5. Schedule

The project remains on schedule.

6. Budget

See attached Performance and Cost Report.

## APPENDIX IV

Scope of Work- the project activities are divided into the following tasks:

- Task 01 - Project Management
- Task 02 - Scoping Documents
- Task 03 - Field Investigation
- Task 04 - Informal Technical Information Reports
- Task 05 - RFI Report
- Task 06 - Miscellaneous Reports
- Task 07 - Meetings

During the reporting period the following occurred:

1. Technical Progress

Task 01 - Project Management

Performed routine project management functions.

Task 02 - Scoping Documents

Organized project files, reviewed comments received on 2D-1 RFI Report in preparation for the 2D-2 RFI Report.

Task 03 - Field Investigation

Removal of sediment from evaporation beds for emergency holding storage tanks water.

Task 04 - Informal Technical Information reports

Work on the data reports for the RFI Report.

Task 05 - RFI Report

The Final Draft RFI Report was submitted to AFCEE, Kirtland AFB, and the regulators on June 28, 1996.

2. Planned Activities

Task 07 - Meetings

The next monthly progress review meeting will be held on July 11, 1996, at Kirtland AFB.

3. Problems Encountered/Proposed Solutions

None.

4. Key Personnel Changes

None.

5. Schedule

The project remains on schedule.

6. Budget

See attached Performance and Cost Report.

## **APPENDIX V**

Scope of Work- the project activities are divided into the following tasks:

- Task 01 - Project Management
- Task 02 - Scoping Documents
- Task 03 - Field Investigation
- Task 04 - Informal Technical Information Reports
- Task 05 - RFI Report
- Task 06 - Miscellaneous Reports
- Task 07 - Meetings

During the reporting period the following occurred:

1. Technical Progress

Task 01 - Project Management

Performed routine project management functions.

Task 02 - Scoping Documents

Work on Kirtland AFB IRP document style guide.

Task 03 - Field Investigation

Waste disposal activities were conducted.

Task 06 - Miscellaneous Reports

Organization of cadd files.

2. Planned Activities

Task 07 - Meetings

The next monthly progress review meeting will be held on July 11, 1996, at Kirtland AFB.

3. Problems Encountered/Proposed Solutions

None.

4. Key Personnel Changes

None.

5. Schedule

The project remains on schedule.

6. Budget

See attached Performance and Cost Report.

**ANNEX B**

Scope of Work- the project activities are divided into the following tasks:

- Task 01 - Project Management
- Task 02 - Scoping Documents
- Task 03 - Field Investigation
- Task 04 - Informal Technical Information Reports
- Task 05 - RFI Report
- Task 06 - Miscellaneous Reports
- Task 07 - Meetings

During the reporting period the following occurred:

1. Technical Progress

Task 01 - Project Management

Performed routine project management functions.

Task 02 - Scoping Documents

Work on ICM Work Plan Figures.

Task 03 - Field Investigation

Finalized fence removal and installation and issued statement of work for other upcoming activities.

Task 07 - Meetings

A meeting was held at the EM offices to discuss potential fire hazards associated with the dry conditions at Kirtland AFB.

2. Planned Activities

Task 03 - Field Investigation

Continue Annex B field activities.

Task 07 - Meetings

The next monthly progress review meeting will be held on July 11, 1996, at Kirtland AFB.

3. Problems Encountered/Proposed Solutions

None.

4. Key Personnel Changes

None.

5. Schedule

The project remains on schedule.

6. Budget

See attached Performance and Cost Report.

**R&D STATUS REPORT  
 APRIL 28, 1996 THROUGH MAY 25, 1996  
 RFI FOR  
 KIRTLAND AIR FORCE BASE, NEW MEXICO  
 CONTRACT NO. F33615-90-D-4011  
 DELIVERY ORDER 0022**

**PREPARED BY HALLIBURTON NUS CORPORATION  
 June 17, 1996**

The Scope of Work for Delivery Order 22 consists of RCRA Facility Investigations for five major projects. These projects correlate generally to the lists of SWMUs (appendices) attached to the RCRA Part B Permit for Kirtland AFB. Historically, these projects have been referred to informally as stages of the Kirtland RCRA Facility Investigation. For Halliburton NUS accounting purposes, these projects are further identified by Halliburton NUS Project Numbers. The relationships of the appendices, stages, and Halliburton NUS Project Numbers are summarized in the table below.

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Appendix III	2C	0494
Appendix IV	2D	2A96
Appendix V	2E	3A76
Annex B		3A77

*(Note: A sixth component of the Delivery Order - Annex C (Halliburton NUS Project No. 3A78) is currently inactive.)*

For purposes of this Research and Development (R&D) Status Report, the specific projects are referred to as appendices. Each of these projects is presented in separate sections of this report.

**APPENDIX II**

Scope of Work- the project activities are divided into the following tasks:

- Task 01 - Project Management
- Task 02 - Scoping Documents
- Task 03 - Field Investigation
- Task 04 - Informal Technical Information Reports
- Task 05 - RFI Report
- Task 06 - Miscellaneous Reports
- Task 07 - Meetings

During the performance period the following occurred:

1. Technical Progress

Task 01 - Project Management

Performed routine project management functions.



Task 02 - Scoping Documents

Worked on Draft Final Appendix II Phase 2 Sampling and Analysis Plan and Kirtland AFB Style Guide for IRP Documents.

Task 03 - Field Investigation

Continued field activities.

Task 04 - Informal Technical Information Reports

Worked on comments received on analytical ITIR.

Task 07 - Meetings

The monthly meeting was held on May 15, 1996.

2. Planned Activities

Task 03 - Field Investigation

Continued field activities.

Task 07 - Meetings

The next monthly progress review meeting will be held on June 27, 1996, at Kirtland AFB.

3. Problems Encountered/Proposed Solutions

None.

4. Key Personnel Changes

None

5. Schedule

The project remains on schedule.

6. Budget

See attached Performance and Cost Report.

## APPENDIX III

Scope of Work- the project activities are divided into the following tasks:

- Task 01 - Project Management
- Task 02 - Scoping Documents
- Task 03 - Field Investigation
- Task 04 - Informal Technical Information Reports
- Task 05 - RFI Report
- Task 06 - Miscellaneous Reports
- Task 07 - Meetings

During the performance period the following occurred:

### 1. Technical Progress

#### Task 01 - Project Management

Performed routine project management functions.

#### Task 02 - Scoping Documents

The Draft Final Appendix III Phase 2 Sampling and Analysis Plan was submitted to AFCEE, Kirtland AFB, and the regulators in May 1996.

#### Task 03 - Field Investigation

Waste management logistics were conducted prior to the upcoming field effort.

#### Task 05 - RFI Report

Editorial work on the Draft Final Appendix III RFI Report.

#### Task 06 - Miscellaneous Reports

Review of status of the Kirtland AFB Delivery Order

#### Task 07 - Meetings

The monthly meeting was held on May 15, 1996.

### 2. Planned Activities

#### Task 07 - Meetings

The next monthly progress review meeting will be held on June 27, 1996, at Kirtland AFB.

### 3. Problems Encountered/Proposed Solutions

None.

4. Key Personnel Changes

None.

5. Schedule

The project remains on schedule.

6. Budget

See attached Performance and Cost Report.

#### **APPENDIX IV**

Scope of Work- the project activities are divided into the following tasks:

- Task 01 - Project Management
- Task 02 - Scoping Documents
- Task 03 - Field Investigation
- Task 04 - Informal Technical Information Reports
- Task 05 - RFI Report
- Task 06 - Miscellaneous Reports
- Task 07 - Meetings

During the reporting period the following occurred:

1. Technical Progress

Task 01 - Project Management

Performed routine project management functions.

Task 02 - Scoping Documents

Organized project files, reviewed comments received on 2D-1 RFI Report in preparation for the 2D-2 RFI Report.

Task 03 - Field Investigation

Finalized removal of the emergency holding storage tanks.

Task 05 - RFI Report

Continued preparation of the RFI Report.

Task 07 - Meetings

The monthly meeting was held on May 15, 1996.

2. Planned Activities

Task 05 - RFI Report

Preparation of the RFI Report will continue.

Task 07 - Meetings

The next monthly progress review meeting will be held on June 27, 1996, at Kirtland AFB.

3. Problems Encountered/Proposed Solutions

None.

4. Key Personnel Changes

None.

5. Schedule

The project remains on schedule. The next deliverable date is for the Appendix IV (2D-2) RFI Report due to AFCEE, the regulators, and KAFB on June 30, 1996.

6. Budget

See attached Performance and Cost Report.

**APPENDIX V**

Scope of Work- the project activities are divided into the following tasks:

- Task 01 - Project Management
- Task 02 - Scoping Documents
- Task 03 - Field Investigation
- Task 04 - Informal Technical Information Reports
- Task 05 - RFI Report
- Task 06 - Miscellaneous Reports
- Task 07 - Meetings

During the reporting period the following occurred:

1. Technical Progress

Task 01 - Project Management

Performed routine project management functions.

Task 02 - Scoping Documents

Organization of project files.

Task 06 - Miscellaneous Reports

Organization of CADD files.

Task 07 - Meetings

The monthly meeting was held on May 15, 1996.

2. Planned Activities

Task 07 - Meetings

The next monthly progress review meeting will be held on June 27, 1996, at Kirtland AFB.

3. Problems Encountered/Proposed Solutions

None.

4. Key Personnel Changes

None.

5. Schedule

The project remains on schedule.

6. Budget

See attached Performance and Cost Report.

**ANNEX B**

Scope of Work- the project activities are divided into the following tasks:

- Task 01 - Project Management
- Task 02 - Scoping Documents
- Task 03 - Field Investigation
- Task 04 - Informal Technical Information Reports
- Task 05 - RFI Report
- Task 06 - Miscellaneous Reports
- Task 07 - Meetings

During the reporting period the following occurred:

1. Technical Progress

Task 01 - Project Management

Performed routine project management functions.

Task 03 - Field Investigation

Continued fence removal and installation and issued statement of work for other upcoming activities.

Task 05 - RFI Report

Developed outline for the RFI Report.

Task 06 - Miscellaneous Reports

Documentation of field radiation surveys conducted during fencing installation at training sites.

Task 07 - Meetings

The monthly meeting was held on May 15, 1996.

2. Planned Activities

Task 03 - Field Investigation

Continued Annex B field activities.

Task 07 - Meetings

The next monthly progress review meeting will be held on June 27, 1996. at Kirtland AFB.

3. Problems Encountered/Proposed Solutions

None.

4. Key Personnel Changes

None.

5. Schedule

The project remains on schedule.

6. Budget

See attached Performance and Cost Report.