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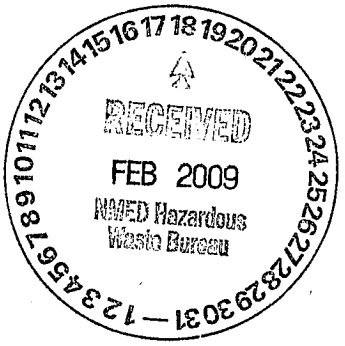
National Nuclear Security Administration
Sandia Site Office
P.O. Box 5400
Albuquerque, New Mexico 87185-5400

FEB 12 2009



CERTIFIED MAIL – RETURN RECEIPT REQUESTED

Mr. James Bearzi, Chief
Hazardous Waste Bureau
New Mexico Environment Department
2905 Rodeo Park Road East, Bldg. 1
Santa Fe, NM 87505

Dear Mr. Bearzi:

On behalf of the U.S. Department of Energy/National Nuclear Security Administration (DOE/NNSA) and Sandia Corporation (Sandia), DOE/NNSA is submitting requested changes in the form of replacement pages for the response to the letter from the New Mexico Environment Department (NMED) dated December 22, 2008 regarding the Corrective Measures Implementation (CMI) Plan for the Mixed Waste Landfill at Sandia National Laboratories/New Mexico. The NMED letter is entitled "*Conditional Approval: Mixed Waste Landfill Corrective Measures Implementation Plan, November 2005 Sandia National Laboratories,* NM5890110518 SNL-05-025". This Conditional Approval is a result of the NMED review of earlier DOE/NNSA and Sandia responses to two Notice of Disapprovals (dated November 20, 2006, and November 26, 2008). Items in Part 1 of the NMED Conditional Approval letter (conditions g, h, and i) are to implement changes to the CMI Plan, specifically.

Other items in the NMED Conditional Approval letter (conditions Part 1a, b, c, d, e, f, and Part 2) are to be addressed in the Long-Term Monitoring and Maintenance Plan at a later date.

Sincerely,

Kimberly A. Davis
Acting Manager

Enclosure

cc: (w/enclosure):
W. Moats, NMED (Via Certified Mail)
L. King, EPA, Region 6 (Via Certified Mail)
T. Skibitski, NMED-OB (2 copies)
Records Center, SNL/NM, MS 1089
Zimmerman Library, UNM (c/o SNL/NM)
J. Lehr, NA-56/HQ/FORS

cc: (w/o enclosure):
A. Blumberg, SNL/NM, MS 0141
F. Nimick, SNL/NM, MS. 0701
D. Miller, SNL/NM, MS 0718
J. Cochran, SNL/NM, MS 0719
S. Griffith, SNL/NM, MS 1089
B. Langkopf, SNL/NM, MS 1089
C. Daniel, SNL/NM, MS 1089
J. Gould, SSO
K. Agogino, SSO
C. Wimberly, SSO

AOP 95-45, 06

CERTIFICATION STATEMENT FOR APPROVAL AND FINAL RELEASE OF DOCUMENTS

Document title: **Replacement Pages for the Mixed Waste Landfill Corrective Measures Implementation Plan, November 2005 Sandia National Laboratories, NM5890110518 SNL-05-025", January 2009.**

Document author: **Stacy Griffith, Department 06765**

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision according to a system designed to ensure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment for knowing violations.

Signature: Francis B. Nimick 1/26/09
Francis B. Nimick Date
Deputy Director to the
Nuclear Energy & Global Security Technologies
Center 6700
Sandia National Laboratories/New Mexico
Albuquerque, New Mexico 87185
Operator

and

Signature: Kimberly A Davis 2/12/09
Kimberly Davis Date
Acting Manager
U.S. Department of Energy
National Nuclear Security Administration
Sandia Site Office
Owner and Co-Operator

Sandia Corporation
Albuquerque, New Mexico
January 2009

Replacement Pages for the Mixed Waste Landfill Corrective Measures Implementation Plan, November 2005

INTRODUCTION

The U. S. Department of Energy/National Nuclear Security Administration (DOE/NNSA), and Sandia Corporation (Sandia) is submitting requested changes in the form of replacement pages for the response to the letter from the New Mexico Environment Department (NMED) dated December 22, 2008 regarding the Corrective Measures Implementation (CMI) Plan for the Mixed Waste Landfill (MWL) at Sandia National Laboratories/New Mexico (SNL/NM). The NMED letter is entitled "Conditional Approval: Mixed Waste Landfill Corrective Measures Implementation Plan, November 2005 Sandia National Laboratories, NM5890110518 SNL-05-025". This Conditional Approval is a result of the NMED review of earlier DOE/NNSA and Sandia responses to two Notice of Disapprovals (dated November 20, 2006, and November 26, 2008). Items in Part 1 of the NMED Conditional Approval letter (conditions g, h, and i) are to implement changes to the CMI Plan, specifically.

The replacement pages for the CMI Plan are contained in this document and address conditions g, h, and i of Part 1 as listed below:

g. The Permittees must implement the change to the CMI Plan under comment response 10 of Comment Response Set #1 concerning the seeding of borrow pits that are no longer needed.

h. The Permittees must implement the change to the CMI Plan under comment response 11 of Comment Response Set #1 concerning the use of heavy equipment within three feet of any monitoring well or measurement device.

i. The Permittees must implement the change to the CMI Plan under comment response 15 of Comment Response Set #1 concerning quality control data, and as corrected in Comment Response Set #2.

The replacement pages contain an under-scored item (material that is being added or corrected). There may also be a strikethrough item (material to be omitted) in the case of replacement. There is a total of three replacement pages.

Other items in the NMED Conditional Approval letter (conditions Part 1a, b, c, d, e, f, and Part 2) are to be addressed in the Long-Term Monitoring and Maintenance Plan at a later date.

Sandia is a multiprogram laboratory operated by Sandia Corporation, a Lockheed Martin Company, for the United States Department of Energy's National Nuclear Security Administration under Contract DE-AC04-94AL85000.

2.3.2 Storage

Materials shall be stored in areas designated by the Operator. Seed shall be stored in cool, dry locations away from contaminants and in accordance with manufacturer's recommendations. Storage times shall not exceed manufacturer's recommendations.

2.3.3 Handling

Except for bulk deliveries, the Contractor shall not drop or dump materials from vehicles.

PART 3 EXECUTION

3.1 APPLICATION PROCEDURES

3.1.1 Topsoil Preparation

Prior to seeding, the Contractor shall till the top 3 inches of the surface into an even and loose seed bed, free of clods in excess of 4 inches in dimension, and bring the tilled surface to the desired line and grade. The area to be seeded shall be free of erosion rills and gullies.

3.1.2 Seeding

1) ~~The Contractor shall seed the constructed cover, laydown and stockpile areas, drainage swale, and other locations impacted by construction activities. The TA-3 borrow pits shall not be seeded.~~ Once the MWL cover has been constructed and the TA-3 borrow pits are no longer required for environmental restoration activities, they may be transferred over to Sandia Facilities for continued use at Sandia. However, if the TA-3 borrow pits are not needed by Facilities, they will be seeded and reclaimed.

2) The Contractor shall apply the seed mix uniformly to the prepared surface by means of drill seeding at not less than the minimum rate specified in Part 2.2.1 of this specification.

3) Seed shall be uniformly drilled to a maximum depth of 1/2 inch using equipment specified in Part 2.2.4 of this specification.

4) The Contractor shall seed in a pattern perpendicular to the slope, working from the top of the slope down and using row markers to indicate seeded areas.

5) The Contractor shall seed the grass mixture in either the spring or fall. Spring seeding shall be performed after the chances of freezing temperatures have passed. Fall seeding shall be performed before the ground is frozen and covered with snow and after the time temperatures would cause germination.

6) The stand of grass resulting from the seeding shall not be considered satisfactory until accepted by the Operator. The Contractor shall provide a one-year warranty to assure the stand of grass from the seeding. If areas are

be reworked to the required placement conditions specified herein or to the satisfaction of the CQA Engineer and Operator.

9) Application of water for dust suppression activities shall comply with Section 01563 of these specifications. Standing water will be minimized during dust suppression operations.

10) The Contractor shall ensure that unsuitable materials shall not enter the construction area.

3.3.2 Fill

1) The Contractor shall perform field-testing of the compacted materials in accordance with Section 3.4 of this specification. The Contractor shall submit results of the testing to the CQA Engineer and Operator for approval prior to placement of subsequent lifts.

2) The Contractor shall take care to avoid disturbance of the underlying lifts, layers, and instrumentation.

3) The Contractor shall reclaim borrow areas in accordance with Section 02930 of these specifications. Borrow areas shall be regraded to minimize erosion and sustain vegetation.

3.3.3 Existing Landfill Surface

1) The existing grade shall be prepared as required in Sections 02110 of these specifications.

2) The existing grade shall be scarified to a depth not to exceed 6 inches.

3) The contractor shall remove all rock and debris greater than 2 inches in dimension in preparation for compaction.

4) The Contractor shall moisten the soil to approximate optimum moisture (-2 to +2 percentage points) and compact/proof-roll the surface utilizing 10 passes of a roller. Depressions that are formed with the proof-rolling shall be filled with moistened, clean fill, and the filled area recompacted with 10 passes of the roller. The roller shall have a minimum total ballasted weight of 25 tons and a minimum pneumatic tire pressure of 90 psi. No proof rolling shall be allowed within a ~~2-ft~~ 3-ft radius of any groundwater monitoring well, measuring device, or other placed surface as designated by the Operator and/or CQA Engineer.

8.6 As-Built Drawings

Final as-built drawings will be prepared by the CQA Contractor and will be retained by the Owner as a permanent record of the final configuration and dimensions of the cover features (e.g., subgrade, biointrusion barrier, and final cover). As-built drawings must be reviewed and approved by the CQA Engineer and the SCR.

8.7 Final Documentation

When construction of the MWL alternative cover has been completed and the final inspection/punch list shows that all items have been resolved, a final report will be prepared for submittal to the Operator.

The Construction Quality Assurance Report will include all quality control data generated by the construction contractor as well as quality assurance data generated by the CQA contractor. The Construction Quality Assurance Report will be submitted to the NMED as part of the CMI Report.

The final report will be certified as correct by the CQA Engineer and will contain the following:

- Daily summary reports
- Inspection checklists
- Nonconformance and corrective action reports
- Field test results
- Laboratory test results
- Photographs and photograph logbook
- As-built drawings
- Internal CQA memoranda or reports with data interpretation or analyses
- Design changes.

8.8 Document Control and Storage of Records

During construction of the MWL alternative cover, the CQA Engineer will be responsible for storage of all CQA documents. All records prepared by the CQA Contractor will remain on-site during the project to provide documentation of the cover construction. The CQA documents will include:

- Design drawings
- Construction specifications
- CQA Plan
- Inspection checklists
- Field test data reports
- Laboratory test data reports
- Nonconformance and corrective action reports