



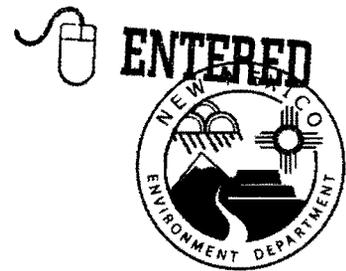
BILL RICHARDSON
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ENVIRONMENT DEPARTMENT

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RON CURRY
Secretary

SARAH COTTRELL
Deputy Secretary

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

November 24, 2010

George J. Rael
Assistant Manager
Environmental Projects Office
U.S. Department of Energy
National Nuclear Security Administration
Los Alamos Site Office
3747 West Jemez Rd, MS A316
Los Alamos, NM 87544

Michael J. Graham
Associate Director
Environmental Programs
Los Alamos National Security, L.L.C.
P.O. Box 1663, MS M991
Los Alamos, NM 87545

**RE: PERIODIC MONITORING REPORT FOR VAPOR-SAMPLING
ACTIVITIES AT MATERIAL DISPOSAL AREA V, CONSOLIDATED
UNIT 21-018(a)-99, AT TECHNICAL AREA 21, APRIL 2010
LOS ALAMOS NATIONAL LABORATORY
EPA ID #NM0890010515
HWB-LANL-10-078**

Dear Messrs. Rael and Graham:

The New Mexico Environment Department (NMED) has received the United States Department of Energy (DOE) and the Los Alamos National Security L.L.C.'s (LANS) (collectively, the Permittees) *Periodic Monitoring Report for Vapor-Sampling Activities at Material Disposal Area V, Consolidated Unit 21-018(a)-99, at Technical Area 21, April 2010* dated October, 2010 and referenced by LA-UR-10-6036 / EP2010-0374 (PMR). NMED has reviewed the PMR and provides the following direction:

NMED noted that results of vapor-sampling in new vapor monitoring wells 21-24524W (with 7 ports from depths of 45 ft below ground surface (bgs) to 380 ft bgs) and 21-24524S (with 2 ports at depths of 680 ft bgs and 715 bgs) were consistent during four consecutive quarterly sampling events. Tritium vapor concentrations appear to peak at two depths: 42.5-47.5 ft bgs, with concentrations ranging from 18,980 to 54,812 pCi/L,

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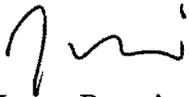
Messrs. Rael and Graham
November 24, 2010
Page 2

and 300-305 ft bgs, with concentrations ranging from 46,830 to 69,612 pCi/L.
Concentrations at other depths ranged from no detection to 26,946 pCi/L.

The Permittees must continue the quarterly sampling schedule at all nine ports in the two vapor monitoring wells. NMED will re-evaluate the need for continued monitoring at MDA V once the ongoing investigations at nearby MDA B are complete and the associated report has been submitted to NMED.

Please contact Pat Stewart at (505) 476-6059 should you have any questions.

Sincerely,



James Bearzi
Chief
Hazardous Waste Bureau

cc: J. Kieling, NMED HWB
D. Cobrain, NMED HWB
P. Stewart, NMED HWB
N. Dhawan, NMED HWB
S. Yanicak, NMED DOE OB, MS J993
T. Skibitski, NMED DOE OB
L. King, EPA 6PD-N
File: Reading and LANL 2010 and MDA V, TA-21 Vapor PMR