



SEP 12 2014

BUREAU

*Environmental Protection Division
Environmental Compliance Programs (ENV-CP)*
PO Box 1663, K490
Los Alamos, New Mexico 87545
(505) 667-0666

*National Nuclear Security Administration
Los Alamos Field Office, A316*
3747 West Jemez Road
Los Alamos, New Mexico, 87545
(505) 667-5794/Fax (505) 667-5948

Date: **SEP 11 2014**
Symbol: ENV-DO-14-0247
LAUR: 14-26444

Locates Action No.: N/A

Mr. Jerry Schoeppner, Chief
Ground Water Quality Bureau
New Mexico Environment Department
Harold Runnels Building, Room N2261
1190 St. Francis Drive
P.O. Box 26110
Santa Fe, NM 87502

Dear Mr. Schoeppner:

Subject: CORRECTED ENV-DO-14-0229, Request for Additional Information, Discharge Permit Application DP-1132, Radioactive Liquid Waste Treatment Facility

On August 12, 2014, the New Mexico Environment Department (NMED), Ground Water Quality Bureau, met with the U.S. Department of Energy and Los Alamos National Security, LLC (DOE/LANS) to discuss draft Discharge Permit DP-1132 for the Technical Area (TA)-50 Radioactive Liquid Waste Treatment Facility (RLWTF). At the above-referenced meeting the NMED asked DOE/LANS to provide additional information on Solid Waste Management Units (SWMUs) and Areas of Concern (AOCs) at the RLWTF. The following enclosures provide the information requested:

- ✓ **Enclosure 1** contains a table listing units associated with the TA-50 RLWTF and their assigned SWMU or AOC number, if applicable. All units at the TA-50 RLWTF, including National Pollutant Discharge Elimination System (NPDES) Outfall No. 051, have been characterized as a SWMU or AOC, and are therefore subject to regulation under the Compliance Order on Consent (Consent Order, 2005), with the exception of the following four units:
- TA-50-257 Mechanical Evaporator System (MES)
 - TA-52 Solar Evaporative Tank System (SET)
 - TA-50-250 Waste Mitigation and Risk Management Tanks (WMRM)
 - TA-50-248 Bottoms Disposal Tanks (previously omitted)

Mr. Jerry Schoeppner
ENV-DO-14-0247

- 2 -

As discussed at the August 12th meeting, the NMED Hazardous Waste Bureau has approved (through approval of the Upper Mortandad Canyon Aggregate Area Investigation Report) delaying completion of Consent Order investigation activities at SWMUs 50-001(a), 50-002(a), and 50-002(b), and 50-002(c) and AOC 50-001(b) until decommissioning of the RLWTF.

- ✓ **Enclosure 2** contains an excerpt (only those pages relevant to the SWMUs and AOCs at the TA-50 RLWTF) from Los Alamos National Laboratory's *Investigation Report for Upper Mortandad Canyon Aggregate Area, Revision 1* (EP2010-0149, LA-UR-10-2046, April 2010).

Please contact Robert S. Beers by telephone at (505) 667-7969 or by email at bbeers@lanl.gov if you have questions regarding this information.

Sincerely,



Alison M. Dorries
Division Leader
Environmental Protection Division
Los Alamos National Security LLC

Sincerely,



Gene E. Turner
Environmental Permitting Manager
Environmental Projects Office
Los Alamos Field Office
U.S. Department of Energy

AMD:GET:RSB/lm

Enclosures:

1. Corrected Table of TA-50 RLWTF units and their assigned SWMU or AOC number
2. Excerpt from *Investigation Report for Upper Mortandad Canyon Aggregate Area, Revision 1* (EP2010-0149, LA-UR-10-2046, April 2010)

Cy: James Hogan, NMED/SWQB, Santa Fe, NM, (E-File)
John E. Kieling, NMED/HWB, Santa Fe, NM, (E-File)
Stephen M. Yanicak, NMED/DOE/OB, (E-File)
Hai Shen, NA-LA, (E-File)
Gene E. Turner, NA-LA, (E-File)
Kirsten Laskey, NA-LA, (E-File)
Carl A. Beard, PADOPS, (E-File to aosburn@lanl.gov)
Michael T. Brandt, ADESH, (E-File)
Raeanna Sharp-Geiger, ADESH, (E-File)
Alison M. Dorries, ENV-DO, (E-File)
Robert C. Mason, TA55-DO, (E-File)
William H. Schwettmann, IPM, (E-File)
Leslie K. Sonnenberg, TA-55-RLW, (E-File)
John C. Del Signore, TA-55-RLW, (E-File)
Randal S. Johnson, DSESH-TA55, (E-File)

Mr. Jerry Schoeppner
ENV-DO-14-0247

- 3 -

Cy (continued):

Stephen G. Cossey, DSESH-TA55, (E-File)

Michael T. Saladen, ENV-CP, (E-File)

Robert S. Beers, ENV-CP, (E-File)

LASOmailbox@nnsa.doe.gov, (E-File)

locatesteam@lanl.gov, (E-File)

env-correspondence@lanl.gov

Table 1. RLWTF Unit Operations, Location, and SWMU or AOC Number, if applicable.

Unit Operation	Location	SWMU/AOC No.
Main Treatment:		
M1 Collection System-piping & vaults	TA-03, 35, 48, 50, 55, 59	AOC 50-001(b)
M2 Influent Storage WMRM Tanks (2)	50-250	NA
M3 Emergency Influent Storage (4)	50-250	NA
M4 Reaction Tanks	50-01	SWMU 50-001(a)
M5 Microfilter	50-01	SWMU 50-001(a)
M6 Pressure Filters	50-01	SWMU 50-001(a)
M7 Perchlorate Ion Exchange	50-01	SWMU 50-001(a)
M8 Primary Reverse Osmosis	50-01	SWMU 50-001(a)
M9 Cu-Zn Ion Exchange	50-01	SWMU 50-001(a)
M10 Effluent Storage	50-01	SWMU 50-001(a)
M11 Effluent Evaporator	50-257	NA
M11 Solar Evaporation	TA-52	NA
M11 NPDES Outfall #051	Mortandad Canyon	SWMU 50-006(d)
Transuranic:		
T1 Collection System-piping	TA-50, TA-55	AOC 50-001(b)
T2 Influent Storage	50-66	SWMUs 50-002(b,c)
T3 Treatment	50-01	SWMU 50-001(a)
T4 Drum Tumbling	50-01	SWMU 50-001(a)
T5 Effluent Storage	50-01	SWMU 50-001(a)
Secondary Treatment:		
S1 Secondary Reverse Osmosis	50-01	SWMU 50-001(a)
S2 Rotary Vacuum Filter	50-01	SWMU 50-001(a)
S3 Bottoms Disposal	50-248	NA
Vessels Scheduled for Retirement:		
75K tank	50-02	SWMU 50-002(a)
WM2-North	50-02	SWMU 50-002(a)
WM2-South	50-02	SWMU 50-002(a)
Clarifier #1	50-01	SWMU 50-001(a)
Clarifier #2	50-01	SWMU 50-001(a)
Gravity Filter	50-01	SWMU 50-001(a)
100K Tank	50-90	SWMU 50-001(a)