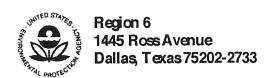
6/13 Praft



NPDES Permit No.

NM 0028355

AUTHORIZATION TO DISCHARGE UNDER THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

In compliance with the provisions of the Clean Water Act, as amended, (33 U.S.C. 1251 et. seq; the "Act"),

Los Alamos National Security, LLC Management Contractor for Operations Los Alamos, New Mexico 87544 and

U.S. Department of Energy Los Alamos Area Office

Los Alamos, New Mexico 87544

are authorized to discharge from a facility located at Los Alamos,

to receiving waters named: Perennial portion of Sandia Canyon in Waterbody Segment No. 20.6.4.126, and Mortandad Canyon, Canada del Buey, Los Alamos Canyon, ephemeral portion of Sandia Canyon, Ten Site Canyon, and Canon de Valle, in Waterbody Segment No. 20.6.4.128 of the Rio Grande Basin,

in accordance with this cover page and the effluent limitations, monitoring requirements, and other conditions set forth in Parts I [Requirements for NPDES Permits], II [Other Conditions], III [Standard Conditions for NPDES Permits], and IV [Sewage Sludge Requirements] hereof.

This permit supersedes and replaces NPDES Permit No. NM0028355 issued on June 8, 2007.

This permit shall become effective on

This permit and the authorization to discharge shall expire at midnight,

Issued on

Prepared by

William K. Honker, P.E. Director
Water Quality Protection Division (6WQ)

Isaac Chen Environmental Engineer NPDES Permits Branch (6WQ-P)

OUTFALL 051 - Radioactive Liquid Waste Treatment Facility (TA-50)

Discharge Type: Intermittent Latitude 35°51'54"N, Longitude 106°17'52"W

During the period beginning the effective date of the permit and lasting through the expiration date of the permit (unless otherwise noted), the permittee is authorized to discharge treated radioactive liquid waste to Mortandad Canyon in segment number 20.6.4.128 of the Rio Grande Basin.

Such discharges shall be limited and monitored by the permittee as specified below:

EFFLUENT CHARACTERISTIC		DISCHARGE LIMITATIONS			MONITORING REQUIREMENTS		
	CONCENTRATION		LOADING			SAMPLE TYPE	
	(mg/L, unless stated)		(Lbs/day, unless stated)				
	MONTHLY	DAILY	MONTHLY	DAILY			
	AVERAGE 1	MAXIMUM	AVERAGE	MAXIMUM			
Flow (MGD)	***	***	Report	Report	Continuous	Record	
COD	125	125	***	***	1/Month	Grab	
TSS	30	45	73	109	1/Month	Grab	
Total Toxic Organics (*1)	1.0	1.0	***	***	1/Month	Grab	
Ra 226+228 (pCi/l)	30	30	***	***	1/Week	Grab	
Total Chromium	1.34	2.68	***	***	1/Week	Grab	
Total Lead	0.423	0.524	***	***	1/Week	Grab	
Total Copper	0.014	0.014	***	***	3/Week	Grab	
Total Zinc	0.191	0.191	***	***	3/Week	Grab	
Total Hardness	Greater than	or equal to 50 n	ng/l		3/Week	Grab	
Total Residual Chlorine	***	0.011 (*2)	***	***	1/Week	Grab	
Total Cadmium	Report	Report	***	***	2/Term (*3)	Grab	
Total Mercury	Report	Report	***	***	2/Term (*3)	Grab	
Total Nickel	Report	Report	***	***	2/Term (*3)	Grab	
Total Selenium	Report	Report	***	***	2/Term (*3)	Grab	

PERMIT NO. NM0028355		-		PAGE 6 C	F PART I	
Perchlorate Total PCB (μg/l) pH (Standard Unit)	Report Report Range from 6	Report Report 5.0 to 9.0	*** ***	*** ***	1/Week 2/Term (*3) 1/Week	Grab Grab Grab

EFFLUENT	DISCHARGE MONITORING		MONITORING REQUIREMENTS		
CHARACTERISTICS			MONTORING REQUIREMENTS		
Whole Effluent Lethality (PCS	MONTHLY AVG	7-DAY	MEASUREMENT		
22414) (48-Hr NOEC) (*4)	MINIMUM	MINIMUM	FREQUENCY	SAMPLE TYPE	
Daphnia pulex	100%	100%	1/3 Months	3-Hr Composite	

FOOTNOTES

- *1 The limits and monitoring for Total Toxic Organics do not include 2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD), Pesticides, or Polychlorinated biphenyls.
- *2 The effluent limitation for TRC is the instantaneous maximum and cannot be averaged for reporting purposes.
- *3 At least two samples from different discharge events shall be taken during the term of the permit if discharges occur.
- Monitoring and reporting requirements begin on the effective date of this permit. 100% limitation becomes effective on March 1, 2016. Critical dilution 100%, and the dilution series are 32%, 42%, 56%, 75%, 100%. Also see Part II, Section I. Whole Effluent Toxicity (48-Hour Acute Limits).

SAMPLING LOCATION(S)

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s): following the final treatment and prior to or at the point of discharge from TA-50-1 treatment plant.

NO DISCHARGE REPORTING

If there is no discharge event at this outfall during the sampling month, place an "X" in the NO DISCHARGE box in the Discharge Monitoring Report.

FLOATING SOLIDS, OIL AND GREASE

There shall be no discharge of oils, scum, grease and other floating materials that would cause the formation of a visible sheen or visible deposits on the bottom or shoreline, or would damage or impair the normal growth, function or reproduction of human, animal, plant or aquatic life.