

Los Alamos

NATIONAL LABORATORY

Los Alamos National Laboratory
Los Alamos, New Mexico 87545

Date: February 20, 1996
In Reply Refer To: ESH-18/WQ&H:96-0086
Mail Stop: K497
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NPDES

Mr. Joseph C. Vozella
Assistant Area Manager
Office of Environment and Projects
U.S. Department of Energy
Los Alamos Area Office
Los Alamos, New Mexico 87544

Mr. Daniel E. Glenn
Assistant Area Manager
Office of Facility Operations
U.S. Department of Energy
Los Alamos Area Office
Los Alamos, New Mexico 87544

SUBJECT: EFFLUENT QUALITY AT NPDES OUTFALL 051, RADIOACTIVE LIQUID WASTE TREATMENT PLANT TA-50, BUILDING 1

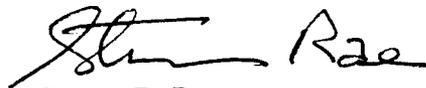
Dear Messrs. Vozella and Glenn:

Enclosed is the monthly monitoring report pertaining to NPDES Outfall 051 for radioactive effluent quality, as requested by DOE/LAAO. This report and future monthly reports will keep DOE/LAAO updated on DOE Derived Concentration Guideline (DCG) exceedances at this outfall. The report includes monthly values (monthly average) compared with the DCG values for each parameter analyzed. The monthly values are equal composites of all discharges that occurred during the month. Please note, this report also includes radioactive influent data for the TA-50 Treatment Facility and percent removal.

There were a total of 20 discharges (1290157 liters) to Mortandad Canyon during the monitoring period from the TA-50 Treatment Facility. The DOE DCGs were exceeded for Plutonium 238 (Pu238) and Americium 241 (Am241) during the monitoring period.

Please contact Mike Saladen at 665-6085 or Alex Puglisi at 667-4882 if you have any questions or need additional information.

Sincerely,



Steven R. Rae
Group Leader, ESH-18
Water Quality and Hydrology Group

SR:MS/vc



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February 20, 1996

Attach: a/s

Cy: D. Erickson, ESH-DO/DD, w/enc., MS K491
A. Puglisi, ESH-18, w/enc., MS K497
M. Saladen, ESH-18, w/enc., MS K497
S. Hanson, CST-13, w/enc., MS E518
D. Moss, CST-13, w/enc., MS E518
K. Zamora, DOE/LAAO, w/enc., MS A316
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N. Weber, NMED/DOE OB, Santa Fe, N.M., w/enc.
WQ&H File, MS K497
CRM-4, MS A150

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TA-50-1 EFFLUENT DISCHARGE and % REMOVAL DECEMBER, 1995

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	DATE	INFLUENT	EFFLUENT	%REMOVAL	EXCEEDED DCG
TRITIUM					
DOE Derived Concentration Guidelines 2.E-03 (uCi/ml) 2.0 E-6 (Ci/L)					
M	TRITIUM 31-DEC-95		4.500E-08		
Sr-89					
DOE Derived Concentration Guidelines 2.E-05 (uCi/ml) 20.0 E-9 (Ci/L)					
M	Sr-89 31-DEC-95	1.000E-11	1.000E-11	0.0 %	
Sr-90					
DOE Derived Concentration Guidelines 1.E-06 (uCi/ml) 1.0 E-9 (Ci/L)					
M	Sr-90 31-DEC-95	8.000E-12	3.000E-11		
Cs-137					
DOE Derived Concentration Guidelines 3.E-06 (uCi/ml) 3.0 E-9 (Ci/L)					
M	Cs-137 31-DEC-95	3.000E-10	3.000E-10	0.0 %	
U-234					
DOE Derived Concentration Guidelines 5.E-07 (uCi/ml) 500 E-12 (Ci/L)					
M	U-234 31-DEC-95	2.000E-10	1.700E-11	91.5 %	
Pu-238					
DOE Derived Concentration Guidelines 4.E-08 (uCi/ml) 40.0 E-12 (Ci/L)					
M	Pu-238 31-DEC-95	4.800E-08	1.500E-10	99.7 %	X
Pu-239					
DOE Derived Concentration Guidelines 3.E-08 (uCi/ml) 30.0 E-12 (Ci/L)					
M	Pu-239 31-DEC-95	6.000E-09	2.800E-11	99.5 %	
Am-241					
DOE Derived Concentration Guidelines 3.E-08 (uCi/ml) 30.0 E-12 (Ci/L)					
M	Am-241 31-DEC-95	3.100E-09	1.400E-10	95.5 %	X

Effluent discharges DECEMBER, 1995 = 20
 Total liters discharged = 1290157