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# Permit

Department of Energy  
Albuquerque Operations  
Los Alamos Area Office  
Los Alamos, New Mexico 87544

MAY 15 1991

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Mr. Myron Knudson, Director  
Water Division, (6W)  
U. S. EPA, Region 6  
1445 Ross Avenue, Suite 1200  
Dallas, Texas 75202-2733

Dear Mr. Knudson:

Reference is made to the National Pollutant Discharge Elimination System (NPDES) Permit #NM0028355 Discharge Monitoring Reports (DMRs) for April 1991.

Enclosed are Los Alamos National Laboratory's (LANL's) DMRs (EPA Form 3320-1, Rev. 9-88) for April of 1991, as required by the subject NPDES Permit. Interim effluent limitations are in effect for outfalls 04S, 05S, 09S and 10S as stated in the Federal Facilities Compliance Agreement signed by the U. S. Department of Energy on January 7, 1991. Maximum permit conditions were exceeded on one occasion out of the 148 analyses done this month for discharge serial numbers 01A through 128 (industrial discharges). The maximum permit conditions for both chemical and biological constituents were exceeded on one occasion out of the 24 analyses done this month for discharge serial numbers 01S through 12S (domestic waste discharges).

Application for permit to discharge wastewater from the TA-46 south lagoons, Outfall 12S, was submitted to EPA Region 6 on December 9, 1987. These lagoons do not include sand filters for final treatment and the maximum daily discharge limits are assumed to be similar to those of sanitary outfalls 04S and 10S (45.0 mg/l BOD and 90.0 mg/l TSS) as specified in LANL's NPDES Permit. The first discharge from these lagoons occurred on September 28, 1990. The outlet from these lagoons was plugged on October 1, 1990, and there has been no discharge since that time.

Per your Agency's request, please note that we have started to report sanitary outfalls 02S, 04S, 05S, 07S, 09S, 10S, and 12S quarterly except for flow data which we will continue to report monthly. Any violations that occur at these outfalls are reported in the DMR monthly submittal in which they occurred.

RECEIVED

MAY 20 1991

SURFACE WATER  
QUALITY BUREAU



15133

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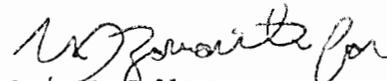
Mr. Myron Knudson

2

Also enclosed is a copy of a notification previously submitted to your office concerning a release of steam condensate into a storm drain through Outfall 03A023. This discharge is being reported under Part II, Section L.7, "Other Noncompliance" of LANL's NPDES Permit. This discharge did not result in any threat to health or environment.

Please feel free to contact Don George of my staff at FTS 855-5046 or Steven Rae of the Laboratory's Environmental Protection Group (HSE-8) at FTS 843-1859 should you have any questions.

Sincerely,



Jerry L. Bellows  
Area Manager

Enclosures

cc w/enclosures:

- J. Highland, USEPA, Region 6, Dallas, TX
- J. Piatt, NMEID, Santa Fe, NM
- J. Themelis, EPD, AL, w/Summary of Noncompliance

The following (2) samples photographed  
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Non-Readable

## INDUSTRIAL WASTE DEVIATIONS

<u>EPA ID</u>	<u>TECH AREA LOCATION</u>	<u>DATE</u>	<u>PARAMETER</u>	<u>RESULTS/LIMIT</u>	<u>UNITS</u>
03A020	TA-2-49	04/18/91	Free Cl <sub>2</sub>	1.35/0.15	mg/l

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Department of Energy  
Los Alamos Area Office  
Los Alamos, NM 87544

**SUBJECT: NONCOMPLIANCE WITH EFFLUENT  
LIMITATION IN NPDES PERMIT NM0028355**

**1. Location of noncomplying discharge**

Serial 03M21 TA-2 Building 91

**2. Description of noncomplying discharge**

Effluent Free Available Chlorine (FAC) of 1.35 mg/l exceeded the daily maximum permit requirement of 0.5 mg/l on April 18, 1991.

**3. Impact upon the receiving waters**

The effluent from this facility discharges to Los Alamos Canyon. Los Alamos Canyon is an ephemeral tributary to the Rio Grande. The effluent did not reach the receiving waters of the Rio Grande.

**4. Cause of noncompliance**

The noncompliance was caused by operator error during cooling tower biocide treatment. Excessive chlorine/bromine treatment chemicals were added to the cooling tower and dechlorinators were turned off.

**5. Anticipated time of condition if applicable**

Unknown.

**6. Duration of condition if uncorrected**

Chlorine concentrations were in compliance with NPDES limits within one hour following discovery of the non-compliance.

**7. Steps taken to reduce and eliminate condition**

Operator training was increased and availability of treatment chemicals has been restricted in an attempt to better control biocide treatment procedures.

**8. Steps taken to prevent a recurrence of the condition**

See Number 7.

**9. Steps taken to minimize any adverse impact to navigable water**

No adverse impact to navigable waters is anticipated as the discharge did not cross the Laboratory boundary or reach the Rio Grande.

PERMITTEE NAME ADDRESS (Include Facility Name Location) (4/7/82)  
 NAME DEPT. OF ENERGY  
 ADDRESS CHIEF, COAST BRANCH  
1155 GUNBOAT AVENUE  
LAB ALANDS, NM 87441

NATIONAL POLLUTANT DISCHARGE MONITORING REPORT AND DISCHARGE MONITORING REPORT  
 PERMIT NUMBER 1000000000  
 MONITORING PERIOD  
 YEAR NO. DAY YEAR NO. DAY  
 FROM 01 04 81 TO 31 04 81

FORM APPROVAL  
 APPROVED BY [Signature]  
 TITLE MANAGER

PARAMETER (2/77)	SAMPLE MEASUREMENT	QUANTITY OR LOADING (1/77)		UNITS	QUALITY OR CONCENTRATION (1/77)		UNITS	FREQ. ANALYZED (1/77)	SAMPLE TYPE (1/77)
		AVERAGE	MAXIMUM		AVERAGE	MAXIMUM			
FLOU 00000 1 0 0	REPORT	1.0719	1.0864	MGD				1/MO	EST.
	PERMIT REQUIREMENT	REPORT	REPORT					WEEKLY	EST.
PH 00000 1 0 0	REPORT			PPM	0.0	0.0		1/MO	GRAB
	PERMIT REQUIREMENT				0.1	0.1		WEEKLY	GRAB
TOT. SUSP. SOLIDS 00000 1 0 0	REPORT			MG/L	100	100		1/MO	GRAB
	PERMIT REQUIREMENT				1000	1000		WEEKLY	GRAB
FREE AVAIL. CHLOR. 00000 1 0 0	REPORT			MG/L	1.04	1.30		1/3/MO	GRAB
	PERMIT REQUIREMENT				1.20	1.50		WEEKLY	GRAB
TOTAL PHOSPHORUS 00000 1 0 0	REPORT			MG/L	1.00	1.95		1/3/MO	GRAB
	PERMIT REQUIREMENT				0.00	0.00		WEEKLY	GRAB
	SAMPLE MEASUREMENT								
	PERMIT REQUIREMENT								
	SAMPLE MEASUREMENT								
	PERMIT REQUIREMENT								

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER: CHIEF, COAST BRANCH  
 TELEPHONE: 505 667-5105  
 DATE: 9/15/81  
 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT: [Signature]

CONSENT REPORT FRACTIONAL DISCHARGE (EXCEPTIONS):  
 009, 009, 019, 020, 021, 029, 113, 114 and 124. No discharge at outfall 114.  
 Other outfalls in this category not recorded in this report will be monitored in accordance with the weekly sequential schedule in Part III, C of the permit during other months of the year.