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LANL 28355
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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 6
1445 ROSS AVENUE
DALLAS, TEXAS 75202-2733

DEC 1 8 2014

CERTIFIED MAIL: RETURN RECEIPT REQUESTED (7010 2780 0002 4354 5770)

Ms. Kimberly Davis Lebak, Manager
U.S. Department of Energy
Los Alamos Field Office, MS A316
3747 West Jemez Road
Los Alamos, NM 87544

DEC 2 3 2014
BV

Re: NPDES Permit No. NM0028355
Public Notice of Draft Permit Modification

Dear Ms. Lebak:

Please find enclosed a copy of a draft National Pollutant Discharge Elimination System (NPDES) permit modification Part I, the Environmental Protection Agency's NPDES Permits & TMDLs Branch has developed. The fact sheet explaining the basis for the permit modifications and the public notice for this permit are also enclosed. Upon final issuance, the permit will authorize the discharge of pollutants from your facility in accordance with the requirements of the Clean Water Act.

Any formal comments you wish to make should be submitted in writing by the due date stated in the public notice to Ms. Evelyn Rosborough (6WQ-N) at the above address. After all public comments have been received and carefully evaluated, the Agency will make a final permit modification decision. A copy of the final permit will be mailed to you at that time.

If you have any questions or would like to discuss any aspect of this draft permit, please feel free to contact the permit writer, Isaac Chen, at VOICE:214-665-7364, FAX:214-665-2191, or EMAIL:chen.isaac@epa.gov.

Sincerely yours,

Claudia V. Hosch
Associate Director
NPDES Permits & TMDLs Branch

Enclosures

cc (w/enclosures): New Mexico Environment Department

J.S. Environmental Protection Agen
Public Notice of Draft NPDES Permit(s)

DECEMBER 20, 2014

This is to give notice that the U.S. Environmental Protection Agency, Region 6, has formulated a Draft Permit for the following facility (facilities) under the National Pollutant Discharge Elimination System (NPDES). Development of the draft permit(s) was based on a preliminary stuff review by EPA, Region 6, and consultation with the State of New Mexico. The State of New Mexico is currently reviewing the draft permit(s). The permit(s) will become effective no sooner than 30 days after the close of the comment period unless:

A. The State of New Mexico denies certification, or requests an extension for certification prior to that date.

B. Comments received by JANUARY 19, 2015, in accordance with §124.20, a warrant a public notice of EPA's final permit decision.

C. A public hearing is held requiring delay of the effective date.

EPA's contact person for submitting written comments, requesting information regarding the draft permit, and/or obtaining copies of the permit and the Statement of Basis or Fact Sheet is:

Ms. Evelyn Rosborough
U.S. Environmental Protection Agency
Permit Processing Team (6WQ-NP)
1445 Ross Avenue, Suite 1200
Dallas, Texas 75202-2733
(214) 665-7515
rosborough.evelyn@epa.gov

EPA's comments and public hearing procedures may be found at 40 CFR 124.10 and 124.12 (48 Federal Register 14264, April 1, 1983, as amended at 49 Federal Register 38051, September 26, 1984). The comment period during which written comments on the draft permit may be submitted extends for 30 days from the date to this Notice.

During the comment period, any interested person may request a Public Hearing by filing a written equest which must state the issues to be raised. A public hearing will be held when EPA finds a significant degree of public interest.

EPA will notify the applicant and each person who has submitted comments or requested notice of the final permit decision. A final permit decision means a final decision to issue, deny, modify, revoke or reissue, or terminate a permit. Any person who filed comments on or participated in public hearing on the draft permit may appeal the Agency's final permit decision. However, the request must be submitted within 30 days of the date of the final permit decision and be in accordance with the requirements of 40 CFR 124.19.

Further information including the administrative record may be viewed at the above address between 8 a.m. and 4:30 p.m., Monday through Friday. It is recommended that you write or call to the contact above for an appointment, so the record(s) will be available at your convenience.

The draft permit(s) are available on the New Mexico NPDES Public Notices website at:
http://www.epa.gov/region6/water/npdes/publicnotices/nm/nmdraft.htm

AUTHORIZATION TO DISCHARGE TO WATERS OF THE UNITED STATES,
NPDES PERMIT NO. NM0028355.

The applicant's mailing address is:

U.S. Department of Energy Los Alamos Site Office
3747 West Jemez Road
Los Alamos, NM 87544

EPA proposes to modify the current permit issued August 12, 2014, with an effective date of October 1, 2014, and an expiration date of September 30, 2019. Significant changes from the current permit include:

A. Delete effluent limitations and monitoring requirements for selenium at Outfall 03A048;
B. Change flow measurement type to "estimate" for Outfalls 03A113, 03A027, 03A048, 03A160, 03A199, and 03A181;
C. Add compliance schedule for 6T3 Temperature monitoring at Outfall 001; and
D. Add effluent limitations and monitoring requirements for temperature at Outfall 001.

This permit modification public notice only opens those modified permit conditions for public comments.

State Certification

This Notice also serves as Public Notice of the intent of the New Mexico Environment Department, Surface Water Quality Bureau to consider issuing Clean Water Act (CWA) Section 401 Certification. The purpose of such certification is to reasonably ensure that the permitted activities will be conducted in a manner that will comply with applicable New Mexico water quality standards, including the antidegradation policy, and the statewide water quality management plan. The NPDES permit will not be issued until the certification requirements of Section 401 have been met.

If you want to comment on State Certification submit written comments within the 30 day period to:

Bruce Yurdin
Manager, Point Source Regulation Section
Surface Water Quality Bureau
New Mexico Environment Department
P.O. Box 5469
1190 Saint Francis Drive
Santa Fe, NM 87502-5469
Phone (505) 827-2795
Fax (505) 827-0160
bruce.yurdin@state.nm.us

NPDES PERMIT NO. NM0028355
FACT SHEET

MODIFICATION OF NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT TO DISCHARGE TO WATERS OF THE UNITED STATES

PERMITTEES:

Los Alamos National Security, LLC
Management Contractor for Operations
Los Alamos, New Mexico 87545

and

U.S. Department of Energy
Los Alamos Area Office
Los Alamos, NM 87544

ISSUING OFFICE:

U.S. Environmental Protection Agency (EPA)
Region 6
1445 Ross Avenue
Dallas, Texas 75202-2733

PREPARED BY:

Isaac Chen
Environmental Engineer
NPDES Permits Branch (6WQ-P)
Water Quality Protection Division
VOICE: 214-665-7364
FAX: 214-665-2191
EMAIL: chen.isaac@epa.gov

PERMIT ACTION:

Proposed modification of NPDES Permit No. NM0028355, issued by EPA on August 12, 2014.

DATE PREPARED:

December 5, 2014

40 CFR CITATIONS: Unless otherwise stated, citations to 40 CFR refer to promulgated regulations listed at Title 40, Code of Federal Regulations, revised as of October 1, 2014.

STATE CERTIFICATION: The draft permit modification has been forwarded to the New Mexico Environment Department (NMED) for certification in accordance with Section 401 of the CWA and regulations promulgated at 40 CFR124.53. The draft modified permit and public notice will be sent to the District Engineer, Corps of Engineers; to the Regional Director of the U.S. Fish and Wildlife Service; and to the National Marine Fisheries Service prior to publication.

I. BACKGROUND AND BASIS FOR MODIFICATION

On August 12, 2014, EPA Region 6 issued NPDES Permit No. NM0028355 ("the Permit") to co- permittees Los Alamos National Security, LLC (LANS) and the U.S. Department of Energy ("DOE") for discharges of treated wastewaters from eleven (11) outfalls located at the Los Alamos National Laboratory (LANL) facility in Los Alamos County, NM.

On September 15, 2014, LANS and DOE ("Petitioners") filed a Petition for Review of the Permit with the EPA Environmental Appeals Board (EAB) under 40 CFR 124.19(a). The petitioners' challenge that the basis for imposition of monitoring and sampling requirements for selenium at permitted Outfall 03A048 is erroneous.

By letter to the EAB dated November 21, 2014, the Region provided notice, as required by 40 CFR §§ 124.16(a)(2)(ii) and 124.60(b), of the conditions of the Permit that are uncontested and severable from the Permit conditions contested in the Petition for Review. Under 40 CFR §§ 124.16(a)(2)(i), these uncontested and severable conditions of the Permit as issued become fully effective 30 days from the date of the letter or on December 19, 2014.

EPA and the petitioners filed a joint request on October 21, 2014, to ask EAB to stay the proceedings of petition so that EPA and the petitioners may delete the contested permit conditions through Region 6's modification of the permit. Modification of the Permit will allow the parties to resolve the Petition for Review and finalize the terms and conditions of the Permit without the expense and delay of continued litigation. EPA believes the proposed modification is consistent with the CWA and federal regulations and that modification of the Permit is in the best interest of EPA, the permittees and the public.

Because permittees have also requested clarification/modification of some permit conditions in their mail and emails dated September 11, 2014, September 15, 2014, and September 24, 2014, respectively, EPA is addressing those issues here. Modification of the permit is authorized under 40 CFR 122.62.

II. CLARIFICATION/MODIFICATION REQUEST RESPONSE

A. Petition Issue

Monitoring Requirements and Effluent Limitations for Selenium at Outfall 03A048: The draft permit proposed effluent limits and corresponding monitoring requirements for selenium at Outfall 03A048 based on a determination that there was a reasonable potential (RP) for selenium to cause or contribute to an excursion above state water quality standards. During the public comment period, permittees recognized an error in the data used for the RP analysis for Outfall 03A048. Specifically, the values for selenium were reported in the renewal application using EPA Method 200.8, which method generated false positives for selenium. (A modified analytical method, SW 846 Method 7742, is authorized in the previously issued permit for reporting and compliance purposes.) Thus, EPA's RP determination for selenium at Outfall 03A048 was based on flawed data. Permittees brought the selenium false positives issue in comments on the draft

permit, and submitted new split sample results indicating that selenium was not present in the samples at levels with a reasonable potential to cause or contribute to an excursion above state water quality standards. Accordingly, permittees requested that the requirements related to selenium at Outfall 03A048 be eliminated. However, when EPA recalculated the RP for selenium, EPA used both true and false data and it resulted in establishment of effluent limitations and elevated monitoring frequency of 3/week.

EPA Response: EPA took a very conservative approach by averaging all SW 846 Method 7742 and EPA Method 200.8 selenium data provided to EPA in calculation of RP during the final permit decision. While EPA cannot definitively determine that all EPA Method 200.8 was in fact false, use of suspect data is not scientific sound, so EPA decides that it should not use the EPA Method 200.8 data in permit development. Method SW 846 7742 was approved for reporting and compliance purposes in both the previous and current permits and the permittees have demonstrated no selenium RP based on data from Method SW 846 7742. Therefore, EPA proposes to remove the monitoring requirements and effluent limitations for selenium at Outfall 03A048.

B. Comment Issue:

Flow Measurements at Outfalls 03A113, 03A027, 03A048, 03A160, 03A199, and 03A181: The permittees requested to change the flow measurement type from "record" to "estimate" for Outfall 03A113, 03A027, 03A048, 03A160 and 03A199, and add the definition of "estimate" flow to all those six outfalls. EPA did not provide explanations to require flow record at those outfalls or provide the definition of "record" for those discharges.

EPA's Response: EPA proposed to change the flow measurement type from "record" to "estimate" because "estimate" type was used in the previous permit and it was likely that the "record" type was a typographical error when EPA proposed permit renewal in 2013 and EPA did not receive any comment on the issue.

Compliance Schedules for Outfall 03A048, 03A160 and 051: The permittees requested 3-year compliance schedules be established for parameters which have more stringent limitations in the new permit.

EPA's Response: While the New Mexico Water Quality Standards do allow compliance schedules, 40 CFR 122.47(a)(1) states "schedules of compliance ... shall require compliance as soon as possible" and there is no automatic three year compliance period. EPA denies the request and rationales for denial are described as below.

Outfall 03A048

Total Selenium- Effluent limitations are proposed to be removed as described above.

Total Arsenic- Changes of limitations are within 30% and the permittees should be able to comply with the new limitations with a shorter period of time than the 1/year monitoring frequency.

Outfall 03A160

Total Arsenic- The permittees should be able to comply with the new limitations with a shorter period of time than the 1/year monitoring frequency.

Total Copper- Changes of limitations are within 5% and the permittees should be able to comply with it without a compliance schedule.

Outfall 051- No discharge has occurred since 2010. The permittees can start evaluating the treatment technology and operation practices prior to next discharge.

Effluent Limitations and Monitoring Requirements at Outfall 04A022: The permittees requested clarification on the effluent limits, monitoring and reporting requirements for Outfall 04A022. The permittees commented "It is assumed that the effluent limits are established only for the once through cooling water discharge. If the intent of the Permit Writer is to have monitoring requirements for storm water and roof drain water in this permit at Outfall 04A022, then the Permittees request that only monitoring and reporting requirements (no effluent limits) be established for storm water discharges, or a 3-year compliance schedule for storm water/roof drain water will be needed to meet the permit limits for pH and TSS at Outfall 04A022 (Page 11 of Part I)." The permittees also stated "...the pH of natural rainwater in New Mexico is often < 6.0 s.u., and it is unknown if storm water/roof drain water will meet the TSS limits."

EPA's Response: All parameters, except for total residual chlorine (TRC) listed for monitoring requirements and/or effluent limitations apply to storm water and roof drain discharges; and all parameters including TRC apply to once through cooling water discharges. Because both pH and TSS limitations were retained from the previous permit and discharges of storm water/roof drain are infrequent, the permittees should be able to use the existing on-site technologies to control both pH and TSS. No compliance schedule is proposed. Flow measurement type is changed to estimate.

Effluent Limitations and Monitoring Requirements at Outfall 03A027: (1) The Permittees requested that "total PCB (ug/L) *2" be added to the effluent characteristic table for Outfall 03A027 after E. Coli to reflect the discharge limitation monitoring requirement (at Page 17 of Part I). (2) The permittees requested clarification as to whether BOD monitoring and reporting requirements apply at Outfall 03A027. (3) The Permittees also requested the WET monitoring requirement be changed to "Grab" due to the intermittent 'discharge type' of the cooling tower blowdown to this outfall and it is consistent with sample type of 'Grab' for all other parameters listed for this outfall.

EPA's Response: (1) EPA proposes to add "total PCB (ug/L) *2" to the effluent characteristic table. (2) EPA does not intent to require limit or monitoring for BOD at Outfall 03A027 in the permit issued August 12, 2014. All effluent limitations established at Outfall 03A027 are water quality-based limitations. (3) EPA proposes to change the sample type from "24-hour composite" to "3-hour composite" because a "3-hour composite" sample type was used in the previous permit. The "24-hour composite" sample type might be a typo when EPA proposed the permit renewal in 2013. The term "3-hour composite sample" means a sample consisting of a minimum of one (1) aliquot of effluent collected at a one-hour interval over a period 3 hours of discharge.

Description of Outfall 03A113: Buildings 294, 1032, and 1038 no longer discharge to the outfall, and will not in the future. The Permittees requested the description located on Page 25 of Part I be changed to (TA-53-293 & 952).

EPA's Response: EPA proposes to change the description of Outfall 03A113 to (TA-53-293 & 952).

Effluent Limitations and Monitoring Requirements at Outfall 03A181: The permittees requested clarification on the effluent limits, monitoring and reporting requirements for Outfall 03A181. The permittees commented "It is assumed that the effluent limits are established only for the once through cooling water discharge. If the intent of the Permit Writer is to have monitoring requirements for storm water in this permit at Outfall 03A181, then the Permittees request that only monitoring and reporting requirements (no effluent limits) be established for storm water discharges, or a 3-year compliance schedule for storm water discharge will be needed to meet the permit limits for pH and TSS…." The permittees also stated "…the pH of natural rainwater in New Mexico is often < 6.0 s.u., and it is unknown if storm water will meet the TSS limits."

EPA's Response: All parameters, except for total residual chlorine (TRC) listed for monitoring requirements and/or effluent limitations apply to storm water discharges; and all parameters including TRC apply to once through cooling water discharges. Because both pH and TSS limitations were retained from the previous permit and discharges of storm water are infrequent, the permittees should be able to use the existing on-site technologies to control both pH and TSS. No changes to the permit or a compliance schedule are proposed.

Outfall 13S: The permittees stated that "Outfall 13S is located at the TA-46 Sanitary Waste Water System (SWWS) Plant and potentially discharges treated sanitary wastewater effluent to the TA-3-336 Reuse Tank for tertiary treatment at the TA-3 Sanitary Effluent Reclamation Facility (SERF) or directly to NPDES Outfall 001; or directly into Canada Del Buey. The SWWS Plant has never discharged to Canada Del Buey since beginning operations in 1992. The permittee will properly operate and maintain these facilities pursuant to Part III. B and will not discharge to Canada del Buey unless under emergency conditions. If a discharge occurs to Canada del Buey, the permittee will notify EPA pursuant to Part III.D. of the Laboratory's NPDES Permit."

EPA's Response: Comment noted. No permit changes proposed.

6T3 Temperature Monitoring at Outfall 001: The permittees in their email dated September 24, 2014, stated "…the monitoring requirement is '1/Hour, Grab (or Continuous Record)'. A compliance schedule is stated for the effluent limitation (6T3 = 20°C), but not for the monitoring requirement of 1/Hour. In the EPA response to comments, NMED stated that they recognize that new or updated temperature monitoring instrumentation and/or procedures and operational changes may be needed to meet the 6T3 temperature limitations…." Then, it continued that "Currently, there is no instrumentation to monitor temperature 1/Hour at Outfall 001. For the previous permit (temperature monitoring requirement 1/Week, Grab), monitoring was by a grab sample and a calibrated temperature probe."

EPA's Response: EPA proposes to include the 1/Hour monitoring frequency in the permit because the compliance schedule was designed to address monitoring instrumentation and operational changes. EPA also proposes to re-establish the 1/Week and grab sample type as the

interim monitoring and reporting requirements for temperature.

Potential Contaminant in Sewer System: The permittees notified EPA R6's Water Enforcement Branch in the letter dated August 27, 2014, that showers and sinks used by personnel to wash off after working in the building or near areas adjacent to the high explosive (HE) facilities have potential to contain HE. Approximately 50 – 100 gallons per day of soap and wash water which may contain de minimis quantities of HE are discharged to the sanitary collection system. The permittees also stated that the basement of Building 86 was flooded and captured storm water were contaminated with oil & grease, uranium, and HE. The captured storm water would be disposed at the Sanitary Wastewater Systems Plant (SWSP) for treatment and discharge.

EPA's Response: The SWSP is not designed to treat HE waste stream and Outfall 13S or Outfall 001 is not authorized to discharge HE waste stream. It is common that workers' personnel clothing and/or body are contaminated with de minimis amount of chemicals, oil and grease, raw materials, products, by-products, and etc., and those contaminants are washed off to the sanitary collection system through washing, shower, or laundry. While LANL shall (and has done so) provide as detailed as practicable a list of potential sources of wastes in the application or addendum to the application, EPA does not believe it is necessary to include de minimis amount of HE in the description of the discharge at Outfall 13S or Outfall 001. EPA is not proposing to make any changes for Outfall 13S.

In terms of flooding water or other unexpected waste streams (e.g., collected accidental spill, firefighting water, etc,) needing to be treated at the SWSP, the permittees shall notify EPA R6's Water Enforcement Branch for monitoring requirements or discharge instructions.

III. PUBLIC COMMENT AND FINAL DETERMINATION

The proposed permit modification is open to the public for review and comment for a period of xx days from xxxx, 2014, or until xxxx, 2014 (to accommodate staggered newspaper notice of the proposed modification). In accordance with 40 CFR 122.62, only the modified parts of the permit as described below are open for comment. Anyone wishing to comment on the draft permit modification should submit their comments in writing by the close of business on June 7, 2010, to the address listed below.) Pursuant to 40 C.F.R. § 122.62, only the proposed changes from the previously issued final permit are open for comment.

Evelyn Rosborough
U.S. Environmental Protection Agency
Water Quality Protection Division
1445 Ross Ave, Suite 1200 (6WQ-NP)
Dallas, TX 75202
Rosborough.evelyn@epa.gov

Any person, prior to the close of the comment period, may submit a request in writing to EPA for a public hearing to consider the draft permit modification. Such requests shall state the nature of the issues proposed to be raised in the hearing. A public hearing may be held after at least

thirty (30) days public notice whenever the Regional Administrator finds that response to this notice indicates significant public interest.

Following the close of the comment period and any public hearing, if held, the Regional Administrator will issue a final permit modification decision and forward a copy of the final decision to the permittees, and send a notice to anyone who submitted written comments on the modification or requested notice.

Region 6
1445 Ross Avenue
Dallas, Texas 75202-2733

NPDES Permit No. **NM0028355**

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 modification supersedes and replaces Part I – Requirements for NPDES Permits of NPDES Permit No. NM0028355 issued on August 12, 2014.

This permit modification shall become effective on

This permit and the authorization to discharge shall expire at midnight, September 30, 2019.

Issued on

Prepared by

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

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

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PART I - REQUIREMENTS FOR NPDES PERMITS

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

OUTFALL 001

Discharge Type: Continuous
Latitude 35°52'26"N, Longitude 106°19'09"W (TA-3-22)

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 Power Plant waste water from cooling towers, boiler blowdown drains, demineralizer backwash, R/O reject, floor and sink drains, and treated sanitary re-use to Sandia Canyon, and the discharge creates a perennial portion of Sandia Canyon, Segment Number 20.6.4.126 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 (mg/L, unless stated)		LOADING (Lbs/day, unless stated)		FREQUENCY	SAMPLE TYPE
	MONTHLY AVERAGE	DAILY MAXIMUM	MONTHLY AVERAGE	DAILY MAXIMUM		
Flow (MGD)	***	***	Report	Report	Continuous	Record
TSS	30	100	Report	Report	1/Month	24-hr Composite
E. Coli (#/100 ml) (*1)	126	410	***	***	2/Month	Grab
Total Residual Chlorine	***	0.011 (*2)	***	***	1/Week	Grab
Total Recoverable Aluminum	***	0.9889 (*3)	***	***	1/Year	Grab
Dissolved Copper	***	0.0073 (*3)	***	***	1/Year	Grab
Adjusted Gross Alpha	Report	Report	***	***	1/Term	Grab
Temperature (°C) (*4)	20° C	20° C	***	***	1/Week	Grab
6T3 Temperature (°C)	(*5)	(*5)	***	***	1/Hour	Grab (or Continuous Record)
Total PCB (µg/l) (*6)	0.00064	0.00064	Report	Report	1/Year	24-hr Composite
pH (Standard Unit)	Range from 6.6 to 8.8		***	***	1/Week	Grab

EFFLUENT CHARACTERISTICS	DISCHARGE MONITORING		MONITORING REQUIREMENTS	
WHOLE EFFLUENT TOXICITY TESTING (*7) (7-day Static Renewal)	MONTHLY AVG MINIMUM	7-DAY MINIMUM	MEASUREMENT FREQUENCY	SAMPLE TYPE
Ceriodaphnia dubia	Report	Report	1/5 Years	24-Hr Composite
Pimephales promelas	Report	Report	1/5 Years	24-Hr Composite

SAMPLING LOCATION(S)

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s): following final treatment and prior to or at the point of discharge from Outfall 001.

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.

FOOTNOTES

*1 Geometric mean. Effluent limitations and monitoring requirements only apply when effluent from Outfall 13S is rerouted and discharged at Outfall 001.

*2 Effluent limitation for TRC is the instantaneous maximum and cannot be averaged for reporting purposes.

*3 Effluent limitations take effective on the date of three years from the effective date of the permit.

*4 Monitoring and reporting requirements end when 6T3 Temperature limitations become effective.

*5 6T3 Temperature of 20° C (68° F) shall not be exceeded for six or more consecutive hours in a 24-hour period on more than three consecutive days. The effluent limitation and monitoring requirements of 6T3 takes effective on the date one-day before the permit expiration date.

*6 EPA published congener Method 1668 Revision and detection limits shall be used. [The permittee is allowed to develop an effluent specific MDL in accordance with Appendix B of 40 CFR Part 136 (instructions in Part II.A of this permit).] Human health-based limitations.

*7 Critical dilution 100%, and the dilution series are 32%, 42%, 56%, 75%, 100%. See Part II, Section G. Whole Effluent Toxicity (7-Day Chronic Testing).

OUTFALL 13S

Discharge Type: Continuous
Latitude 35°51'08"N, Longitude 106°16'29"W (TA-46-347)

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 sanitary waste water to Sandia Canyon in Segment Numbers 20.6.4.126 via outfalls utilizing treated effluent as specified in Outfall 001 and Category 03A, or to Canada del Buey in Segment Numbers 20.6.128 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 (mg/L, unless stated)		LOADING (Lbs/day, unless stated)		FREQUENCY	SAMPLE TYPE
	MONTHLY AVERAGE	DAILY MAXIMUM	MONTHLY AVERAGE	DAILY MAXIMUM		
Flow (MGD)	***	***	Report	Report	Continuous	Record
BOD	30	45	73	109	1/Month	24-hr Composite
TSS	30	45	73	109	1/Month	24-hr Composite
E. Coli (#/100 ml) (*1)	548	2507	***	***	2/Month	Grab
Total Residual Chlorine	***	0.011 (*2)	***	***	1/Week	Grab
Total PCB (µg/l) (*3,*4)	0.00064	0.000642	Report	Report	1/Year	24-hr Composite
Total Recoverable Aluminum	***	3.514 (*5)	***	***	1/Year	Grab
Adjusted Gross Alpha	Report	Report	***	***	1/Term	Grab
pH (Standard Unit)	Range from 6.0 to 9.0		***	***	1/Week	Grab

EFFLUENT CHARACTERISTICS	DISCHARGE MONITORING		MONITORING REQUIREMENTS	
WHOLE EFFLUENT TOXICITY TESTING (*6)	MONTHLY AVG MINIMUM	48-HOUR MINIMUM	MEASUREMENT FREQUENCY	SAMPLE TYPE

(48-hr Static Renewal) Daphnia pulex	Report	Report	1/ 2-Years	24-Hr Composite

FOOTNOTES

*1 Logarithmic mean. If the wastewater is discharge at other outfall, it shall comply with effluent limitations and monitoring requirements for E. coli as established for Outfall 13S.

*2 The effluent limitation for TRC is the instantaneous maximum and cannot be averaged for reporting purposes.

*3 If the wastewater is discharge at other outfall, it shall comply with effluent limitations and monitoring requirements for PCBs as established for Outfall 13S. EPA published congener Method 1668 Revision and detection limits shall be used for reporting purposes. The permittee is allowed to develop an effluent specific MDL in accordance with Appendix B of 40 CFR Part 136 (instructions in Part II.A of this permit).

*4 Human health-based limitation.

*5 Effluent limitations take effective on the date of three years from the effective date of the permit.

*6 1st sample in the 1st year of the permit and 2nd sample in the 3rd year of the permit. The WET test should occur between November 1 and March 31. If discharges are not expected to occur during this sampling period, the test should be taken as soon as possible. Critical dilution 100%, and the dilution series are 32%, 42%, 56%, 75%, 100%.
See Part II, Section H. Whole Effluent Toxicity (48-Hr Acute Testing).

SAMPLING LOCATION(S)

Samples taken in compliance with the monitoring requirements shall be taken at the following location(s): at the flow measuring device in Canada del Buey only when a discharge occurs at the outfall.

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.

OUTFALL 051 - Radioactive Liquid Waste Treatment Facility

Discharge Type: Intermittent
Latitude 35°51'54"N, Longitude 106°17'52"W (TA-50-1)

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 (mg/L, unless stated)		LOADING (Lbs/day, unless stated)		FREQUENCY	SAMPLE TYPE
	MONTHLY AVERAGE	DAILY MAXIMUM	MONTHLY AVERAGE	DAILY MAXIMUM		
Flow (MGD)	***	***	Report	Report	1/Day	Estimate (*5)
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	0.076	0.115	***	***	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 mg/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

Perchlorate	Report	Report	***	***	1/Week	Grab
Total PCB (µg/l)	Report	Report	***	***	2/Term (*3)	Grab
Total Recoverable Aluminum	Report	Report	***	***	1/Term	Grab
Adjusted Gross Alpha	Report	Report	***	***	1/Term	Grab
Chromium III	Report	Report	***	***	1/Term	Grab
Chromium VI	Report	Report	***	***	1/Term	Grab
pH (Standard Unit)	Range from 6.0 to 9.0		***	***	1/Week	Grab

EFFLUENT CHARACTERISTICS	DISCHARGE MONITORING		MONITORING REQUIREMENTS	
Whole Effluent Lethality (PCS 22414) (48-Hr NOEC) (*4)	MONTHLY AVG MINIMUM	7-DAY MINIMUM	MEASUREMENT 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. EPA published congener Method 1668 Revision and detection limits shall be used for reporting purposes. The permittee is allowed to develop an effluent specific MDL in accordance with Appendix B of 40 CFR Part 136 (instructions in Part II.A of this permit).

*4 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).

*5 "Estimate" flow measurements shall not be subject to the accuracy provisions established at Part III.C.6. The daily flow value may be estimated using best engineering judgment.

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.

OUTFALL 05A055 - High Explosives Waste Water Treatment Plant

Discharge Type: Intermittent
Latitude 35°50'49"N, Longitude 106°19'51"W (TA-16-1508)

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 waste water from the high explosives waste water treatment facility to a tributary to Canon de Valle 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 (mg/L, unless stated)		LOADING (Lbs/day, unless stated)		FREQUENCY	SAMPLE TYPE
	MONTHLY AVERAGE	DAILY MAXIMUM	MONTHLY AVERAGE	DAILY MAXIMUM		
Flow (MGD)	***	***	Report	Report	1/Day	Estimate (*4)
COD	125	125	***	***	1/Quarter	Grab
TSS	30	45	***	***	1/Quarter	Grab
Total Toxic Organics (*1)	1.0	1.0	***	***	1/Quarter	Grab
Oil and Grease	15	15	***	***	1/Quarter	Grab
Trinitrotoluene	0.02	Report	***	***	1/Quarter	Grab
Total RDX	0.20	0.66	***	***	2/Month (*2)	Grab
Perchlorate	Report	Report	***	***	1/Year	Grab
Total Recoverable Aluminum	Report	Report	***	***	1/Term	Grab
Adjusted Gross Alpha	Report	Report	***	***	1/Term	Grab
pH (Standard Unit)	Range from 6.0 to 9.0		***	***	1/Week	Grab

EFFLUENT CHARACTERISTICS	DISCHARGE MONITORING		MONITORING REQUIREMENTS	
WHOLE EFFLUENT TOXICITY TESTING (*3) (48-Hour Static Renewal)	MONTHLY AVG MINIMUM	7-DAY MINIMUM	MEASUREMENT FREQUENCY	SAMPLE TYPE
Daphnia pulex	Report	Report	1/5 Years	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 One sample should be taken before the 15th of the month and another taken after the 15th of the month.

*3 The WET test should occur during the period of November 1 to March 31 after the effective date of the permit. If no discharge is expected during this period, testing should be taken as soon as possible. Critical dilution 100%, and the dilution series are 32%, 42%, 56%, 75%, 100%. See Part II, Section H. Whole Effluent Toxicity (48-Hour Acute Testing).

*4 "Estimate" flow measurements shall not be subject to the accuracy provisions established at Part III.C.6. The daily flow value may be estimated using best engineering judgment.

SAMPLING LOCATION(S)

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

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.

OUTFALL 04A022

Discharge Type: Intermittent
Outfall 03A022: Latitude 35°52'14"N, Longitude 106°19'01"W (TA3-2274)

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 storm water, roof drain water, and once-through cooling water for emergency use only to Mortandad Canyon, in segment number 20.6.4.128 of the Rio Grande Basin. (Cooling tower blowdown is not authorized for discharge at this outfall.)

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

EFFLUENT CHARACTERISTIC	DISCHARGE LIMITATIONS				MONITORING REQUIREMENTS	
	CONCENTRATION (mg/L, unless stated)		LOADING (Lbs/day, unless stated)		FREQUENCY	SAMPLE TYPE
	MONTHLY AVERAGE	DAILY MAXIMUM	MONTHLY AVERAGE	DAILY MAXIMUM		
Flow (MGD)	***	***	Report	Report	1/Day	Estimate (*2)
TSS	30	100	***	***	1/Quarter	Grab
Total Residual Chlorine	***	0.011	***	***	1/Week (*1)	Grab
Total Recoverable Aluminum	Report	Report	***	***	1/Term	Grab
Dissolved Copper	Report	Report	***	***	1/Term	Grab
Adjusted Gross Alpha	Report	Report	***	***	1/Term	Grab
pH (Standard Unit)	Range from 6.0 to 9.0		***	***	1/Week	Grab

Footnote

*1 When discharge of once-through cooling water for emergency purposes only.
*2 "Estimate" flow measurements shall not be subject to the accuracy provisions established at Part III.C.6. The daily flow value may be estimated using best engineering judgment.

SAMPLING LOCATION(S)

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

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.

OUTFALL 03A181

Discharge Type: Intermittent
Outfall 03A181: Latitude 35°51'50.8"N, Longitude 106°18'05"W (TA55-6)

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 storm water, cooling tower blowdown and other wastewater 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 (mg/L, unless stated)		LOADING (Lbs/day, unless stated)		FREQUENCY	SAMPLE TYPE
	MONTHLY AVERAGE	DAILY MAXIMUM	MONTHLY AVERAGE	DAILY MAXIMUM		
Flow (MGD)	***	***	Report	Report	1/Day	Estimate (*3)
TSS	30	100	***	***	1/Quarter	Grab
Total Phosphorus	20	40	***	***	1/Quarter	Grab
Total Residual Chlorine (*1)	***	0.011	***	***	1/Week	Grab
Dissolved Copper	***	0.0115 (*2)	***	***	1/Year	Grab
Total Recoverable Aluminum	***	2.724 (*2)	***	***	1/Year	Grab
Adjusted Gross Alpha	Report	Report	***	***	1/Term	Grab
pH (Standard Unit)	Range from 6.0 to 9.0		***	***	1/Week	Grab

FOOTNOTES

*1 Effluent limitation for TRC is the instantaneous maximum and cannot be averaged for reporting purposes. TRC applies when discharges of cooling tower blowdown occur only.

*2 Effluent limitations take effective on the date of three years from the effective date of the permit.

*3 "Estimate" flow measurements shall not be subject to the accuracy provisions established at Part III.C.6. The daily flow value may be estimated using best engineering judgment.

SAMPLING LOCATION(S)

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

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.

OUTFALL 03A113

Discharge Type: Intermittent
Outfall 03A113: Latitude 35°52'03"N, Longitude 106°15'43"W (TA-53-293 & 952)

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 cooling tower blowdown and other wastewater to Sandia 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 (mg/L, unless stated)		LOADING (Lbs/day, unless stated)		FREQUENCY	SAMPLE TYPE
	MONTHLY AVERAGE	DAILY MAXIMUM	MONTHLY AVERAGE	DAILY MAXIMUM		
Flow (MGD)	***	***	Report	Report	1/Day	Estimate (*3)
TSS	30	100	***	***	1/Quarter	Grab
Total Residual Chlorine (*1)	***	0.011	***	***	1/Week	Grab
Total Phosphorus	20	40	***	***	1/Quarter	Grab
Dissolved Copper	***	0.0218 (*2)	***	***	1/Year	Grab
Total Recoverable Aluminum	***	6.904 (*2)	***	***	1/Year	Grab
Adjusted Gross Alpha	Report	Report	***	***	1/Term	Grab
pH (Standard Unit)	Range from 6.0 to 9.0		***	***	1/Week	Grab

FOOTNOTES

*1 Effluent limitation for TRC is the instantaneous maximum and cannot be averaged for reporting purposes.
*2 Effluent limitations take effective on the date of three years from the effective date of the permit.
*3 "Estimate" flow measurements shall not be subject to the accuracy provisions established at Part III.C.6. The daily flow value may be estimated using best engineering judgment.

SAMPLING LOCATION(S)

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

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.

OUTFALLS 03A027

Discharge Type: Intermittent
Outfall 03A027: Latitude 35°52'26"N, Longitude 106°19'08"W (TA3-2327)

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 cooling tower blowdown and other wastewater to Sandia Canyon, in segment number 20.6.4.126 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 (mg/L, unless stated)		LOADING (Lbs/day, unless stated)		FREQUENCY	SAMPLE TYPE
	MONTHLY AVERAGE	DAILY MAXIMUM	MONTHLY AVERAGE	DAILY MAXIMUM		
Flow (MGD)	***	***	Report	Report	1/Day	Estimate (*4)
TSS	30	100	***	***	1/Quarter	Grab
Total Residual Chlorine (*1)	***	0.011	***	***	1/Week	Grab
Total Phosphorus	20	40	***	***	1/Quarter	Grab
E. Coli (#/100 ml) (*2)	548	2507	***	***	2/Month	Grab
Total PCB (µg/l) (*2)	0.00064	0.000642	Report	Report	1/Year	Grab
Total Recoverable Aluminum	***	0.9889 (*3)	***	***	1/Year	Grab
Dissolved Copper	***	0.0073 (*3)	***	***	1/Year	Grab
Adjusted Gross Alpha	Report	Report	***	***	1/Term	Grab
Chromium VI	Report	Report	***	***	1/Term	Grab
pH (Standard Unit)	Range from 6.6 to 8.8		***	***	1/Week	Grab

EFFLUENT CHARACTERISTICS	DISCHARGE MONITORING		MONITORING REQUIREMENTS	
Whole Effluent Toxicity Testing (7-day Static Renewal) (*5)	MONTHLY AVG MINIMUM	7-DAY MINIMUM	MEASUREMENT FREQUENCY	SAMPLE TYPE
Ceriodaphnia dubia	Report	Report	1/5 Years	3-Hr Composite (*6)
Pimephales promelas	Report	Report	1/5 Years	3-Hr Composite (*6)

FOOTNOTES

*1 Effluent limitation for TRC is the instantaneous maximum and cannot be averaged for reporting purposes.

*2 Effluent limitations and monitoring requirements only apply at Outfall when effluent from Outfall 13S is rerouted and discharged at the Outfall. E. coli limitations are geometric mean. Total PCB effluent limitations established at Outfall 13S applies when effluent from Outfall 13S is rerouted and discharged at Outfall 03A027.

*3 Effluent limitations take effective on the date of three years from the effective date of the permit.

*4 "Estimate" flow measurements shall not be subject to the accuracy provisions established at Part III.C.6. The daily flow value may be estimated using best engineering judgment.

*5 Critical dilution of 23% (with a dilution series of 10%, 13%, 17%, 23%, and 31%) applies to Outfall 03A027. Also see Part II. Section G. Whole Effluent Toxicity (7-Day Chronic Testing). The WET test should occur during the first period of November 1 to March 31 after the effective date of the permit. If no discharge occurs during this period, the test should occur as soon as possible.

*6 "3-hour composite sample" means a sample consisting of a minimum of one (1) aliquot of effluent collected at a one-hour interval over a period of up to 3 hour discharge.

SAMPLING LOCATION(S)

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

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.

OUTFALLS 03A048

Discharge Type: Intermittent
03A048: Latitude 35°52'11"N, Longitude 106°15'45"W (TA-53-964 & 979)

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 cooling tower blowdown and other wastewater to Los Alamos 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 (mg/L, unless stated)		LOADING (Lbs/day, unless stated)		FREQUENCY	SAMPLE TYPE
	MONTHLY AVERAGE	DAILY MAXIMUM	MONTHLY AVERAGE	DAILY MAXIMUM		
Flow (MGD)	***	***	Report	Report	1/Day	Estimate (*3)
TSS	30	100	***	***	1/Quarter	Grab
Total Phosphorus	20	40	***	***	1/Quarter	Grab
Total Residual Chlorine (*1)	***	0.011	***	***	1/Week	Grab
Total Arsenic	0.013	0.013	***	***	1/Year	Grab
Dissolved Copper	***	0.0233 (*2)	***	***	1/Year	Grab
Total Mercury (µg/l)	***	0.77 (*2)	***	***	1/Year	Grab
Dissolved Mercury (µg/l)	***	1.4 (*2)	***	***	1/Year	Grab
Total Recoverable Aluminum	***	7.592 (*2)	***	***	1/Year	Grab
Adjusted Gross Alpha	Report	Report	***	***	1/Term	Grab
Chromium VI	Report	Report	***	***	1/Term	Grab
pH (Standard Unit)	Range from 6.0 to 9.0		***	***	1/Week	Grab

FOOTNOTES

*1 Effluent limitation for TRC is the instantaneous maximum and cannot be averaged for reporting purposes.
*2 Effluent limitations take effective on the date of three years from the effective date of the permit.
*3 "Estimate" flow measurements shall not be subject to the accuracy provisions established at Part III.C.6. The daily flow value may be estimated using best engineering judgment.

SAMPLING LOCATION(S)

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

NO DISCHARGE REPORTING

If there is no discharge event at this outfall during the sampling month, place an "X" in the NO DISCHARGE box located in the upper right corner of the preprinted 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.

OUTFALL 03A160

Discharge Type: Intermittent
Outfall 03A160: Latitude 35°51'47"N, Longitude 106°17'49"W (TA35-124)

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 cooling tower blowdown and other wastewater to Ten Site 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 (mg/L, unless stated)		LOADING (Lbs/day, unless stated)		FREQUENCY	SAMPLE TYPE
	MONTHLY AVERAGE	DAILY MAXIMUM	MONTHLY AVERAGE	DAILY MAXIMUM		
Flow (MGD)	***	***	Report	Report	1/Day	Estimate (*3)
TSS	30	100	***	***	1/Quarter	Grab
Total Phosphorus	20	40	***	***	1/Quarter	Grab
Total Residual Chlorine (*1)	***	0.011	***	***	1/Week	Grab
Total Arsenic	0.013	0.018	***	***	1/Year	Grab
Total Copper	0.021	0.032	***	***	3/Week	Grab
Total Cyanide (µg/l)	Report	Report	***	***	1/Month	Grab
Total Recoverable Aluminum	***	4.290 (*2)	***	***	1/Year	Grab
Adjusted Gross Alpha	Report	Report	***	***	1/Term	Grab
Chromium VI	Report	Report	***	***	1/Term	Grab
pH (Standard Unit)	Range from 6.0 to 9.0		***	***	1/Week	Grab

FOOTNOTES

*1 Effluent limitation for TRC is the instantaneous maximum and cannot be averaged for reporting purposes.
*2 Effluent limitations take effective on the date of three years from the effective date of the permit.

*3 "Estimate" flow measurements shall not be subject to the accuracy provisions established at Part III.C.6. The daily flow value may be estimated using best engineering judgment.

SAMPLING LOCATION(S)

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

NO DISCHARGE REPORTING

If there is no discharge event at this outfall during the sampling month, place an "X" in the NO DISCHARGE box located in the upper right corner of the preprinted 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.

OUTFALL 03A199

Outfall 03A199: Latitude 35°52'33"N, Longitude 106°19'19"W (TA3-1837)

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 cooling tower blowdown and other wastewater to Sandia Canyon, in segment number 20.6.4.126 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 (mg/L, unless stated)		LOADING (Lbs/day, unless stated)		FREQUENCY	SAMPLE TYPE
	MONTHLY AVERAGE	DAILY MAXIMUM	MONTHLY AVERAGE	DAILY MAXIMUM		
Flow (MGD)	***	***	Report	Report	1/Day	Estimate (*3)
TSS	30	100	***	***	1/Quarter	Grab
Total Residual Chlorine (*1)	***	0.011	***	***	1/Week	Grab
Total Phosphorus	20	40	***	***	1/Quarter	Grab
Total Recoverable Aluminum	***	0.9889 (*2)	***	***	1/Year	Grab
Dissolved Copper	***	0.0073 (*2)	***	***	1/Year	Grab
Adjusted Gross Alpha	Report	Report	***	***	1/Term	Grab
Total Mercury	***	0.77 µg/l (*2)	***	***	1/Year	Grab
Dissolved Mercury	***	0.77 µg/l (*2)	***	***	1/Year	Grab
pH (Standard Unit)	Range from 6.6 to 8.8		***	***	1/Week	Grab

FOOTNOTES

*1 Effluent limitation for TRC is the instantaneous maximum and cannot be averaged for reporting purposes.

*2 Effluent limitations take effective on the date of three years from the effective date of the permit.

*3 "Estimate" flow measurements shall not be subject to the accuracy provisions established at Part III.C.6. The daily flow value may be estimated using best engineering judgment.

SAMPLING LOCATION(S)

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

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.

B. COMPLIANCE SCHEDULES

All effluent limitations with a compliance schedule established in Part I., section A. above, must comply with the following reporting requirements and compliance schedules:

1. Provide semi-annual progress reports by August 31 for the period of January – June, and by February 28 for the period of July – December;

2. Identify sources or causes of exceedance of permit limitations by six months from the effective date of the permit;

3. Identify corrective measures or study plan by one year from the effective date of the permit;

4. Comply with the final effluent limitations by the date specified in Part I. section A. of the permit.

C. REPORTING OF MONITORING RESULTS (MAJOR DISCHARGERS)

Monitoring information shall be submitted as specified in Part III.D.4 of this permit and shall be submitted monthly.

1. Reporting periods shall end on the last day of the month.

2. The permittee is required to submit regular monthly reports as described above no later than the 28th day of the month following each reporting period.

The permittee shall report all overflows with the Discharge Monitoring Report submittal. These reports shall be summarized and reported in tabular format. The summaries shall include: the date, time, duration, location, estimated volume, and cause of the overflow; observed environmental impacts from the overflow; actions taken to address the overflow; and ultimate discharge location if not contained (e.g., storm sewer system, ditch, tributary). Any noncompliance which may endanger health or the environment shall be made to the EPA at the following e-mail address: R6_NPDES_Reporting@epa.gov, as soon as possible, but within 24-hours from the time the permittee becomes aware of the circumstance. This language supersedes that contained in Part III.D.7 of the Permit. Additionally, oral notification shall also be to the New Mexico Environment Department at (505) 827-0187 as soon as possible, but within 24 hours from the time the permittee becomes aware of the

circumstance. A written report of overflows which endanger health or the environment shall be provided to EPA and the New Mexico Environment Department, within 5 days of the time the permittee becomes aware of the circumstance.

D. APPLICATION

A complete copy of application with original officer signature for permit renewal shall be sent to EPA and either a paper copy or an electronic copy shall be sent to New Mexico Environment Department (NMED) at the mailing address listed in Part III of this permit.

E. EFFLUENT CHARACTERISTIC ANALYSIS (Outfalls 051, 05A055 and 04A022)

During the term of this permit, if a discharge occurs at Outfall 051, Outfall 05A055 or Outfall 04A022, at the minimum of an one-time discharge effluent grab sample shall be taken for effluent characteristic analysis from the associated outfall as soon as practical. Effluent sample(s) shall be analyzed for pollutants listed in the New Mexico Water Quality Standards, 20.6.4 NMAC, section 900.J(2) Table of Numeric Criteria, which have at least one of the following criteria: irrigation, livestock watering, wildlife habitat, acute/chronic aquatic life, or persistent human health-organism only (HH-OO) criteria. The permittee shall report analytical results to EPA within 30 days when full results become available.

LANL 28355
pink permit process

ENVIRONMENTAL PROTECTION AGENCY
REGION 6 (6WQ-NP)
1445 Ross Avenue Dallas, Texas 75202-2733
OFFICE BUSINESS
PENALTY FOR PRIVATE USE $300

FIRST CLASS MAIL
Postage & Fees Paid
EPA
Permit No. G35

PROGRAM MANAGER 8X
NMED, SWQB, PSRS
P.O. BOX 5469
SANTA FE, NM 87502-5469

DEC 22 2014

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PUBLIC NOTICE

U.S. Environmental Protection Agency
Public Notice of Draft NPDES Permit(s)

DECEMBER 20, 2014

This is to give notice that the U.S. Environmental Protection Agency, Region 6, has formulated a Draft Permit for the following facility (facilities) under the National Pollutant Discharge Elimination System (NPDES). Development of the draft permit(s) was based on a preliminary stuff review by EPA, Region 6, and consultation with the State of New Mexico. The State of New Mexico is currently reviewing the draft permit(s). The permit(s) will become effective no sooner than 30 days after the close of the comment period unless:

A. The State of New Mexico denies certification, or requests an extension for certification prior to that date.

B. Comments received by JANUARY 19, 2015, in accordance with §124.20, a warrant a public notice of EPA's final permit decision.

C. A public hearing is held requiring delay of the effective date.

EPA's contact person for submitting written comments, requesting information regarding the draft permit, and/or obtaining copies of the permit and the Statement of Basis or Fact Sheet is:

Ms. Evelyn Rosborough
U.S. Environmental Protection Agency
Permit Processing Team (6WQ-NP)
1445 Ross Avenue, Suite 1200
Dallas, Texas 75202-2733
(214) 665-7515
rosborough.evelyn@epa.gov

EPA's comments and public hearing procedures may be found at 40 CFR 124.10 and 124.12 (48 Federal Register 14264, April 1, 1983, as amended at 49 Federal Register 38051, September 26, 1984). The comment period during which written comments on the draft permit may be submitted extends for 30 days from the date to this Notice.

During the comment period, any interested person may request a Public Hearing by filing a written request which must state the issues to be raised. A public hearing will be held when EPA finds a significant degree of public interest.

EPA will notify the applicant and each person who has submitted comments or requested notice of the final permit decision. A final permit decision means a final decision to issue, deny, modify, revoke or reissue, or terminate a permit. Any person who filed comments on or participated in public hearing on : draft permit may appeal the Agency's final permit decision. However, the request must be submitted within 30 days of the date of the final permit decision and be in accordance with the requirements of 40 CFR 124.19.

Further information including the administrative record may be viewed at the above address between 8 a.m. and 4:30 p.m., Monday through Friday. It is recommended that you write or call to the contact above for an appointment, so the record(s) will be available at your convenience.

The draft permit(s) are available on the New Mexico NPDES Public Notices website at:
http;//www.epa.gov/region6/water/npdes/publicnotices/nm/nmdraft.htm

AUTHORIZATION TO DISCHARGE TO WATERS OF THE UNITED STATES,
NPDES PERMIT NO. NM0028355.

The applicant's mailing address is:

U.S. Department of Energy Los Alamos Site Office
3747 West Jemez Road
Los Alamos, NM 87544

EPA proposes to modify the current permit issued August 12, 2014, with an effective date of October 1, 2014, and an expiration date of September 30, 2019. Significant changes from the current permit include:

A. Delete effluent limitations and monitoring requirements for selenium at Outfall 03A048;
B. Change flow measurement type to "estimate" for Outfalls 03A113, 03A027, 03A048, 03A160, 03A199, and 03A181;
C. Add compliance schedule for 6T3 Temperature monitoring at Outfall 001; and
D. Add effluent limitations and monitoring requirements for temperature at Outfall 001.

This permit modification public notice only opens those modified permit conditions for public comments.

State Certification

This Notice also serves as Public Notice of the intent of the New Mexico Environment Department, Surface Water Quality Bureau to consider issuing Clean Water Act (CWA) Section 401 Certification. The purpose of such certification is to reasonably ensure that the permitted activities will be conducted in a manner that will comply with applicable New Mexico water quality standards, including the antidegradation policy, and the statewide water quality management plan. The NPDES permit will not be issued until the certification requirements of Section 401 have been met.

If you want to comment on State Certification submit written comments within the 30 day period to:

Bruce Yurdin
Manager, Point Source Regulation Section
Surface Water Quality Bureau
New Mexico Environment Department
P.O. Box 5469
1190 Saint Francis Drive
Santa Fe, NM 87502-5469
Phone (505) 827-2795
Fax (505) 827-0160
bruce.yurdin@state.nm.us