ESHID-600961

Los Alamos
NATIONAL LABORATORY
EST. 1943

OCT 21 '15 PM1:03

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Date: OCT 21 2015
Refer To: ADESH-15-143
LAUR: 15-27298
Locates Action No.: N/A

Isaac Chen
Permits and Technical Assistance Section (6WQ-PP)
Water Quality Protection Division
U.S. Environmental Protection Agency, Region 6
1445 Ross Avenue, Suite 1200
Dallas, Texas 75202-2733

Subject: NPDES Permit No. NM0030759 – Request for Permit Modification, Removal of Sites 03-045(b) and 03-045(c) (S-SMA-2)

Dear Mr. Chen:

The U.S. Department of Energy (DOE) and Los Alamos National Security, LLC (LANS) (the Permittees) are submitting the attached request for permit modification to Region 6 of the U.S. Environmental Protection Agency (EPA) to modify Appendixes A and B of National Pollutant Discharge Elimination System (NPDES) Permit No. NM0030759 (the Individual Permit or Permit) to remove Sites 03-045(b) and 03-045(c) in site monitoring area (SMA) S-SMA-2. Sites 03-045(b) and 03-045(c) are active outfalls that are permitted under the Los Alamos National Laboratory's (the Laboratory's) NPDES Permit No. NM0028355 for industrial and sanitary outfalls. These outfalls should not also be included in the Laboratory's Individual Permit for storm water discharges from solid waste management units and areas of concern because they are non–storm water discharges and, therefore, are not subject to coverage under an industrial storm water discharge permit.

This permit modification request seeks the following changes pursuant to Title 40 of the Code of Federal Regulations (CFR) §122.62 (a)(15) and Part III.A.5 of the Individual Permit:

Appendix A, p. 4: Delete Sites 03-045(b) and 03-045(c) from SMA S-SMA-2.

Appendix B, p. 4, Delete Sites 03-045(b) and 03-045(c) from S-SMA-2.

Sites 03-045(b) and 03-045(c) were incorrectly included in the permit application for the Individual Permit, and this request is submitted pursuant to 40 CFR §122.62(a)(15) to correct this error. Upon approval of this permit modification request, Sites 03-045(b) and 03-045(c) no longer will be regulated under the Individual Permit.

If you have any questions, please contact Terrill Lemke at (505) 665-2397 (tlemke@lanl.gov) or David Rhodes at (505) 665-5325 (david.rhodes@em.doe.gov).

Sincerely,

Alison M. Dorries, Division Leader
Environmental Protection Division
Los Alamos National Laboratory

Sincerely,

Douglas E. Hintze, Manager
Environmental Management
Los Alamos Field Office

AD/DH/BR/SV:sm

Attachment: NPDES Permit No. NM0030759, Request for Permit Modification, Deletion of Sites 03-045(b) and 03-045(c) Regulated within Site Monitoring Area S-SMA-2

Cy: (w/enc.)
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emla.docs@em.doe.gov, MS A316
Public Reading Room (EPRR)
ADESH Records

Cy: (Letter and CD and/or DVD)
Sarah Holcomb, NMED-SWQB
Tadz Kostrubala, ADEP ER Program
PRS Database

Cy: (w/o enc./date-stamped letter emailed)
Brent Larsen, EPA Region 6, Dallas, TX
Renea Ryland, EPA Region 6, Dallas, TX
John Kieling, NMED-HWB, Santa Fe, NM
James Hogan, NMED-SWQB, Santa Fe, NM
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Kimberly Davis Lebak, DOE-NA-LA
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Annette Russell, DOE-EM-LA
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David Rhodes, DOE-EM-LA
Steve Veenis, ADEP ER Program
Bruce Robinson, ADEP ER Program
Sam Loftin, ADESH-ENV-CP
Terrill Lemke, ADESH-ENV-CP
Mike Saladen, ADESH-ENV-CP
Alison Dorries, ADESH-ENV-DO
Michael Brandt, ADESH
Amy De Palma, PADOPS
Craig Leasure, PADOPS

NPDES PERMIT NO. NM0030759,
REQUEST FOR PERMIT MODIFICATION,
DELETION OF SITES 03-045(b) AND 03-045(c)
REGULATED WITHIN SITE MONITORING AREA S-SMA-2

1.0 INTRODUCTION

On February 13, 2009, Region 6 of the U.S. Environmental Protection Agency (EPA) issued Individual Industrial Storm Water National Pollutant Discharge Elimination System (NPDES) Permit No. NM0030759 (the Individual Permit or Permit) to the U.S. Department of Energy (DOE) and Los Alamos National Security, LLC (LANS) (collectively, the Permittees). The Individual Permit was subsequently modified on September 30, 2010, and became effective on November 1, 2010. The Individual Permit regulates storm water discharges associated with industrial activities from specified solid waste management units (SWMUs) and/or areas of concern (AOCs) (collectively, "Sites"). SWMUs and AOCs are Sites where releases may have occurred and may require corrective action under a facility's Resource Conservation and Recovery Act (RCRA) permit.

The Permittees request a modification to the Individual Permit, pursuant to 40 Code of Federal Regulations (CFR) §122.62 (a)(15) and Part III.A.5, to specifically approve the following changes:

- Appendix A, p. 4: Delete Sites 03-045(b) and 03-045(c) from site monitoring area (SMA) S-SMA-2.
- Appendix B, p. 4, Delete Sites 03-045(b) and 03-045(c) from S-SMA-2.

As discussed below, Sites 03-045(b) and 03-045(c) are outfalls included in Los Alamos National Laboratory's (LANL's or the Laboratory's) NPDES Permit No. NM0028355 for industrial and sanitary outfalls. These outfalls should not be included in the Laboratory's Individual Permit for storm water discharges from SWMUs and AOCs because they are non−storm water discharges and, therefore, are not subject to coverage under an industrial storm water discharge permit.

Upon approval of this Permit modification request, Sites 03-045(b) and 03-045(c) will no longer be regulated under the Individual Permit.

1.1 Site Descriptions

Site 03-045(b) [also known as SWMU 03-045(b)], which is subject to the requirements of the March 1, 2005, Compliance Order on Consent (Consent Order), is an active NPDES-permitted outfall (Outfall 001 in NPDES Permit No. NM0028355, Attachment 1 to this request) that receives treated sanitary effluent from the Technical Area 46 (TA-46) Sanitary Wastewater Systems Consolidation plant and the Sanitary Effluent Reclamation Facility as well as power plant wastewater. The NPDES permit number for the outfall was previously identified as EPA 01A001, but it is currently permitted as 001 on the 2015 NPDES authorization permit. The outfall is authorized to discharge power plant wastewater from cooling towers, boiler blowdown drains, demineralizer backwash, reverse osmosis reject water, floor and sink drains, and treated sanitary reuse. The outfall discharges onto sand and gravel southeast of building 03-22 into a small tributary of Sandia Canyon. The original Individual Permit Site narrative stated that Sites 03-012(b) and 03-045(b) are the same. However, the 1990 SWMU report (LANL 1990, 007511), which originally identified these Sites as SWMUs, describes SWMU 03-012(b) as former chilled water operational releases, including cooling-tower drift loss and cooling-water discharges to Sandia Canyon. SWMU 03-045(b) is described as the NPDES outfall for cooling towers 03-25 and 03-58. The

August 2013 supplemental investigation report for Upper Sandia Canyon Aggregate Area (LANL 2013, 249068), which was written in accordance with the Consent Order, also treats the SWMUs separately: SWMU 03-012(b) addresses potential soil contamination associated with operational releases from the TA-03 power-plant cooling towers, and SWMU 03-045(b) is the permitted outfall itself.

SWMU 03-045(c) is an active NPDES-permitted outfall (Outfall 03A027 in Permit No. NM0028355, Attachment 2 to this request), located approximately 55 ft east of SWMU 03-045(b). SWMU 03-045(c) previously received effluent from a cooling tower (structure 03-285) that served the generators powering a Laboratory computer system. Cooling tower 03-285 was constructed in 1968, and SWMU 03-045(c) may historically have received chromate-treated water. Cooling tower 03-285 was taken out of service several years ago and demolished in 2012, and SWMU 03-045(c) now receives blowdown from the cooling towers at the Strategic Computing Complex (building 03-2327), which became operational in 2002. Outfall 03A027 is permitted for the discharge of cooling tower blowdown water and other wastewater.

1.2 SMA Description

Under the Individual Permit, storm water monitoring for Sites 03-045(b) and 03-045(c), as well as Sites 03-012(b) and 03-056(c), is conducted at S-SMA-2. The SMA drainage area is approximately 50.8 acres of industrially developed areas of TA-03 (Figure 1). Most of the SMA drainage area is covered by structures and impervious surfaces (primarily asphalt paving and concrete). Runoff from this developed area flows east then north into Upper Sandia Canyon.

1.3 Description of Sandia Watershed

Sandia Canyon heads on the Pajarito Plateau in TA-03, has a maximum elevation of 7600 ft above sea level (asl), and extends 10.9 mi to the Rio Grande at an elevation of 5445 ft asl. The Sandia watershed has a drainage area of 5.5 mi^2, of which 45% is on Laboratory land, 39% is on Pueblo de San Ildefonso land, 15% is within Bandelier National Monument, and 1% is on private land.

2.0 SUMMARY OF THE PERMIT MODIFICATION REQUEST

EPA Region 6 may approve a permit modification to “correct technical mistakes, such as errors in calculation, or mistaken interpretations of law made in determining permit conditions” pursuant to 40 CFR §122.62 (a)(15). The Individual Permit application was submitted to EPA Region 6 on February 2, 2005, as required by the Federal Facility Compliance Agreement. The Individual Permit was issued in 2009 and modified in 2010. Sites 03-045(b) and 03-045(c) were included in the Individual Permit application because they had been identified as SWMUs and (1) were exposed to storm water (e.g., not capped or subsurface); (2) contained “significant industrial material” (e.g., not cleaned up or contamination was detected in place); and (3) potentially impacted surface water. As described below, inclusion of Sites 03-045(b) and 03-045(c) in the Individual Permit application was incorrect.

In general, active NPDES-permitted outfalls would not be identified as SWMUs subject to RCRA corrective action because industrial wastewater discharges that are point-source discharges subject to regulation under Section 402 of the Clean Water Act, as amended, are excluded from the statutory and regulatory definitions of “solid waste” [42 United States Code §6903(27), 40 CFR §261.4(a)(2)]. This exclusion is waived by the Permittees, however, *only* for the purposes of the Consent Order (Consent Order §III.A). Although considered to be SWMUs for the purposes of the Consent Order, Sites 03-045(b) and 03-045(c) should not have been included in the Individual Permit application because they are not SWMUs for the purposes of the Clean Water Act and are non−storm water discharges. Therefore, these

Sites are not subject to coverage under an industrial storm water discharge permit for SWMUs and AOCs. This permit modification seeks to correct this error by removing Sites 03-045(b) and 03-045(c) from the Individual Permit.

On April 30, 2013, the Permittees submitted a request for alternative compliance to EPA Region 6 for S-SMA-2 (LANL 2013, 241093). The request for alternative compliance was based on a determination by the Permittees that one Site within S-SMA-2, Site 03-056(c), could achieve completion of corrective action only through the alternative compliance process in Part I.E.3 of the Individual Permit. The request for alternative compliance indicated that the Permittees would submit a request to EPA to remove Sites 03-045(b) and 03-045(c) from the Individual Permit because they are active permitted NPDES outfalls. In response to public comments, the Permittees submitted a revised alternative compliance request to EPA on October 1, 2013 (LANL 2013, 250076). The revised submittal also included requests for alternative compliance for Sites 03-045(b) and 03-045(c). EPA responded to the alternative compliance requests on March 27, 2014 (EPA 2014, 524851). Although the revised alternative compliance request included Sites 03-045(b) and 03-045(c), EPA's response noted, "Non-storm water discharges at Sites 03-045(b) and 03-045(c) are not authorized under this permit, and the receiving stream of these discharges cannot be considered as a point source for the purposes of NPDES permit."

3.0 CONCLUSIONS

EPA Region 6 may approve a permit modification request to "correct technical mistakes, such as errors in calculation, or mistaken interpretations of law made in determining permit conditions." Sites 03-045(b) and 03-045(c) should not have been included in the Individual Permit application because they are non−storm water discharges permitted under the Laboratory's NPDES Permit No. 0028355 for industrial and sanitary outfalls. Although identified as SWMUs only for the purposes of the Consent Order, they do not constitute storm water discharges associated with industrial activities from SWMUs. Sites 03-045(b) and 03-045(c) should be deleted from the Individual Permit.

4.0 REFERENCES

The following list includes all documents cited in this report. Parenthetical information following each reference provides the author(s), publication date, and ER ID or ESH ID. This information is also included in text citations. ER IDs were assigned by the Environmental Programs Directorate's Records Processing Facility (IDs through 599999), and ESH IDs are assigned by the Environment, Safety, and Health Directorate (IDs 600000 and above). IDs are used to locate documents in the Laboratory's Electronic Document Management System and, where applicable, in the master reference set.

EPA (U.S. Environmental Protection Agency), March 27, 2014. "NPDES Permit No. NM0030759, Alternative Compliance for Sites S-SMA-2 and -0.25 and Site Monitoring Requirements for Site 72-001 (S-SMA-6)," U.S. Environmental Protection Agency letter to J. Mousseau (LANL) and P. Maggiore (DOE) from W. Honker (EPA Region 6), Dallas, Texas. (EPA 2014, 524851)

LANL (Los Alamos National Laboratory), November 1990. "Solid Waste Management Units Report," Vol. I of IV (TA-0 through TA-9), Los Alamos National Laboratory document LA-UR-90-3400, Los Alamos, New Mexico. (LANL 1990, 007511)

LANL (Los Alamos National Laboratory), April 2013. "Alternative Compliance Request for S-SMA-2," Los Alamos National Laboratory document LA-UR-13-22840, Los Alamos, New Mexico. (LANL 2013, 241093)

LANL (Los Alamos National Laboratory), August 2013. “Supplemental Investigation Report for Upper Sandia Canyon Aggregate Area,” Los Alamos National Laboratory document LA-UR-13-26024, Los Alamos, New Mexico. (LANL 2013, 249068)

LANL (Los Alamos National Laboratory), September 2013. “Los Alamos National Laboratory's Response to Written Public Comments Submitted Regarding Request for Alternative Compliance for S-SMA-2 and S-SMA-0.25,” Los Alamos National Laboratory document LA-UR-13-27231, Los Alamos, New Mexico. (LANL 2013, 250076)

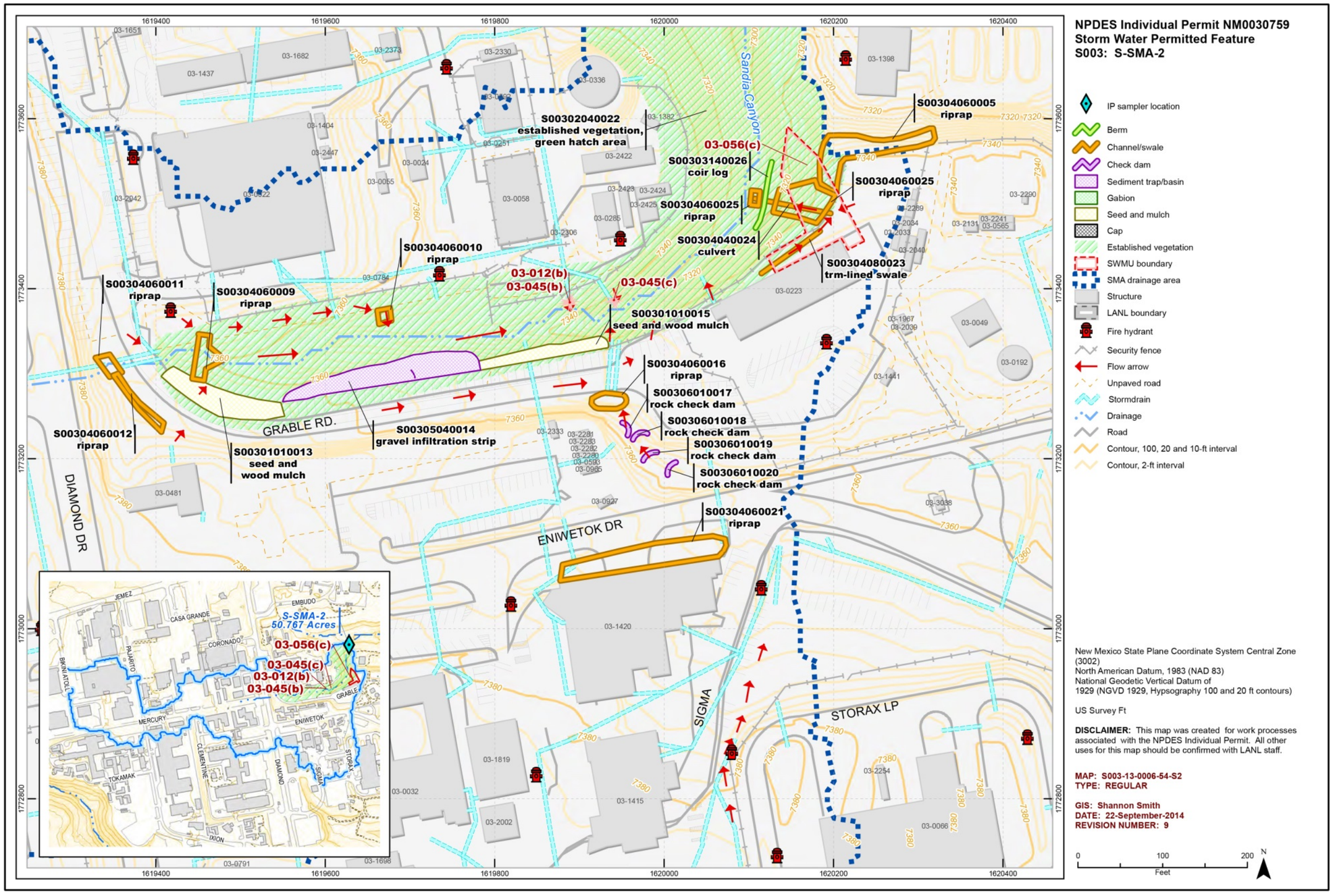

Figure 1 Location of S-SMA-2

Attachment 1

Excerpt from NPDES Permit No. NM0028355
with Conditions for Outfall 001 [Site 03-045(b)]

MODIFICATION Effective May 1, 2015

MINOR CORRECTION Outfall 001 4-9-15

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)	24°C (*4)	24°C	***	***	1/Week	Grab
6T3 Temperature (°C)	20°C (*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

MODIFICATION Effective May 1, 2015

MINOR CORRECTION Outfall 001 4-9-15

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 for temperature end when 6T3 Temperature limitation becomes 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. Daily maximum temperature shall be determined by 6T3 temperature record when 6T3 temperature becomes in effect.

*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).

MODIFICATION Effective 5-1-15

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)	24°C	24°C	***	***	1/Week	Grab
6T3 Temperature (°C)	(*5)	24°C (*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 for temperature end when 6T3 Temperature limitation becomes 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. Daily maximum temperature shall be determined by 6T3 temperature record.

*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).

Attachment 2

Excerpt from NPDES Permit No. NM0028355
with Conditions for Outfall 03A027 [Site 03-045(c)]

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.