



Environmental Protection & Compliance Division

Los Alamos National Laboratory P.O. Box 1663, M969 Los Alamos, NM 87545 National Nuclear Security Administration Los Alamos Field Office 3747 West Jemez Road, A316 Los Alamos, NM 87544 505-665-7314/Fax 505-667-5948

> Symbol: EPC-DO: 23-275 LA-UR: 23-29559 Locates Action No.: N/A Date: SEP 2 0 2023

Mr. Shea Schleman Compliance Reporting Manager New Mexico Environment Department, Air Quality Bureau 525 Camino de los Marquez, Suite 1 Santa Fe, NM 87505-1816

Subject: Semi-Annual Emissions Report for Los Alamos National Laboratory, AI No. 856, Title V Operating Permit P100-R2M4 for January 1 – June 30, 2023

Dear Mr. Schleman:

Enclosed is Los Alamos National Laboratory's (LANL) Semi-Annual Emissions Report for the first half of 2023 for Operating Permit P100-R2M4, effective July 18, 2019. This Semi-Annual Emissions Report covers the January 1 – June 30, 2023, reporting period.

This submission is required by permit condition A109.B. of the Title V Operating Permit P100-R2M4, and is submitted within 90 days following June 30, 2023, the end of the six-month reporting period. The Semi-Annual Emissions report includes actual emissions from permitted sources included in LANL's Operating Permit. In this report, the actual emissions are listed along with the emission limits for ease in comparing and verifying compliance. No annual emission limits were exceeded during this reporting period.

If you have any questions or comments regarding this submittal or would like to discuss the submittal in greater detail, please contact Robert Gallegos at (505) 901-3824 or Marjorie Stockton at (505) 695-4508.



Shea Schleman, NMED EPC-DO: 23-275

Sincerely,

KATHERINE HIGGINS (Affiliate) 2023.09.01 15:17:53 -06'00'

Katherine Higgins Division Leader (Acting) Environmental Protection and Compliance Triad National Security, LLC Los Alamos National Laboratory Sincerely,

Theodore A. Wyka Digitally signed by Theodore A. Wyka Date: 2023.09,20 16:39:09 -06'00'

Theodore A. Wyka Manager, Los Alamos Field Office National Nuclear Security Administration U.S. Department of Energy Los Alamos Field Office

Attachment(s): Attachment 1 Semi-Annual Emissions Report for Los Alamos National Laboratory, AI No. 856, Title V Operating Permit P100-R2M4 for January 1 – June 30, 2023

Copy: Theodore A. Wyka, NA-LA, theodore.wyka@nnsa.doe.gov Karen E. Armijo, NA-LA, karen.armijo@nnsa.doe.gov Robert A. Gallegos, NA-LA, robert.gallegos@nnsa.doe.gov Silas DeRoma, NA-LA, silas.deroma@nnsa.doe.gov Stephen Jochem, NA-LA, stephen.jochem@nnsa.doe.gov Michael Mikolanis, EM-LA, michael.mikolanis@em.doe.gov Hai Shen, EM-LA, hai.shen@em.doe.gov S. Elizabeth Gilbertson, EM-LA, sarah.gilbertson@em.doe.gov John H. Evans, EM-LA, john.h.evans@em.doe.gov Kelly J. Beierschmitt, Triad, DDOPS, beierschmitt@lanl.gov James P. Johnson, Triad, DDOPS, jpj@lanl.gov Steven A. Coleman, Triad, ALDESHQ, scoleman@lanl.gov Jennifer E. Payne, Triad, ALDESHQ, jpayne@lanl.gov Jeannette T. Hyatt, Triad, EWP, jhyatt@lanl.gov Katherine Higgins, Triad, EPC-DO, kwurden@lanl.gov Steven L. Story, Triad, EPC-CP, story@lanl.gov Marjorie B. Stockton, Triad, EPC-CP, mstockton@lanl.gov Walter W. Whetham, Triad, EPC-CP, walt@lanl.gov Maxine M. McReynolds, Triad, GC-ESH, mcreynolds@lanl.gov Christopher C. Stoneback, Triad, GC-ESH, stoneback@lanl.gov Taylor A. Valdez, Triad, PCIP-DO, tvaldez@lanl.gov William Alexander, N3B, william.alexander@em-la.doe.gov Robert Edwards III, N3B, robert.edwards@em-la.doe.gov Dana Lindsay, N3B, dana.lindsay@em-la-doe.gov Erik Loechell, N3B, erik.loechell@em-la.doe.gov Christian Maupin, N3B, christian.maupin@em-la.doe.gov Bradley Smith, N3B, bradley.smith@em-la.doe.gov Jeffrey Stevens, N3B, jeffrey.stevens@em-la.doe.gov

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Shea Schleman, NMED EPC-DO: 23-275

Triad, EPC-CP Title V Permit File Triad, EPC-CP Title V Emissions Report File Triad, EPC-CP Correspondence File lasomailbox@nnsa.doe.gov aldeshqcorrespondence@lanl.gov epccorrespondence@lanl.gov eshq-dcrm@lanl.gov interface@lanl.gov





New Mexico Environment Department Air Quality Bureau Compliance and Enforcement Section 525 Camino de los Marquez, Suite 1 Santa Fe, NM 87505 Phone (505) 476-4300



Version 07.20.18

TEMPO

REPORTING SUBMITTAL FORM

NMED USE ONLY
Staff
Admin

PLEASE NOTE: ® - Indicates required field

NMED USE ONLY

SECI	SECTION I - GENERAL COMPANY AND FACILITY INFORMATION									
A. ® Company Name:				D. ® Facility Name:						
	Department of Energy, National Nuclear Security Administration			í	Los Alamos National Laboratory					
	B.1 ® Company Address: 3747 West Jemez Road					E.1 ® Facility Address: P.O. Box 1663				
						MS J978				
B.2 ® City: B.3 ® State: B.4 ® Zip: Los Alamos NM 8 7 5 4 4			E.2 ® City: Los Alamos			E.3 ® State: NM	E.4 ® Zip: 87545			
C.1 ® Company Environmental Contact: C.2 ® Title:				F.1 @ Facili	F.1 ® Facility Contact: F.2 ® Title:					
Robert A. Gallegos				Marjorie B. S	Stockton		Meteorology Leader	& Air Quality Team		
C.3 ® P (505) 90	hone Number:)1-3824		C.4 ® Fax N	lumber:		F.3 ® Phone (505) 695-45	Externation and a contract		F.4 ® Fax N	lumber:
C.5 ® E	Email Address:					F.5 ® Emai		-		
	allegos@nnsa.do	-				mstockton@			_	
	onsible Official: (Title ore A, Wyka	V only):	H. Title: Manager			I. Phone Nu (505) 667-5			J. Fax Num NA	iber:
	Number:		rmit Number	MT	itle V Permit Is		N. NSR Permit Num	bor		R Permit Issue Date:
856		P100-R2M4			18, 2019	aue Dale.	2195	G GI.	Various	
	orting Period:	-			1					
From:	January 1, 2023		June 30, 202			4 1 0 1			1	
Do NOT submit NSPS OOOO or OOOOa well completion or flowback notifications to the Air Quality Bureau. See https://www.env.nm.gov/air-quality/notices-and- lags-for-compliance-and-enforcement/ for explanation.										
	ON II – TYPE			ck one t	hat applie	(20				
	Title V Annual C		Permit Condi		Descriptio			-		
A. 🗌	Certificat	omphance								
в. 🗌	Title V Semi- Monitoring	Annual	Permit Condition(s): Descriptio		on;					
c . 🗌	C. NSPS Requirement (40CFR60)			Section(s):		Description:				
D. D. (40CFR63)			Section(s):		Description:					
E. 2 NMAC Requirement Regulation: 5 (20.2.xx) or NESHAP Requirement (40CFR61)		Section(s):		Description:	Description:					
	Permit or Notic	a filetant	Permit No.🛛: o	r NOI No.	Condition	(s):	Description:			
F. 🛛	(NOI) Requir		P100R2M4		A109 B		Title V Semi-Annu	al Emi	ssions Repor	rt 1/1/2023 - 6/30/2023
	Denview		NOV No. 🗌: or	SFO No.	Section(s)	:	Description:			
G. 🗌	Requiremen Enforcement		or CD No. 🗌: d	or Other 🗌:						

SECTION III - CERTIFICATION							
After reasonable inquiry,	odore A. Wyka me of Certifier)	_ certify that the information in this submittal is true, accurate and complete.					
Signature of Certifier:	Theodore A. Wyka	Digitally signed by Theodore A. Wyka Date: 2023.09.20 16 38 32 -06'00'	® Title: Manager	® Date	® Responsible Official for Title V? X Yes No		

Title V Report Certification Form

I. Report Type				- 410		
Annual Compliance Certification						
🗌 Semi-Annual Monitoring Report						
Other Specify: Semi-Annual Emissions R	eport					
II. Identifying Information						
Facility Name: Los Alamos National Laborate	ory					
Facility Address: P.O. Box 1663, MS J978		State: NM		Zip	Zip: 87545	
Responsible Official (RO): Theodore A. Wyka	1	Phone: (505) 667-510		05	Fax: NA	
RO Title: Manager	RO e-mail: th	eodore.wyka@nnsa.doe.gov				
Permit No.: P100-R2M4		Date Pern	nit Issued:	7/18	/2019	
Report Due Date (as required by the permit): 9/28/2023 Permit AI number: 856						
Time period covered by this Report:From: 1/1/2023To: 6/30/2023				3		
III. Certification of Truth, Accuracy, and Completeness						

I am the Responsible Official indicated above. I, (<u>Theodore A. Wyka</u>) certify that I meet the requirements of 20.2.70.7.AE NMAC. I certify that, based on information and belief formed after reasonable inquiry, the statements and information contained in the attached Title V report are true, accurate, and complete.

Theodore A. Wyka Digitally signed by Theodore A. Wyka Date: 2023.09.20 16:37:46 -06'00'

Date: _____.

Signature_

ATTACHMENT 1

Semi-Annual Emissions Report for Los Alamos National Laboratory, Al No. 856, Title V Operating Permit P100-R2M4 for January 1 – June 30, 2023

EPC-DO: 23-275

LA-UR: 23-29559

SEP 2 0 2023

Semi-Annual Emissions Report for Los Alamos National Laboratory AI 856, Title V Operating Permit P100-R2M4 January 1, 2023 - June 30, 2023

Emission Reporting Requirements

A109 Facility: Reporting Schedules

- A. A Semi-Annual Report of monitoring activities is due within 45 days following the end of every 6-month reporting period. The six month reporting periods start on January 1st and July 1st of each year.
- B. A Semi-Annual Report of actual emissions from all permitted sources unless otherwise specified in this permit is due within 90 days following the end of every 6-month reporting period as defined at Condition A109.A. Emission estimates of criteria pollutants NOx, CO, SO2, VOC, TSP, PM10, and PM2.5 shall not include fugitive emissions. Emission estimates of HAPs shall include fugitive emissions. Emission estimates shall not include Insignificant or Trivial Activities, except that facility-wide emissions from all natural gas combustion sources and the Soil Vapor Extraction equipment at Material Disposal Area L shall be estimated. The reports shall include a comparison of actual emissions that occurred during the reporting period with the facility-wide allowable emission limits at Table 106.B.

A600 Asphalt Production							
A602 Emission Limits - Asphalt Production							
Unit No.	Nox tpy	SO2 tpy	PM tpy	CO tpy	VOC tpy		
TA-60-BDM	50.0	50.0	50.0	30.0	50.0		
Ponorting Poquiromont							

Reporting Requirement

X

A607 F The permittee shall submit reports described in Section A109 and in accordance with B110.

A109 B A Semi-Annual Report of actual emissions from all permitted sources unless otherwise specified in this permit is due within 90 days following the end of every 6-month reporting period as defined at Condition A109.A. Emission estimates of criteria pollutants NOx, CO, SO2, VOC, TSP, PM10, and PM2.5 shall not include fugitive emissions. Emission estimates of HAPs shall include fugitive emissions. Emission estimates shall not include Insignificant or Trivial Activities, except that facility-wide emissions from all natural gas combustion sources and the Soil Vapor Extraction equipment at Material Disposal Area L shall be estimated. The reports shall include a comparison of actual emissions that occurred during the reporting period with the facility-wide allowable emission limits at Table 106.B.

Has this reporting requirement been met during this reporting period with a separate reporting submittal? Answer Yes or No below.

|--|

Tracking Number:

No Provide comments and identify any supporting documentation as an attachment.

Comments:				
Asphalt Plant TA-60-BDM	January - June Emissions (tons)	July - December Emissions (tons)	Annual Emissions (tons)	Permit Limits (Condition A602 A) (tons per year)
NOx	0.003			50.0
SO ₂	0.001			50.0
PM	0.008			50.0
СО	0.876			30.0
VOC	0.007			50.0
HAPs	0.001			No Source Permit Limit

A700 Beryllium Activities

A702 Emission Limits - Beryllium Activities

Source	Beryllium Particulate Matter	Aluminum Particulate Matter
Sigma Facility	10 gm/24 hr	N/A
TA-3-66	č	
Beryllium Technology		
Facility	3.5 gm/yr	N/A
TA-3-141		
Target Fabrication		
Facility	0.36 gm/yr	N/A
TA-35-213		
Plutonium Facility		
TA-55-PF-4	2.99 gm/yr	2.99 gm/yr
Machining Operation		
Plutonium Facility		
TA-55-PF-4	$8.73 X 10^{-04} \text{ gm/yr}$	8.73X10 ⁻⁰⁴ gm/yr
Foundry Operation		

Reporting Requirement

A707 D The permittee shall submit reports described in Section A109 and in accordance with B110.

A109 B A Semi-Annual Report of actual emissions from all permitted sources unless otherwise specified in this permit is due within 90 days following the end of every 6-month reporting period as defined at Condition A109.A. Emission estimates of criteria pollutants NOx, CO, SO2, VOC, TSP, PM10, and PM2.5 shall not include fugitive emissions. Emission estimates of HAPs shall include fugitive emissions. Emission estimates shall not include Insignificant or Trivial Activities, except that facility-wide emissions from all natural gas combustion sources and the Soil Vapor Extraction equipment at Material Disposal Area L shall be estimated. The reports shall include a comparison of actual emissions that occurred during the reporting period with the facility-wide allowable emission limits at Table 106.B.

Has this reporting requirement been met during this reporting period with a separate reporting submittal? Answer Yes or No below.

	Yes	Date report submitted:	Tracking Number:
x	No Prov	vide comments and identify any supporting doc	umentation as an attachment.
	echnology Facilit	1 · · · · ·	ed the following quarterly beryllium emissions reports for the 22023-02) and second quarter report, August 2, 2023 (000856-

A700 Beryllium Activities - continued Comments:						
Source	Pollutant	January - June Emissions	July - December Emissions	Annual Emissions	Permit Limits (Condition A702 A)	
Sigma Facility TA-3-66 ⁽¹⁾	Beryllium (grams)	0			10 gm/24 hr	
Beryllium Technology Facility TA-3-141 ⁽²⁾	Beryllium (grams)	0.0179			3.5 gm/yr	
Target Fabrication Facility TA-35-213 ⁽³⁾	Beryllium (grams)	< 0.00944			0.36 gm/yr	
Plutonium Facility TA-55-PF4	Beryllium (grams)	< 1.495			2.99 gm/yr	
Machining Operation ⁽⁴⁾	Aluminum (grams)	< 1.495			2.99 gm/yr	
Plutonium Facility TA-55-PF4	Beryllium (grams)	0			8.73 x 10 ⁻⁴ gm/yr	
Foundry Operation ⁽⁵⁾	Aluminum (grams)	0			8.73 x 10 ⁻⁴ gm/yr	
Beryllium Total ⁽⁵⁾ (t		< 1.68E-06				
Aluminum Total (to		< 1.65E-06			have the same for a the	

Notes: (1) Emissions from the Sigma Facility are from electroplating, chemical milling, and metallographic operations. (2) Emission values shown for the Beryllium Technology Facility are from actual stack emission measurements which are submitted to NMED quarterly. (3) Emissions for the Target Fabrication Facility are from initial compliance testing of that source and calculated based on a conservative assumption of 8 hour work days. Log books were checked to verify that work days were much less than 8 hours. (4) Emissions for the Plutonium Facility are calculated based on permitted throughputs. Log books were checked to verify that throughputs were much less than permitted values. (5) The Plutonium Facility foundry operations did not operate during the first 6 months of 2023.

A800 External Combustion

A802 Emission Limits - External Combustion

Unit No.	NOx tpy	CO tpy	VOC tpy	SO ₂ tpy	TSP tpy	PM ₁₀ tpy
All Boilers	80.0	80.0	50.0	50.0	50.0	50.0
Unit No.	NOx tpy	CO tpy	SO ₂ tpy	TSP tpy	PM ₁₀ tpy	PM _{2.5} tpy
RLUOB-BHW-1 (gas)	2.9	4.8	0.3	0.4	0.4	0.4
RLUOB-BHW-2 (gas)	2.9	4.8	0.3	0.4	0.4	0.4
RLUOB-BHW-3 (gas)	2.9	4.8	0.3	0.4	0.4	0.4
RLUOB-BHW-4 (gas)	2.9	4.8	0.3	0.4	0.4	0.4
RLUOB Boilers (oil)	2.9	0.9	10.4	0.5	0.3	0.3
RLUOB Boilers Total	14.5	20.1	11.6	2.1	1.9	1.9

Reporting Requirement

Yes

No

A807 B The permittee shall submit reports described in Section A109 and in accordance with B110.

A109 B A Semi-Annual Report of actual emissions from all permitted sources unless otherwise specified in this permit is due within 90 days following the end of every 6-month reporting period as defined at Condition A109.A. Emission estimates of criteria pollutants NOx, CO, SO2, VOC, TSP, PM10, and PM2.5 shall not include fugitive emissions. Emission estimates of HAPs shall include fugitive emissions. Emission estimates shall not include Insignificant or Trivial Activities, except that facility-wide emissions from all natural gas combustion sources and the Soil Vapor Extraction equipment at Material Disposal Area L shall be estimated. The reports shall include a comparison of actual emissions that occurred during the reporting period with the facility-wide allowable emission limits at Table 106.B.

Has this reporting requirement been met during this reporting period with a separate reporting submittal? Answer Yes or No below.

Provide comments and identify any supporting documentation as an attachment.

Date report submitted:

Tracking Number:

X

Comments: January - June July - December Annual **Permit Limits Boilers Emissions Emissions Emissions** (Condition A802 A) (tons) (tons) (tons) (tons per year) NOx 80 10.36 SO₂ 0.06 50 TSP 0.81 50 **PM-10** 0.81 50 со 8.74 80 VOCs 0.61 50 HAPs 0.20 No Source Limit

Note: The emissions shown in this table includes all exempt, non-exempt, metered, and non-metered boilers at LANL except for the TA-3-22 Power Plant boilers. The Power Plant boilers can be found under Section A1300 of this report.

Continued on the next page

A800 External Combustion - continued

RLUOB-BHW-1 (Gas)	January - June Emissions (tons)	July - December Emissions (tons)	Annual Emissions (tons)	Permit Limits (Condition A802 B) (tons per year)
NOx	0.0087			2.9
SO ₂	0.0002			0.3
TSP	0.0014			0.4
PM-10	0.0014			0.4
PM-2.5	0.0014			0.4
СО	0.0111			4.8
VOCs	0.0075			No Source Limit
HAPs	5.48E-04			No Source Limit

RLUOB-BHW-2 (Gas)	January - June Emissions (tons)	July - December Emissions (tons)	Annual Emissions (tons)	Permit Limits (Condition A802 B) (tons per year)
NOx	0.0087			2.9
SO ₂	0.0002			0.3
TSP	0.0014			0.4
PM-10	0.0014			0.4
PM-2.5	0.0014			0.4
СО	0.0111			4.8
VOCs	0.0075			No Source Limit
HAPs	5.48E-04			No Source Limit

RLUOB-BHW-3 (Gas)	January - June Emissions (tons)	July - December Emissions (tons)	Annual Emissions (tons)	Permit Limits (Condition A802 B) (tons per year)
NOx	0.0087			2.9
SO ₂	0.0002			0.3
TSP	0.0014			0.4
PM-10	0.0014			0.4
PM-2.5	0.0014			0.4
СО	0.0111			4.8
VOCs	0.0075			No Source Limit
HAPs	5.48E-04			No Source Limit

RLUOB-BHW-4 (Gas)	January - June Emissions (tons)	July - December Emissions (tons)	Annual Emissions (tons)	Permit Limits (Condition A802 B) (tons per year)
NOx	0			2.9
SO ₂	0			0.3
TSP	0			0.4
PM-10	0			0.4
PM-2.5	0			0.4
CO	0			4.8
VOCs	0			No Source Limit
HAPs	0			No Source Limit

Note: The RLUOB-BHW-4 boiler has not been installed.

Continued on the next page.

A800 External Combustion - continued

RLUOB Boilers Totals (Oil)	January - June Emissions (tons)	July - December Emissions (tons)	Annual Emissions (tons)	Permit Limits (Condition A802 B) (tons per year)
NOx	0			2.9
SO ₂	0			10.4
TSP	0			0.5
PM-10	0			0.3
PM-2.5	0			0.3
СО	0			0.9
VOCs	0			No Source Limit
HAPs	0			No Source Limit

Note: The RLUOB boilers did not operate on fuel oil during the first 6 months of 2023.

RLUOB Boilers Totals (Gas and Oil)	January - June Emissions (tons)	July - December Emissions (tons)	Annual Emissions (tons)	Permit Limits (Condition A802 B) (tons per year)
NOx	0.026			14.5
SO ₂	0.001			11.6
TSP	0.004			2.1
PM-10	0.004			1.9
PM-2.5	0.004			1.9
CO	0.033			20.1
VOCs	0.022			No Source Limit
HAPs	1.64E-03			No Source Limit

A900 Chemical Usage

A902 Emission Limits - Chemical Usage

			VOC/HAPs tpy		-
LANL-FW-CHEM			3.75 '		_
CMRR-CHEM 1 The VOC emissions from	this source category are	included in the facility-wid	3.75 ⁺ le allowable emissions limit	established in Table	
106.B: 200 tpy VOC, 8.0 VOC shall be included in		and 24.0 tpy of combined t	otal HAPs. Any VHAPs tha	t are also defined as a	
Reporting Requirement					
A907 A The permittee shall s reports shall include	•	ed in Section A109 ar quantity greater than 0		3110. With respect	to individual HAPs,
pollutants NOx, CO, shall include fugitive emissions from all n estimated. The repor	nd of every 6-month r SO2, VOC, TSP, PM e emissions. Emission atural gas combustion	reporting period as def A10, and PM2.5 shall a estimates shall not in a sources and the Soil aparison of actual emis	ources unless otherwise fined at Condition A109 not include fugitive em clude Insignificant or T Vapor Extraction equip ssions that occurred dur	9.A. Emission estim issions. Emission es rivial Activities, ex- ment at Material Di	ates of criteria stimates of HAPs cept that facility-wid sposal Area L shall
	. 1	ng period with a separ	ate reporting submittal	? Answer Yes or No	below.
as this reporting requirement been m	et during this reportin				
as this reporting requirement been m				Tracking Number:	
Yes	Date report submit	tted:		Tracking Number:	
Yes X No Provide com	Date report submit	tted:	nentation as an attach		
Yes X No Provide com	Date report submit	tted:	nentation as an attach	nment.	
Yes X No Provide com	Date report submit	tted:			Permit Limits
Yes Yes No Provide com omments: Chemical Usage	Date report submit	tted: iny supporting docur January - June Emissions	nentation as an attach July - December Emissions	nment. Annual Emissions	Permit Limits (Condition A902 E
Yes X No omments: Chemical Usage LANL-FW-CHEM	Date report submit	tted: Iny supporting docur January - June Emissions (tons)	nentation as an attach July - December Emissions	nment. Annual Emissions	Permit Limits (Condition A902 E Source limits refe
Yes X No Provide com Comments: Chemical Usage LANL-FW-CHEM VOCs	Date report submit	tted: January - June Emissions (tons) 6.13	nentation as an attach July - December Emissions	nment. Annual Emissions	Permit Limits (Condition A902 E
Yes X No Omments: Chemical Usage LANL-FW-CHEM VOCs HAPs Individual HAPs greater than 0.5 tons	Date report submit	tted: January - June Emissions (tons) 6.13 1.58	nentation as an attach July - December Emissions	nment. Annual Emissions	Permit Limits (Condition A902 E Source limits refe to facility-wide
Yes X No Omments: Chemical Usage LANL-FW-CHEM VOCs HAPs Individual HAPs greater than 0.5 tons	Date report submit	tted: January - June Emissions (tons) 6.13 1.58	nentation as an attach July - December Emissions	nment. Annual Emissions	Permit Limits (Condition A902 E Source limits refe to facility-wide
Yes X No Omments: Chemical Usage LANL-FW-CHEM VOCs HAPs Individual HAPs greater than 0.5 tons	Date report submit	tted: January - June Emissions (tons) 6.13 1.58	nentation as an attach July - December Emissions	nment. Annual Emissions	Permit Limits (Condition A902 E Source limits refe to facility-wide limits.
Yes X No Provide comments Omments: Chemical Usage LANL-FW-CHEM VOCs HAPs Individual HAPs greater than 0.5 tons Output of the second output of the	Date report submit	tted: January - June Emissions (tons) 6.13 1.58 0 onths of 2023.	July - December Emissions (tons)	Annual Emissions (tons) Annual Emissions	Permit Limits (Condition A902 E Source limits refe to facility-wide limits.
X No Provide com Comments: Chemical Usage Chemical Usage LANL-FW-CHEM VOCs HAPs Individual HAPs greater than 0.5 tons Iote: No individual HAP exceeded 0.5 to Chemical Usage Chemical Usage Chemical Usage Chemical Usage Chemical Usage Chemical Usage Chemical Usage Chemical Usage CMRR-CHEM	Date report submit	tted: January - June Emissions (tons) 6.13 1.58 Donths of 2023. January - June Emissions (tons)	July - December Emissions (tons)	Annual Emissions (tons) Annual Emissions	Permit Limits (Condition A902 E Source limits refe to facility-wide limits.

A1000 Degreasers

A1002 Emission Limits - Degreasers

			VOC/HAPs tpy		
A-55-DG-1			¹		
	from this source category are a 8.0 tpy per individual HAP, a d in the VOC total.				
Reporting Requirement					
A1007 A The permittee sha	ll submit reports describ	ed in Section A109 and	l in accordance with	n B110.	
A109 B A Semi-Annual R	eport of actual emissions	s from all permitted so	urces unless otherwi	ise specified in this peri	mit is due within 90
days following th	e end of every 6-month r	eporting period as defi	ned at Condition Al	09.A. Emission estima	tes of criteria
•	CO, SO2, VOC, TSP, PM tive emissions. Emission		0		
•	l natural gas combustion		•		• •
estimated. The rep	ports shall include a com	parison of actual emiss		-	-
wide allowable er	nission limits at Table 10)6.B.			
as this reporting requirement been	n met during this reportir	ng period with a separa	te reporting submitt	al? Answer Yes or No	below.
Yes	Date report submit				
		ted:		Tracking Number:	
_			entation as an atta	-	
_	omments and identify a		entation as an atta	-	
X No Provide co Comments:	omments and identify a		entation as an atta Annual	-	
X No Provide co	omments and identify a January - June Emissions	ny supporting docum July - December Emissions	Annual Emissions	Permit Limits (Condition A1002 A)	
X No Provide co Comments: Degreaser	omments and identify a January - June	ny supporting docum July - December	Annual	echment. Permit Limits	
X No Provide co Comments: Degreaser	omments and identify a January - June Emissions	ny supporting docum July - December Emissions	Annual Emissions	Permit Limits (Condition A1002 A)	
x No Provide co Comments: Degreaser TA-55-DG-1 VOCs	January - June Emissions (tons) 0.025	ny supporting docum July - December Emissions	Annual Emissions	Permit Limits (Condition A1002 A) (tons per year) Source limits refer to facility-wide	
X No Provide co Comments: Degreaser TA-55-DG-1	January - June Emissions (tons)	ny supporting docum July - December Emissions	Annual Emissions	Permit Limits (Condition A1002 A) (tons per year) Source limits refer	
x No Provide co Comments: Degreaser TA-55-DG-1 VOCs	January - June Emissions (tons) 0.025	ny supporting docum July - December Emissions	Annual Emissions	Permit Limits (Condition A1002 A) (tons per year) Source limits refer to facility-wide	
x No Provide co Comments: Degreaser TA-55-DG-1 VOCs	January - June Emissions (tons) 0.025	ny supporting docum July - December Emissions	Annual Emissions	Permit Limits (Condition A1002 A) (tons per year) Source limits refer to facility-wide	
x No Provide co Comments: Degreaser TA-55-DG-1 VOCs	January - June Emissions (tons) 0.025	ny supporting docum July - December Emissions	Annual Emissions	Permit Limits (Condition A1002 A) (tons per year) Source limits refer to facility-wide	

nit No.	NOx tpy	CO tpy	VOC tpy	SO ₂ tpy	TSP tpy	PM ₁₀ tpy
A-33-G-1P	18.1	15.2	0.3	2.5	0.6	0.6
A-33-G-2	0.21	0.1	1			
A-33-G-3	0.21	0.1	1			
A-33-G-3 A-33-G-4	2.33	1.4	0.2	0.16		
	1 The VOC emissions	from this source category are i AP, and 24.0 tpy of combined t	included in the facility-wid		t established in condition 10	06.B: 200 tpy VOC,
A1107	accordance with S	all comply with all applic Section B110. Report of actual emissions				
	days following th pollutants NOx, C shall include fugi emissions from al estimated. The rep	e end of every 6-month r CO, SO2, VOC, TSP, PM tive emissions. Emission Il natural gas combustion ports shall include a com- nission limits at Table 10	eporting period as def 110, and PM2.5 shall estimates shall not in sources and the Soil parison of actual emis 06.B.	fined at Condition A10 not include fugitive en clude Insignificant or 7 Vapor Extraction equij ssions that occurred du	9.A. Emission estimate hissions. Emission estin Trivial Activities, excep pment at Material Disp ring the reporting perio	es of criteria mates of HAPs pt that facility-w osal Area L shall od with the facili
as this reporti	ng requirement been	n met during this reportir	ng period with a separ	ate reporting submittal	I? Answer Yes or No be	elow.
as this reporti	ng requirement beer	n met during this reportir Date report submit		ate reporting submitta	Tracking Number:	elow.
as this reporti	Yes		ted:		Tracking Number:	elow.
	Yes	Date report submit	ted:		Tracking Number:	elow.
 x omments: G	Yes	Date report submit	ted:		Tracking Number:	elow.
x omments:	Yes No Provide co enerator A-33-G-1P	Date report submit	ted: ny supporting docur July - December Emissions	mentation as an attac Annual Emissions	Tracking Number: hment. Permit Limits (Condition A1102 A) (tons per year)	elow.
x omments:	Yes No Provide co enerator A-33-G-1P NOx	Date report submit	ted: ny supporting docur July - December Emissions	mentation as an attac Annual Emissions	Tracking Number: hment. Permit Limits (Condition A1102 A)	elow.
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x omments:	Yes No Provide co enerator A-33-G-1P NOx SO ₂ TSP	Date report submit	ted: ny supporting docur July - December Emissions	mentation as an attac Annual Emissions	Tracking Number: hment. Permit Limits (Condition A1102 A) (tons per year) 18.1 2.5 0.6	elow.
x omments:	Yes No Provide co enerator A-33-G-1P NOx SO ₂ TSP PM ₁₀	Date report submitted Date report submitted	ted: ny supporting docur July - December Emissions	mentation as an attac Annual Emissions	Tracking Number: hment. Permit Limits (Condition A1102 A) (tons per year) 18.1 2.5 0.6 0.6 0.6 0.6 15.2 0.3	elow.
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x omments: G T/	Yes No Provide co enerator A-33-G-1P NOx SO ₂ TSP PM ₁₀ CO VOC	Date report submit Date report submit Date report submit January - June Emissions (tons) 0.325 0.009 0.010 0.010 0.033 0.024	ted: ny supporting docur July - December Emissions	mentation as an attac Annual Emissions	Tracking Number: hment. Permit Limits (Condition A1102 A) (tons per year) 18.1 2.5 0.6 0.6 0.6 0.6 15.2 0.3	
x omments: G T/	Yes No Provide co enerator A-33-G-1P NOx SO ₂ TSP PM ₁₀ CO VOC HAPs enerator	Date report submitt Date report submitt Date report submitt January - June Emissions (tons) 0.325 0.009 0.010 0.010 0.010 0.033 0.024 8.69E-05 January - June Emissions January - June Emissions	ted: July - December Emissions (tons) July - December	Annual Mentation as an attace Annual Emissions (tons) Annual Emissions	Tracking Number: hment. Permit Limits (Condition A1102 A) (tons per year) (tons per year) 18.1 2.5 0.6 0.6 15.2 0.6 15.2 0.3 No Source Limits (Condition A1102 A)	
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x omments: G T/	Yes No Provide co enerator A-33-G-1P NOx SO ₂ TSP PM ₁₀ CO VOC HAPs enerator A-33-G-2 NOx	Date report submitt Date report submitt Date report submitt Date report submitt January - June Emissions (tons) 0.325 0.009 0.010 0.010 0.010 0.010 0.024 8.69E-05 January - June Emissions (tons) January - June Emissions (tons) 1.04E-04	ted: July - December Emissions (tons) July - December	Annual Mentation as an attace Annual Emissions (tons) Annual Emissions	Tracking Number: hment. Permit Limits (Condition A1102 A) (tons per year) 18.1 2.5 0.6 15.2 0.3 No Source Limit Permit Limits (Condition A1102 A) (tons per year) 0.3 No Source Limit 0.21	
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Continued on the next page.

A1100 Internal Combustion- continued

Generator TA-33-G-3	January - June Emissions (tons)	July - December Emissions (tons)	Annual Emissions (tons)	Permit Limits (Condition A1102 A) (tons per year)
NOx	0			0.21
SO ₂	0			Not Required
TSP	0			Not Required
PM ₁₀	0			Not Required
CO	0			0.1
VOC	0			Not Required
HAPs	0			No Source Limit

Note: The TA-33-G-3 generator did not operate during the first 6 months of 2023.

Generator TA-33-G-4	January - June Emissions (tons)	July - December Emissions (tons)	Annual Emissions (tons)	Permit Limits (Condition A1102 A) (tons per year)
NOx	0.0058			2.33
SO ₂	0.0004			0.16
TSP	0.0004			Not Required
PM ₁₀	0.0004			Not Required
СО	0.0035			1.4
VOC	0.0005			0.2
HAPs	1.86E-06			No Source Limit

Generator RLUOB-GEN-1	January - June Emissions (tons)	July - December Emissions (tons)	Annual Emissions (tons)	Permit Limits
NOx	0			
SO ₂	0			
TSP	0			No Source Specific Emission Limits for
PM ₁₀	0			the RLUOB
CO	0			Generators
VOC	0			
HAPs	0			

Note: The TA-RLUOB-GEN-1 generator did not operate during the first 6 months of 2023.

Generator RLUOB-GEN-2	January - June Emissions (tons)	July - December Emissions (tons)	Annual Emissions (tons)	Permit Limits
NOx	0.205			
SO ₂	0.005			
TSP	0.012			No Source Specific
PM ₁₀	0.010			Emission Limits for the RLUOB
СО	0.254			Generators
VOC	0.029			
HAPs	5.43E-05			

A1100 Internal Combustion- continued

Generator RLUOB-GEN-3	January - June Emissions (tons)	July - December Emissions (tons)	Annual Emissions (tons)	Permit Limits
NOx	0.131			
SO ₂	0.003			
TSP	0.008			No Source Specific
PM ₁₀	0.006			Emission Limits for the RLUOB
СО	0.162			Generators
VOC	0.019			
HAPs	3.47E-05			

Generator TA-48-GEN-1	January - June Emissions (tons)	July - December Emissions (tons)	Annual Emissions (tons)	Permit Limits
NOx	0			
SO ₂	0			
TSP	0			No Source Specific Emission Limits for
PM ₁₀	0			the TA-48
со	0			Generator
VOC	0			
HAPs	0			

Note: The TA-48-GEN-1 generator did not operate during the first 6 months of 2023.

Generator TA-55-GEN-1	January - June Emissions (tons)	July - December Emissions (tons)	Annual Emissions (tons)	Permit Limits
NOx	1.52E-03			
SO ₂	1.09E-04			
TSP	1.09E-04			No Source Specific
PM ₁₀	1.09E-04			Emission Limits for the TA-55
СО	3.26E-04			Generators
VOC	1.09E-04			
HAPs	4.79E-07			

Generator TA-55-GEN-2	January - June Emissions (tons)	July - December Emissions (tons)	Annual Emissions (tons)	Permit Limits
NOx	1.35E-03			
SO ₂	9.65E-05			
TSP	9.65E-05			No Source Specific
PM ₁₀	9.65E-05			Emission Limits for the TA-55
CO	2.89E-04			Generators
VOC	9.65E-05			
HAPs	4.25E-07			

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A1100 Internal Combustion- continued

Generator TA-55-GEN-3	January - June Emissions (tons)	July - December Emissions (tons)	Annual Emissions (tons)	Permit Limits
NOx	0.677			
SO ₂	0.011			
TSP	0.021			No Source Specific
PM ₁₀	0.021			Emission Limits for the TA-55
CO	0.148			Generators
VOC	0.021			
HAPs	1.14E-04			

A1200 Data Disintegrator

A1202 Emission Limits - Data Disintegrator

Unit No.	TSP tpy	PM10 tpy
TA-52-11	9.9	9.9

Reporting Requirement

A1207 A The permittee shall submit reports described in Section A109 and in accordance with B110.

A109 B A Semi-Annual Report of actual emissions from all permitted sources unless otherwise specified in this permit is due within 90 days following the end of every 6-month reporting period as defined at Condition A109.A. Emission estimates of criteria pollutants NOx, CO, SO2, VOC, TSP, PM10, and PM2.5 shall not include fugitive emissions. Emission estimates of HAPs shall include fugitive emissions. Emission estimates shall not include Insignificant or Trivial Activities, except that facility-wide emissions from all natural gas combustion sources and the Soil Vapor Extraction equipment at Material Disposal Area L shall be estimated. The reports shall include a comparison of actual emissions that occurred during the reporting period with the facility-wide allowable emission limits at Table 106.B.

Has this reporting requirement been met during this reporting period with a separate reporting submittal? Answer Yes or No below.

	Yes	Date report submitted:	Tracking Number:
x	No I	Provide comments and identify any supporting doc	umentation as an attachment.

Comments:

Data Disintegrator TA-52-11	January - June Emissions (tons)	July - December Emissions (tons)	Annual Emissions (tons)	Permit Limits (Condition A1202 A) (tons per year)
TSP	0.11			9.9
PM10	0.10			9.9

31.5 21.5 2.8 4.9 4.7 4.4 4.2 -3 Power Plant Turbine (TA-3-22-CT-1) Nox tpy C0 tpy VOC tpy SOx tpy TSP tpy PM ₁₀ tpy PM2.5 tpy 59.4 72.3 1.5 4.2 4.8 4.8 4.8 porting Requirement A1307 A The permittee shall submit reports described in Section A109 and in accordance with B110. A109 B A Semi-Annual Report of actual emissions from all permitted sources unless otherwise specified in this permit is due within days following the end of every 6-month reporting period as defined at Condition A109.A. Emission estimates of criteria pollutants NOX, CO, SO2, VOC, TSP, PM10, and PM2.5 shall not include fugitive emissions. Emission estimates of HAPs shall include fugitive emissions. Emission estimates shall not include Insignificant or Trivial Activities, except that facility-emissions from all natural gas combustion sources and the Soil Vapor Extraction equipment at Material Disposal Area L sha estimated. The reports shall include a comparison of actual emissions that occurred during the reporting period with the faci wide allowable emission limits at Table 106.B. this reporting requirement been met during this reporting period with a separate reporting submittal? Answer Yes or No below. Yes Date report submitted: Tracking Number: No Provide comments and	TA-3 Powe		Combined (TA-33-1,	TA-33-2, TA-33-3)			
3 Power Plant Turbine (TA-3-22-CT-1) NOX tpy CO tpy VOC tpy SOX tpy TSP tpy PM tpy	NOx tpy	CO tpy	VOC tpy		TSP tpy	PM ₁₀ tpy	PM2.5 tpy
NOt tpy CO (py VOC (py SOx (py TSP (py PM _a (py PM2.5 (py) 59.4 72.3 1.5 4.2 4.8 4.8 4.8 porting Requirement A1307 A The permittee shall submit reports described in Section A109 and in accordance with B110. A109 B A Semi-Annual Report of actual emissions from all permitted sources unless otherwise specified in this permit is due within days following the end of every 6-month reporting period as defined at Condition A109. A. Emission estimates of Criteria pollutants NOx, CO, SO2, VOC, TSP, PM10, and PM2.5 shall not include fugitive emissions. Emission estimates ashall not include longinificant or Trivial Activities, except that facility-emissions from all natural gas combustion sources and the Soil Vapor Extraction equipment at Material Disposal Area L she estimated. The reports shall include a comparison of actual emissions that occurred during the reporting period with the faci wide allowable emission limits at Table 106.B. • this reporting requirement been met during this reporting period with a separate reporting submittal? Answer Yes or No below. • Yes Date report submitted: Tracking Number: • No Provide comments and identify any supporting documentation as an attachment. uments: Boilors Annual Pomit Limit (Condition A1302 A) ((ons pr year)) NOX 5.86 31.5 31.5 SOX 0.06 4.19	31.5	21.5	2.8	4.9	4.7	4.4	4.2
NOt tpy CO. tpy VOC tpy SOX tpy TSP tpy PM _a tpy PM2.5 tpy 59.4 72.3 1.5 4.2 4.8 4.8 4.8 porting Requirement A1307 A The permittee shall submit reports described in Section A109 and in accordance with B110. A109 B A Semi-Annual Report of actual emissions from all permitted sources unless otherwise specified in this permit is due within days following the end of every 6-month reporting period as defined at Condition A109. A. Emission estimates of Criteria pollutants NOx, CO, SO2, VOC, TSP, PM10, and PM2.5 shall notiched fugitive emissions. Emission estimates shall not include longinificant or Trivial Activities, except that facility-emissions from all participations on actual emissions that occurred during the reports shall include a longitive emissions. Emission estimates of APR shall not include a comparison of actual emissions that occurred during the report submitted: this reporting requirement been met during this reporting period with a separate reporting submittal? Answer Yes or No below. Yes Date report submitted: Tracking Number: Mo Provide comments and identify any supporting documentation as an attachment. unrents: Boilors Yes Date report submitted: Pomit Limit (Condition A1302 A) (cons per year) (cons) No S&66 31.5 31.6 32.6 SO(x) D.0.6 Annuta	-3 Power P	lant Turbine (TA	-3-22-CT-1)				
99.4 72.3 1.5 4.2 4.8 4.8 4.8 porting Requirement A 1307 A The permittee shall submit reports described in Section A109 and in accordance with B110. A1097 A The permittee shall submit reports described in Section A109 and in accordance with B110. A109 B A Semi-Annual Report of actual emissions from all permitted sources unless otherwise specified in this permit is due within days following the end of every 6-month reporting period as defined at Condition A109 A. Emission estimates of criteria pollutants NOX. CO, SO2. VOC. TRP. PMD, and PM2. Shall not include fugitive emissions. Emission estimates of an the Soi Vapor Extraction equipment at Material Disosal Area L Ab estimated. The reports shall include a comparison of actual emissions that occurred during the reporting period with the faci wide allowable emission limits at Table 106.B. this reporting requirement been met during this reporting period with a separate reporting submittal? Answer Yes or No below. Yes Date report submitted: Tracking Number: Tracking Number: Tracking Number: Tracking Number: No Provide comments and identify any supporting documentation as an attachment. Immittee More 5.86 ON Provide comments and identify any supporting documentation as an attachment. Immittee		,	,	SOx tpy	TSP tpy	PM_{10} tpv	PM2.5 tpy
A 1307 A The permittee shall submit reports described in Section A109 and in accordance with B110. A 1307 A The permittee shall submit reports described in Section A109 and in accordance with B110. A 109 B A Semi-Annual Report of actual emissions from all permitted sources unless otherwise specified in this permit is due within days following the end of every 6-month reporting period as defined at Condition A109A. Emission estimates of HAPs shall include fugitive emissions. Emission estimates of HAPs shall include fugitive emissions. Emission estimates of a Condition A109A. Emission from all natural gas combustion sources and the Soil Vapor Extraction equipment at Material Disposal Area L sh estimated. The reports shall include a comparison of actual emissions that occurred during the report submitted as comparison of actual emissions that occurred during the report submitted as comparison of actual emissions. Emission sources and the Soil Vapor Extraction equipment at Material Disposal Area L sh estimated. The reports shall include la comparison of actual emission stimates of No this reporting requirement been met during this reporting period with a separate reporting submittal? Answer Yes or No below. No Provide comments and identify any supporting documentation as an attachment. nments: Boilers January - June July - December Annual Permit Limit (Condition A1302 A) (toos per year) NOx 5.86 31.5 SOX 0.06 4.9 TSP 0.77 4.7 PM to 0.77 4.4 PM to 0.77 4.2 <							A 1
Yes Date report submitted: Tracking Number: No Provide comments and identify any supporting documentation as an attachment. numents: Boilers January - June July - December Annual Permit Limit (Condition A1302 A) (tons) or por year) NOx 5.86 31.5 SOx 0.06 4.9 TSP 0.77 4.7 PM10 0.77 4.2 CO 4.04 21.5 VOC 0.56 2.8 HAPs 0.19 No Source Limit O 1.19 No Source Limit MOx 13.15 4.2 CO 4.04 21.5 VOC 0.56 2.8 HAPs 0.19 No Source Limit NOx 13.15 59.4 SOx 0.93 4.2 TSP 1.05 4.8 PM ₁₀ 1.05 4.8 PM ₁₀ 1.05 4.8	A109 B	days following the pollutants NOx, CO shall include fugiti emissions from all estimated. The repo	end of every 6-month r O, SO2, VOC, TSP, PM ve emissions. Emission natural gas combustion orts shall include a com	eporting period as defir 110, and PM2.5 shall no estimates shall not incl sources and the Soil V parison of actual emissi	ned at Condition Al ot include fugitive of ude Insignificant of apor Extraction equ	109.A. Emission estimat emissions. Emission esti r Trivial Activities, exce upment at Material Disp	es of criteria mates of HAPs pt that facility-w osal Area L shall
TA-3-22-3 (tons) (tons) (tons) (tons) (tons) per year) NOx 5.86 31.5 SOx 0.06 4.9 TSP 0.77 4.1 PM ₁₀ 0.77 4.4 PM _{2.5} 0.77 4.4 PM _{2.5} 0.77 4.2 CO 4.04 4.2 CO 4.04 21.5 VOC 0.56 2.8 HAPs 0.19 No Source Limit VOC 0.56 10.1 No Source Limit Nox 13.15 Kons) (tons) (tons) NOx 13.15 59.4 59.4 SOx 0.93 4.2 4.8 PM ₁₀ 1.05 4.8 4.8 PM ₁₀ 1.05 4.8 4.8 PM ₁₀ 1.05 4.8 4.8 PM _{2.5} 1.05 4.8 4.8	this reportin	g requirement been	met during this reportir	ig period with a separat	e reporting submitt	al? Answer Yes or No b	elow.
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CO 4.04 21.5 VOC 0.56 2.8 HAPs 0.19 No Source Limit Combustion Turbine TA-3-22 CT-1 January - June Emissions (tons) July - December Emissions (tons) Annual Emissions (tons) Permit Limit (Condition A1302 A) (tons per year) NOx 13.15 59.4 SOx 0.93 4.2 TSP 1.05 4.8 PM ₁₀ 1.05 4.8 PM _{2.5} 1.05 4.8 CO 16.02 72.3	nments: B TA-3-22- TA	No Provide con oilers 1, TA-3-22-2, 3-22-3 NOx SOx TSP	mments and identify a January - June Emissions (tons) 5.86 0.06 0.77	ny supporting docum July - December Emissions	Annual Emissions	Permit Limit (Condition A1302 A) (tons per year) 31.5 4.9 4.7	
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TSP 1.05 4.8 PM ₁₀ 1.05 4.8 PM _{2.5} 1.05 4.8 CO 16.02 72.3	nments: B TA-3-22- TA	No Provide con oilers .1, TA-3-22-2, 3-22-3 NOx SOx TSP PM10 PM2.5 CO VOC IAPs	mments and identify a January - June Emissions (tons) 5.86 0.06 0.77 0.77 0.77 0.77 4.04 0.56 0.19 January - June Emissions	ny supporting docume July - December Emissions (tons)	Annual Emissions (tons)	Permit Limit (Condition A1302 A) (tons per year) 31.5 4.9 4.7 4.4 4.2 21.5 2.8 No Source Limit (Condition A1302 A)	
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CO 16.02 72.3	nments: B TA-3-22- TA I Combus TA-3	No Provide con oilers 1, TA-3-22-2, 3-22-3 NOx SOx TSP PM10 PM2.5 CO VOC 1APs SOx tion Turbine 3-22 CT-1 NOx SOx SOx TSP	January - June Emissions (tons) 5.86 0.06 0.77 0.77 0.77 0.77 0.77 0.77 0.77 0.77 0.77 0.19 January - June Emissions (tons) 13.15 0.93 1.05	ny supporting docume July - December Emissions (tons)	Annual Emissions (tons)	Permit Limit (Condition A1302 A) (tons per year)31.531.54.94.74.44.221.52.8No Source LimitPermit Limit (Condition A1302 A) (tons per year)59.44.24.3	
	nments: B TA-3-22- TA	No Provide con oilers .1, TA-3-22-2, 3-22-3 NOx SOx SOx TSP PM10 PM2.5 CO VOC HAPS stion Turbine SOx SOx TSP MOx SOx TSP PM10	January - June Emissions (tons) 5.86 0.06 0.77 0.77 0.77 0.77 0.77 0.77 0.77 0.77 0.77 0.77 1.05	ny supporting docume July - December Emissions (tons)	Annual Emissions (tons)	Permit Limit (Condition A1302 A) (tons per year)31.54.94.74.44.221.52.8No Source LimitPermit Limit (Condition A1302 A) (tons per year)59.44.24.84.8	
VOC 0.34 1.5	nments: B TA-3-22- TA	No Provide con oilers .1, TA-3-22-2, 3-22-3 NOx SOx TSP PM10 PM2.5 CO VOC 1APs tion Turbine	January - June Emissions (tons) 5.86 0.06 0.77 0.77 0.77 0.77 0.77 0.77 0.77 0.77 10.77 0.77 10.77 0.77 10.77 10.77 10.56 0.19 January - June Emissions (tons) 13.15 0.93 1.05 1.05 1.05	ny supporting docume July - December Emissions (tons)	Annual Emissions (tons)	Permit Limit (Condition A1302 A) (tons per year)31.531.54.94.74.44.221.52.8No Source LimitPermit Limit (Condition A1302 A) (tons per year)59.44.24.84.8	
	nments: B TA-3-22- TA Combus TA-3	No Provide con oilers .1, TA-3-22-2, 3-22-3 NOx SOx TSP PM10 PM2.5 CO VOC HAPs tion Turbine	January - June Emissions (tons) 5.86 0.06 0.77 0.77 0.77 0.77 0.77 0.77 0.77 10.77 0.77 0.77 0.77 1.05 1.05 1.05 1.05 1.05 1.05 1.05	ny supporting docume July - December Emissions (tons)	Annual Emissions (tons)	Permit Limit Permit Limit (Condition A1302 A) (tons per year) 31.5 4.9 4.7 4.4 4.2 21.5 2.8 No Source Limit No Source Limit (Condition A1302 A) (tons per year) 59.4 4.2 4.8 4.3 4.8 4.3 4.8 72.3 72.3	
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A1400 Open Burning

A1402 Emission Limits - Open Burning

Unit No.	Individual HAP ¹ (tpy)	Total HAPs ¹ (tpy)
Facility-Wide Open Burning	8.0	24.0

1 Individual and Total HAPs emitted by Open Burning are included in facility-wide HAP emission limits at Table 106.B.

Reporting Requirement

- A1407 A The permittee shall submit reports as outlined in the Condition 1407.A Requirements, as described in Section A109, and in accordance with Section B110.
- A109 B A Semi-Annual Report of actual emissions from all permitted sources unless otherwise specified in this permit is due within 90 days following the end of every 6-month reporting period as defined at Condition A109.A. Emission estimates of criteria pollutants NOx, CO, SO2, VOC, TSP, PM10, and PM2.5 shall not include fugitive emissions. Emission estimates of HAPs shall include fugitive emissions. Emission estimates shall not include Insignificant or Trivial Activities, except that facility-wide emissions from all natural gas combustion sources and the Soil Vapor Extraction equipment at Material Disposal Area L shall be estimated. The reports shall include a comparison of actual emissions that occurred during the reporting period with the facility-wide allowable emission limits at Table 106.B.

Has this reporting requirement been met during this reporting period with a separate reporting submittal? Answer Yes or No below.

Yes	Date report submitted:	Tracking Number:
X No	Provide comments and identify any supporting docume	ntation as an attachment.

Comments:

No open burning activities took place during the first 6 months of 2023.

A1500 Evaporative Sprayers

A1502 Emission Limits - Evaporative Sprayers

Unit No.	HAPs tpy
TA-60-EVAP-1	¹
TA-60-EVAP-2	¹
TA-60-EVAP-3	¹
TA-60-EVAP-4	¹
TA-60-EVAP-5	 ¹

1 Hazardous air pollutants (HAPs) from the evaporative coolers are included in and subject to the individual and total HAP facilitywide emission limits in Table 106.B: 8.0 tpy per individual HAP, and 24.0 tpy of combined total HAPs.

Reporting Requirement

A1507 A The permittee shall submit reports described in Section A109 and in accordance with B111.

A109 B A Semi-Annual Report of actual emissions from all permitted sources unless otherwise specified in this permit is due within 90 days following the end of every 6-month reporting period as defined at Condition A109.A. Emission estimates of criteria pollutants NOx, CO, SO2, VOC, TSP, PM10, and PM2.5 shall not include fugitive emissions. Emission estimates of HAPs shall include fugitive emissions. Emission estimates shall not include Insignificant or Trivial Activities, except that facility-wide emissions from all natural gas combustion sources shall be estimated. The reports shall include a comparison of actual emissions that occurred during the reporting period with the facility-wide allowable emission limits at Table 106.B.

Has this reporting requirement been met during this reporting period with a separate reporting submittal? Answer Yes or No below.

Yes	Date report submitted:

Tracking Number:

No Provide comments and identify any supporting documentation as an attachment.

Comments:

X

Evaporative Sprayer TA-60-EVAP-1	January - June Emissions (tons)	July - December Emissions (tons)	Annual Emissions (tons)	Permit Limits (Condition A1502 A) (tons per year)
Polychorinated biphenyls	0			
Chloroform	0			
Chloromethane	0			
Bromoform	0			Source limits refer
Cyanide	0			to facility-wide limits.
Manganese	0			iirinto.
Mercury	0			
Nickel	0			
TOTAL HAPs	0			

Note: The TA-60-EVAP-1 evaporative sprayer did not operate during the first six months of 2023.

Evaporative Sprayer TA-60-EVAP-2	January - June Emissions (tons)	July - December Emissions (tons)	Annual Emissions (tons)	Permit Limits (Condition A1502 A) (tons per year)
Polychorinated biphenyls	0			
Chloroform	0			1
Chloromethane	0			1
Bromoform	0			Source limits refer
Cyanide	0			to facility-wide limits.
Manganese	0			
Mercury	0			1
Nickel	0			1
TOTAL HAPs	0			1

Note: The TA-60-EVAP-2 evaporative sprayer did not operate during the first six months of 2023.

Continued on the next page.

A1500 Evaporative Spraye	rs - continued						
Evaporative Sprayer TA-60-EVAP-3	January - June Emissions (tons)	July - December Emissions (tons)	Annual Emissions (tons)	Permit Limits (Condition A1502 A) (tons per year)			
Polychorinated biphenyls	0						
Chloroform	0						
Chloromethane	0						
Bromoform	0			Source limits refer			
Cyanide	0			to facility-wide limits.			
Manganese	0			inflits.			
Mercury	0						
Nickel	0						
TOTAL HAPs	0						

Note: The TA-60-EVAP-3 evaporative sprayer did not operate during the first six months of 2023.

Evaporative Sprayer TA-60-EVAP-4	January - June Emissions (tons)	July - December Emissions (tons)	Annual Emissions (tons)	Permit Limits (Condition A1502 A) (tons per year)
Polychorinated biphenyls	0			
Chloroform	0			
Chloromethane	0			
Bromoform	0			Source limits refer
Cyanide	0			to facility-wide limits.
Manganese	0			intints.
Mercury	0			
Nickel	0			
TOTAL HAPs	0			

Note: The TA-60-EVAP-4 evaporative sprayer did not operate during the first six months of 2023.

Evaporative Sprayer TA-60-EVAP-5	January - June Emissions (tons)	July - December Emissions (tons)	Annual Emissions (tons)	Permit Limits (Condition A1502 A) (tons per year)	
Polychorinated biphenyls	0				
Chloroform	0				
Chloromethane	0			Source limits refer	
Bromoform	0				
Cyanide	0			to facility-wide limits.	
Manganese	0			iiiiiitis.	
Mercury	0				
Nickel	0				
TOTAL HAPs	0				

Note: The TA-60-EVAP-5 evaporative sprayer did not operate during the first six months of 2023.

Evaporative Sprayer TA-60-EVAP-6	January - June Emissions (tons)	July - December Emissions (tons)	Annual Emissions (tons)	Permit Limits (Condition A1502 A) (tons per year)
Polychorinated biphenyls	0			
Chloroform	0			
Chloromethane	0			Source limits refer
Bromoform	0			
Cyanide	0			to facility-wide limits.
Manganese	0			1111115.
Mercury	0			
Nickel	0			
TOTAL HAPs	0			

Note: The TA-60-EVAP-6 evaporative sprayer did not operate during the first six months of 2023.

A102 Facility Wide Emission Limits

Table 102.A: Total Potential Criteria Pollutant Emissions from Entire Facility

Pollutant	Emissions (tons per year)
Nitrogen Oxides (NOx)	245.0
Carbon Monoxide (CO)	225.0
Volatile Organic Carbons (VOC)	200.0
Sulfur Dioxide (SO ₂)	150.0
Total Particulate Matter (TSP)	120.0
Particulate Mater less than 10 microns (PM ₁₀)	120.0
Particulate Mater less than 2.5 microns (PM _{2.5})	120.0

Table 102.B: Total Potential HAPs that exceed 1.0 tons per year

Pollutant	Emissions (tons per year)
Individual HAP	8.0
Total HAPs	24.0

Reporting Requirement

A109 B A Semi-Annual Report of actual emissions from all permitted sources unless otherwise specified in this permit is due within 90 days following the end of every 6-month reporting period as defined at Condition A109.A. Emission estimates of criteria pollutants NOx, CO, SO2, VOC, TSP, PM10, and PM2.5 shall not include fugitive emissions. Emission estimates of HAPs shall include fugitive emissions. Emission estimates shall not include Insignificant or Trivial Activities, except that facility-wide emissions from all natural gas combustion sources shall be estimated. The reports shall include a comparison of actual emissions that occurred during the reporting period with the facility-wide allowable emission limits at Table 106.B.

Has this reporting requirement been met during this reporting period with a separate reporting submittal? Answer Yes or No below.

Yes Date report submit	Date report submitted:		Tracking Number:			
X No Provide comments and identify any supporting documentation as an attachment.						
Comments:				-		
Pollutant	January - June Emissions (tons)	July - December Emissions (tons)	2023 Annual Emissions (tons)			
Nitrogen Oxides	30.72					
Carbon Monoxide	30.28					
Volatile Organic Carbons	7.76					
Sulfur Dioxide	1.09					
Total Particulate Matter	2.80					
Particulate Matter less than 10 microns	2.78					
Particulate Matter less than 2.5 microns	1.83					
Hazardous Air Pollutants	2.20					
	-					