ORIGINAL

PETITION FOR VARIANCE BEFORE THE HEARING BOARD OF THE SOUTH COAST AIR QUALITY MANAGEMENT DISTRIC

PETITIONER: INLAND EMPIRE UTILITIES AGENCY		CASE NO: 520	9-6
		FACILITY ID: 0	09163
			- 5
FAC [local	ILITY ADDRESS: 2662 East Walnut Street ation of equipment/site of violation; specify but	siness/corporate address, if differen	ÇÜ,
City,	State, Zip: Ontario, CA 91761		
1.	TYPE OF VARIANCE REQUESTED (more than	an one box may be checked; see Attac	hment A, Item 1, befor
	selecting)		
	☑ INTERIM ☑ SHORT ☐ REGULA	R EMERGENCY EX PAR	RTE EMERGENCY
2.	CONTACT: Name, title, company (if different authorized to receive notices regarding this Pe	ent than Petitioner), address, and phonetition (no more than two authorized pe	
	Pietro Cambiaso	Curtis L. Coleman	
	Inland Empire Utilities Agency	Law Office of Curtis L. Cole	man
	6075 Kimball Avenue	P.O Box 5655	
	Chino, CA Zip 91708	Playa Del Rey CA	Zip 90296
	☎ (909) 993-1639	2 (310) 569-1922	Ext.
	Fax_()	Fax_(310) 861-1484	
	E-mail_pcambias@ieua.org	E-mail_colemanlaw@earth	link.net
3.	RECLAIM Permit Yes No	Title V Permit X Yes	☐ No

Persons with disabilities may request this document in an alternative format by contacting the Clerk of the Board at 909-396-2500 or by e-mail at clerkofboard@aqmd.gov.

If you require disability-related accommodations to facilitate participating in the hearing, contact the Clerk of the Board at least five (5) calendar days prior to the hearing.

4.	GOOD CAUSE: Explain why your petition was not filed in sufficient time to issue the required public notice.
	(Required only for Emergency and Interim Variances; see Attachment A, Item 4)

Petitioner contracted W. M. Lyles Co. (Lyles) to construct three new enclosed flares at its Ontario wastewater treatment facility (Regional Plant No. 1 or RP-1). Two of those flares have been constructed. The contract with Lyles also required Lyles to arrange for the flares to be source tested in compliance with the flare permit conditions. Lyles contracted with Alliance Technical Group (Alliance) to conduct the source testing on the flares. Alliance is a SCAQMD approved source testing company. Alliance planned to conduct the source testing during the week of November 12-15, 2024. Testing began on November 12. On November 13 Alliance personnel began testing for particulate emissions, but aborted the testing citing safety concerns due to heat from the flare. Testing personnel were attempting to test for particulates in a manner that required them to be within five feet of the flare shroud and near the top of the flare. Lyles consulted with Petitioner and advised Petitioner that they thought the source testing might still be able to be conducted by November 25, 2024. This could be done either by getting another source testing company with equipment that would not require the testers to be so close to the flare, or by fabricating a flare shroud extension that would shield the testers from the flare exhaust heat. Lyles explored these alternatives, but on Monday, November 18, Lyles advised Petitioner that neither of these options could be implemented prior to November 25.

5. Briefly describe the type of business and processes at your facility.

Regional Water Recycling Plant No. 1 (RP-1) is in the city of Ontario and has been in operation since 1948. The plant serves areas of Chino, Fontana, Montclair, Ontario, Rancho Cucamonga, Upland, and solids removed from Regional Water Recycling Plant No. 4 (RP-4), located in Rancho Cucamonga. RP-1 treats an average influent wastewater flow of approximately 28 million gallons per day but is sized to treat up to 44 million gallons per day. It provides primary, secondary and tertiary water treatment. It operates 24 hours, 7 days per week, and 52 weeks per year.

6. List the equipment and/or activity(s) that are the subject of this petition (see Attachment A, Item 6, Example #1). Attach copies of the Permit(s) to Construct and/or Permit(s) to Operate for the subject equipment. For RECLAIM or Title V facilities, attach only the relevant sections of the Facility Permit showing the equipment or process and conditions that are subject to this petition. You must bring the entire Facility Permit to the hearing.

Equipment/Activity	Application/ Permit No.	RECLAIM Device No.	Date Application/Plan Denied (if relevant)*
Enclosed Flare, digester gas fired, 12MM Btu/hour maximum heat input (Exhibit 1)	A/N 610654 Permit No. G61265		
Enclosed Flare, digester gas fired, 27MM Btu/hour maximum heat input (Exhibit 2)	A/N 610657 Permit No. G61266		

^{*}Attach copy of denial letter

levels of odorous materia digester gas must be burn When completed, the flan enclosed flare. Petitioner flare. These two flares ar	nt process generates "digester gas" which is composed of methane and significar rils including hydrogen sulfide. In order to comply with permit requirements that ned at high temperature. Petitioner is in the process of upgrading its flaring systeming system will include two 27 MM Btu/hour enclosed flares and one 12 MM Btu/hour has completed construction of one 27 MM Btu/hour flare and the 12 MM Btu/hour ecurrently used to combust the digester gas.
	res require source testing of the flares to be conducted within a certain time frame Pursuant to those conditions, source testing must be completed by November 25
f yes, how often:	nce and/or inspection schedule for this equipment? Yes X No Date of last maintenance and/or inspection and/or inspection that was performed.
The units are new and ma	aintenance will be completed on a quarterly basis based on manufacturers' respection will include air filter cleaning, thermocouple checks, start up and shutdo
are seeking variance relief (permit conditions [indicating the specific section(s) and subsection(s)] from which the following variance from Rule 401 or permit condition, see Attachment A). Bride in violation of each rule or condition (see Attachment A, Item 9, Example #2).
are seeking variance relief (explain how you are or will b Rule	(if requesting variance from Rule 401 or permit condition, see Attachment A). Bribe in violation of each rule or condition (see Attachment A, Item 9, Example #2). Explanation
are seeking variance relief (explain how you are or will b	(if requesting variance from Rule 401 or permit condition, see Attachment A). Bribe in violation of each rule or condition (see Attachment A, Item 9, Example #2).
are seeking variance relief (explain how you are or will be Rule 203(b)	(if requesting variance from Rule 401 or permit condition, see Attachment A). Bribe in violation of each rule or condition (see Attachment A, Item 9, Example #2). Explanation Condition No. 18 in Permit Nos. Permit No. G61265 and G61266 requires testing to be conducted within 180 days of the date that the flare is able to achieve a firing period of at least 60 minutes at the maximum flow rates
are seeking variance relief (explain how you are or will be Rule 203(b)	(if requesting variance from Rule 401 or permit condition, see Attachment A). Bribe in violation of each rule or condition (see Attachment A, Item 9, Example #2). Explanation Condition No. 18 in Permit Nos. Permit No. G61265 and G61266 requires testing to be conducted within 180 days of the date that the flare is able to achieve a firing period of at least 60 minutes at the maximum flow rates

Case No.	Date of Action	Final Compliance Date	Explanation
		Date	
			Andrews Andrew
re any other equipmoverage? Yes		s location currently (or within the	e last six months) under variand
Case No.	Date of Action	Final Compliance	Explanation
0400 110.	Date of Action	Date	
ast year? Yes	Notice(s) of Violation No X th a copy of each noti	or Notice(s) to Comply concern	ning this equipment or activity w
ast year? Yes yes, you must attac	h a copy of each not		
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yes, you must attact ave you received and ithin the last six moneyes, you should be explain why it is beyonecific event(s) and range for source Lyles Co.) contract Alliance is a SCAC conduct the source the testing. On No concerns related to and with heat arous shroud be added to	h a copy of each noting the complaints from the only complaints from the conducted with Alliance Tech only complaints from the flare so only com	e public regarding the operation No X details at the hearing. control to comply with the rule(se(s), if applicable. ruct the new flares. Part of the ceted in accordance with the perminical Group ("Alliance") to concete testing company. Petitioner we eek of November 12, 2024. On iance was unable to complete the stack. The top of the stack is a calliance did not feel safe perform during testing to protect the tes	and/or permit condition(s). Procontract required the contractor (V) duct the source testing of the flat as advised that Alliance would November 12, 2024, Alliance be testing for particulates citing couple of feet from the sampling hing the test. Alliance requested ting personnel from the heat.
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extension could to conduct the t Petitioner that r	e, after discussing the issues regarding the suspension of testing on November 13th Lyles ither another source testing company could be brought in to do the testing, or a shroud do be fabricated to alleviate the safety concerns of the original source testing company, in time testing during the week of November 18. However, on November 18 the Lyles notified neither of those options were possible. As a result, the source testing will not be able to be November 25, 2024.
any related instructors address the even	ction(s) you have taken since that time to achieve compliance. That the Petition Form HB-V, an ctions, include requirement that the Petitioner include a timeline in suitable, chronological forma ents, dates, and actions called for by Questions 15 and 16, including the dates of ith the South Coast AQMD to notify them of the occurrence(s) giving rise to the requested
No. 18 on Nove complete the ted discuss options Testing staff (seall feasible step Petitioner was a fabricate a shrothe lack of avail prior to Novemble to complete the	rrently in compliance with the requirements of its permits but will be in violation of Condition ember 25, 2024. Upon learning on November 14 that the source testing company could not esting during the week of November 13, Petitioner contacted attorney Curtis Coleman to sif the November 25 deadline could not be met. Petitioner also notified SCAQMD Source ourcetesting@aqmd.gov) on November 14 of the issues. Petitioner directed Lyles to explore as to enable the source testing to be completed by November 25th. On November 18, advised by Lyles that it would not be possible to conduct the source tests due to the need to bud to provide protection from the flare exhaust heat for Alliance source testing personnel and diability of another source testing company that can safely perform the tests without the shroud ber 25, 2024. The Contractor will continue searching for an alternative source testing company as source test as soon as possible, as well as continue work to fabricate a shroud that would be complete the source testing.
What would be the	e harm to your business during and/or after the period of the variance if the variance were not
granted?	Civil panalties for violating SCAOMD Pules 203(b) and 3003(c)
granted? Economic losses:	\$ Civil penalties for violating SCAQMD Rules 203(b) and 3002(c)
Economic losses:	\$ Civil penalties for violating SCAQMD Rules 203(b) and 3002(c) yees laid off (if any): 0

Neither curtailment nor termination event, the flares need to be operative treatment process and Petitioner process. The third flare (PN G612 constructed and commissioned.	ated to combust excess digester has no control over the amount	gas generated during of digester gas gener	the wastewater ated during the
Estimate excess emissions, if any, o otal opacity above 20% during the v N/A" here and skip to No. 20.			
Pollutant	(A) Total Estimated Excess Emissions (lbs/day)	(B) Reduction Due to Mitigation (lbs/day)	(C)* Net Emissions After Mitigation (lbs/day)
N/A			
Column A minus Column B = Colu	mn C		
Excess Opacity: NA 9	quantities in No.19, or explain v		
Excess Opacity: NA %	quantities in No.19, or explain v	ested from an administ	
Excess Opacity: NA 9 Show calculations used to estimate There will be no excess emissions	quantities in No.19, or explain versions as the variance is being reques ithin which source tests must be signed by the source tests must be signed.	ested from an administ e conducted.	trative permit condition

	Petitioner will monitor the amount of digester gas sent to the flares and the Btu content of the gas as require by the flare permit. This will allow the District to calculate emissions.
to	escription of any equipment to be installed, modifications or process changes to be made, permit conditions be amended, etc., dates by which the actions will be completed, and an estimate of total costs.
	Petitioner will conduct the course tests as soon as possible after Nevember 25, 2024
	Petitioner will conduct the source tests as soon as possible after November 25, 2024.
	Petitioner will conduct the source tests as soon as possible after November 25, 2024.
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S	
יכ	Petitioner will conduct the source tests as soon as possible after November 25, 2024. tate the date you are requesting the variance to begin: November 25, 2024 ; and the day which you expect to achieve final compliance: no later than January 24, 2025. Petitioner will have a firm meline by the date of the short variance hearing
or in	tate the date you are requesting the variance to begin: November 25, 2024; and the converge of the short variance hearing. The regular variance is to extend beyond one year, you must include a Schedule of Increments of Progre precifying dates or time increments for steps needed to achieve compliance. See District Rule 102 for definit
or in	tate the date you are requesting the variance to begin: November 25, 2024 ; and the converge of the short variance hearing ; and the converge of the short variance hearing ; and the converge of the short variance hearing ; and the converge of the short variance hearing ; the regular variance is to extend beyond one year, you must include a Schedule of Increments of Progres pecifying dates or time increments for steps needed to achieve compliance. See District Rule 102 for definite Increments of Progress (see Attachment A, Item 24, Example #3).
by tin	tate the date you are requesting the variance to begin: November 25, 2024; and the converge which you expect to achieve final compliance: no later than January 24, 2025. Petitioner will have a firm meline by the date of the short variance hearing: the regular variance is to extend beyond one year, you must include a Schedule of Increments of Progressicitying dates or time increments for steps needed to achieve compliance. See District Rule 102 for definite

Alemayehu Solomon	25.	variance petition or any related Notice of Violation of	onnel with whom facility representatives have had contact tice of Violation or Notice to Comply.		
If the petition was completed by someone other than the petitioner, please provide their name an Name		Alemayehu Solomon	Ext. 3256		
Name			Ext		
Name Company Title The undersigned, under penalty of perjury, states that the above petition, including attachments at therein set forth, is true and correct. Executed on November 22 2024, at Pietro Cambiaso Print Name Title: Manager of Compliance and Sustainability 26. SMALL BUSINESS and TABLE III SCHEDULE A FEES: To be eligible for reduced fees for smaindividuals, or entities meeting small business gross receipts criterion [see District Rule 303(h)], you must following: Declaration Re Reduced Fee Eligibility 1. The petitioner is a) an individual, or b) an officer, partner or owner of the petitioner herein, or a duly authorized agent of the petitioner is a business that meets the following definition of Small Business as set forth in District R SMALL BUSINESS means a business which is independently owned and operated and following criteria, or if affiliated with another concern, the combined activities of both conditiese criteria: (a) the number of employees is 10 or less; AND (b) the total gross annual receipts are \$500,000 or less or (iii) the facility is a not-for-profit training center. OR- b) an entity with total gross annual receipts for reduced fees for purpose of filling fees and excefee calculations, in accordance with Rule 303(h). I declare under penalty of perjury that the foregoing is true and correct. Executed on at					
The undersigned, under penalty of perjury, states that the above petition, including attachments at therein set forth, is true and correct. Executed on Novem by 22 2024, at Pietro Cambiaso Print Name Signature Print Name Title: Manager of Compliance and Sustainability 26. SMALL BUSINESS and TABLE III SCHEDULE A FEES: To be eligible for reduced fees for sma individuals, or entities meeting small business gross receipts criterion [see District Rule 303(h)], you must following: Declaration Re Reduced Fee Eligibility 1. The petitioner is a) an individual, or b) an officer, partner or owner of the petitioner herein, or a duly authorized agent of the petitioner authorized to make the representations set forth herein. If you selected 1a, above, skip item 2. 2. The petitioner is a) business that meets the following definition of Small Business as set forth in District Following criteria, or if affiliated with another concern, the combined activities of both concentrations. (a) the number of employees is 10 or less; AND (b) the total gross annual receipts are \$500,000 or less or (iii) the facility is a not-for-profit training center. OR- b) an entity with total gross annual receipts of \$500,000 or less. 3. Therefore, I believe the petitioner qualifies for reduced fees for purpose of filling fees and excent fee calculations, in accordance with Rule 303(h). I declare under penalty of perjury that the foregoing is true and correct.		If the petition was completed by someone other tha	n the petitioner, please	provide their nar	me and title below.
Executed on November 22 2024, at Pietro Cambiaso Print Name Title: Manager of Compliance and Sustainability 26. SMALL BUSINESS and TABLE III SCHEDULE A FEES: To be eligible for reduced fees for smaindividuals, or entities meeting small business gross receipts criterion [see District Rule 303(h)], you must following: Declaration Re Reduced Fee Eligibility 1. The petitioner is a) an individual, or b) above, skip item 2. 2. The petitioner is a) business that meets the following definition of Small Business as set forth in District F SMALL BUSINESS means a business which is independently owned and operated and infollowing criteria, or if affiliated with another concern, the combined activities of both concentrations. (a) the number of employees is 10 or less; AND (b) the total gross annual receipts are \$500,000 or less or (iii) the facility is a not-for-profit training center. OR- b) an entity with total gross annual receipts of \$500,000 or less. 3. Therefore, I believe the petitioner qualifies for reduced fees for purpose of filling fees and excent fee calculations, in accordance with Rule 303(h). I declare under penalty of perjury that the foregoing is true and correct.		Name Company		Title	
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Title: Manager of Compliance and Sustainability 26. SMALL BUSINESS and TABLE III SCHEDULE A FEES: To be eligible for reduced fees for sma individuals, or entities meeting small business gross receipts criterion [see District Rule 303(h)], you must following: **Declaration Re Reduced Fee Eligibility** 1. The petitioner is a) □ an individual, or b) □ an officer, partner or owner of the petitioner herein, or a duly authorized agent of the pet authorized to make the representations set forth herein. If you selected 1a, above, skip item 2. 2. The petitioner is a) □ a business that meets the following definition of Small Business as set forth in District F SMALL BUSINESS means a business which is independently owned and operated and in following criteria, or if affiliated with another concern, the combined activities of both concentrates criteria: (a) the number of employees is 10 or less; AND (b) the total gross annual receipts are \$500,000 or less or (iii) the facility is a not-for-profit training center. OR- b) □ an entity with total gross annual receipts of \$500,000 or less. 3. Therefore, I believe the petitioner qualifies for reduced fees for purpose of filing fees and excent fee calculations, in accordance with Rule 303(h). I declare under penalty of perjury that the foregoing is true and correct. Executed on		til leure	Pietro Cambias		
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Executed on, at				of filing fees and	d excess emission
		I declare under penalty of perjury that the foregoing	is true and correct.		
Signature Print Name	Execu	uted on, at			, California
oignature Print Name	Sies-	tura	Deiné Mana		
	oignai	luie	Print Name		



Section D Page: Facility ID: 009163 Revision #: Date:

April 9, 2020

FACILITY PERMIT TO OPERATE INLAND EMPIRE UTL AGEN, A MUN WATER DIST

PERMIT TO CONSTRUCT/OPERATE

Permit No. G61265 A/N 610654

Equipment Description:

Enclosed Flare, Aereon, Model CEB-350, digester gas fired, 12 MMBtu/hr maximum beat input, maximum combustion air blower capacity of 3,000 scfm, 2'-8" Dia. X 17'-12" H., with natural gas pilot, ground level, shrouded, with automatic combustion blower, automatic combustion air control system, temperature controller, and automatic shutoff gas valve.

Conditions:

- 1. Operation of this equipment shall be conducted in accordance with all data and specifications submitted with the application under which this permit is issued unless otherwise noted below. [Rule 204]
- 2. This equipment shall be properly maintained and kept in good operating condition at all times. [Rule 204]
- 3. This equipment shall be operated and maintained by personnel properly trained in its operation. [Rule 204]
- This equipment shall be operated in compliance with all applicable provisions of Rules 431.1 and 1118.1. 4. [Rule 431.1, Rule 1118.1]
- 5. Prior to burning digester gas in this equipment, the digester gas shall first be treated through a permitted knockout vessel/gas-liquid separator with a demister or equivalent. [Rule 1303(a)(1)-BACT]
- 6. The flare shall be equipped with a shroud which will ensure complete flame retention within the shroud. [Rule 1303(a)(1)-BACT]
- 7. The flare shall be equipped with a temperature indicator and recorder which measures and records the gas temperature in the flare stack. The temperature indicator and recorder shall operate whenever the flare is in operation. The temperature indicator and recording device shall operate whenever the flare is in operation. The temperature shall be measured at a location that is at least 0.6 seconds downstream of the burner. [Rule 1303(a)(1)-BACT]
- 8. Whenever the flare is in operation, a temperature of not less than 1,800 degrees Fahrenheit, 15 minute average, as measured by the temperature indicator and recorder shall be maintained except during periods of startup and shutdown. Startup is defined as the period from flare ignition to the time when 1,800 degrees Fahrenheit is achieved, not to exceed 30 minutes. Shutdown is the period from when the gas valve begins to be shutoff and completely shuts off, not to exceed 30 minutes. [Rule 1303(a)(1)-BACT]
- 9. The flare shall be designed and operated so that the flame in the flare remains below the height of the flares operating thermocouple at all times. [Rule 204]



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- 10. A continuous, non-resettable totalizing flow indicating and recording device shall be maintained in the digester gas supply lines to the flare to measure and record the quantity of digester gas (in scfm) being combusted in the flare. In case a pressure sensor device is used in place of the flow indicator, a conversion chart shall be posted on the equipment to indicate the flow rate (in scfm) corresponding to the pressure reading. [Rule 204, Rule 1303(b)(2)-Offset]
- 11. All recording devices shall be synchronized with respect to the time of day. [Rule 1303(b)(2)-Offset]
- 12. At least two (2) sampling ports shall be provided in the flare stack at least one-half duct diameter upstream of the flare outlet, 90 degrees apart, or as otherwise approved. Each sampling port shall consist of a four-inch coupling with plug. All ports shall be properly centered. An equivalent method of emission sampling may be used upon approval by the Executive Officer. Adequate and safe access to all source test ports shall be provided within 48 hours notice by South Coast AOMD. [Rule 204, Rule 217]
- A sampling port shall be maintained at the inlet gas line to the flare, downstream of the sulfur removal system, to 13. allow the collection of a digester gas sample. [Rule 217, Rule 431.1]
- 14. Weekly readings of Btu content of the gas at the inlet to the flare, downstream of the sulfur removal system, shall be taken using an instrument or method approved by the South Coast AQMD. All results shall be recorded. [Rule 1303(b)(1)-Modeling, Rule 1303(b)(2)-Offset]
- The heat input through the flare shall not exceed 12 MMBtu/hr, A log shall be kept indicating the total heating 15. value of digester gas combusted in the flare based on the recorded flow rate (scfm) and the latest weekly BTU content reading. [Rule 1303(b)(1)-Modeling, Rule 1303(b)(2)-Offset]
- The flare shall be equipped with an automatic shut-down system with a failure alarm, which has been approved 16. by the South Coast AQMD, to automatically isolate the flare from the digester gas supply line, shut off the blower, and immediately notify a responsible part of the shut-down. The automatic shutdown safety system shall be tested annually for proper operation of the flare and the results recorded. [Rule 1303(a)(1)-BACT]
- 17. Operation of this equipment shall not result of any release of raw digester gas into the atmosphere. Any breakdown or malfunction which results in emission of raw digester gas shall be reported to the South Coast AOMD Compliance Manager for waste management facilities within one hour after occurrence or within one hour the owner/operator reasonably should have known of the occurrence, and immediate remedial measure shall be under taken to correct the problem and prevent further emissions into the atmosphere. [Rule 430]
- The operator shall conduct a source test on the flare within 180 days after the flare is able to achieve a firing 18. period of at least 60 minutes, at the maximum flow rates achievable, at that time, in accordance with South Coast AQMD approved source test procedures and furnish the South Coast AQMD written results of such performance tests within sixty (60) days after testing. Thereafter, the operator shall conduct a source test on the flare every five years, in as-found condition.



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Written notification of the scheduled test date shall be provided to South Coast AQMD at least ten (10) days prior to the date so that the testing may be observed by South Coast AQMD personnel. The testing shall be conducted when the equipment is in full operation, and shall include, but not limited to, a test of the inlet to the flare and the flare exhaust for:

- A. Methane
- B. Total Non-Methane Organic Compounds (TNMOC)
- C. Toxic Air Contaminants (TAC) including, but not limited to Acrolein, Acetaldehyde, Formaldehyde, Total PAHs, Naphthalene, Benzene, Chlorobenzene, Ethyl Benzene, 1,1,2,2—Tetrachloroethane, Acrylonitrile, 1,2-Dichloroethane, 1,1-Dichloroethene, Dichloromethane, Tetrachloroethylene, Tetrachloromethane, Toluene, 1,1,1-Trichloroethane, Trichloroethylene, Trichloromethane, Vinyl Chloride, and Xylene Isomers (exhaust only).
- D. NOx, as NO2 (exhaust only)
- E. SOx, as SO2 (exhaust only)
- F. CO (exhaust only)
- G. Total Particulates PM10 (exhaust only)
- H. Oxygen and Carbon Dioxide
- I. Moisture Content
- J. Temperature (exhaust only)
- K. Flowrate
- L. Total Sulfur Compounds as Hydrogen Sulfide (inlet only)
- M. Btu Value (inlet only)
- N. Nitrogen (exhaust only)

[Rule 1118.1, Rule 1303(b)(2)-Offset, Rule 1401]

- 19. The source test report, for the flare shall include:
 - A. Emissions of CO, NOx, TNMOCs, methane, PM10, and SOx, reported in units of lbs/hr and ppmv (except particulates/PM10 which shall be in lbs/hr and gr/scf), overall TNMOC & methane destruction efficiency (wt%), formaldehyde, toxic air contaminants (lbs/hr and ppmv), oxygen and carbon dioxide (in percentage volume), sulfur compounds as H2S (in ppmv), and TNMOC emissions (ppmv), dry basis, as hexane at 3% oxygen.
 - B. The test shall be performed by a testing laboratory certified to meet the criteria in South Coast AQMD Rule 304(k) (No Conflict of Interest).
 - C. Sampling facilities shall comply with South Coast AQMD "Guidelines for Construction of Sampling and Testing Facilities" pursuant to Rule 217.
 - D. If the source test indicates additional toxic air contaminants (TAC) compounds are emitted or the rates are significantly different than used in previously evaluated risk assessment, the owner or operator shall calculate the maximum individual cancer risk (MICR), acute hazard index (HIA) and chronic hazard index (HIC), based on the source test results using South Coast AQMD published risk assessment procedures for Rules 1401 and 212 to determine compliance with Rule 1401. Results shall be submitted to South Coast AQMD within 90 days after initial testing is completed.

[Rule 1303(b)(2)-Offset, Rule 1401]



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- 20. All digester gas collected shall be directed either to the flare for combustion or to a treatment system or equipment which has a valid Permit to Construct or Operate, as applicable, from the South Coast AQMD. [Rule 1303(b)(2)-Offset]
- This permit shall expire if construction of this equipment is not complete within one year from the date of 21. issuance of this permit unless an extension is granted by the Executive Officer. [Rule 205]
- All records shall be kept for a minimum of five years and shall be made available to South Coast AQMD 22. personnel upon request. [Rule 1303(b)(2)-Offset]

Emissions and Requirements:

This equipment is subject to the applicable requirements of the following rules and regulations: 23.

CO: 2000 ppmv, Rule 407

CO: 0.06 lb/MMBtu/hr, Rule 1118.1, Rule 1303(a)(1) - LAER/BACT

Rule 404, see Appendix B for emission limits PM:

PM: 0.1 gr/scf, Rule 409

ROG: 0.038 lb/MMBtu/hr, Rule 1118.1, Rule 1303(a)(1) - LAER/BACT NOx 0.025 lb/MMBtu/hr, Rule 1118.1, Rule 1303(a)(1) - LAER/BACT

SOx: 500 ppm, Rule 407



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FACILITY PERMIT TO OPERATE INLAND EMPIRE UTL AGEN, A MUN WATER DIST

PERMIT TO CONSTRUCT/OPERATE

Permit No. G61266 A/N 610657

Equipment Description:

Enclosed Flare, Aereon, Model CEB-800, digester gas fired, 27 MMBtu/hr maximum heat input, maximum combustion air blower capacity of 11,000 scfm, 3'-8" Dia. X 24'-2" H., with natural gas pilot, ground level, shrouded, with automatic combustion blower, automatic combustion air control system, temperature controller, and automatic shutoff gas valve.

Conditions:

- Operation of this equipment shall be conducted in accordance with all data and specifications submitted with the
 application under which this permit is issued unless otherwise noted below.

 [Rule 204]
- 2. This equipment shall be properly maintained and kept in good operating condition at all times. [Rule 204]
- This equipment shall be operated and maintained by personnel properly trained in its operation.
 [Rule 204]
- 4. This equipment shall be operated in compliance with all applicable provisions of Rules 431.1 and 1118.1. [Rule 431.1, Rule 1118.1]
- Prior to burning digester gas in this equipment, the digester gas shall first be treated through a permitted knockout vessel/gas-liquid separator with a demister or equivalent.
 [Rule 1303(a)(1)-BACT]
- 6. The flare shall be equipped with a shroud which will ensure complete flame retention within the shroud.

 [Rule 1303(a)(1)-BACT]
- 7. The flare shall be equipped with a temperature indicator and recorder which measures and records the gas temperature in the flare stack. The temperature indicator and recorder shall operate whenever the flare is in operation. The temperature indicator and recording device shall operate whenever the flare is in operation. The temperature shall be measured at a location that is at least 0.6 seconds downstream of the burner. [Rule 1303(a)(1)-BACT]
- 8. Whenever the flare is in operation, a temperature of not less than 1,800 degrees Fahrenheit, 15 minute average, as measured by the temperature indicator and recorder shall be maintained except during periods of startup and shutdown. Startup is defined as the period from flare ignition to the time when 1,800 degrees Fahrenheit is achieved, not to exceed 30 minutes. Shutdown is the period from when the gas valve begins to be shutoff and completely shuts off, not to exceed 30 minutes.

 [Rule 1303(a)(1)-BACT]
- 9. The flare shall be designed and operated so that the flame in the flare remains below the height of the flares operating thermocouple at all times.

 [Rule 204]



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- 10. A continuous, non-resettable totalizing flow indicating and recording device shall be maintained in the digester gas supply lines to the flare to measure and record the quantity of digester gas (in scfm) being combusted in the flare. In case a pressure sensor device is used in place of the flow indicator, a conversion chart shall be posted on the equipment to indicate the flow rate (in scfm) corresponding to the pressure reading.

 [Rule 204, Rule 1303(b)(2)-Offset]
- 11. All recording devices shall be synchronized with respect to the time of day. [Rule 1303(b)(2)-Offset]
- 12. At least two (2) sampling ports shall be provided in the flare stack at least one-half duct diameter upstream of the flare outlet, 90 degrees apart, or as otherwise approved. Each sampling port shall consist of a four-inch coupling with plug. All ports shall be properly centered. An equivalent method of emission sampling may be used upon approval by the Executive Officer. Adequate and safe access to all source test ports shall be provided within 48 hours notice by South Coast AQMD.
 [Rule 204, Rule 217]
- 13. A sampling port shall be maintained at the inlet gas line to the flare, downstream of the sulfur removal system, to allow the collection of a digester gas sample.

 [Rule 217, Rule 431.1]
- 14. Weekly readings of Btu content of the gas at the inlet to the flare, downstream of the sulfur removal system, shall be taken using an instrument or method approved by the South Coast AQMD. All results shall be recorded. [Rule 1303(b)(1)-Modeling, Rule 1303(b)(2)-Offset]
- 15. The heat input through the flare shall not exceed 27 MMBtu/hr. A log shall be kept indicating the total heating value of digester gas combusted in the flare based on the recorded flow rate (scfin) and the latest weekly BTU content reading.

 [Rule 1303(b)(1)-Modeling, Rule 1303(b)(2)-Offset]
- 16. The flare shall be equipped with an automatic shut-down system with a failure alarm, which has been approved by the South Coast AQMD, to automatically isolate the flare from the digester gas supply line, shut off the blower, and immediately notify a responsible part of the shut-down. The automatic shutdown safety system shall be tested annually for proper operation of the flare and the results recorded.

 [Rule 1303(a)(1)-BACT]
- 17. Operation of this equipment shall not result of any release of raw digester gas into the atmosphere. Any breakdown or malfunction which results in emission of raw digester gas shall be reported to the South Coast AQMD Compliance Manager for waste management facilities within one hour after occurrence or within one hour the owner/operator reasonably should have known of the occurrence, and immediate remedial measure shall be under taken to correct the problem and prevent further emissions into the atmosphere.

 [Rule 430]
- 18. The operator shall conduct a source test on the flare within 180 days after the flare is able to achieve a firing period of at least 60 minutes, at the maximum flow rates achievable, at that time, in accordance with South Coast AQMD approved source test procedures and furnish the South Coast AQMD written results of such performance tests within sixty (60) days after testing. Thereafter, the operator shall conduct a source test on the flare every five years, in as-found condition.



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Written notification of the scheduled test date shall be provided to South Coast AQMD at least ten (10) days prior to the date so that the testing may be observed by South Coast AQMD personnel. The testing shall be conducted when the equipment is in full operation, and shall include, but not limited to, a test of the inlet to the flare and the flare exhaust for:

- A. Methane
- B. Total Non-Methane Organic Compounds (TNMOC)
- C. Toxic Air Contaminants (TAC) including, but not limited to Acrolein, Acetaldehyde, Formaldehyde, Total PAHs, Naphthalene, Benzene, Chlorobenzene, Ethyl Benzene, 1,1,2,2-Tetrachloroethane, Acrylonitrile, 1,2-Dichloroethane, 1,1-Dichoroethene, Dichloromethane, Tetrachloroethylene, Tetrachloromethane, Toluene, 1,1,1-Trichloroethane, Trichloroethylene, Trichloromethane, Vinyl Chloride, and Xylene Isomers (exhaust only).
- D. NOx, as NO2 (exhaust only)
- E. SOx, as SO2 (exhaust only)
- F. CO (exhaust only)
- G. Total Particulates PM10 (exhaust only)
- H. Oxygen and Carbon Dioxide
- I. Moisture Content
- J. Temperature (exhaust only)
- K. Flowrate
- L. Total Sulfur Compounds as Hydrogen Sulfide (inlet only)
- M. Btu Value (inlet only)
- N. Nitrogen (exhaust only)

[Rule 1118.1, Rule 1303(b)(2)-Offset, Rule 1401]

- 19. The source test report, for the flare shall include:
 - A. Emissions of CO, NOx, TNMOCs, methane, PM10, and SOx, reported in units of lbs/hr and ppmv (except particulates/PM10 which shall be in lbs/hr and gr/scf), overall TNMOC & methane destruction efficiency (wt%), formaldehyde, toxic air contaminants (lbs/hr and ppmv), oxygen and carbon dioxide (in percentage volume), sulfur compounds as H2S (in ppmv), and TNMOC emissions (ppmv), dry basis, as hexane at 3% oxygen.
 - B. The test shall be performed by a testing laboratory certified to meet the criteria in South Coast AQMD Rule 304(k) (No Conflict of Interest).
 - C. Sampling facilities shall comply with South Coast AQMD "Guidelines for Construction of Sampling and Testing Facilities" pursuant to Rule 217.
 - D. If the source test indicates additional toxic air contaminants (TAC) compounds are emitted or the rates are significantly different than used in previously evaluated risk assessment, the owner or operator shall calculate the maximum individual cancer risk (MICR), acute hazard index (HIA) and chronic hazard index (HIC), based on the source test results using South Coast AQMD published risk assessment procedures for Rules 1401 and 212 to determine compliance with Rule 1401. Results shall be submitted to South Coast AQMD within 90 days after initial testing is completed.

[Rule 1303(b)(2)-Offset, Rule 1401]



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- 20. All digester gas collected shall be directed either to the flare for combustion or to a treatment system or equipment which has a valid Permit to Construct or Operate, as applicable, from the South Coast AQMD. [Rule 1303(b)(2)-Offset]
- This permit shall expire if construction of this equipment is not complete within one year from the date of issuance of this permit unless an extension is granted by the Executive Officer.

 [Rule 205]
- 22. All records shall be kept for a minimum of five years and shall be made available to South Coast AQMD personnel upon request.

 [Rule 1303(b)(2)-Offset]

Emissions and Requirements:

23. This equipment is subject to the applicable requirements of the following rules and regulations:

CO: 2000 ppmv, Rule 407

CO: 0.06 lb/MMBtu/hr, Rule 1118.1, Rule 1303(a)(1) - LAER/BACT

PM: Rule 404, see Appendix B for emission limits

PM: 0.1 gr/scf, Rule 409

ROG: 0.038 lb/MMBtu/hr, Rule 1118.1, Rule 1303(a)(1) – LAER/BACT NOX 0.025 lb/MMBtu/hr, Rule 1118.1, Rule 1303(a)(1) – LAER/BACT

SOx: 500 ppm, Rule 407