

ORIGINAL

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

PETITIONER: AMERESCO CHIQUITA ENERGY LLC

CASE NO: 6143-3

FACILITY ID: 140373

FACILITY ADDRESS: 29201 Henry Mayo Dr  
[location of equipment/site of violation; specify business/corporate address, if different, under Item 2, below]

City, State, Zip: Castaic, CA 91384

1. TYPE OF VARIANCE REQUESTED (more than one box may be checked; see Attachment A, Item 1, before selecting)

☐ INTERIM ☐ SHORT ☒ REGULAR ☐ EMERGENCY ☒ EX PARTE EMERGENCY

2. CONTACT: Name, title, company (if different than Petitioner), address, and phone number of persons authorized to receive notices regarding this Petition (no more than two authorized persons).

Andrew McClelland

Environmental Compliance Manager

111 Speen St, Ste 410

Framingham, MA Zip 01701

☎ ( 508 ) 661-2242 Ext.

Fax ( )

E-mail amcclelland@ameresco.com

Zip

☎ ( ) Ext.

Fax ( )

E-mail

3. RECLAIM Permit ☐ Yes ☒ No Title V Permit ☒ 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](mailto: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.

[ALL DOCUMENTS FILED WITH CLERK'S OFFICE BECOME PUBLIC RECORD]

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)

On May 18, 2023, Ameresco Chiquita Energy LLC (Ameresco) received results of a source test conducted on April 25, 2023, for Turbine #1. On May 19, 2023, Ameresco received results of a source test conducted on April 26, 2023, for Turbine #2. The reports indicate that the turbines emitted non-methane organic compounds (NMOC) in excess of the permitted limit of 12.5 lbs/day. Turbine #1 was measured at 111.3 lbs/day. Turbine #2 was measured at 18.7 lbs/day. Additionally, emissions of NMOC from Turbine #1 were in excess of the permitted limits of 20 ppmv as hexane @ 3% O<sub>2</sub> or 98% NMOC destruction efficiency. Turbine #1 was measured at 38.52 ppmv as hexane @ 3% O<sub>2</sub> and 85% NMOC destruction efficiency.

Ameresco believes that the excess emissions are primarily the result of elevated NMOCs in the fuel gas provided by the landfill, likely related to an undesirable reaction that the landfill is currently experiencing.

Ameresco understands that operation of the turbines benefits the corrective actions being taken to mitigate the conditions that are resulting in an undesirable reaction in the wellfield.

Ameresco believes that an Ex Parte Variance is required due to the following:

1. The elevated levels of NMOC in the landfill gas fuel were first discovered on May 18, 2023.
2. There are no immediately available control/removal methods for NMOCs.
3. LFG is continuously generated by the landfill and must be controlled through flaring or beneficial use as it is generated.
4. The wellfield vacuum and LFG control provided by the Ameresco plant is beneficial to the efforts at resolving the reaction in the wellfield.
5. The landfill is unable to capture all of the LFG produced by the wellfield when the Ameresco plant is offline.

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

Ameresco Chiquita Energy LLC receives landfill gas (LFG) from the Chiquita Canyon Landfill and processes it for use in two turbine engine-generators to produce up to 9.2 MW of electricity. A major component of the gas processing system, the temperature swing adsorption (TSA) system, uses a 12.1 MMBtu/hr LFG-fueled flare to control emissions from the regeneration of the adsorption media.

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)*
LFG-fueled turbine-generator #1, 4.6 MW	G25211	N/A	N/A
LFG-fueled turbine-generator #2, 4.6 MW	G25212	N/A	N/A
LFG/waste gas flare for LFG treatment system	G23448	N/A	N/A

\*Attach copy of denial letter

7. Briefly describe the activity or equipment, and why it is necessary to the operation of your business. A schematic or diagram may be attached, in addition to the descriptive text.

The turbine-generators are fueled by LFG and provide a beneficial use for a fuel that would otherwise be flared. Electricity generated by this equipment is sold to the Southern California Public Power Authority. Additionally, the vacuum and LFG control provided by the plant assists Chiquita Canyon in maintaining control of LFG emissions.

The LFG/waste gas flare is required to control emissions from the regeneration of siloxane adsorption media in the TSA system. Without the TSA system, the siloxane compounds in the LFG would destroy the turbines.

8. Is there a regular maintenance and/or inspection schedule for this equipment? Yes ☒ No ☐

If yes, how often: Turbine semiannual maintenance every 4,000 operating hours; TSA flare burner inspections every 2 months

Date of last maintenance and/or inspection: Turbine 1: 12/21/2022; Turbine 2: 9/26/2022; Flare: April 2023

Describe the maintenance and/or inspection that was performed.

The routine maintenance events identified above are in addition to other maintenance that is performed as the need arises. The current excess LFG NMOC issue would not be mitigated or corrected with additional emission unit maintenance. Ameresco contacted Solar on May 19, 2023, to inspect Turbine #1 and attempt to determine the cause of lower than expected NMOC destruction efficiency.

9. List all District rules, and/or permit conditions [indicating the specific section(s) and subsection(s)] from which you are seeking variance relief (if requesting variance from Rule 401 or permit condition, see Attachment A). Briefly explain how you are or will be in violation of each rule or condition (see Attachment A, Item 9, Example #2).

Rule	Explanation
Rules 203(b), 3002 (c), 1303(b)(1), and 1303(b)(2); Condition 21 of P/O No. G25211 for Turbine #1	Turbine #1 will need to operate with NMOC emissions in excess of 12.5 lbs/day.
Rules 203(b), 3002 (c), 1303(b)(1), and 1303(b)(2); Condition 21 of P/O No. G25212 for Turbine #2	Turbine #2 will need to operate with NMOC emissions in excess of 12.5 lbs/day.
Rules 203(b), 3002 (c), and 1150.1 Condition 24 of P/O No. G25211 for Turbine #1	Turbine #1 will need to operate with ROG emissions in excess of 20 ppmv as hexane @ 3% O2 and at less than 98% NMOC destruction efficiency
Rules 203(b), 3002 (c), and 1150.1 Condition 24 of P/O No. G25212 for Turbine #1	Turbine #2 will need to operate with ROG emissions in excess of 20 ppmv as hexane @ 3% O2 and at less than 98% NMOC destruction efficiency
Rules 203(b), 3002 (c), and 1150.1 Condition 18 of P/O No. G25212 for Turbine #1	The TSA flare will need to operate with NMOC emissions in excess of 20 ppmv as hexane @ 3% O2 and at less than 98% NMOC destruction efficiency
Rules 203(b), 3002 (c), 1303(a)(1), 1303(b)(1), and 1303(b)(2), 1401 Condition 13 of P/O No. G23448 for the TSA Flare	The TSA flare will need to operate with ROG emissions in excess of 21 lbs/day.

10. Are the equipment or activities subject to this request currently under variance coverage? Yes ☒ No ☐

Case No.	Date of Action	Final Compliance Date	Explanation
6143-2	5/3/2023		Regular variance for excess LFG total reduced sulfur concentration and excess SO2 emissions due to landfill reaction

11. Are any other equipment or activities at this location currently (or within the last six months) under variance coverage? Yes ☐ No ☒

Case No.	Date of Action	Final Compliance Date	Explanation

12. Were you issued any Notice(s) of Violation or Notice(s) to Comply concerning this equipment or activity within the past year? Yes ☐ No ☒

If yes, you must attach a copy of each notice.

13. Have you received any complaints from the public regarding the operation of the subject equipment or activity within the last six months? Yes ☐ No ☒

If yes, you should be prepared to present details at the hearing.

14. Explain why it is beyond your reasonable control to comply with the rule(s) and/or permit condition(s). Provide specific event(s) and date(s) of occurrence(s), if applicable.

Ameresco does not control the concentration of NMOCs in LFG delivered from Chiquita Canyon. The landfill is operated by a completely separate company.

15. When and how did you first become aware that you would not be in compliance with the rule(s) and/or permit condition(s)? Provide specific event(s) and date(s) of occurrence(s).

On May 18, 2023, Ameresco received results of a source test conducted on April 25, 2023, for Turbine #1. On May 19, 2023, Ameresco received results of a source test conducted on April 26, 2023, for Turbine #2. The reports indicate that the turbines emitted NMOC in excess of the permitted limit of 12.5 lbs/day.

Additionally, emissions of NMOC from Turbine #1 were in excess of the permitted limits of 20 ppmv as hexane @ 3% O<sub>2</sub> or 98% NMOC destruction efficiency.

Ameresco has not yet received the report for the TSA flare test, but Ameresco anticipates that there may be excess NMOC/ROG emissions from the flare as well.

16. List date(s) and action(s) you have taken since that time to achieve compliance.

Ameresco contacted Solar to inspect Turbine #1 on May 19, 2023, to determine if there is any correctable issue causing lower than expected NMOC destruction efficiency.

Ameresco notified the SCAQMD on May 19, 2023, at 12:20 PM PDT of excess NMOC emissions (notification number 747014). The verbal report was made within 72 hours of discovery, as required by Title V Permit Administrative Condition 22(B).

17. What would be the harm to your business during **and/or after** the period of the variance if the variance were not granted?

Economic losses: \$7,500.00 per day (estimated) \_\_\_\_\_

Number of employees laid off (if any): 2 \_\_\_\_\_

Provide detailed information regarding economic losses, if any, (anticipated business closure, breach of contracts, hardship on customers, layoffs, and/or similar impacts).

Average daily revenue for the past year was used to estimate potential lost generation for each day that the Ameresco plant is unable to operate.

18. Can you curtail or terminate operations in lieu of, or in addition to, obtaining a variance? Please explain.

Landfill gas is continuously generated through the decomposition process in the landfill. If the Ameresco plant were shut down, Ameresco would no longer have excess emissions of NMOC. However, the gas from the landfill would still need to be collected by the landfill and--in the absence of Ameresco's operation--the gas would be flared by the landfill rather than used by Ameresco to create electricity.

There would also be a risk of odor issues, as Ameresco understands that the landfill's LFG capture system lacks capacity to control all LFG gas that is generated.

Additionally, Ameresco understands that operation of the turbines benefits the corrective actions being taken to mitigate the conditions that are resulting in an undesirable reaction in the wellfield.

19. Estimate excess emissions, if any, on a daily basis, including, if applicable, excess opacity (the percentage of total opacity above 20% during the variance period). If the variance will result in no excess emissions, insert "N/A" here and skip to No. 20.

Pollutant	(A)	(B)	(C)*
	Total Estimated Excess Emissions (lbs/day)	Reduction Due to Mitigation (lbs/day)	Net Emissions After Mitigation (lbs/day)
NMOC	105.0	0.0	105.0

\* Column A minus Column B = Column C

Excess Opacity: N/A \_\_\_\_\_ %

20. Show calculations used to estimate quantities in No. 19, or explain why there will be no excess emissions.

Estimate is based on the most recent source test results for Turbine #1 and Turbine #2.

$(111.3 \text{ lbs/day} - 12.5 \text{ lbs/day}) + (18.7 \text{ lbs/day} - 12.5 \text{ lbs/day}) = 105.0 \text{ lbs/day excess NMOC}$

TSA flare excess emissions are unquantifiable at this time. The TSA flare combusts approximately 10% of the LFG delivered to the facility as well as waste gas from the TSA regeneration process which also contains NMOCs captured from the turbine fuel. Ameresco expects the TSA flare source test report to be available during the week of May 22, 2023.

21. Explain how you plan to reduce (mitigate) excess emissions during the variance period to the maximum extent feasible, or why reductions are not feasible.

Mitigation is not currently feasible.

Landfill gas is continuously generated through the decomposition process in the landfill. If the Ameresco plant were shut down, Ameresco would no longer have excess emissions of NMOC. However, the gas from the landfill would still need to be collected by the landfill and--in the absence of Ameresco's operation--the gas would be flared by the landfill rather than used by Ameresco to create electricity.

There would also be a risk of odor issues, as Ameresco understands that the landfill's LFG capture system lacks capacity to control all LFG gas that is generated.

22. How do you plan to monitor or quantify emission levels from the equipment or activity(s) during the variance period, and to make such records available to the District? **Any proposed monitoring does not relieve RECLAIM facilities from applicable missing data requirements.**

Ameresco will calculate excess emissions based on the hours of operation multiplied by the hourly NMOC emission rate determined during the most recent source test.

For Turbine #1, the emission rate will be  $111.3 \text{ lbs/day} \times 1 \text{ day/24 hrs} = 4.64 \text{ lbs/hr}$

For Turbine #2, the emission rate will be  $18.7 \text{ lbs/day} \times 1 \text{ day/24 hrs} = 0.78 \text{ lbs/hr}$

The flare emission rate will be quantified in a similar manner once the source test report is received.

23. How do you intend to achieve compliance with the rule(s) and/or permit condition(s)? Include a detailed description of any equipment to be installed, modifications or process changes to be made, permit conditions to be amended, etc., dates by which the actions will be completed, and an estimate of total costs.

When Ameresco operates, it pulls a vacuum on the landfill. By pulling a vacuum, it is helping to limit the reaction in the landfill by removing heat from the reaction areas.



24. State the date you are requesting the variance to begin: 4/25/2023; and the date by which you expect to achieve final compliance: unknown at this time

If the regular variance is to extend beyond one year, you **must** include a **Schedule of Increments of Progress**, specifying dates or time increments for steps needed to achieve compliance. See District Rule 102 for definition of Increments of Progress (see Attachment A, Item 24, Example #3).

List Increments of Progress here:

25. List the names of any District personnel with whom facility representatives have had contact concerning this variance petition or any related Notice of Violation or Notice to Comply.

\_\_\_\_\_. Ext. \_\_\_\_\_  
\_\_\_\_\_. Ext. \_\_\_\_\_


If the petition was completed by someone other than the petitioner, please provide their name and title below.

Nathan W. Hall \_\_\_\_\_ Ameresco Chiquita Energy LLC Sr Vice President – Energy Asset Operations  
\_\_\_\_\_  
Ameresco Asset Holdings IV LLC, its sole member  
\_\_\_\_\_  
Ameresco, Inc., its sole member

Name	Company	Title
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The undersigned, under penalty of perjury, states that the above petition, including attachments and the items therein set forth, is true and correct.

Executed on May 20, 2023, at 30 Danforth St, Ste 108, Portland, ME 04101

 \_\_\_\_\_  
Signature

Nathan Hall \_\_\_\_\_  
Print Name

Title: Sr Vice President – Energy Asset Operations \_\_\_\_\_

26. **SMALL BUSINESS and TABLE III SCHEDULE A FEES:** To be eligible for reduced fees for small businesses, individuals, or entities meeting small business gross receipts criterion [see District Rule 303(h)], you must complete the 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) ☐ a business that meets the following definition of Small Business as set forth in District Rule 102:  
SMALL BUSINESS means a business which is independently owned and operated and meets the following criteria, or if affiliated with another concern, the combined activities of both concerns shall meet these 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 excess emission fee calculations, in accordance with Rule 303(h).

I declare under penalty of perjury that the foregoing is true and correct.

Executed on \_\_\_\_\_, at \_\_\_\_\_, California

Signature \_\_\_\_\_

Print Name \_\_\_\_\_

Title \_\_\_\_\_

**ATTACHMENT A**

**ITEM 1**

Type of Variance Requested:

- (a) **SHORT:** If compliance with District rule(s) can be achieved in **90 days or less**, request a short variance. *(Hearing will be held approximately 21 days from date of filing--10-day posted notice required.)*
- (b) **REGULAR:** If compliance with District rule(s) will take **more than 90 days**, request a regular variance. If the variance request will extend beyond one year, you **must** include a specific detailed schedule of increments of progress [see Page 8, No. 24] under which you will achieve final compliance. *(Hearing will be held approximately 45 days from date of filing--30-day published notice required.)*
- (c) **EMERGENCY:** If non-compliance is the result of an unforeseen emergency, such as a sudden equipment breakdown, power failure, or accidental fire, you may request an emergency variance. You may request an *ex parte* emergency variance in addition to an emergency variance. **An emergency variance cannot be granted for more than 30 days.** *(Hearing will be held within 2 working days from the date of filing, whenever possible, excluding Mondays, weekends, and holidays.) If you request an emergency variance, you must answer No. 4 on page 1.*
- (d) **EX PARTE EMERGENCY:** If variance coverage is required on a weekend or when the Board is not in session, and you cannot wait until an emergency variance hearing can be held, you may request an *ex parte* emergency variance. An *ex parte* emergency variance will be granted or denied solely on the information contained in the petition and the District's response to the petition. Under most

circumstances, an *ex parte* emergency variance will remain in effect only until a hearing can be held. **If you request an *ex parte* variance, you must answer No. 4 on page 1.**

- (e) **INTERIM:** If you require immediate relief (other than for emergencies) to cover the time until a short or regular variance hearing can be held, request an interim variance. If you request an interim variance, you must also request a short or a regular variance on the same petition. (*Hearing will be held approximately 2 working days from date of filing, whenever possible, excluding Mondays, weekends and holidays.*) **If you request an interim variance, you must answer No. 4 on page 1.**

#### **ITEM 4**

**GOOD CAUSE:** The Hearing Board is required to provide public notice of variance hearings, as the public has a right to attend and testify at such hearings. In order for the Hearing Board to hold an Interim, *Ex Parte* Emergency or Emergency Variance hearing without the required public notice, a petitioner must present facts which will support a determination by the Board that "good cause" exists to hear a variance without notifying the public about the variance and providing the public with an opportunity to present evidence concerning the variance.

#### **ITEM 6**

**Example #1:**

Equipment/Activity	Application/ Permit No.	RECLAIM Device No.	Date Application/Plan Denied (if relevant)*
Tenter frame		D32	
Chrome-plating tank	M99999		
Bake oven	123456		
Create special effects (fog)	N/A	N/A	N/A
Mfg., sale, distribution, use of non-compliant coating	N/A	N/A	12/10/95

#### **ITEM 9**

- a) If you are requesting relief from Rule 401 and the excess opacity during the variance period will reach or exceed 40%, you should also request relief from California Health and Safety Code Section 41701.
- b) If you are requesting relief from a permit condition(s), you should also request relief from the rule requiring compliance with conditions of the permit: 202(a), (b) or (c) - Temporary Permit to Operate; 203(b) - Permit to Operate; 2004(f)(1) - RECLAIM Permit; 3002(c) - Title V Permit.

**Example #2:**

Rule	Explanation
404(a)	tenter frame is vented to damaged air pollution control equipment
2004 (f)(1) [Condition No. 28-2 of Facility P/O No. 099999]	source test cannot be conducted as required until new ESP is installed
1113(c)(2)	petitioner manufactures and sells clear wood finishes with VOCs in excess of 350 grams per liter
401(a) & California H&S Code Section 41701	Opacity will exceed 45%.

#### **ITEM 24**

[YOU MAY ATTACH ADDITIONAL PAGES IF NECESSARY]

**Example #3:**

**Sample Schedule of Increments of Progress**

- Permit application(s) will be submitted to the District by [date].
- Contracts for the purchase of emission control systems will be awarded by [date].
- On-site construction will be completed by [date].

(Petition for Variance: Revised February 22, 2011)



English	<i>"If you require a language interpreter in order to participate in the hearing, contact the Clerk of the Board at least five (5) calendar days before your hearing at 909-396-2500 or by e-mail at <a href="mailto:clerkofboard@aqmd.gov">clerkofboard@aqmd.gov</a>. Specify the case name and number, hearing date, and the language for which you are requesting an interpreter."</i>
Farsi	"اگر برای شرکت در جلسه استماع به مترجم نیاز دارید، حد اقل پنج (5) روز تقویمی قبل از جلسه استماع، با منشی هیئت توسط شماره تلفن 909-396-2500 یا بوسیله نامه الکترونیکی با نشانی <a href="mailto:clerkofboard@aqmd.gov">clerkofboard@aqmd.gov</a> تماس بگیرید. نام پرونده و شماره آن، تاریخ جلسه استماع و زبانی را که برای آن مترجم درخواست کرده اید، مشخص کنید."
Arabic	"إذا كنت في حاجة لمترجم من أجل المشاركة في جلسة الاستماع، اتصل بكتائب المحكمة قبل موعد جلسة الاستماع بخمسة (5) أيام على هاتف 2500-2500. حدد اسم ورقم القضية و تاريخ الاستماع واللغة التي تريد في <a href="mailto:clerkofboard@aqmd.gov">clerkofboard@aqmd.gov</a> 909-396-2500 أو بالبريد الإلكتروني على مترجم لها."
Armenian	"Մեզ կարողանալով մասնակցելու համար, եթե խաղաղաման խաղիքն ունենաք, նախքան ձեր ունկնդրությունը, ամենաքիչը հինգ (5) օրացույցային օրից առաջ կապվեք համաձայնեցիքի բարձրագույնի հետ, 909-396-2500 հեռախոսահամարով կամ էլեկտրոնային Դատարանի հետ: <a href="mailto:clerkofboard@aqmd.gov">clerkofboard@aqmd.gov</a> : Նշեք գործի անունը և համարը, ունկնդրության թվականը, և լեզուն, որի համար խաղաղաման էք ցանկանում"
Vietnamese	"Nếu quý vị cần Thông Dịch Viên cho buổi điều trần, xin vui lòng điện-thoại cho Thư Ký Hội Đồng tại số 909-396-2500 trễ nhất là năm [5] ngày, không tính hai ngày Thứ Bảy và Chủ Nhật, trước buổi điều trần hoặc gửi điện thư đến <a href="mailto:clerkofboard@aqmd.gov">clerkofboard@aqmd.gov</a> . Nhớ ghi rõ tên và số hồ sơ, ngày điều trần, và ngôn ngữ quý vị cần có người đề thông dịch."
Chinese	如果你要求翻譯來協助你參加聽證會，請在你的聽證會前至少提前五天（5個日曆日）打電話到909-396-2500或發電子郵件到 <a href="mailto:clerkofboard@aqmd.gov">clerkofboard@aqmd.gov</a> 與局裏的辦事人員聯絡。並且明確說明你的案子的名稱和號碼，聽證日期，以及你要求的翻譯的語種。
Japanese	公聴会（ヒアリング）に参加するために通訳が必要な場合、少なくとも5日前までに事務局（Clerk of the Board）にご連絡ください。電話でのご連絡は909-396-2500、eメールでのご連絡は <a href="mailto:clerkofboard@aqmd.gov">clerkofboard@aqmd.gov</a> までお願いします。その際、案件名（case name）と案件番号（case number）、ヒアリングの日付、通訳が必要な言語を特定して下さい。
Korean	"만약 귀하나 귀하의 증인들이 심리에 참여하기 위해 통역사가 필요하시면, 심리일 5일 전까지 기관부서의 서기에게 909-396-2500으로 연락하시거나, <a href="mailto:clerkofboard@aqmd.gov">clerkofboard@aqmd.gov</a> 로 연락 하십시오. 통역이 필요하신 사건의 이름, 심리날짜, 그리고 언어를 정확하게 말씀해 주십시오."
Spanish	Si usted requiere un intérprete para poder participar en la audiencia, favor de comunicarse con el Secretario de la Junta cuando menos cinco (5) días hábiles antes de su audiencia al teléfono (909) 396-2500 ó por correo electrónico al <a href="mailto:clerkofboard@aqmd.gov">clerkofboard@aqmd.gov</a> . Especifique el nombre y el número de su causa, la fecha de la audiencia y el idioma del cual está solicitando el intérprete.
Tagalog	"Kung kailangan ninyo nang interpreter sa Pilipino para makasali kayo sa pagdinig sa kaso, tumawag lang po kayo sa Clerk of the Board sa numero 909-396-2500 or kung hindi mag-email kayo sa email <a href="mailto:clerkofboard@aqmd.gov">clerkofboard@aqmd.gov</a> . Kailangan na tumawag kayo sa loob nang limang araw (5 days) bago ang inyong hearing date at ibigay and inyong pangalan at case number, araw nang inyong pagdinig sa kaso at inyong gusto na may language na interpreter".
Thai	หากคุณต้องการล่ามในการขึ้นศาล ให้ติดต่อเจ้าหน้าที่ล่วงหน้าอย่างน้อย 5 วันก่อนวันขึ้นศาล โดยติดต่อที่เบอร์โทร 909-396-2500 หรือโดย e-mail ที่ <a href="mailto:clerkofboard@aqmd.gov">clerkofboard@aqmd.gov</a> ให้ออกชื่อและหมายเลขของคดี พร้อมทั้งวันเวลาในการขึ้นศาล และระบุภาษาที่คุณต้องการล่าม






# Chiquita Ex Parte and Regular Variance Petition

Final Audit Report

2023-05-20

Created:	2023-05-20
By:	Andrew McClelland (amcclelland@ameresco.com)
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## "Chiquita Ex Parte and Regular Variance Petition" History

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## FACILITY PERMIT TO OPERATE AMERESCO CHIQUITA ENERGY LLC

21. During normal operation, emissions from the gas turbine shall not exceed the following:

Contaminant	lbs/day
CO	374
NOx (as NO <sub>2</sub> )	126
PM <sub>10</sub>	27
TNMOC (as CH <sub>4</sub> )	12.5
SOx (as SO <sub>2</sub> )	32

[Rule 1303(b)(1)-Modeling, 1303(b)(2)-Offset]

22. Except during periods of startup and shutdown not to exceed 30 minutes per incident, emissions of carbon monoxide (CO) and oxides of nitrogen (NOx) shall not exceed the following limits:

Turbine loads >3000 kW

CO 68 ppmv @ 15% O<sub>2</sub>, dry basis, averaged over 60 minutes

NOx 18.75 ppmv @ 15% O<sub>2</sub>, dry basis, averaged over 60 minutes

Turbine loads ≤ 3000 kW

CO 68 ppmv @ 15% O<sub>2</sub>, dry basis, averaged over 60 minutes

NOx 25 ppmv @ 15% O<sub>2</sub>, dry basis, averaged over 60 minutes

[Rule 204]

23. All records shall be kept for a period of at least five years and shall be made available to South Coast AQMD personnel upon request.  
[Rule 3004(a)(4)]

### Emissions and Requirements:

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

24. CO: 2000 ppmv, dry, 15 min. avg., Rule 407  
CO: 130 ppmv, @ 15% O<sub>2</sub>, dry, Rule 1303  
NOx: 25 ppmv, @ 15% O<sub>2</sub>, dry, Rule 1303  
PM: Rule 404, see Appendix B for emission limits  
ROG: 20 ppmv, as hexane, @ 3% O<sub>2</sub>, dry or 98% (by wt.) destruction efficiency, Rule 1150.1, 40 CFR 60 Subpart WWW  
SOx: Based on 150 ppmv H<sub>2</sub>S concentration in LFG, Rule 431.1  
SOx: < 0.15 lb/mmBtu, 40 CFR 60 Subpart KKKK





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## FACILITY PERMIT TO OPERATE AMERESCO CHIQUITA ENERGY LLC

- 13 Emissions from the flare shall not exceed the following:

Pollutant	lbs/day
CO	18
NOx as NO2	7
PM10	6
ROG	21
SOx as SO2	14

[Rule 1303(a)(1)-BACT, 1303(b)(1) and (b)(2)-Modeling and Offset, 1401]

14. Operation of this equipment shall not result in the release of raw landfill gas into the atmosphere. Any breakdown or malfunction of this equipment resulting in the emission of raw landfill gas shall be reported to the South Coast AQMD within twenty four hours after occurrence and immediate remedial measures shall be undertaken to correct the problem and prevent further emissions into the atmosphere.

[Rule 430]

15. The operator shall operate and maintain this equipment according to the following requirements:

The exhaust temperature shall be maintained at a minimum of 1,500 degrees Fahrenheit whenever the equipment it serves is in operation.

Continuous exhaust temperature monitoring and recording system shall be pursuant to the operation and maintenance requirements specified in 40 CFR Part 64.7. Such a system shall have an accuracy of within  $\pm 1\%$  of the temperature being monitored and shall be inspected, maintained, and calibrated on an annual basis in accordance with the manufacturer's specifications using an applicable South Coast AQMD or EPA approved method.

For the purpose of this condition, a deviation shall be defined as when a temperature of less than 1,500 degrees Fahrenheit occurs during normal operation. The operator shall review the records of temperature on a daily basis to determine if a deviation occurs or shall install an alarm system to alert the operator when a deviation occurs.

Semi-annual reporting specified in Condition No. 23 in Section K, whenever a deviation occurs in which the temperature of the flare falls below 1,500 degrees Fahrenheit, the operator shall take necessary corrective actions as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions. Records of the duration and cause (including unknown cause, if applicable) of the deviation and the corrective actions taken shall be included in the semi-annual reporting.

All deviations shall be reported to the South Coast AQMD on a semi-annual basis pursuant to the requirements specified in 40 CFR Part 64.9 and condition nos. 22 and 23 in Section K of this permit.

The operator shall submit an application with a quality improvement plan (QIP) in accordance with 40 CFR Part 64.8 to the South Coast AQMD if an accumulation of deviations exceeds 5 percent duration of this equipment's total operating time for any semi-annual reporting period specified in Condition No. 23 in Section K of this permit. The required QIP shall be submitted to the South Coast AQMD within 90 calendar days after the due date for the semi-annual monitoring report.

The operator shall keep adequate records in a format that is acceptable to the South Coast AQMD to demonstrate compliance with all applicable requirements specified in this condition and 40 CFR Part 64.9 for a minimum of five years.

[40 CFR Part 64]



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**FACILITY PERMIT TO OPERATE  
AMERESCO CHIQUITA ENERGY LLC**

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16. The owner/operator shall conduct a gas leak detection program with a combustible detector calibrated for methane by inspecting the blowers and all equipment downstream of the blowers. This inspection program shall be conducted once a week. All leaks detected above 500 ppm shall be reported to the South Coast AQMD within 24 hours of detection and repaired within 3 working days of detection. A log showing the results of each inspection shall be maintained and shall be available to South Coast AQMD personnel upon request.  
[Rule 402, 1303(a)(1)-BACT, 1401]
17. All records shall be kept and maintained for at least five years and shall be made available to South Coast AQMD personnel upon request.  
[Rule 3004(a)(4)]

**Emissions and Requirements:**

18. This equipment is subject to the applicable requirements of the following rules and regulations:
- CO: 2000 ppmv, Rule 407
  - CO: 0.06 lb/mmBtu heat input- BACT/LAER
  - NOx: 0.025 lb/mmBtu heat input- BACT/LAER, averaged over a 60 minute time period
  - NMOC: 98% destruction or 20 ppmv, Rule 1150.1, 40 CFR 60 Subpart WWW
  - PM: Rule 404, see Appendix B for emissions limits
  - PM: 0.1 gr/scf, Rule 409

- (C) The design plan shall provide for the control of collected MSW landfill emissions through the use of gas collection and gas control systems meeting the applicable requirements in clauses (d)(1)(C)(i), (d)(1)(C)(ii), (d)(1)(C)(iii), and (d)(1)(C)(iv), or provide for the collection and subsequent sale of collected MSW landfill emissions as specified in clause (d)(1)(C)(v).
- (i) Route all collected landfill gas to a gas control system designed to be operated continuously to reduce methane by at least 99 percent by weight and reduce NMOC by at least 98 percent by weight or reduce the outlet NMOC concentration to less than 20 parts per million by volume (ppmv), dry basis as hexane at 3 percent oxygen. The required reduction efficiency or ppmv shall be established by an initial source test, required under 40 CFR, Part 60, Section 60.8 and annually thereafter using the test methods specified in paragraph (j)(1). The annual source test shall be conducted no later than 45 days after the anniversary date of the initial source test.
- (ii) If an enclosed flare is used as the gas control device, the following requirements shall be met:
- (I) The enclosed flare shall achieve a methane destruction efficiency of at least 99 percent by weight.
- (II) The enclosed flare shall be equipped with an automatic damper, an automatic shutdown device, a flame arrestor, and a continuous recording temperature sensor.
- (III) During restart or startup, an enclosed flare shall have sufficient flow of propane or commercial natural gas to the burners to prevent unburned collected methane from being emitted to the atmosphere.
- (IV) The enclosed flare shall be operated within the parameter ranges established during the initial or the most recent source test. The operating

