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BEFORE THE HEARING BOARD OF THE BAY AREA AIR QUALITY MANAGEMENT DISTRICT STATE OF CALIFORNIA

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5 In the Matter of the Application of

AMERESCO KELLER CANYON RNG LLC

For Short Variance from Regulation 8, Rule 34, Section 412; Regulation 2, Rule 1, Section 307; and Permit Conditions 27707.12 and

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27708.12

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Docket No. 3753

FINDINGS AND DECISION AND ORDER **GRANTING SHORT VARIANCE**

HEARING BOARD MANAGEMENT DISTRICT

This application for a Short Variance was heard on September 17, 2024, pursuant to notice and in accordance with the provisions of California Health and Safety Code Section 40826. Five members of the Hearing Board participated: Chair Valerie J. Armento, Esq.; Vice-Chair Barbara Toole O'Neil, QEP, Ch.E.; Dr. Peter Y. Chiu, M.D., P.E.; Amelia Timbers; and Rajiv Dabir, P.E. The Applicant, Ameresco Keller Canyon RNG LLC, was represented by Andrew McClelland, Environmental Compliance Specialist, of Ameresco Keller Canyon RNG LLC. Respondent, the Air Pollution Control Officer ("APCO") of the Bay Area Air Quality Management District (District), was represented by Misha Nishiki, Assistant Counsel.

The Hearing Board provided the public an opportunity to testify at the hearing as required by the California Health and Safety Code, but no one did so. The Hearing Board heard evidence, testimony and argument from the Applicant and the APCO. The APCO did not oppose the granting of the short variance, so long as certain conditions set forth in a letter to the Hearing Board dated September 16, 2024 were included. The Applicant stated a willingness to comply with the conditions.

The Hearing Board declared the hearing closed after receiving evidence (8 exhibits), presentations and argument. After consideration of the evidence, the Hearing Board voted to grant the request for a short variance, as set forth in more detail below.

Nature of Business and Location of Facility

The Applicant operates a renewable natural gas (RNG) facility which processes landfill gas (LFG) from the Keller Canyon Landfill into pipeline quality natural gas (process S-1.) The Facility is located at 901 Bailey Road, Pittsburg, California, 94565 (Contra Costa County.) Waste gas produced by this process is controlled by one Air Clear Thermal Oxidizer (A-1) rated at 25. 3 MMBtu/hr and one John Zink Enclosed Flare (A-2) rated at 35.8 MMBtu/hr.

Equipment Subject to the Variance Petition

The equipment that is the subject of the petition consists of three main systems used to create RNG from LFG: a temperature swing adsorption system, a CO2 membrane system, and an N2 pressure swing adsorption system. Waste gases from the systems contain carbon dioxide, methane, oxygen, nitrogen, siloxanes, and hydrocarbons. These waste gases are sent to either the thermal oxidizer or the enclosed flare for destruction. The thermal oxidizer is the primary control device. The enclosed flare is used to control waste gases during transient or upset scenarios. The control devices use preprocessed RNG (minimally processed LFG with hydrogen sulfide removed) and natural gas as supplemental fuels to startup and/or maintain combustion temperature.

Background

The Facility received Authority to Construct notice dated June 29, 2022, for Application No. 39577, which included several conditions. The thermal oxidizer was subject to condition 27707 and the enclosed flare was subject to condition 27708. Condition 27707 included a provision for conducting an initial source test: "The first source test for A-1 shall be conducted within 1,440 operating hours, not to exceed 90 days from the date of initial operation of A-1." Similarly, condition 27708 contained an initial source testing requirement for the enclosed flare: "The first

source test for A-2 shall be conducted within 1,440 operating hours, not to exceed 90 days from the date of initial operation of A-2." In April 2024, the District revised both conditions to require the first source test to be conducted within 120 days, rather than 90 days, consistent with District Rule 8-34-412. This made the source test deadlines for both A-1 and A-2 August 22, 2024.

Before Ameresco can conduct an accurate source test of the thermal oxidizer and enclosed flare, Ameresco must satisfy specific Pacific Gas & Electric (PG&E) pre-injection testing requirements. PG&E pre-injection test requirements are governed by PG&E rules, and Ameresco must comply with those requirements prior to injecting RNG into the commercial pipeline. Ameresco began sampling for the PG&E gas testing program on June 19, 2024, and when it filed its application on August 12, 2024 estimated that the PG&E gas test program would be completed by September 1, 2024, which was beyond the August 22 deadline.

During the PG&E testing phase, Ameresco is destroying RNG product gas in the thermal oxidizer and enclosed flare. If Ameresco is required to conduct source testing prior to injecting product gas into the commercial pipeline, the source test will not be representative of normal operations because the waste gas will contain a large volume of pipeline quality RNG which will create a different and likely cleaner emissions profile when combusted.

Following the start of injection into the commercial pipeline, Ameresco will require several weeks to tune the plant so that it can effectively process higher flows of landfill gas.

Ameresco expects that accurate source testing can be accomplished prior to November 22, 2024.

Ameresco proactively took steps to obtain a short variance until the initial source testing can be completed. If Ameresco were required to comply with the current source test deadline, it would expend over \$100,000 to conduct a test that would essentially be meaningless in terms of air

pollutant emissions measurements. A second test would need to be conducted after the plant begins commercial operation, doubling the source testing cost.

Findings of Fact and Conclusions

THE HEARING BOARD FINDS as to those matters in which findings are required:

(a)(l) That the Applicant for a variance is, or will be, in violation of Health and Safety Code

14 Section 41701 or of any rule, regulation or order of the District.

- 1. The need for a variance exists because the Applicant is in violation of Regulation 8, Rule 34, Section 412; Regulation 2, Rule 1, Section 307; and Permit Conditions 27707.12 and 27708.12 (Source Testing). Ameresco filed for the short variance before the regulatory deadline.
- (a)(2) That, due to conditions beyond the reasonable control of the Applicant, requiring compliance would result in either (A) an arbitrary or unreasonable taking of property, or (B) the practical closing and elimination of a lawful business.
- 1. The Applicant is just commencing operations and must comply with PG&E requirements before it can tune the plant to process additional landfill gas necessary to conduct a valid source test. Applicant has no control over PG&E and cannot comply with District conditions so there would be an unreasonable taking.
- (a)(3) That the closing or taking would be without a corresponding benefit in reducing air contaminants.
- 1. There are no current air contaminants, so a closing or taking would not reduce air contamination. No unlawful emissions are anticipated during the variance period.
- (a)(4) That the Applicant for the variance has given consideration to curtailing operations of the source in lieu of obtaining a variance.
- 1. Since the issue is conducting source testing within a prescribed period, curtailing of operations would not resolve the violation. By curtailing or terminating operations, Ameresco would only worsen the compliance deviation by delaying the completion of pre-injection testing and commercial operation which would prevent Ameresco from tuning the plant to process additional

landfill gas necessary to conduct a valid source test. Further, it would not be possible to conduct source testing if the facility curtailed or terminated operations. (a)(5) During the period that the variance is in effect, the Applicant will reduce excess Excess emissions are not anticipated during the short variance period. (a)(6) During the period the variance is in effect, the Applicant will monitor or otherwise quantify emission levels from the source, if requested to do so by the District, and report these emissions levels to the District pursuant to a schedule established by the District. During the short variance period, the Applicant will monitor and quantify emissions. The Applicant has agreed to conditions requested by the District. THEREFORE, good cause appearing, THE HEARING BOARD ORDERS as follows: Regulation 2, Rule 1, Section 307; and Permit Conditions 27707.12 and 27708.12 regarding the

- The Applicant is granted a Short Variance from Regulation 8, Rule 34, Section 412; timing of the source testing of A-1 and A-2, subject to the terms herein.
- The Applicant shall comply with the Conditions attached to the September 16, 2024 letter, attached to this Order as Attachment A, as well as with all applicable District regulations except to the extent explicitly subject to this Short Variance.
- This Short Variance shall go into effect on the date upon which this Order is executed retroactive to August 22, 2024 and shall expire upon the earlier of the satisfactory completion of the

Amelia Timbers, Rajiv Dabir, P.E., Dr. Peter Chiu, M.D., P.E.,

Vice Chair Barbara Toole O'Neil, QEP, Ch.E.,

Chair Valerie J. Armento, Esq.

1	NOES:	None		
2	ABSTAIN:	None		
3	ABSENT:	None		
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7	Valerie J. Armento, Esq., Chair Date			
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II.		ORDER GRANTING	S SHORT VARIANCE - DOCKET I	NO. 3753

ORDER GRANTING SHORT VARIANCE - DOCKET NO. 3753

27708, Part 9.d. on a weekly basis. The waste gas to be analyzed shall be measured at the outlet of A-3. If the portable hydrogen sulfide analysis method is used, the TRS concentration shall be calculated by multiplying the measured hydrogen sulfide (H2S) concentration by 1.2 where (TRS = 1.2 * H2S).

- 4. Ameresco shall send the District updates of the anticipated source test dates for sources A-1 and A-2 on a weekly basis.
- Ameresco shall begin to provide the gas flow and heat input data, flow rate device information, sulfur analysis, and source test date updates (collectively, the "requested information") listed in Sections 1 through 4 above to the District on September 27, 2024. Ameresco shall continue to provide the requested information listed in Sections 1 through 4 above on a weekly basis thereafter.
- 6. Ameresco shall submit the requested information listed in Sections 1 through 4 above to the District via email to the following email addresses: mkiffe@baaqmd.gov, akobayashi@baaqmd.gov, and mnishiki@baaqmd.gov.

1	BEFORE THE HEARING BOARD				
2	OF THE BAY AREA AIR QUALITY MANAGEMENT DISTRICT				
3	STATE OF CALIFORNIA				
4	In the Matter of the Application of Docket No.: 3753				
5	AMERESCO KELLER CANYON RNG LLC CERTIFICATE OF SERVICE				
6	For Short-Term Variance from Regulation 8, Rule 34, Section 412; Regulation 2, Rule 1,				
7	Section 307; and Permit Conditions				
8	27707.12 and 27708.12 SEP 24 2024				
9	STATE OF CALIFORNIA) SS. HEARING BOARD BAY AREA AIR QUALITY				
10	City and County of San Francisco) MANAGEMENT DISTRICT				
11	I, Marcy Hiratzka, do hereby certify under penalty of perjury as follows: That I am a citizen of the United States, over the age of eighteen years and not a party to the above-entitled action; that I served a true copy of the attached Order Granting Short				
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13	Variance on:				
14	Andrew McClelland Richard Peary				
15	Ameresco Keller Canyon RNG LLC rpeary@ameresco.com 111 Speen St., Ste. 410 (E-mail only)				
16	Framingham, MA, 01701 amcclelland@ameresco.com				
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18	by depositing same via email and in the United States certified mail, return receipt requeste on September 24, 2024 and on:				
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20	Misha Nishiki, Esq., Assistant Counsel I Bay Area Air Quality Management District mnishiki@baaqmd.gov				
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23	via email September 24, 2024				
24	DATED: September 24, 2024				
25	Marcy Hiratzka Clerk of the Boards				
26	CICIK OF THE BOARDS				
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