DOCKETED	
Docket Number:	20-SPPE-03
Project Title:	Gilroy Backup Generating Facility
TN #:	237352
Document Title:	GBGF Noise Analysis Memorandum
Description:	N/A
Filer:	Scott Galati
Organization:	DayZenLLC
Submitter Role:	Applicant Representative
Submission Date:	3/30/2021 1:02:29 PM
Docketed Date:	3/30/2021

Trinity Consultants

MEMORANDUM

To: California Energy Commission

cc: Scott Galati, DayZen LLC

From: Jafar Al-Khalaf, David Strohm, Trinity Consultants

Date: March 29, 2021

RE: Gilroy Backup Generating Facility Environmental Noise & Vibration Assessment Addendum

The purpose of this memorandum is to provide an addendum to the Environmental Noise & Vibration Assessment originally submitted to the California Energy Commission (CEC) in November 2020 for the proposed Gilroy Data Center to be located at Camino Arroyo, Gilroy, California (the Project).

In response to the Bay Area Air Quality Management District's (BAAQMD's) publication of a revised Best Available Control Technology (BACT) guideline for diesel-fired emergency generators rated greater than or equal to 1,000 brake horsepower (bhp) requiring Tier 4F-compliant engines, Amazon Data Services (ADS) authorized its consultant team to evaluate the noise impacts of a Tier 4F-compliant solution in comparison to the analysis submitted for the original Tier 2 design. The changes associated with the Tier 4F-compliant solution include a selective catalytic reduction (SCR) and diesel oxidizing catalyst (DOC) retrofit, an increase in the generator plenum height to 32 feet, and an increase in stack diameter to 26 inches.

The noise-generating components involved with the generators are the following:

- Mechanical sound that is controlled by the generator enclosure.
- Stack sound controlled by the stack silencer.

The Tier 4F-compliant solution does not affect the original Tier 2 design's generator enclosure nor stack silencer. It is also anticipated that the SCR and DOC retrofit does not contribute significant noise-generating components. As such, the noise generated from the generator stack will remain the same as that for the Tier 2 design at the manufacturer-rated sound pressure level of 85 dBA at 23 feet.

It was also confirmed with the generator vendor that the Tier 4F-compliant solution will not affect the sound power levels associated with the generator components. Therefore, Trinity's noise assessment for the Tier 2 design is still applicable to the Tier 4F-compliant solution and no additional assessment is required.

For questions regarding this memorandum or the noise assessment, please feel free to contact me at (647) 470-0067 or email jalkhalaf@trinityconsultants.com.

Sincerely,

TRINITY CONSULTANTS

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