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RAMBOLL

ENVIRONMENT
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MEMORANDUM

To: Simon Casey
Vantage Data Centers

From: Kristen Wallace
Ramboll US Consulting, Inc.

Subject: **Review of Proposed Design Changes for the Vantage CA3 Data Center Project on Noise Impact Conclusions Santa Clara, California**

Date November 1, 2021

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1 Introduction

Ramboll US Consulting Inc. ("Ramboll") was asked by Vantage Data Centers ("Vantage") to evaluate whether proposed design changes at Vantage's CA3 Project would alter the conclusions presented in Ramboll's noise study that was submitted to the California Energy Commission (CEC) in Vantage's Small Power Plant Exemption application. Ramboll understands that the proposed design changes are being made in response to comments received from the City of Santa Clara.

2 Proposed Design Changes

The proposed design changes include the following:

- Altering the shape and location of the office/administration space previously proposed for the northwest corner of the data center building to be a long and narrow strip of space along the western edge of the data center building, and

- Reducing the footprint of the data center building by 8 feet on the southern edge to accommodate a fire lane.

Ramboll reviewed the changes to the building footprint and confirmed that the changes would not result in any changes to the size, location, or elevation of the building noise sources. Nor would the building modifications alter the size and location of the rooftop screening wall that is proposed around the southern half of the chiller gantry.

3 Noise Consequences of Design Changes

At the nearest residential receivers to the site, the original noise study found that the Facility would easily comply with the daytime noise limit of 55 dBA during both standard mechanical operations (i.e., operation of cooling and ventilation equipment and substation transformers) and during generator maintenance. In addition, the study concluded that the Facility would comply with the nighttime noise limit of 50 dBA during nighttime mechanical operations. No nighttime generator maintenance is proposed.

Because the building modifications would not relocate or alter the elevations of the generators, rooftop chillers, or chiller sound wall (affixed to the gantry), they are not expected to substantively change the noise modeling results. Therefore, the previous conclusions regarding noise impacts are still valid, the Facility is still expected to be in compliance with the applicable local noise limits, and no significant noise impacts are anticipated.