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**CALIFORNIA  
ENERGY COMMISSION**



**CALIFORNIA  
NATURAL  
RESOURCES  
AGENCY**

October 19, 2022

STACK Infrastructure  
C/O Scott A. Galati  
1720 Park Place Drive  
Carmichael, California 95608

**Data Requests Set 3 for STACK Trade Zone Park (21-SPPE-02)**

Dear Scott Galati:

Pursuant to California Code of Regulations, Title 20, sections 1941 and 1716, the California Energy Commission (CEC) staff is asking for the information specified in the enclosed Data Requests Set 2, which is necessary for the staff analysis of the STACK Trade Zone Boulevard Technology Park (STACK Trade Zone Park) (21-SPPE-02). The STACK Trade Zone Park would include an advanced manufacturing building (AMB), the SVY Data Center, the SVY Backup Generating Facility, a parking garage, and related utility infrastructure, which together constitute the "project" under the California Environmental Quality Act (CEQA). This Data Requests Set 3 seeks further information in the areas of air quality, cultural and tribal cultural resources, greenhouse gas emissions, hazards and hazardous materials, and noise based on the contents of the application submitted thus far and the responses to Data Requests Set 1 and Set 2. Staff may submit subsequent data requests in these, and other resource areas based on further information received or as necessary for a complete analysis of the project.

Responses to the data requests are due to staff within 30 days. If you are unable to provide the information requested, object to providing the requested information, or need to revise the timeline, please send written notice to me and the Committee within 20 days of receipt of this letter. The written notification must contain the reasons for not providing the information, the grounds for any objections, or reason(s) for the need to revise the timeline (see Cal. Code Regs., tit. 20, § 1716 (f)). If you have any questions, please email me at [lisa.worrall@energy.ca.gov](mailto:lisa.worrall@energy.ca.gov).

Lisa Worrall

Project Manager

Enclosure: Data Requests Set 3

**STACK TRADE ZONE PARK SPPE  
DATA REQUESTS SET 3**

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# STACK TRADE ZONE PARK SPPE DATA REQUESTS SET 3

## **AIR QUALITY**

**Author:** Andres Perez

### **BACKGROUND: Calculations for Volatile Organic Compounds**

Atmospheric fuel storage tanks emit volatile organic compounds (VOCs) through two pathways: breathing losses from the normal evaporation of the fuel in the tank and working losses resulting from increased evaporation during filling operations. Page 91 of the SPPE application (TN 240910) states that “each pair of stacked engines will be accompanied by two (2) diesel fuel tanks, i.e., a 12,000- gallon tank at the bottom of the engine pair, and 500-gallon tank under the upper engine of the pair”.

Page 91 of the SPPE application also states that VOC working and breathing loss emission calculations for the generator diesel fuel tanks are presented in Appendix AQ-1 (TN 240911-1). However, staff review of Appendix AQ-1 found that the calculations were not included.

Additionally, the revised project description (TN 246142) submitted on September 19, 2022, states that one additional 1-MW diesel generator will be included in the project. Staff requests that the calculations used to quantify fuel tank VOC emissions be provided and that any changes due to the revised project description be included as well.

Staff review of the updated air quality impact analysis (TN 246369) submitted on October 6, 2022, found that updated fuel tank VOC emissions were not included.

### **DATA REQUESTS**

86. Please provide the calculations used to quantify the working and breathing losses from the VOCs in the generator diesel fuel tanks.

87. If spreadsheets are used for these calculations, please provide copies of the spreadsheets with embedded calculations live and intact.

## **CULTURAL AND TRIBAL CULTURAL RESOURCES**

**Authors:** Roger Hatheway and Lauren DeOliveira

### **BACKGROUND: Gap in Study Coverage**

The figures were prepared for the revised archaeological resources assessment (ARA). PDF Page 8, Paragraph 5 of the ARA defines Project Site and Project Area as – “The Project site (Figure 1-3) is an area defined by all Project related construction, including the proposed new building location, and the length of and both ends of the proposed new above and below ground transmission line.” “Following a data request from the

## **STACK TRADE ZONE PARK SPPE DATA REQUESTS SET 3**

CEC, the Project area (Figure 1-4) is defined as the Project site and a one-building-band buffer around it.”

The Project Site and Project Area are depicted on Figure 1-4 (ARA PDF Page 12) of the revised *Cultural Resource Assessment for the 1849 Fortune Drive And 2400 Ringwood Avenue Project, San José, Santa Clara County, California*. However, in the vicinity of Fortune Drive, there appears to be a “gap” in coverage on the east and west sides of the Project Site where the Project Site is not surrounded by a one-building-band depicted as the Project Area.

### **DATA REQUEST**

88. The current Figure 1-4 “gap” appears to contradict the ARA definition of Project Area as a one-building-band around the Project Site. Please revise Figure 1-4 with explanations in text, and/or conduct any additional survey and research necessary to eliminate this “gap.”

Minimally, this may require the survey and evaluation of the two buildings diagonally to the southeast and southwest of the “gap.” By way of example, near the intersection of McCandless Drive, Montague Expressway, and Trade Zone Boulevard, the Project Area extends diagonally well beyond the ends of the Underground Transmission Line and the Overhead Transmission Line or the western end of the Project Site.

Alternatively, the simple extension of the Project Area boundary to the south revising Figures 1-4 to eliminate the “gap” might suffice if PaleoWest staff believe that they have already adequately surveyed this area (this determination might depend on APN boundaries). Regardless, the survey and evaluation of the two buildings diagonal to the “gap,” or the simple revising of Figures 1-4 with explanations in text, are requested in order to facilitate the required consideration of all built environment features within a one-building-band of the Project Site.

### **GREENHOUSE GAS EMISSIONS**

**Author:** Wenjun Qian

#### **BACKGROUND: Generator for the Advanced Manufacturing Building**

The revised project description (TN 246142) states that the capacity of the emergency backup generating facility would be increased from 90 MW to 91 MW because of the addition of one 1-MW diesel-fired backup generator for the Advanced Manufacturing Building (AMB). However, the response to CEC staff Data Requests Set 2 number 64 (TN 245892) confirmed that the AMB would need 3 MW of electricity. Staff needs clarification regarding how the additional 1-MW diesel-fired backup generator would be able to provide enough electricity for the 3-MW AMB during an emergency.

## **STACK TRADE ZONE PARK SPPE DATA REQUESTS SET 3**

### **DATA REQUEST**

89. Please clarify how the additional 1-MW diesel-fired backup generator would be able to provide enough electricity for the 3-MW AMB during an emergency.

### **BACKGROUND: Natural Gas for Comfort Heating**

Page 88 of the SPPE application states that emissions from natural gas use for comfort heating were included in the secondary operational emissions calculation. However, on December 1, 2020, the San José City Council approved an ordinance, known as a building “reach code” (Ordinance No. 30502), to prohibit natural gas infrastructure in all new construction in San José, starting on August 1, 2021. The ordinance provides an exception until December 31, 2024 for hospitals and for facilities with a distributed energy resource and a limited exemption for manufacturing and industrial facilities. Staff needs clarification whether the project would use natural gas for comfort heating. If not, staff needs to confirm whether the project would use electric heating and whether the electricity used for comfort heating would be accounted for in the total maximum energy consumption of 93 MW.

### **DATA REQUESTS**

90. Please clarify whether the project would use natural gas for comfort heating.

91. Please confirm whether the project would use electric heating.

92. Please confirm whether the electricity used for comfort heating would be accounted for in the total maximum energy consumption of 93 MW.

### **BACKGROUND: Hydrofluorocarbon Sale and Distribution Prohibition**

On September 30, 2022, the Governor approved Senate Bill (SB) 1206 ([https://leginfo.legislature.ca.gov/faces/billNavClient.xhtml?bill\\_id=202120220SB1206](https://leginfo.legislature.ca.gov/faces/billNavClient.xhtml?bill_id=202120220SB1206)), which would prohibit a person from offering for sale or distribution, or otherwise entering into commerce in the state, bulk hydrofluorocarbons (HFCs) or bulk blends containing HFCs that exceed a specified global warming potential limit beginning January 1, 2025, and; lower global warming potential limits beginning January 1, 2030, and January 1, 2033. However, the bill does not restrict the authority of the California Air Resources Board (CARB) to establish regulations lowering the maximum allowable global warming potential limit below the limits established by the bill.

Given the restrictions established by the bill and the potential for more stringent limits to be imposed by CARB in the future, staff needs to know how the proposed refrigerant for the air-cooled chillers, R-134a, would be initially charged, handled during maintenance and repair, and replenished after the sale and distribution prohibition timelines established in SB 1206.

# STACK TRADE ZONE PARK SPPE DATA REQUESTS SET 3

## DATA REQUEST

93. Please explain how the proposed refrigerant for the air-cooled chillers, R-134a, would be initially charged, handled during maintenance and repair, and replenished after the sale and distribution prohibition timelines established in SB 1206.

## HAZARDS AND HAZARDOUS MATERIALS

**Author:** Aurie Patterson

### **BACKGROUND: Building Demolition Hazardous Material Identification and Handling**

The project calls for demolition of the two existing buildings and infrastructure that cannot be reused. This will generate a significant volume of waste material. Demolition of the buildings may require the handling, storage, and disposal of waste materials that are classified as hazardous materials or that have been contaminated by hazardous materials use during former business operations.

### **DATA REQUESTS**

94. Please describe the materials management measures that are planned for prior to and during demolition activities to identify hazardous materials or contaminated materials in the buildings, and strategies for separation and storage of these materials, and disposal of these materials at an appropriate facility or landfill.
95. Please provide an estimate of the volume and types of waste material that will be generated by project demolition.

### **BACKGROUND: Hazardous Materials Used During Construction**

The project will include grading and construction of several buildings, a switchyard, a parking structure, generator enclosures, and miscellaneous above and below ground infrastructure. The construction contractor will likely use and store various hazardous materials onsite during construction.

### **DATA REQUEST**

96. Please describe what types of hazardous materials would or may be stored and used onsite during project construction, including:
- Where and how would these materials be stored?
  - Would any equipment fueling take place onsite during construction activities?
  - Please describe measures to reduce the potential for leaks or spills of hazardous materials and measures to be taken if leaks were to occur.

# STACK TRADE ZONE PARK SPPE DATA REQUESTS SET 3

## **NOISE**

**Author:** Ken Salyphone

### **BACKGROUND: Cooling Unit Noise**

The SPPE application (TN 242506 and TN 242507) provided the project's noise assessment with 78 cooling units accounted for, 30 units on the rooftop of the northern data center building, SVY05, and 48 cooling units on the rooftop of the southern data center unit, SVY06. There was no mention of any units on the rooftop of the advanced manufacturing building (AMB). However, the revised Noise Mitigation Assessment (TN 244212), filed with the Energy Commission's Docket after the filing of the SPPE application, lists a total of 121 cooling units: 69 on the rooftop of the three northern buildings (SVY05, AMB, and associated office building), and 52 units on the rooftop of the southern data center building, SVY06.

It is unclear if the original Noise Mitigation Assessment (TN 244212) accounts for all the 121 cooling units, as it has apparently assumed the project's noise level impacts with the original 78 units on the rooftops of the data center buildings with no mention of any units on the rooftop of AMB (SPPE application Tables 3.13-6 & 3.13-7).

### **DATA REQUESTS**

97. If the noise impacts of all the 121 cooling units have been considered by the project applicant, please provide supporting documents.
98. If the noise impacts of all the 121 cooling units have not been considered, please provide the following:
  - a. An identification of the placement and number of the cooling units on each of the project's buildings.
  - b. An updated project noise assessment and contour map that include the project's operational noise impacts, with these units incorporated, at receivers R1 through R7 (identified in the SPPE application).
  - c. A list of any mitigation measures to reduce noise impacts at these receivers, if additional measures beyond those identified in the Noise Mitigation Assessment are needed for the project to comply with the city's noise limits.

### **BACKGROUND: Generator Noise**

The Revised Project Description (TN 246142) revises the total number of backup generators, with the addition of a 1-MW generator that would be installed near the southwest corner of the AMB. This revised filing does not assess the noise impacts from testing and maintenance of the additional 1-MW genset during normal operations, which include all the cooling units, on nearby receptors.



## **STACK TRADE ZONE PARK SPPE DATA REQUESTS SET 3**

### **DATA REQUEST**

99. Provide an updated project noise assessment and contour map from testing and maintenance of the additional 1-MW genset during normal operations, at receivers R1 through R7 (identified in the SPPE application).