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**Petition for Modification
Tanager Battery Energy Storage System Project**

Data Response Set 6B

**Los Esteros Critical Energy Facility
03-AFC-02C**

Submitted to
California Energy Commission

Submitted by
Los Esteros Critical Energy Facility, LLC

October 27, 2026

**LOS ESTEROS CRITICAL ENERGY FACILITY (03-AFC-02C)
PETITION FOR MODIFICATION- TANAGER BESS PROJECT
DATA RESPONSE SET 6B**

Los Esteros Critical Energy Facility, LLC, on behalf of Tanager Power, LLC, provides this data response, Data Response Set 6B, relating to the Tanager Battery Energy Storage System (“BESS”) Project (“Project”).

Technical Area: Project Description

Response: Provided below is a redlined version of the project description for the Tanager BESS Project that conforms the project description provided in the Petition for Modification to subsequent information and data responses filed on behalf of the Project.

LECEF is an operational 320-MW combined-cycle power plant located in the City of San Jose at 800 Thomas Foon Chew Way. The LECEF site is located on Assessor Parcel No. 015-31-072. The Tanager BESS Project will be co-located on the same parcel, north of Aviso Milpitas Rd. and south of the LECEF just outside of the existing fence line. The Tanager BESS Project will be located on the former laydown and parking area for the LECEF facility, which is currently disturbed and covered by fill and gravel. A site plan for the Tanager BESS Project is provided as Appendix B to this Petition.

Construction is expected to commence in the first quarter of 2026~~7~~, with an anticipated commercial operations date in the first or second quarter of 2027~~8~~.¹ Construction is expected to last approximately 12 months, with an estimated 200 - 250 total construction jobs created. The Project is expected to employ an average construction monthly workforce of approximately 60–80 workers, with peak construction employment of approximately 100–120 workers during the most labor-intensive construction activities.²

The Tanager BESS Project consists of the following primary components:

- **Installation of a nominal 200-MW lithium-ion (“Li-ion”) battery energy storage system, with approximately ~~1600~~ 800 MWh of energy storage discharge capacity.**

The Tanager BESS Project will utilize a containerized battery energy storage system. The dimensions of the battery containers will be dependent upon the technology selected, which will be finalized during the detailed design process post-approval of this Petition. ~~It is anticipated that the BESS containers will be approximately 25 feet high.~~ The estimated dimensions for Project features are as follows³:

<u>Project Features</u>	<u>Estimated Dimensions</u>
Electrical Control Enclosure	<u>40ft L x 15ft W x 10 ft H</u>
Inverters	<u>21ft L x 8ft W x 10ft H</u>

¹ Data Response Set 2A, Data Response A49 (TN: 268416).

² Data Response Set 4A, Data Response A88 (TN: 271385).

³ Data Response Set 4A, Data Response A87 (TN: 271385).

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<u>Project Features</u>	<u>Estimated Dimensions</u>
HV Breaker	8ft L x 6ft W x 18ft H
Security wall/fences	6ft H
Main power transformer	30ft L x 13ft W x 26ft H
Aux transformer skids	30ft L x 10ft W x 10 ft H
Battery Containers	20ft L x 8ft W x 10ft H
MV Breaker	6ft L x 6ft W x 11ft H

The battery containers will be placed on either concrete foundations or elevated from grade on pile foundations. If foundations are utilized, foundation depths for BESS equipment would require the excavation of soil to a depth of approximately five feet, with corresponding excavation depths. The installation of piles, if utilized, would be to a depth of up to 15 feet below grade.⁴ Except for the concrete foundations for the battery containers, grading is not expected to exceed a depth of 1-2 feet and would be similar to the depth of soil that was disturbed during construction of the LECEF.⁵ Excavation depths for generation-tie line poles are estimated to be 60 feet, and driven pile depths estimated at 15 feet.

- **A new, approximately 0.53-mile generation-tie line from the Tanager BESS Project to the PG&E 230-kV bus at the Los Esteros Substation, primarily traversing south to north along the eastern boundary of the LECEF site.**

The Tanager BESS Project will interconnect to the California Independent System Operator (“CAISO”) controlled grid at the Pacific Gas and Electric Company (“PG&E”) 230-kV bus at the Los Esteros Substation via a new, approximately ~~0.5~~ 0.3 mile 230-kV gen-tie line.⁶ The Tanager BESS Project will also include a 230-kV switchyard and generator step-up (“GSU”) transformer. The Project will include a breaker rated at 245kV, with a rated short circuit current of 63000A.⁷ ~~The batteries’ collection systems will feed connect into a the new Tanager switchyard at 34.5-kV gen-tie line, which will be constructed through the existing LECEF landscaping berm, to the new Tanager 34.5-/230 kV switchyard located within the security fence of the LECEF.~~ At this location, a GSU transformer will step the voltage up from 34.5-kV to the 230-kV level needed for transmission interconnection. From the Tanager 34.5-/230-kV switchyard, the electricity will travel north via the above ground 230-kV gen-tie line. In the northeastern corner of the parcel, the gen-tie line will transition to an underground system. The gen-tie will continue underground past the Silicon Valley Power (“SVP”) switchyard to the “PG&E Los Esteros Sub” at the Point of Interconnection (“POI”).

⁴ TN: 273039.

⁵ Data Response Set 1, Data Response A14 (TN: 266305).

⁶ Data Response Set 4B, Data Response A85 (TN: 271482).

⁷ Data Response Set 1, Data Response A5 (TN: 266305).

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Estimated Type, Estimated Number, and Heights of Transmission Poles⁸

<u>Item</u>	<u>Estimated Value for Tanager BESS Gen-Tie</u>
<u>Voltage</u>	<u>230 kV</u>
<u>Structure type</u>	<u>Steel monopole transmission structures</u>
<u>Gen-tie length</u>	<u>~0.3 miles (~1,500 feet)</u>
<u>Estimated number of overhead structures</u>	<u>Three poles, as shown in Fig DRA82-1, plus one H-frame in the substation footprint</u>
<u>Pole height</u>	<u>Approximately 110-120 feet</u>

- **Installation of a new revenue meter for monitoring battery charging and discharging activity.**

While the LECEF and Tanager BESS Projects will be co-located on the same parcel, the two facilities have separate metering equipment and different CAISO Resource ID numbers. The Tanager BESS Project will be charged exclusively from the grid.

- **Modifications to the existing LECEF.**

Modifications to the LECEF control room will be required to facilitate monitoring of the Tanager BESS Project and related switchyard from the modified LECEF control room by personnel common to LECEF and the Tanager BESS Project, including monitoring of the Tanager BESS Project's fire alarms. The existing LECEF fire loop will be extended into the Tanager BESS Project area and additional hydrants will be added at intervals recommended by the local fire department.

The Tanager BESS Project will also require ~~the additional of a third entrance(s) to the parcel and a new internal road connecting the LECEF and Tanager BESS Project areas.~~ The additional entrance(s) is internal road will provide multiple internal and external access points, allowing personnel to move within and between the LECEF and Tanager BESS Project and may be used for emergency access if needed. Stormwater from the Tanager BESS Project will be connected to and will discharge into the existing stormwater control system designed and constructed to serve the facility.

The CEC's Final Decision for LECEF Phase 2 required the installation of a berm, trees, and landscaping on the former laydown and parking area. The Tanager BESS Project will require the removal of certain LECEF facilities, including a portion of the berm, as well as some of the trees and landscaping, all of which were dedicated to mitigating potentially significant environmental impacts of LECEF

⁸ Data Response Set 4B, Data Response A86 (TN: 271482).