

ANNUAL PROGRESS REPORT

Collinsville 500/230 kV Substation Project

Submitted by:
LS Power Grid California, LLC
March 1, 2024
www.LSPGridCalifornia.com

2024 Request for Waiver of “Significant Impact” Status

LS Power Grid California, LLC (LSPGC) respectfully submits this request for Waiver of “Significant Impact” Status pursuant to Section 3 of the WECC Progress Report Policies and Procedures for the Collinsville 500/230 kV Substation Project.

LSPGC has provided the information outlined in Section 3 of the WECC Progress Report Policies and Procedures in **Appendix I**. As described in further detail therein, LSPGC expects the project will not have a significant impact on the operation of the Western Interconnection, and as such, qualify for a waiver pursuant to Section 3 of the WECC Progress Report Policies and Procedures.

Appendix I

a. Project Name

Collinsville 500/230 kV Substation Project

b. Project Purpose

In its 2021-2022 Transmission Plan¹ the California Independent System Operator (CAISO) identified a Policy-driven need for the Collinsville 500/230 kV Substation Project (Project) to address constraints impacting the deliverability of resources that are needed to meet the State's policy goals and resource adequacy needs. The Project effectively eliminates multiple constraints within the Greater Bay Interconnection Area. Additionally, the Project will contribute to an increased supply for the 500 kV system in the northern Greater Bay Area, enhancing reliability and promoting further development of renewable generation in the northern region.

Following approval of the Transmission Plan, the CAISO initiated an open, competitive solicitation in 2022-23, which provided project sponsors the opportunity to submit proposals to finance, construct, own, operate, and maintain the Project. Through this competitive solicitation process, the CAISO then selected LS Power Grid California, LLC (LSPGC) as the Approved Project Sponsor for the Project.

LSPGC is not seeking an Accepted Rating and therefore the Project will not enter into the path rating process.

c. Brief Project Description, Including Expected Termination Points

LSPGC's scope for the Project includes:

- New Collinsville 500/230 kV substation including a fixed series capacitor on the Collinsville – Tesla 500 kV line
- New ~6-mile long double-circuit 230 kV transmission line that consists of ~1.5 miles of overhead lines and ~4.5 miles of submarine cables from the new Collinsville Substation to the existing PG&E Pittsburg Substation.

Points of Interconnection with PG&E include:

- Loop in of Vaca Dixon – Tesla 500kV line
- Two 230kV bus positions at Pittsburg Substation

¹ <http://www.caiso.com/InitiativeDocuments/ISOBoardApproved-2021-2022TransmissionPlan.pdf>

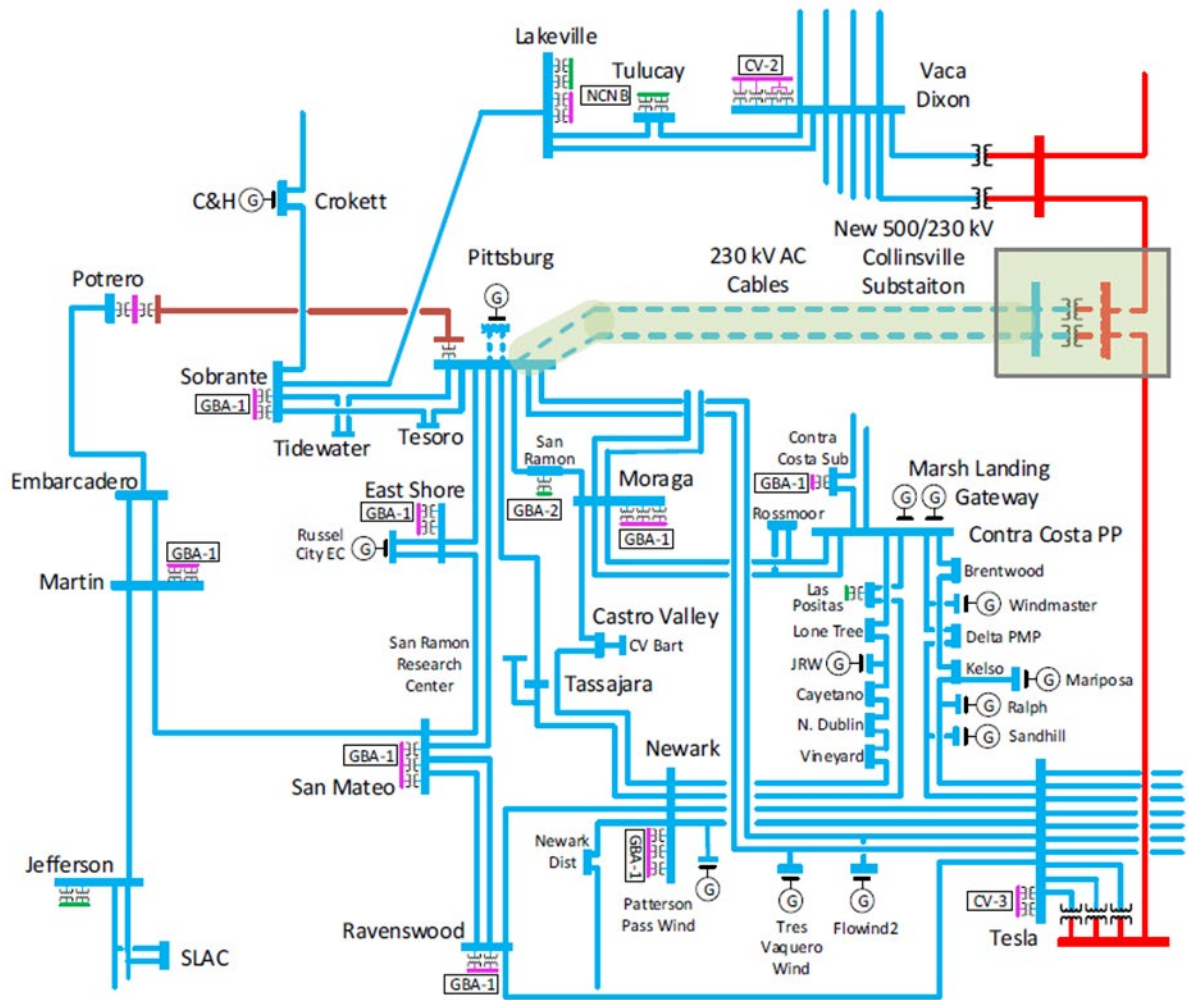


Figure 1: Location of Collinsville 500/230kV Substation Project

d. Expected Date of Release to Operations

The planned in-service date is June 2028.

e. Expected Operating Voltage

500 kV and 230 kV AC

f. Explanation of Why the Project is Not Expected to Have a Significant Impact on the Operation of the Western Interconnection.

The Project is not expected to have a significant impact on the operation of the Western Interconnection. The Project was coordinated through the open stakeholder process

under the CAISO transmission planning process (TPP). The Project is not directly connecting to or modifying any of the existing WECC paths.

The CAISO performed power flow contingency analyses based on the CAISO Planning Standards which are based on the NERC reliability standards and WECC regional criteria. The transmission system was evaluated under normal system conditions (NERC Category P0) against normal ratings and normal voltage ranges, as well as emergency condition contingencies (NERC Category P1-P7) against emergency ratings and emergency voltage range.

Post Transient analyses was conducted to determine if the system is in compliance with the WECC Post Transient Voltage Deviation Standard in the bulk system assessments and if there are thermal overloads on the bulk system.

Transient stability analyses was also conducted as part of bulk area system assessment for critical contingencies to determine if the system is stable and exhibits positive damping of oscillations and if transient stability criteria are met as per WECC criteria and ISO Planning Standards.

There were no high or low voltages observed in the 500 kV system under the normal system conditions or contingencies.

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