



**BEFORE THE PUBLIC UTILITIES COMMISSION
OF THE STATE OF CALIFORNIA**

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Application of LS Power Grid California, LLC (U-247-E) for a Certificate of Public Convenience and Necessity Authorizing Construction of the Power the South Bay Project.

Application 24-05-014
(Filed May 17, 2024)

**FIRST AMENDED APPLICATION OF LS POWER GRID
CALIFORNIA, LLC (U-247-E) FOR A CERTIFICATE OF
PUBLIC CONVENIENCE AND NECESSITY
AUTHORIZING CONSTRUCTION OF THE POWER THE
SOUTH BAY PROJECT**

[PUBLIC VERSION]

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[PUBLIC VERSION]

Pursuant to the California Public Utilities Code, General Order (GO) 131-D,¹ and the Commission's Rules of Practice and Procedure, LS Power Grid California, LLC (LSPGC) respectfully submits this First Amended Application (Amended Application) for a Certificate of Public Convenience and Necessity (CPCN) Authorizing Construction of the Power the South Bay Project (Project).

It is necessary to amend the original application filed on May 17, 2024 (Original Application), due to modifications to the project as presented in the Original Application, approved by the California Independent System Operator (CAISO) on November 12, 2024. The CAISO Board approved modification of the scope of the Project to a 230 kilovolt (kV)

¹ Application 24-05-014 was filed in compliance with GO 131-D and accepted as complete on June 13, 2024. On January 30, 2025, the Commission adopted GO 131-E, which replaced and superseded GO 131-D, in Decision 25-01-055. This Amended Application will continue to refer to the provisions of GO 131-D but will also make reference to the corresponding provisions of GO 131-E.

alternating current (AC) transmission line project to better meet reliability demands resulting from an expected increase in load growth and the transition to a more robust long-term plan for the South Bay. As a result of this change, references to direct current (DC) transmission equipment in the Original Application will be replaced, as appropriate, with references to AC equipment in the revised Project, as authorized in the *Administrative Law Judge's Ruling Granting Applicant's Motion to Amend its Application*, issued on February 10, 2025. Reflecting this change to the Project's scope requires amendments to certain of the Appendices to the Original Application, specifically the Approved Project Sponsor Agreement (Appendix A), Map of the Project (Appendix C), the Project Cost Estimate (Appendix D), the Project Implementation Plan (Appendix E), and the Electric and Magnetic Fields Management Plan (Appendix G). In addition, certain sections of the Proponent's Environmental Assessment (Appendix B) will be supplemented.

Finally, recent decisions of the Commission affect some of the requests for exemption made in the Original Application, and the Amended Application makes note of these recent decisions.

I. INTRODUCTION

The Power the South Bay Project, also known as the Newark – Northern Receiving Station Project, is a reliability-driven addition to the transmission system operated by the CAISO. The CAISO identified the need for a high voltage connection from the Newark 230 kV substation owned by Pacific Gas and Electric Company (PG&E) to the Northern Receiving Station (NRS) 230 kV substation owned by Silicon Valley Power (SVP). The CAISO awarded the primary scope of the connection, the Project, to LSPGC. In addition to the Project being undertaken by LSPGC, certain interconnection facilities and distribution upgrades are necessary

to implement the Project and will be the responsibility of PG&E and SVP. This Amended Application seeks a CPCN for only the Project, not the interconnection facilities..

II. PROJECT OVERVIEW

A. Project Summary

The Project consists of one approximately 12-mile Newark to NRS 230 kV AC transmission line, with overhead and underground segments, connecting the existing PG&E Newark substation to the existing SVP NRS substation.

Once constructed, the Project will become part of the transmission system controlled by the CAISO. LSPGC will finance, develop, construct, own, operate, and maintain the Project. The costs of the Project will be recovered solely through transmission rates as part of the CAISO's Regional Transmission Access Charge (TAC), subject to review and approval by the Federal Energy Regulatory Commission (FERC),² which exercises jurisdiction over rates for interstate transmission service.

B. CAISO Transmission Planning

As part of the 2021-2022 Transmission Planning Process, the CAISO staff undertook a comprehensive evaluation of the CAISO transmission grid to address grid reliability requirements and to ensure compliance with applicable North American Electric Reliability Corporation (NERC) reliability standards and the CAISO planning standards and tariff requirements. The CAISO staff performed this analysis for a 10-year planning horizon, modeled

² LSPGC has an accepted transmission formula rate as part of its transmission owner tariff on file at FERC, including cost containment provisions for the Project that are consistent with the terms of Appendix E of the original Approved Project Sponsor Agreement between LSPGC and the CAISO, attached as Exhibit A to the Original Application. LSPGC expects to file updates at FERC to its transmission formula rate with revised cost containment provisions consistent with the terms of the First Amended and Restated Approved Project Sponsor Agreement, which will be provided in a supplemental filing as Appendix I to this Amended Application once finalized, reflecting the CAISO-directed scope changes.

a range of on-peak and off-peak system conditions, and considered facilities under CAISO operational control with voltages ranging from 60 kV to 500 kV. Where this analysis found reliability concerns, the CAISO identified transmission solutions to address these concerns. The 2021-2022 Transmission Plan³ identified the Newark to Northern Receiving Station HVDC Project as a needed reliability-driven transmission project.

Transmission planning studies prepared by the CAISO in the 2020-2021 planning cycle identified a long-term load forecast of approximately 2,100 megawatts (MW) in the San José area, including a significant load increase of approximately 500 MW in the SVP⁴ area which would lead to several reliability concerns consisting of thermal overloads, such as multiple near-term and long-term overloads in the San José area 115 kV system.

As part of the CAISO's 2024-2025 planning cycle, the CAISO further evaluated the growing needs of the Greater Bay Area.⁵ The CAISO's evaluation identified an increase in the long-term load forecast to approximately 3,400 MW in the base case and 4,200 MW in the sensitivity scenario in the San José area – significantly more than when the CAISO originally identified the Newark to Northern Receiving Station HVDC Project. Through its evaluation, the CAISO adjusted the scope of the original Newark to NRS HVDC Project to be a high capacity 230 kV AC solution which was approved by the CAISO Board of Governors on November 12,

³ 2021-2022 Transmission Plan, p. 103. The CAISO's full 2021-2022 Transmission Plan is available at <https://www.caiso.com/InitiativeDocuments/ISOBoardApproved-2021-2022TransmissionPlan.pdf>.

⁴ SVP is a municipal utility serving customers in the City of Santa Clara.

⁵ San Jose Area Transmission Plan, Engineering Study Report. CAISO's full Engineering Study Report is available at <https://www.caiso.com/documents/decision-on-modifications-to-the-2021-2022-transmission-plan-study-nov-2024.pdf>.

2024.⁶ The updated solution consists of a new approximately 1,000 megavolt amperes (MVA) link between the existing PG&E Newark and SVP NRS substations (Project). Several mitigation alternatives were studied, and different technologies were also evaluated as part of the alternatives analysis. Alternatives considered by the CAISO but rejected include:

- 115 kV Lines Reconductoring: This alternative was not recommended because the forecasted overall San José area load is beyond the capacity of 115 kV lines.
- Multi-terminal HVDC: This alternative was not recommended because controllability of the system between Newark and NRS was determined to not be required.
- Energy Storage: This alternative was not recommended as previous studies have shown that the San José area system has far less charging capacity compared to the size of energy storage needed to address all reliability issues identified in the area.⁷

C. Competitive Solicitation

Following approval of the 2021-2022 Transmission Plan, the CAISO initiated an open, competitive solicitation on April 18, 2022, which provided project sponsors the opportunity to submit proposals to finance, construct, own, operate, and maintain the Project. Of

⁶ General Session Minutes ISO Board of Governors Meeting November 12, 2024, pp. 2-3. CAISO's approval of the modifications to the 2021-2022 Transmission Plan to adjust the scope of the Newark to Northern Receiving Station HVDC Project is available at <https://www.caiso.com/documents/final-iso-board-of-governors-general-session-minutes-nov-12-2024.pdf>.

⁷ 2021-2022 Transmission Plan, Appendix E, p. E-9. The CAISO's full 2021-2022 Transmission Plan Appendix E is available at <https://www.caiso.com/InitiativeDocuments/AppendixE-BoardApproved-2021-2022TransmissionPlan.pdf>.

the 11 selection factors listed in Section 24.5.4 of the CAISO Tariff, the CAISO identified the following as the key selection factors:

- The current and expected capabilities of the Project Sponsor and its team to finance, license, and construct the facility and operate and maintain it for the life of the solution;
- The Project Sponsor's existing rights of way and substations that would contribute to the transmission solution in question;
- The experience of the Project Sponsor and its team in acquiring rights of way, if necessary, that would facilitate approval and construction, and in the case of a Project Sponsor with existing rights of way, whether the Project Sponsor would incur incremental costs in connection with placing new or additional facilities associated with the transmission solution on such existing right of way;
- The proposed schedule for development and completion of the transmission solution and demonstrated ability to meet the schedule of the Project Sponsor and its team;
- The financial resources of the Project Sponsor and its team;
- The technical and engineering qualifications and experience of the Project Sponsor and its team; and
- Demonstrated cost containment capability of the Project Sponsor and its team, specifically, binding cost control measures the Project Sponsor agrees to accept, including any binding agreement by the Project Sponsor and its team to accept a cost cap that would preclude costs for the transmission solution

above the cap from being recovered through the CAISO's Transmission Access Charge.⁸

The CAISO evaluated six applications from four project sponsors. The CAISO found that all six proposals of the four project sponsors provided sufficient information to meet the minimum validation criteria as set forth in Section 24.5.2.4 of the CAISO Tariff. The CAISO found that all four project sponsors and their six validated proposals met the minimum qualification criteria as set forth in Section 24.5.3 of the CAISO Tariff. In selecting the approved project sponsor, the CAISO undertook a comparative analysis of the project sponsors' proposals with regard to the qualification criteria described in CAISO Tariff Section 24.5.3.1 and the selection factors in Section 24.5.4.

In addition to the key selection factors mentioned above, the CAISO considered:

- The previous record regarding construction and maintenance of transmission facilities, including facilities outside the CAISO-controlled grid, of the Project Sponsor and its team;
- Demonstrated capability to adhere to standardized construction, maintenance and operating practices of the Project Sponsor and its team;
- The demonstrated ability to assume liability for major losses resulting from failure of facilities of the Project Sponsor; and
- Any other strengths and advantages the Project Sponsor and its team may have to build and own the specific transmission solution, as well as any specific efficiencies or benefits demonstrated in their proposal.⁹

⁸ CAISO Tariff, § 24.5.4.

⁹ CAISO Tariff, § 24.5.4.

Through this competitive solicitation process, the CAISO selected LS Power Grid California, LLC, a wholly-owned subsidiary of LS Power Associates, L.P. (LSPA), as the Approved Project Sponsor to finance, construct, own, operate, and maintain the Project.¹⁰ The CAISO and LSPGC entered into an Approved Project Sponsor Agreement (Original APSA) on August 28, 2023.

On November 12, 2024, the CAISO Board approved¹¹ the Project scope changes and assigned responsibility for the modified Newark to NRS 230 kV Line Project to LSPGC. The CAISO and LSPGC expect to enter into the First Amended and Restated Approved Project Sponsor Agreement (First Amended and Restated APSA)¹², which will supersede the Original APSA dated August 28, 2023 and establish certain requirements for LSPGC's implementation of the revised Project in accordance with the Board approval and Functional Specification for the Newark – NRS 230 kV Line Project¹³.

In accordance with the Functional Specification for the Newark – NRS 230 kV Line Project, CAISO requires the Project to be in service by no later than June 1, 2028. To meet

¹⁰ The CAISO's full Project Sponsor Selection Report is available at <https://www.caiso.com/InitiativeDocuments/Newark-NRS-HVDC-Project-Project-Sponsor-Selection-Report.pdf>.

¹¹ General Session Minutes ISO Board of Governors Meeting November 12, 2024, pp. 2-3. CAISO's approval of the modifications to the 2021-2022 Transmission Plan to adjust the scope of the Newark to Northern Receiving Station HVDC Project is available at <https://www.caiso.com/documents/final-iso-board-of-governors-general-session-minutes-nov-12-2024.pdf>.

¹² Due to circumstances outside of LSPGC's control, the First Amended and Restated APSA has not yet been finalized at the time of the required submittal date of February 28, 2025 as set forth in *Administrative Law Judge's Ruling Granting Applicant's Motion to Amend its Application*, issued on February 10, 2025. LSPGC will provide the First Amended and Restated APSA in a supplemental filing once it is fully executed.

¹³ The Functional Specification for the Newark – NRS 230 kV Line Project is in Appendix A of the San Jose Area Transmission Plan Engineering Study Report dated November 5, 2024 which is available at <https://www.caiso.com/documents/decision-on-modifications-to-the-2021-2022-transmission-plan-study-nov-2024.pdf>.

this deadline, LSPGC respectfully asks the Commission to issue its final decision on this Amended Application no later than December 31, 2025.

D. Project Objectives

The Project will:

- Meet the CAISO's reliability-driven need by addressing multiple near-, mid-, and long-term reliability issues in the existing San José area 115 kV system;
- Meet the technical specifications set forth by the CAISO for an approximately 1,000 MVA 230 kV transmission line between the existing PG&E Newark substation and existing SVP NRS substation.
- Facilitate deliverability of energy from existing and proposed renewable generation projects to the Greater Bay Area and corresponding progress toward California utilities' achieving California's Renewables Portfolio Standard goals in a timely and cost-effective manner;
- Comply with and assist the CAISO in meeting applicable Reliability Standards and Criteria developed by NERC, Western Electricity Coordinating Council, and the CAISO; and
- Be designed and constructed in conformance with LSPGC's standards, the National Electric Safety Code, and other applicable national and state codes and regulations.

III. SUPPORTING DOCUMENTS

The following Appendices are attached to this Amended Application:

Appendix	Title
I	First Amended and Restated Approved Project Sponsor Agreement

Appendix	Title
J	Certain Supplemental Sections of the Proponent's Environmental Assessment
K	Amended Map of the Project
L	Amended Project Cost Estimate
M	Amended Project Implementation Plan
N	Amended Electric and Magnetic Fields Management Plan

IV. REQUIREMENTS OF GENERAL ORDER 131-D

Section IX.A and Section X of GO 131-D set forth the requirements for applications for a CPCN.¹⁴ These requirements are addressed in the following sections.

A. Description of the Project and Proposed Schedule (Section IX.A.1.a)¹⁵

The Project is more fully described in Section 3.0 of the Proponent's Environmental Assessment (PEA). The PEA was provided as Appendix B to the Original Application. As authorized by the Administrative Law Judge's Ruling dated February 10, 2025¹⁶ and in coordination with the Energy Division staff, LSPGC has attached supplemental versions of certain sections of the PEA, attached as Appendix J to this Amended Application.

The main component of the Project is the approximately 12-mile Newark to NRS 230 kV AC overhead and underground transmission line that will connect the existing PG&E Newark substation to the existing SVP NRS substation.

Also described in the PEA are certain PG&E and SVP facilities that are separate and distinct from the Project and which are not a part of this Amended Application but will be

¹⁴ Former Section IX.A is now Section VII.A of GO 131-E. Former Section X has been incorporated into Section VII.A of GO 131-E.

¹⁵ Section VII.A.2.a of GO 131-E.

¹⁶ The full Ruling is available at <https://docs.cpuc.ca.gov/PublishedDocs/Efile/G000/M556/K602/556602533.pdf>.

completed by PG&E and SVP to support the operation of the Project. The additional facilities include:

1. Interconnection Facilities – modifications to the existing PG&E Newark substation and modifications to the existing SVP NRS substation.
2. Network Upgrades – PG&E and SVP are undertaking a facility scope requirements study and system studies to identify any required network upgrades. No network upgrades have been identified by PG&E, SVP, or affected systems as of the date of the filing.

The interconnection facilities are detailed in the Functional Specification for the Newark – NRS 230 kV Line Project¹⁷ and will be identified in the First Amended and Restated APSA. Responsibility for those facilities will be assigned to PG&E for the Newark substation and to SVP for the NRS substation. The impacts of these additional facilities were studied in the PEA provided in the Original Application but are not included in the scope of the authority LSPGC requests in this Amended Application.

LSPGC estimates that issuance of the CPCN will take approximately 16 months, and construction of the Project will take approximately 24 months to complete once the CPCN is issued, depending upon unforeseen or unpredictable factors such as weather.¹⁸ A more detailed proposed schedule is set forth in Section V.D.4, below.

¹⁷ The Functional Specification for the Newark – NRS 230 kV Line Project is in Appendix A of the San Jose Area Transmission Plan Engineering Study Report dated November 5, 2024 which is available at <https://www.caiso.com/documents/decision-on-modifications-to-the-2021-2022-transmission-plan-study-nov-2024.pdf>.

¹⁸ The construction schedule is dependent on the timing of the Commission's issuance of the CPCN and SVP's and PG&E's completion of their associated facilities.

B. Map of the Project (Section IX.A.1.b)¹⁹

An amended map of the proposed Project is attached as Appendix K to this Amended Application. Appendix K shows the city limits, parks, recreational areas, scenic areas, transmission lines, and other facilities within one mile of the Project.

C. Why the Public Convenience and Necessity Require Construction and Operation of the Project (Section IX.A.1.c)²⁰

As noted in Section II.B above, the CAISO's 2021-2022 Transmission Plan and 2024-2025 Transmission Plan included a detailed analysis of why the Project is needed to maintain the reliability of the CAISO-controlled electrical grid. The Project resolves several reliability concerns that were identified, including multiple near-term and many more long-term overloads in the San José area 115 kV transmission system. Ultimately, the CAISO determined that the Project would result in better performance than several studied mitigation alternatives.

In addition, Assembly Bill 1373, enacted in 2022 and signed by Governor Newsom, added Section 1001.1 to the Public Utilities Code. That statute requires the Commission, in a CPCN proceeding, to establish a "rebuttable presumption with regard to need for the proposed transmission project in favor of an Independent System Operator governing board-approved need evaluation" if four conditions are met:

1. "The Independent System Operator governing board has made explicit findings regarding the need for the proposed transmission project and has determined that the proposed project is the most cost-effective transmission solution."

The CAISO made the required findings in the 2021-2022 Transmission Plan and 2024-2025 Transmission Plan, as discussed in Section IV.C above.

¹⁹ Section VII.A.2.b of GO 131-E.

²⁰ Section VII.A.2.c of GO 131-E.

2. “The Independent System Operator is a party to the proceeding.”

On June 14, 2024, the CAISO filed a motion for party status in this proceeding. As of the date of filing of this Amended Application, the Commission has not yet issued a ruling on the motion.

3. “The Independent System Operator governing board-approved need evaluation is submitted to the commission within sufficient time to be included within the scope of the proceeding.”

A link to the 2021-2022 Transmission Plan, which at pages 103-105 and 377 identified the need for the Project, was provided in footnote 3, in advance of the issuance of the Scoping Memo and Ruling in this proceeding. The CAISO’s Memorandum dated November 5, 2024,²¹ identifies the need for the modified scope of the Project and recommends its approval based on the analysis performed as part of the 2024-2025 Transmission Planning Process. The CAISO Board of Governors approved this recommendation at its November 12, 2024 meeting.²²

4. “There has been no substantial change to the scope, estimated cost, or timeline of the proposed transmission project as approved by the Independent System Operator governing board.”

As of the date of the filing of this Amended Application, there have been no substantial changes to the scope of the Project, the estimated cost of the Project, or the timeline, as set forth in materials provided to the CAISO Board of Governors in advance of its approval of the Project on November 12, 2024 including the Memorandum dated November 5, 2024 and the San José Area Transmission Plan: Engineering Study Report dated November 5, 2024,²³ which at page 10 identifies the estimated cost of the Project.

²¹ The CAISO’s Memorandum regarding Decision on Modifications to the 2021-2022 Transmission Plan is available at <https://www.caiso.com/documents/decision-on-amendment-to-the-2022-2023-transmission-plan-memo-nov-2024.pdf>.

²² General Session Minutes ISO Board of Governors Meeting November 12, 2024, pp. 2-3. CAISO’s approval of the modifications to the 2021-2022 Transmission Plan to adjust the scope of the Newark to Northern Receiving Station HVDC Project is available at <https://www.caiso.com/documents/final-iso-board-of-governors-general-session-minutes-nov-12-2024.pdf>.

²³ The CAISO’s San José Area Transmission Plan: Engineering Study Report, Draft Report is available at <https://www.caiso.com/documents/decision-on-modifications-to-the-2021-2022-transmission-plan-study-nov-2024.pdf>.

If the four conditions are met, the Commission is required to find that the Project is needed unless a party presents evidence sufficient to overcome the statutory presumption of need.

If the conditions are not met, the CAISO's finding that the Project is needed for reliability provides a basis for the Commission's conclusion that the Project is needed. If a party presents sufficient evidence to overcome the presumption, LSPGC will present evidence demonstrating that the Project is needed and will provide significant benefits that will promote the public convenience and necessity.

D. The Estimated Cost of the Project (Section IX.A.1.d,²⁴ Public Utilities Code Section 1003(c))

1. Estimated Project Costs

LSPGC estimates that the total capital cost of the Project is \$677,700,000.

LSPGC agreed to cost containment provisions for the Project in the Original APSA, summarized below, that are expected to be incorporated in the First Amended and Restated APSA and will be included in LSPGC's FERC-approved formula rates.

Under the First Amended and Restated APSA, LSPGC would agree that recovery of costs for the development, construction, commissioning, operations, and maintenance of the Project that will be included in LSPGC's FERC-approved formula rates is subject to a binding annual revenue requirement (ARR) cap for each of the first 40 full calendar years of Project operations, subject to certain exemptions and exceptions.

Under the ARR cap, if LSPGC's revenue requirement exceeds the cap, LSPGC will recover revenues in that year only up to the cap, unless related to costs specifically excluded from the cost cap. The unrecovered difference between the calculated revenue requirement and

²⁴ Section VII.A.2.d of GO 131-E.

the calculated cap will be tracked by way of a deferred recovery account. Costs in the deferred recovery account will not earn interest and could be recovered in future years only if LSPGC's revenue requirement is below the annual cap. The amount of any unrecovered costs remaining in the deferred recovery account at the end of the 40-year period will be forfeited, and LSPGC will be unable to recover them in rates. If LSPGC's revenue requirement is below the annual cap in a certain year and there is no balance in the deferred recovery account, only actual costs for that year will be recovered.

The First Amended and Restated APSA would also provide that if FERC does not approve the proposed ARR cap²⁵, LSPGC would seek an alternative annual revenue requirement cap that will include the same costs subject to the ARR cap but will eliminate the deferred recovery account. If the revenue requirement exceeds the annual cap in any year, LSPGC will recover revenues in that year only up to the cap, and any excess, unless related to costs specifically excluded from the cost cap, will be forfeited. If LSPGC's revenue requirement in any year is below the annual cap, the difference between the revenue requirement and the cap will be added to the cap in the following year, resulting in a revised cap.

A detailed estimate of the cost of the Project is presented in confidential Appendix L to this Amended Application. Because the detailed cost projections are confidential and commercially sensitive, LSPGC is concurrently filing a motion for leave to file Appendix L under seal.

²⁵ The proposed ARR cap mechanism was approved by FERC on October 15, 2024, such that the alternate annual revenue requirement cap is not expected to be implemented at this time. *Order Accepting Tariff Revisions, Granting Transmission Incentives, and Initiating a Proceeding Pursuant to Section 206 of the Federal Power Act* (2024) 189 FERC ¶ 61,027.

2. Maximum Reasonable and Prudent Cost (Public Utilities Code Section 1005.5)

For projects with costs of over \$50 million, Public Utilities Code Section 1005.5 requires the Commission to specify a maximum cost determined to be reasonable and prudent. The Commission may increase the maximum cost after the CPCN is issued if it determines that costs have increased and the public convenience and necessity require the project to be constructed at the increased cost.

The statute does not distinguish between projects whose rates are set by the Commission and those, like the Project, whose rates are set by FERC. LSPGC respectfully asks the Commission to ensure that any maximum cost it may authorize is consistent with the estimate presented in Appendix L with an additional 20% contingency to account for route or scope changes, final engineering design, final environmental mitigation requirements, and other factors that may impact the final cost. Also, because the Project's rates are set by FERC, LSPGC respectfully asks the Commission to ensure that any maximum cost it may authorize is no less than FERC's finding of the just and reasonable costs of the Project.

E. Reasons for Selecting the Route or Site (Section IX.A.1.e)²⁶

LSPGC presented a description of alternatives and a comparison of alternatives in Sections 4.0 and 6.0, respectively, of the PEA which was provided as Appendix B to the Original Application. Those discussions evaluate the advantages and disadvantages of the considered alternatives and provide rationale for the adoption of the selected route.

²⁶ Section VII.A.2.e of GO 131-E.

F. Schedule of Right-of-Way Acquisition (Section IX.A.1.f)²⁷

LSPGC presents a preliminary schedule for construction and right-of-way acquisition activities in the Amended Project Implementation Plan, attached as Appendix M to this Amended Application.

G. List of Reviewing Government Agencies (Section IX.A.1.g)²⁸

LSPGC met with several governmental agencies to solicit input on Project design and potential resource and land use issues in the vicinity of the Project site. Written position statements on the proposed Project were provided by the City of San José, City of Fremont, City of Santa Clara, Santa Clara County Supervisors, Santa Clara Valley Water District, and Santa Clara Valley Habitat Agency. In lieu of a written position statement from the Native American Heritage Commission, LSPGC has drafted a statement of its understanding of the Native American Heritage Commission's position. These statements were provided as Appendix F to the Original Application.²⁹ The following summaries of the written statements provide LSPGC's understanding of each agency's position with respect to the Project:

- **City of San José.** The City of San José states it is essential to increase transmission capacity coming into San José. The City of San José supports the Project's goals to strengthen the grid and provide a highly reliable and stable electric transmission system for San José's residents and businesses.
- **City of Fremont.** Mayor Mei of the City of Fremont supports the Project. She believes the Project epitomizes Fremont's continued efforts to advance reliable energy infrastructure for the benefit of their community. The City of

²⁷ Section VII.A.2.f of GO 131-E.

²⁸ Section VII.A.2.g of GO 131-E.

²⁹ Some of the statements were signed by elected officials, as representatives of their local governments or agencies, who have left office since the Original Application was filed.

Fremont anticipates sustaining the collaborative dynamic they have had with LSPGC thus far as the Project advances. The City of Fremont recognizes the importance of the Project in meeting long-term energy needs while bolstering the resilience of their grid and pledges their full support for the advancement of the Project.

- **City of Santa Clara.** Mayor Gillmor of the City of Santa Clara understands the Project is needed to meet electric reliability needs in the South Bay area. She believes the Project will allow for a more efficient and increased transfer capability of electricity within the area which will be critical to the City achieving its electrification goals. She also believes the Project will benefit its residents and businesses and supports the advancement of the Project.
- **Santa Clara County Supervisors.** Supervisor Ellenberg, President of the Santa Clara County Board of Supervisors representing District 4, and Supervisor Lee, Vice President of the Santa Clara County Board of Supervisors representing District 3, support LSPGC and the Project and understand the Project is needed to meet electric reliability needs in the South Bay area and will allow for more efficient and increased transfer of electricity within the area. They are also pleased that the Project will provide jobs and economic stimulus during Project construction as well as increases in tax revenues throughout the life of the new infrastructure.
- **Santa Clara Valley Water District (Valley Water).** Valley Water is reviewing various proposed Project alignments which may impact Coyote Creek, Guadalupe River, Lower Pentencia Creek, and Valley Water's right-of-

way. Valley Water looks forward to continuing to work with LSPGC on finalizing the Project alignment and details to ensure the Project is done in a manner protective of Valley Water assets and the environment and is in compliance with Valley Water's Water Resources Protection Manual and Ordinance.

- **Santa Clara Valley Habitat Agency (Habitat Agency).** The Habitat Agency is reviewing proposed alignments adjacent to or beneath the Habitat Agency's Conservation Easement over 200 acres of the San José/Santa Clara Regional Wastewater Facility Bufferlands as well as the siting of the Baylands terminal adjacent to the conservation easement. The Habitat Agency looks forward to continued collaboration on site design.
- **Native American Heritage Commission (NAHC).**³⁰ On May 16, 2023, LSPGC initiated coordination with the NAHC by submitting a Sacred Lands File (SLF) search request for the Project. The SLF search was returned by the NAHC on June 14, 2023, with instructions to contact the North Valley Yokuts Tribe and the Ohlone Indian Tribe. The NAHC also provided a list of Native American contacts who may be able to supply information pertinent to the proposed Project area. Each of the 19 individuals listed was sent initial outreach letters in January 2024. As of the date of the filing of this Application, only a response from the Ohlone Indian Tribe has been received. The Ohlone Indian Tribe responded via email with receipt of initial contact

³⁰ GO 131-E requires a listing of Tribal governments, rather than the NAHC, that were sent written requests for a position statement. As shown in Appendix F to the Original Application, LSPGC's subcontractor sent written requests to representatives of ten Tribal governments.

and to request a copy of the SLF search results and contact list provided by the NAHC. No further response or pertinent information to the Proposed Project Area has been received from the Ohlone Tribe. All NAHC correspondence was provided in Appendix 5.5-A of Appendix B to the Original Application.

H. Proponent’s Environmental Assessment (Section IX.A.1.h)³¹

The Project’s PEA was attached as Appendix B to the Original Application. As authorized by the Administrative Law Judge’s Ruling dated February 10, 2025 and in coordination with the Energy Division staff, LSPGC has attached supplemental versions of certain sections of the PEA as Appendix J to this Amended Application.

I. Measures Taken to Reduce Exposure to Electric and Magnetic Fields (Section X)³²

The Commission has periodically considered the impact of exposure to electric and magnetic fields (EMF). In Decision (D.) 93-11-013, the Commission adopted an EMF policy for electric utility facilities and power lines. Because the Commission concluded there was no reliable scientific basis to conclude that adverse health effects resulted from exposure to power frequency EMF, the Commission declined to adopt a specific numerical standard for EMF exposure.³³ The Commission instead established an EMF policy for California’s regulated electric utilities that required new and upgraded facilities to implement no-cost or low-cost (4% or less of the total project cost) measures to mitigate EMF to the extent such measures were approved as part of the Commission’s review process.

³¹ Section VII.A.2.j of GO 131-E.

³² Section VII.A.2.h of GO 131-E.

³³ D.93-11-013.

In D.06-01-042, the Commission affirmed its earlier finding that no direct link between exposure to EMF and adverse health effects had been proven despite numerous studies, including a research program ordered by the Commission and conducted by the California Department of Health Services.³⁴ The Commission reaffirmed its policy of requiring only low-cost/no-cost measures to mitigate EMF exposure for utility transmission and substation projects and set a target for low-cost mitigation measures: low-cost mitigation measures were to be designed to reduce exposure to EMF by 15% or more at the utility right-of-way.³⁵ The decision also addressed the mitigation measures to be required in different land-use contexts and determined that low-cost measures were not required in agricultural or undeveloped areas. Only no-cost mitigation measures are required in those areas, except for permanently occupied residences, schools, or hospitals located on these lands.³⁶

The Commission has also adopted EMF design guidelines for utilities in California.³⁷

Section X of GO 131-D requires all applications for a CPCN to include a description of the measures taken or proposed to reduce the potential for exposure to EMF generated by a proposed project. The Commission has previously stated in D.06-01-042 that “placing a transmission line underground should normally provide sufficient mitigation.”³⁸ The incremental cost for placing this segment underground is significantly greater than the 4% threshold for low-cost mitigation measures. However, the suburban, urban, and recreational

³⁴ D.06-01-042, p. 19 (Finding of Fact 5).

³⁵ D.06-01-042, pp. 10, 21 (Finding of Fact 20).

³⁶ D.06-01-042, pp. 9, 20 (Finding of Fact 18).

³⁷ https://www.cpuc.ca.gov/-/media/cpuc-website/divisions/energy-division/documents/infrastructure/emfs/ca_emf_design_guidelines.pdf.

³⁸ D.06-01-042, p. 12, 20 (Finding of Fact 18).

nature of the adjacent land uses led to the decision in this case to propose the majority of the Newark to NRS 230 kV AC transmission line to be placed underground, thereby providing significant magnetic field level mitigation compared to a similar overhead transmission line. The overhead portions of the Newark to NRS 230 kV AC transmission line are located on Valley Water and Regional Wastewater Facility property and a single overhead span on PG&E's Newark substation both with restricted public access. The proposed routing of the two overhead line segments is not in proximity to high-priority land use categories in the Commission's EMF policy, which represents an avoidance measure. Notwithstanding the significant magnetic field level mitigation provided by placing transmission lines underground and magnetic field mitigation provided by the routing of the overhead lines, LSPGC evaluated additional EMF mitigation measures in its design and construction plan and adopted certain no-cost or low-cost mitigation measures.³⁹

LSPGC's amended management plan addressing the EMF mitigation measures that will be incorporated into the design of the Project is attached as Appendix N to this Amended Application.

J. Notice (Section XI.A)⁴⁰

Applicants for a CPCN are required to give notice of the Application within 10 days of filing by direct mail, newspaper advertisement, and posting on- and off-site. LSPGC's form of notice is attached as Appendix H to the Original Application. LSPGC gave the required

³⁹ Certain no cost or low cost measures that will be incorporated into the design of the underground transmission lines include the reduction of conductor spacing for the AC transmission lines and locating power lines closer to the centerline of the corridor. Certain no cost or low cost measures that will be incorporated into the design of the overhead transmission line include increasing structure heights where practical and locating power lines closer to the centerline of the corridor.

⁴⁰ Section VIII.A of GO 131-E.

notice within 10 days of the date of the filing of the Original Application and filed the declaration of mailing and posting within five days of completion (Section XI.A.3).

V. REQUIREMENTS OF THE RULES OF PRACTICE AND PROCEDURE AND CERTAIN PROVISIONS OF THE PUBLIC UTILITIES CODE

A. Statutory Authority (Rule 2.1)

This Amended Application is filed pursuant to the provisions of GO 131-D, GO 131-E,⁴¹ and Public Utilities Code Sections 451, 701, 702, 761, 768, 770, and 1001, the relevant statutes that provide the statutory basis for GO 131-D and GO 131-E.

B. Applicant (Rule 2.1(a))

The Applicant is LS Power Grid California, LLC. LSPGC was selected through the CAISO's competitive solicitation process to construct, own, and operate the Orchard Substation, approved in D.22-12-048 as part of the Gates 500 kV Dynamic Reactive Support Project, and the Fern Road Substation, approved in D.24-01-011 as part of the Round Mountain 500 kV Area Dynamic Reactive Support Project. LSPGC's principal place of business is in Chesterfield, Missouri. LSPGC is organized under the laws of the State of Delaware.

C. Communications (Rule 2.1(b))

Communications regarding this Amended Application should be directed to:

LS Power Grid California, LLC
Attn: Project Director
16150 Main Circle Drive, Suite 310
Chesterfield, MO 63017
Telephone: (636) 532-2200
Email: ccarroll@lspower.com

With a copy to:

LS Power Grid California, LLC
Attn: Managing Counsel
16150 Main Circle Drive, Suite 310

⁴¹ See fn.1.

Chesterfield, MO 63017
Telephone: (636) 532-2200
Email: cbrandt@lspower.com

and

Brian T. Cragg
Downey Brand LLP
455 Market Street, Suite 1500
San Francisco, California 94105
Telephone: (415) 848-4800
Email: bcragg@DowneyBrand.com

D. Category, Need for Hearing, Issues, and Proposed Schedule (Rule 2.1(c))

1. Category

This Amended Application does not involve an enforcement investigation or a complaint and thus does not meet the definition of an “adjudicatory” proceeding under Rule 1.3(a). This Application also does not establish policy or rules affecting a class of regulated entities and thus does not meet the definition of a “quasi-legislative” proceeding under Rule 1.3(f). FERC will set rates and determine the cost recovery for the Project through its approval of LSPGC’s formula rates; because the Commission will not set rates or establish a mechanism that sets rates for LSPGC, this proceeding does not clearly fit within the “ratesetting” definition under Rule 1.3(g). This proceeding also does not qualify as a “catastrophic wildfire proceeding” under Rule 1.3(b). Under Rule 7.1(e)(2), when a proceeding does not clearly fit into any of the categories in Rules 1.3(a), (b), (f), and (g), the proceeding will be conducted under the rules applicable to the ratesetting category, and LSPGC therefore proposes this approach.

2. Need for Hearing

LSPGC does not anticipate that hearings will be needed for this proceeding. LSPGC nevertheless proposes two alternative schedules below: one that allows time for

hearings, if needed, following issuance by Commission staff of a draft Environmental Impact Report (EIR) and one that proceeds directly to briefing, without hearings, after the EIR is issued.

3. Issues

Based on Commission precedent, the issues anticipated to be considered in this proceeding are:

- (a)** Should LSPGC be granted a CPCN authorizing construction of the Project?
- (b)** Does the Project qualify for a rebuttable presumption of the need for the Project; or, if not, does the present or future public convenience and need require construction of the Project?
- (c)** What are the reliability, economic, public policy, and other benefits of the proposed Project?
- (d)** Is there substantial evidence that the proposed Project will have any significant impact on the environment? If there is substantial evidence of significant impacts:
 - (i)** What are the significant environmental impacts of the proposed Project within the Commission's jurisdiction?
 - (ii)** Are there mitigation measures that will eliminate or lessen such impacts?
 - (iii)** Are the mitigation measures or alternatives infeasible?
 - (iv)** Is there an environmentally superior Project alternative?
 - (v)** If the Project or environmentally superior alternative results in significant and unavoidable impacts, are there overriding considerations that warrant Commission approval?

- (e) What is the maximum prudent and reasonable cost for the Project?
- (f) Should the Commission grant LSPGC exemptions from certain affiliate transaction rules and reporting requirements?
- (g) Does the environmental document comply with the California Environmental Quality Act (CEQA)? Did the Commission review and consider it? Does it reflect the Commission’s independent judgment and analysis?
- (h) Is the Project designed in compliance with the Commission’s policies governing the mitigation of EMF effects using low-cost and no-cost measures?
- (i) What are the Project’s impacts on environmental and social justice communities, including the extent to which it impacts achievement of any of the nine goals of the Commission’s Environmental and Social Justice (ESJ) Action Plan?

4. Proposed Schedule

Below is LSPGC’s proposed schedule for the proceeding. If hearings are needed, LSPGC proposes to hold the hearings on need and other issues while the draft environmental document is being prepared or is under review.

<u>EVENT</u>	<u>DATE NO HEARINGS</u>	<u>DATE WITH HEARINGS</u>
Application Filed; PEA Submitted	May 17, 2024	May 17, 2024
Publication in Daily Calendar	May 20, 2024	May 20, 2024

<u>EVENT</u>	<u>DATE NO HEARINGS</u>	<u>DATE WITH HEARINGS</u>
Notice of Filing of Application	May 28, 2024	May 28, 2024
Application Deemed Complete	June 13, 2024	June 13, 2024
Last Day for Protests and Responses	June 19, 2024	June 19, 2024
Reply to Protests and Responses	July 1, 2024	July 1, 2024
CAISO Board of Governor's Project Scope Change Decision	November 12, 2024	
Amended Application Filed	February 28, 2025	February 28, 2025
Amended Application Deemed Complete	March 31, 2025	March 31, 2025
Last Day for Protests and Responses to Amended Application	April 1, 2025	April 1, 2025
Reply to Protests and Responses to Amended Application	April 11, 2025	April 11, 2025
Prehearing Conference	April 16, 2025	April 16, 2025
Scoping Ruling and Memo	May 16, 2025	May 16, 2025
Applicant's Opening Testimony (if needed) (on all issues except environmental impacts)		July 7, 2025
Intervenors' Opening Testimony (all parties)		August 6, 2025
Concurrent Rebuttal Testimony		August 20, 2025
Hearings (if needed)		September 8-12, 2025
Opening Briefs		October 13, 2025
Reply Briefs		October 27, 2025
Draft Environmental Document Issued	April 2025	April 2025
Final Environmental Document; Proceeding Submitted	August 2025	August 2025

<u>EVENT</u>	<u>DATE NO HEARINGS</u>	<u>DATE WITH HEARINGS</u>
Proposed Decision	November 2025	November 2025
Commission Decision	December 2025	December 2025

E. Organization and Qualification (Rule 2.2, Public Utilities Code Section 1004)

Copies of LSPGC’s certificate of formation and current certificate of qualification to do business in California were previously submitted to the Commission in connection with Application (A.) 22-04-004 (Permit to Construct the 500 kV Fern Road Substation).

F. Financial Statements (Rules 2.3, 3.1(g), 3.1(h))

LSPGC and its parent, LSPA, are privately held companies that do not publish financial information and are not rated by credit rating agencies. LSPA’s financial strength is demonstrated by the fact that LSPA has raised over \$65 billion in debt and equity capital to support its business activities, including raising over \$2 billion in the last dozen years for new high-voltage transmission facilities.

LSPA provided confidential financial information to the CAISO and a written guarantee to LSPGC to provide the CAISO with certainty that adequate capital is available to implement the Project.

In its Selection Report, the CAISO concluded that “each project sponsor [including LSPGC] has sufficiently demonstrated the experience and financial resources to undertake a project of this scope”⁴² The CAISO added that, “Having the financial capacity to continue to bid on, win, and finance projects, although dependent in part on the financial resources of a company, also depends on the breadth and strength of a company’s partners and

⁴² Newark-NRS HVDC Project, Project Sponsor Selection Report, pp. 43-44.

banking relationships. ...LSPGC...[has] developed banking relationships as evidenced by various banks providing support for this project. Consequently, the [CA]ISO considers LSPGC...to have sufficient financial resources to complete this project....”

The Commission can rely on the financial diligence performed by the CAISO prior to awarding six competitive transmission projects⁴³ to affiliates of LSPA in recent years and the successful completion of LSPA affiliate DesertLink’s Harry Allen to Eldorado 500 kV Transmission Project in 2020. However, if the Commission requires additional financial information, LSPA’s confidential financial information could be provided under seal for review with appropriate protections of the confidentiality of this sensitive information.

G. Compliance with CEQA (Rule 2.4)

1. Proponent’s Environmental Assessment

Rule 2.4 requires applications for projects that are subject to CEQA to submit a PEA that complies with the Guidelines the Commission has developed for energy infrastructure projects. In compliance with Rule 2.4, LSPGC submitted the Project’s PEA as Appendix B to the Original Application. As authorized by the Administrative Law Judge’s Ruling dated February 10, 2025 and in coordination with the Energy Division staff, LSPGC has attached supplemental versions of certain sections of the PEA as Appendix J to this Amended Application. The environmental review required by CEQA is being overseen by the Commission’s Energy Division.

⁴³ In addition to the Orchard and Fern Road Substations mentioned in Section V.B, above, the CAISO awarded four transmission projects, including the Project, to LSPGC in competitive solicitations following the issuance of the 2021-2022 Transmission Plan.

2. Project Refinements

To avoid incurring significant costs before the Commission approves the Project, LSPGC will perform final engineering after the Commission has completed its CEQA review and approved the Project. Final engineering and construction can result in modifications to the Project design. If modifications are substantial enough, a supplemental environmental review might be required.

LSPGC asks the Commission to authorize Energy Division to determine whether a Project modification will result in new significant environmental effects or a substantial increase of the severity of previously identified environmental effects. If the modification results in a significant new environmental impact or a substantial increase in the severity of a previously recognized impact, then Energy Division will direct LSPGC to file a petition for modification of the decision granting a CPCN, and a supplemental environmental review will be performed. If the Project modifications do not result in a significant new environmental impact or a substantial increase in the severity of a previously identified impact, then Energy Division will be authorized to approve the requested modifications.⁴⁴

H. Deposit for Costs for Environmental Review (Rule 2.5)

As of November 1, 2024, LSPGC has paid a total deposit of \$561,050, calculated according to the formula set forth in Rule 2.5 using the estimated capital cost of the original Newark to NRS HVDC project scope.

I. Competing Utilities (Rule 3.1(b))

Because the CAISO's selection process designates only one entity to construct each eligible facility, construction of the Project will not compete directly with any other public

⁴⁴ The Commission granted a similar authorization in D.21-11-003, p. 98 (Ordering Paragraph No. 2).

utility. The Project will be operated as part of the CAISO-controlled transmission system and will not compete with any other utility, corporation, person, or entity. The Project will render service within the service areas of PG&E and SVP. PG&E and SVP also render transmission service within their service territories. The Project will render service to all cities and counties within the CAISO control area, but the Project will be physically located in the Cities of Fremont, Milpitas, San José, and Santa Clara and the Counties of Alameda and Santa Clara.

J. Required Permits (Rule 3.1(d))

The permits anticipated to be required for the construction of the Project are listed in Table 3-10 of the supplemental version of Section 3.0 of the PEA, attached as Appendix J to this Amended Application.

K. Proposed Rates (Rule 3.1(h))

LSPGC does not serve retail customers and does not ask the Commission to approve any retail rates. The Project's rates will be reviewed and approved by FERC and will be collected from all customers served by the CAISO through the Regional TAC.

VI. SECTION 1003'S REQUIREMENTS

Public Utilities Code Section 1003 requires additional information from applicants for a CPCN.⁴⁵

A. Preliminary Engineering and Design Information (Section 1003(a))

Section 1003(a) requires preliminary engineering and design information on the project to be included in an application for a CPCN. Preliminary engineering and design information for the Project required by Public Utilities Code Section 1003(a) is found in Section 3.0 of the original PEA, attached as Appendix B to the Original Application.

⁴⁵ Section 1003(d) applies to generation plants and utilities whose rates are regulated by the Commission and is inapplicable to the Project.

B. Project Implementation Plan (Section 1003(b))

Section 1003(b) requires applicants for a CPCN to include “[a] project implementation plan showing how the project would be contracted for and constructed. This plan shall show how all major tasks would be integrated and shall include a timetable identifying the design, construction, completion, and operation dates for each major component of the plant, line, or extension.” An Amended Project Implementation Plan fulfilling the requirements of Section 1003(b) is attached as Appendix M to this Amended Application.

C. Cost Estimate (Section 1003(c))

Section 1003(c) requires a CPCN application to include “[a]n appropriate cost estimate, including preliminary estimates of the costs of financing, construction, and operation, including fuel, maintenance, and dismantling or inactivation after the useful life of the plant, line, or extension.” The cost estimate for the amended Project has been presented in Section IV.D.1 above.

D. Cost Control (Section 1003(e))

Section 1003(e) requires a CPCN application to include “[a] design and construction management and cost control plan which indicates the contractual and working responsibilities and interrelationships between the corporation’s management and other major parties involved in the project.” The plan must also include “a construction progress information system and specific cost controls.” An Amended Project Implementation Plan fulfilling the requirements of Section 1003(e) is attached as Appendix M to this Amended Application.

VII. SECTION 1002’S REQUIREMENTS

Public Utilities Code Section 1002(a) requires the Commission to give consideration to four topics when it is considering granting a CPCN.

A. Community Values

As noted in Section II.D above, the Project will provide reliability benefits to California ratepayers and will help advance California's policy goals. The Project will also provide economic benefits to communities in the vicinity of the Project in the form of increased employment, tax revenues, and development.

LSPGC considered community benefits and values in designing the Project. Consistent with the CEQA, the Project has been designed to avoid, minimize, and/or mitigate potential environmental impacts to the maximum extent practicable. Additionally, LSPGC has developed Project-specific Applicant Proposed Measures (APMs) to minimize impacts on the community, as discussed throughout Section 5.0 of the PEA provided as Appendix B to the Original Application.

LSPGC recognizes that any new construction may result in temporary disruptions to the nearby communities. LSPGC will keep area residents and property owners, government officials, Native American tribes, and interested parties informed about the scope of the Project through printed materials, online materials, one-on-one meetings, and presentations to local organizations. LSPGC is committed to working closely with nearby communities to identify and address any potential concerns.

LSPGC has already begun public outreach for the Project, meeting with several agencies and stakeholders in the early planning stages of the Project and throughout the development of the PEA to solicit input on Project design and potential resource and land use issues in the vicinity of the Project. Table 2-1 in Section 2.0 of the PEA, provided as Appendix B to the Original Application, summarizes the consultations and public outreach throughout the development of the PEA.

B. Recreational and Park Areas

LSPGC took recreational and park areas into consideration when it selected the route for the Project. A comprehensive comparison of alternatives is presented in Section 6.0 of the PEA, provided as Appendix B to the Original Application. The Project's transmission line will require several underground crossings of the Metropolitan Transportation Commission's (MTC) Bay Trail. Impacts to the trail will be limited to short closures at discrete locations throughout construction.

As further discussed in Section 5.16 of the PEA, provided as Appendix B to the Original Application, the Project may result in minor temporary impacts or restrictions within recreational and park areas during construction, and APMs have been proposed to minimize impacts on recreational and park areas. The Project's impact on parks and recreational areas will be considered as part of the environmental review for the Project. If parks or recreational areas are significantly impacted, mitigation measures may be required, in compliance with CEQA.

C. Historical and Aesthetic Values

LSPGC considered historical values when it designed the Project and selected the route. As further discussed in Sections 5.5 and 5.18 of the PEA, provided as Appendix B to the Original Application there are no known historical resources located within the proposed Project area. As much as is practical, LSPGC will avoid known historical resources that could be affected by the construction of the Project. While unanticipated, the Project will involve excavation activities that have the potential to expose historical resources that may be determined to be significant. LSPGC has therefore developed Project-specific APMs to minimize impacts on historical resources, as discussed in Sections 5.5 and 5.18 of the PEA. Cultural resource impacts will be considered as part of the environmental review for the Project.

If historical values are significantly impacted, mitigation measures may be required, in compliance with CEQA.

LSPGC also considered aesthetic values when it designed the Project and selected the route. A significant portion of the Project's transmission line will be located underground. Once operational, the portion of the Project route that is located underground will not affect the visual character of the surroundings or the quality of public views. The Newark to NRS 230 kV transmission line will have a 0.2-mile overhead line located on PG&E's Newark substation property adjacent to existing transmission and distribution lines. This overhead portion of the Newark to NRS 230 kV transmission line will not significantly affect the visual character of the surroundings or the quality of public views due to the existing infrastructure it will be sited adjacent to. The Newark to NRS 230 kV transmission line will also have an approximately 1.9-mile overhead section along commercial, industrial, and undeveloped land adjacent to and in the vicinity of existing transmission lines on Valley Water and Regional Wastewater Facility property. This overhead portion will not significantly affect the visual character of the surroundings or the quality of public views due to the industrial nature of the Regional Wastewater Facility and the existing infrastructure it will be sited adjacent to and in the vicinity of. The aesthetic values associated with the overhead portions of the transmission line are further discussed in Section 5.1 of the PEA, provided as Appendix B to the Original Application. LSPGC has developed Project-specific APMs to minimize impacts on aesthetic resources, as discussed in Section 5.1 of the PEA. LSPGC has included updated simulations to reflect the new structures for the Energy Division to utilize in their environmental review, attached as Appendix J to this Amended Application. Aesthetic impacts will be considered as part of the

environmental review for the Project. If aesthetic values are significantly impacted, mitigation measures may be required, in compliance with CEQA.

D. Influence on the Environment

The Project's influence on the environment will be considered and addressed during the environmental evaluation required by CEQA. The resulting environmental document will identify significant impacts, consider alternatives, and require mitigation measures, if needed.

VIII. SAFETY

LSPA and its affiliates, including LSPGC, continuously strive to establish and maintain a culture of safety throughout the organization. LSPGC holds safety paramount and considers safety practices and records as key selection criteria for contractors. LSPGC's contractors will be responsible for developing a Project-specific safety plan and ensuring adequate safety training is implemented. LSPGC will continuously monitor contractor safety measures to ensure they are adequate for the Project and protective of all site personnel and the public. All Project employees, contractors, and visitors must be committed to conduct themselves in a safe and responsible manner. All employees and contractors have the responsibility to follow established safety, health, and environmental requirements as well as enforcing accident prevention procedures within their function or responsibility. If a situation arises that will cause harm to personnel, loss of property, or damage to the environment, the first person, whether LSPGC personnel, construction contractor, or subcontractor, to realize such a situation is authorized and required to stop the work until the safety concerns have been addressed. If there is knowledge of any practice, condition, or information that is contrary to the policies and procedures authored by the construction contractor or subcontractors, it will be reported immediately to the appropriate supervisor and LSPGC representatives. The Project will

be constructed, operated, and maintained in compliance with current safety requirements, including GOs 95 and 128. Safety management is further discussed in the Amended Project Implementation Plan, attached as Appendix M to this Appended Application.

IX. IMPACT ON ENVIRONMENTAL AND SOCIAL JUSTICE COMMUNITIES⁴⁶

In February 2019, the Commission adopted the ESJ Action Plan to serve as a roadmap for implementing the Commission’s vision to advance equity in its programs and policies for ESJ or disadvantaged communities. The Commission issued Version 2.0 of the ESJ Action Plan on April 7, 2022.

In the ESJ Action Plan Version 2.0, disadvantaged communities are defined as census tracts that score in the top 25% of the California Communities Environmental Health Screening Tool Version 3 (CalEnviroScreen 3.0), along with those that score within the highest 5% of CalEnviroScreen 3.0’s Pollution Burden but do not receive an overall CalEnviroScreen score.⁴⁷ The Commission has aimed to target the following communities with their definition of disadvantaged communities:

1. Disadvantaged communities, as defined above;
2. All Tribal Lands;
3. Low-income households, defined as household incomes below 80% of the area median income; and
4. Low-income census tracts, defined as census tracts with aggregated household incomes less than 80% of area or state median incomes.

⁴⁶ Section VII.A.2.i of GO 131-E requires “[d]emonstration of compliance with other applicable Commission policies,” including the ESJ Action Plan.

⁴⁷ ESJ Action Plan Version 2.0, p. 2. Available at <https://www.cpuc.ca.gov/-/media/cpuc-website/divisions/news-and-outreach/documents/news-office/key-issues/esj/esj-action-plan-v2jw.pdf>.

CalEnviroScreen 3.0 was updated by the Office of Environmental Health Hazard Assessment (OEHHA) to CalEnviroScreen 4.0 on October 13, 2021; however, the California Environmental Protection Agency (CalEPA) made a subsequent designation of “disadvantaged community” given the new data for the purpose of Senate Bill (SB) 535.⁴⁸ CalEPA now designates four types of communities as disadvantaged:

1. Census tracts with the highest 25% of CalEnviroScreen 4.0 overall scores;
2. Census tracts lacking overall scores due to data gaps, but with the highest 5% of CalEnviroScreen 4.0 cumulative Pollution Burden scores;
3. Census tracts recognized as disadvantaged in CalEPA’s 2017 disadvantaged communities designation; and
4. Areas under the control of federally recognized Tribes.⁴⁹

Figure 1 below shows the CalEnviroScreen 4.0 scores for communities within 10 miles of the Project. Communities that score in the top 25% of CalEnviroScreen 3.0 or 4.0 are designated as disadvantaged communities.⁵⁰

⁴⁸ Stats. 2023, Ch. 830.

⁴⁹ Final Designation of Disadvantaged Communities Pursuant to Senate Bill 535, May 2022. Available at https://calepa.ca.gov/wp-content/uploads/sites/6/2022/05/Updated-Disadvantaged-Communities-Designation-DAC-May-2022-Eng.a.hp_-1.pdf.

⁵⁰ CalEnviroScreen 3.0 is available at <https://oehha.ca.gov/calenviroscreen/report/calenviroscreen-30>. CalEnviroScreen 4.0 is available at https://experience.arcgis.com/experience/11d2f52282a54ceebcac7428e6184203/page/CalEnviroScreen-4_0/.

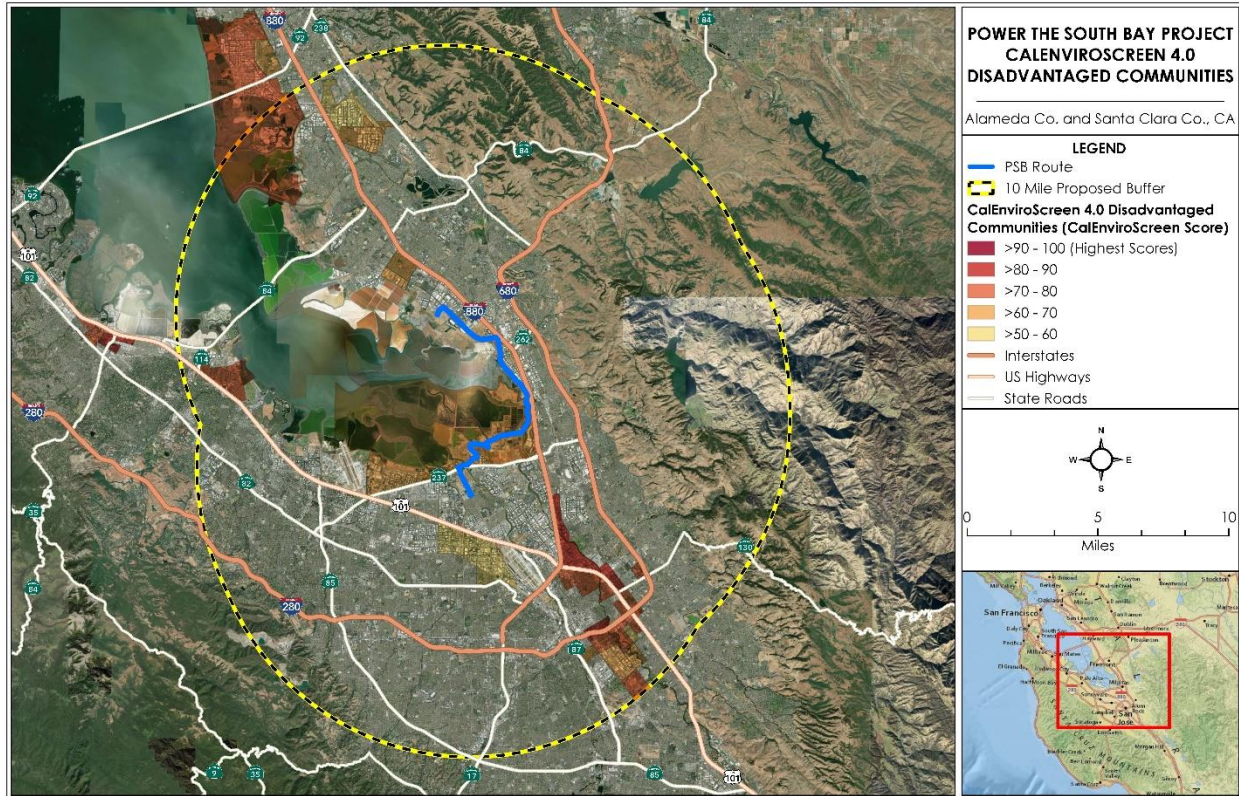


Figure 1: CalEnviroScreen 4.0 Map

As shown by **Figure 2** below, additional communities within 10 miles of the Project are designated as disadvantaged communities according to SB 535's 2022 Disadvantaged Communities Update.⁵¹

⁵¹ Final Designation of Disadvantaged Communities Pursuant to Senate Bill 535, May 2022. Available at <https://oehha.ca.gov/calenviroscreen/sb535>.

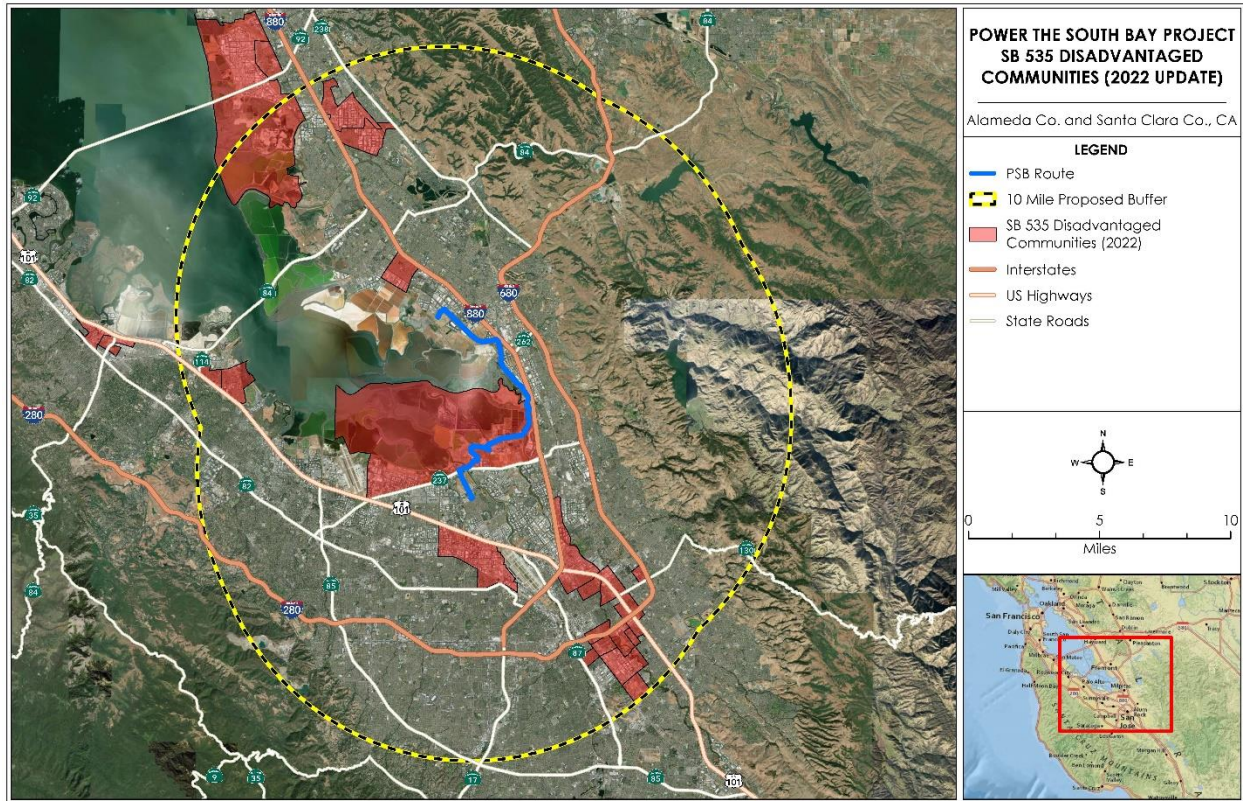


Figure 2: SB 535 Disadvantaged Communities (2022 Update) Map

Finally, as shown by **Figure 3** below, additional communities within 10 miles of the site of the Project, beyond the previously identified disadvantaged communities, are designated as low-income communities according to California Climate Investments.⁵²

⁵² California Climate Investments Priority Populations can be found at <https://gis.carb.arb.ca.gov/portal/apps/experiencebuilder/experience/?id=6b4b15f8c6514733972cabdda3108348>.

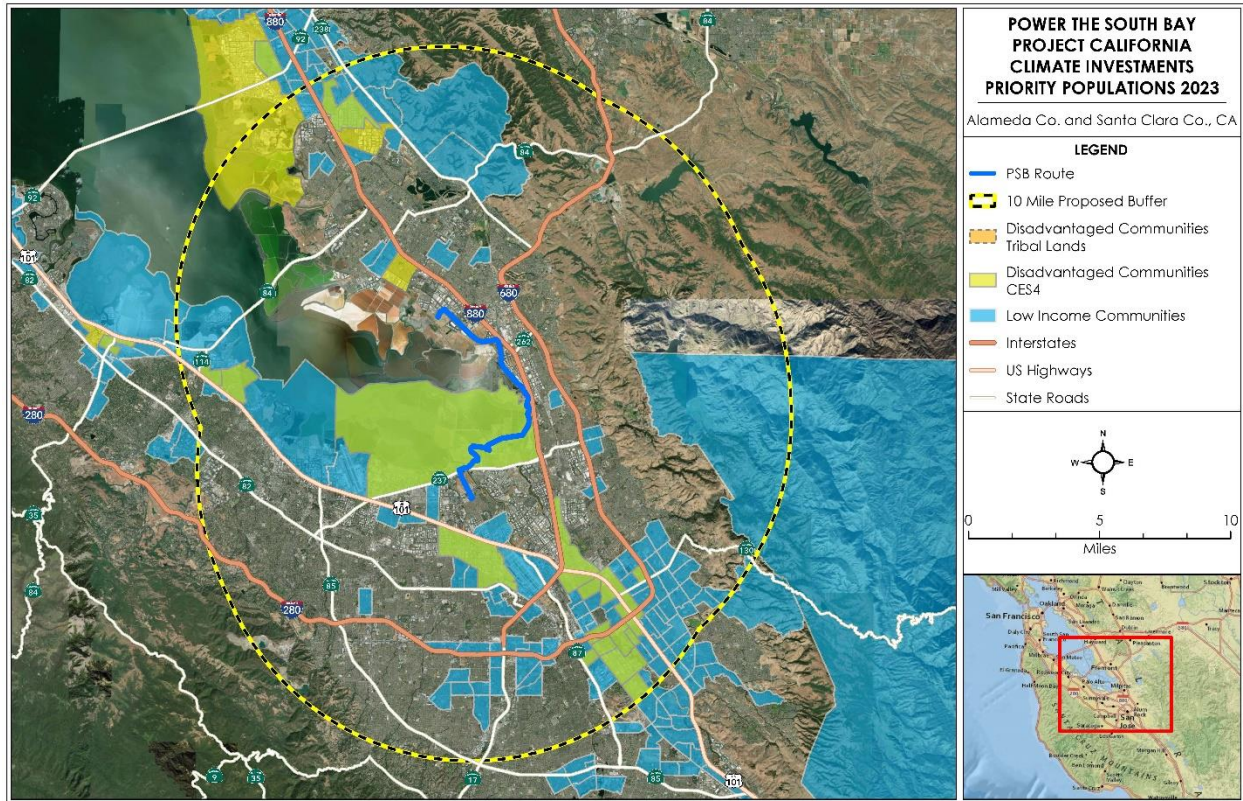


Figure 3: California Climate Investments Priority Populations (2023) Map

As analyzed in the PEA, provided as Appendix B to the Original Application, the Project will not create any significant impacts within any environmental justice community or for sensitive receptors. There will be both overhead and underground transmission lines located within an ESJ community. Approximately 4.7 miles of the Newark to NRS 230 kV transmission line will be located either overhead or underground within an ESJ community.

The approximately 1.9-mile overhead portion of the Newark to NRS 230 kV transmission line that will be located within an ESJ community will be located on an active wastewater treatment facility with restricted public access, across wastewater drying ponds, and adjacent to and in the vicinity of existing transmission lines. Impacts from the overhead portion of the Newark to NRS 230 kV transmission line located within the ESJ community will be negligible to minor, even at the location of the nearest sensitive receptors due to the low population density, proximity of existing transmission lines to the proposed line, industrial nature

of the Regional Wastewater Facility, and restricted public access. The remaining approximately 2.8 miles of the Newark to NRS 230 kV transmission line that will be located within an ESJ community will be located underground. Impacts from the underground portion of the Newark to NRS 230 kV transmission line within the ESJ community will be minimal, limited to temporary traffic disruptions and noise during construction and occasional maintenance activities.

Furthermore, as discussed in Section 5.3 of the PEA, provided as Appendix B to the Original Application and as supplemented in Appendix J to this Amended Application, the Project will generate less-than-significant air quality direct impacts and will not expose sensitive receptors near the Project area to substantial pollutant concentrations. Similarly, as further discussed in Section 5.8 of the PEA, provided as Appendix B to the Original Application and as supplemented in Appendix J to this Amended Application, the Project will not generate greenhouse gas (GHG) emissions, either directly or indirectly, that may have a significant impact on the environment or conflict with any plan, policy, or regulation adopted for the purpose of reducing GHG emissions.

Low-income and other members of disadvantaged communities may benefit from the economic stimulus due to Project construction activities and expenditures, long-term increases in tax revenues, and added capacity and reduced congestion for electrical transmission.

LSPGC will strive to ensure the Commission's ESJ Action Plan goals are enabled through the Project. LSPGC will communicate the workings of the Project, provide clear construction plans, and provide traffic plans to communities in the Project vicinity. The Project further meets the Commission's ESJ Action Plan goals by 1) increasing climate resiliency by facilitating the transmission of renewable and low-carbon energy, and 2) promoting economic and workforce development opportunities by employing members of nearby communities during

the construction of the Project. Based on these considerations, construction of the Project aligns with the Commission's ESJ Action Plan.

X. REQUESTS FOR EXEMPTIONS

In D.24-01-011 (approval of a Permit to Construct the Fern Road substation) and D.24-03-010, the Commission approved settlements between LSPGC and the Public Advocates Office (Cal Advocates) regarding exemptions from certain of the Commission's affiliate transaction rules adopted in D.97-12-088 and amended in D.98-08-035 and D.98-12-075⁵³ and certain reporting requirements. Consistent with the terms of the approved settlements, LSPGC seeks the Commission's approval of the following:

1. LSPGC is exempted from Sections V.C, V.E, and V.G of the affiliate transaction rules.
2. LSPGC is authorized to submit the independent audit report required by Section VI.C of the affiliate transaction rules every five years, rather than annually, with the first audit report due by May 1 of the year after the calendar year when LSPGC first performs activities that are subject to the audit.⁵⁴
3. LSPGC's report required by Public Utilities Code Section 587 will be limited to reporting on affiliates with which it shares resources.
4. LSPGC is authorized to file FERC Form 1 and Form 3-Q as proxies for the reporting requirements of GO 65-A and GO 104-A.

⁵³ These are the "original" affiliate transaction rules that apply to utilities with gross annual operating revenues of \$1 billion or less. LSPGC's gross annual operating revenues are less than \$1 billion.

⁵⁴ On February 20, 2025, the Commission in D.25-02-013 granted a similar modification to D.24-03-010 that set the due date for the first audit report "no later than May 1st of the year after the calendar year LSPGC becomes a Participating Transmission Owner pursuant to the CAISO tariff."

D.24-03-010 granted these exemptions subject to certain conditions. First, LSPGC must make its FERC Form 1 and Form 3-Q available to Cal Advocates on request. LSPGC agrees to this condition. Second, Cal Advocates agreed not to protest LSPGC's request for these exemptions provided:

- The project was selected in a competitive solicitation conducted by the CAISO.

The Newark to Northern Receiving Station HVDC Project was selected in a competitive solicitation conducted by the CAISO in conjunction with the Transmission Plan for 2021-2022. On November 12, 2024, the CAISO Board approved changes to the scope of the Newark to Northern Receiving Station HVDC Project and assigned responsibility for the modified Newark to NRS 230 kV Transmission Line Project to LSPGC.

- The cost of the asset will be recovered through the TAC authorized by FERC, and the asset will be subject to the CAISO's Open Access Tariff.

The Project meets both of these requirements.

- LSPGC does not serve retail customers in California.

This condition remains satisfied.

Consistent with D.24-01-011, D.24-03-010, and D.25-02-013, LSPGC respectfully asks the Commission to approve these exemptions. In addition to the settlement with Cal Advocates and the Commission's approval of these exemptions, the requested exemptions are supported by additional considerations.

A. Affiliate Transaction Rules

LSPGC requests exemption from Sections V.C, V.E, and V.G of the affiliate transaction rules.

Section V.C of the rules provides: “A utility shall not share office space, office equipment, services, and systems with its affiliates, nor shall a utility access the computer or information systems of its affiliates or allow its affiliates to access its computer or information systems. . . .” Section V.E of the rules also prohibits a utility from sharing with its affiliates support services in the areas of engineering and system operations, among other prohibited areas. LSPGC respectfully requests exemption from Section V.C and Section V.E to allow the Project to benefit from the expertise of LSPGC’s affiliates.

Section V.G of the rules provides:

[A] utility and its affiliates shall not jointly employ the same employees. This Rule prohibiting joint employees also applies to Board Directors and corporate officers, except for the following circumstances: In instances when this Rule is applicable to holding companies, any board member or corporate officer may serve on the holding company and with either the utility or affiliate (but not both). . . .

Because it has no direct employees, LSPGC proposes to use a variety of shared services from certain of its affiliates. Additionally, certain corporate officers who perform oversight activities for LSPGC’s transmission assets perform similar oversight activities for LSPGC’s affiliates, and certain officers with engineering duties are employed by an affiliate and work as shared service employees to support LSPGC. To permit LSPGC to continue this approach, LSPGC respectfully requests exemption from Section V.G.

Granting these requested exemptions to LSPGC will not undermine the objectives of the affiliate transaction rules. The Commission’s goals of fostering competition and protecting consumer interests will not be hindered by exempting LSPGC from Section V.C, Section V.E, and Section V.G of the affiliate transaction rules.

In D.18-09-030, the Commission granted exemptions from Section V.C, Section V.E, and Section V.G of the affiliate transaction rules to NextEra Energy Transmission West

(NEET West) in connection with the Suncrest Dynamic Reactive Support Project.⁵⁵ Similar exemptions were granted to DCR Transmission in D.21-11-003 for the Ten West Link Project.⁵⁶ Because the Commission has granted exemptions from the affiliate transaction rules to similarly situated transmission developers in California, LSPGC requests that it be granted similar exemptions.

B. Exemption from Annual Audit Requirement

Section VI.C of the affiliate transaction rules requires utilities to have an independent auditor perform an annual audit of the utility's compliance with the affiliate transaction rules and to submit the auditor's report to Energy Division. LSPGC asks the Commission to exempt LSPGC from Section VI.C's requirement of an annual audit and audit report on affiliate transactions; instead, LSPGC would be required to engage an independent auditor to conduct an audit and to submit an audit report every five years after LSPGC's initial audit and audit report. The initial audit would be deferred until there are activities that could be subject to the audit.⁵⁷ Subsequent audits would be performed every five years and would verify LSPGC's compliance with the affiliate transaction rules for the preceding five-year period.

The same exemption was granted to Horizon West Transmission, LLC (successor to NEET West) and Trans Bay Cable, LLC (an affiliate of Horizon West) in D.22-09-016. The Commission's justification for granting this exemption was very similar to the rationale for exemptions from the requirements of other sections:

Because their operations are under the control of CAISO, Joint Applicants do not have the opportunity to exercise market power to favor their affiliates. In addition, Joint Applicants recover their entire revenue requirement through rates

⁵⁵ D.18-09-030, p. 48.

⁵⁶ D.21-11-003, p. 78.

⁵⁷ D.25-02-013 approved a modification that set the due date for the first audit report "no later than May 1st of the year after the calendar year LSPGC becomes a Participating Transmission Owner pursuant to the CAISO tariff."

that FERC regulates and do not have the opportunity to subsidize their affiliates or provide their affiliates with discriminatory, favorable rates. The Joint Applicants also do not serve customers directly, provide retail service, or have access to customer information or accounts. As such, there is no concern for customers to be confused between them and their affiliates, and there is also no risk of them disclosing confidential customer information.⁵⁸

The same reasoning that justified the exemption for Horizon West and Trans Bay Cable also applies to LSPGC. The Commission also noted that Horizon West and Trans Bay Cable file FERC Form 1, which includes much of the information required by the affiliate transaction rules. LSPGC here proposes to submit FERC Form 1 and Form 3-Q to the Commission and to make Forms 1 and 3-Q available to Cal Advocates at any time.

Like Horizon West and Trans Bay Cable, LSPGC should be excused from the annual audits and reports required by Section VI.C and should be permitted to have an independent audit performed and an audit report submitted every five years, with the initial audit report expected to be submitted no later than May 1 of the year after the calendar year when LSPGC first performs activities that are subject to the audit. Other requirements of Section VI.C, including the requirement that the audit will be at shareholders' expense, will still apply.

C. Reporting Requirements

LSPGC also requests to be authorized to file FERC Form 1 and Form 3-Q as proxies for the reporting requirements of GO 65-A and GO 104-A.

GO 65-A requires submission of "each financial statement prepared in the normal course of business" and the annual report and other financial statements issued to stockholders. Although these reports might be useful for the Commission's oversight of the operations of utilities subject to rate regulation by the Commission, they are not warranted for LSPGC because LSPGC's recovery of its cost of service is exclusively through LSPGC's FERC-approved

⁵⁸ D.22-09-016, pp. 5-6.

formula rates, which incorporate its cost containment commitments, including a cap on the annual revenue requirement. Interested stakeholders, including the Commission and its staff, will have the ability to review LSPGC's annual reporting to FERC of its actual costs and revenue requirement for compliance with the cost containment commitments and to confirm the prudence of costs recorded in compliance with FERC accounting rules.

GO 104-A requires the filing of an annual report, and the form supplied by the Commission's Energy Division requires information that informs the regulation of cost-based rates by the Commission, such as information on income statements, sales to residential customers (LSPGC has none), and similar topics. LSPGC will provide annual reports and other financial information to FERC, and this information will be publicly available through FERC's processes.

For these reasons, LSPGC requests the Commission's authorization to file FERC Form 1 and Form 3-Q as proxies for the reporting requirements of GO 65-A and GO 104-A.

D. Reports on Affiliates

Public Utilities Code Section 587 requires utilities to submit an annual report "describing all significant transactions, as specified by the commission, between the corporation and every subsidiary or affiliate of, or corporation holding a controlling interest in" the utility. For entities like LSPGC, which has about 500 affiliates, this reporting requirement can become burdensome. In D.18-09-030, NEET West (now known as Horizon West), which has over 1,000 affiliates,⁵⁹ sought and obtained a limited exemption to this reporting requirement and was authorized to provide information relating to only those affiliates with which NEET West shared resources,⁶⁰ on the condition that NEET West would provide a copy of its FERC Form 1 to

⁵⁹ D.20-05-012, p. 7.

⁶⁰ D.18-09-030, pp. 48-49.

Commission staff and Cal Advocates' predecessor upon request. The Commission granted a similar exemption to Trans Bay Cable, an affiliate of NEET West.⁶¹

LSPGC is similarly situated to NEET West in the sense that it has numerous affiliates, many of which do not share resources with the utility. It is reasonable to extend the limited exemption that the Commission granted to NEET West to LSPGC.

E. Exemption from Public Utilities Code Sections 816-830 and 851 for Purposes of Financing Transactions

On May 14, 2024, LSPGC filed its Application of LS Power Grid California, LLC (U-247-E) For an Order Exempting Financing Transactions from Commission Authorization (Docket No. A.24-05-005). On January 16, 2025, in D.25-01-012, the Commission granted LSPGC the requested exemption with conditions and limitations. Consequently, the Commission does not need to act on this request in this proceeding.

XI. CONCLUSION

For the reasons stated in this Amended Application, LS Power Grid California, LLC respectfully requests the Commission to issue a decision:

- Granting LSPGC a Certificate of Public Convenience and Necessity authorizing construction of the Project, as described in this First Amended Application and supporting documents;
- Certifying the EIR prepared in compliance with CEQA;
- Specifying a maximum reasonable and prudent cost for the Project no less than FERC's findings of the just and reasonable costs of the Project;
- Granting the exemptions requested in this Amended Application;

⁶¹ D.20-05-012, pp. 7-8.

- Authorizing Energy Division to approve requests by LSPGC for Project modifications that may be necessary during final engineering and construction, provided that Energy Division finds that the Project modifications will not result in a significant new environmental impact or a substantial increase in the severity of previously identified significant impacts; and
- Granting such other and further relief as the Commission deems just and reasonable.

Respectfully submitted this 28th day of February, 2025 at San Francisco, California.

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By Brian T. Cragg
Brian T. Cragg

Attorneys for LS Power Grid California, LLC

VERIFICATION

I, Casey Carroll, declare:

I am an officer of LS Power Grid California, LLC and am authorized to make this verification on its behalf. The statements in the foregoing First Amended Application are true of my own knowledge, except to matters stated to be on information and belief, and as to those matters, I believe them to be true.

I declare under penalty of perjury that the foregoing is true and correct.

Executed this 28th day of February, 2025 in Chesterfield, Missouri.

A handwritten signature in blue ink, reading "Casey Carroll", is written over a horizontal line.

Casey Carroll
Vice President
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