

Back Bay Barrels LLC
3100 Irvine Ave, Newport Beach, CA 92660

ENGINEERING ANALYSIS REPORT

Prepared by

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DATE
8/30/2024



BACKGROUND

Back Bay Barrels LLC submitted a request to analyze capacity for the proposed project and necessary upgrades (if any) required to serve the requested 4.283 MVA of load by Q3, 2027. The project is located at 3100 Irvine Ave in the city of Newport Beach.

Customer requested energization date(s) are shown in Table 1.

Table 1 - Energization Phases

Load Type	Requested Load Amount	Energization Date
Commercial	4.283 MVA	8/1/2027
Total	4.283 MVA	

The project site is located approximately 1.45 miles from Bayside Substation.

At the time of this report the closest and most suitable circuit to the requested site is Pike 12kV Circuit.

SUMMARY

Engineering analysis has determined SCE can fully accommodate 4.283 MVA of the total requested amount on Pike 12kV Circuit for Back Bay Barrels LLC as of the day of this report.

STUDY ASSUMPTIONS

SCE studies the impact to the system accounting for existing and forecasted load¹, system capacity limitations, and based on the load requested as shown in Table 1 provided by the customer in their study request. Capacity limitations include, but are not limited to, substation transformer ratings, conductor thermal ratings, system protection requirements, and system voltage requirements.

ANALYSIS

Distribution Analysis:

Phase 1: 4.283 MVA

The most suitable distribution circuit in the area is the Pike 12kV Circuit out of Bayside Substation.

At the time of this report, the Distribution System has the capacity to serve the requested 4.283 MVA.

Distribution Engineering has determined that the voltage at the point of service is within Rule 2 requirements. There is also adequate protection on the circuit based on the available fault duty at this projects' location. Therefore, there are no system upgrades required for voltage or protection reasons.

Note: Details about any Rule 15 Line Extensions are not included in this study. Customers are encouraged to work with SCE's Local Planning Department on Rule 15 Line Extension requirements and any associated costs.

¹ Forecasted load in this study only includes load requests with approved full design package submittals

Subtransmission Analysis:

➤ Ellis 220/66 kV Subtransmission System Results:

Pike 12 kV is served from Bayside 66 kV substation in the Ellis 220/66kV Subtransmission System. At the time of this report, it has been determined that there is sufficient capacity at the subtransmission level in the Ellis System to serve the requested load.

DISCLAIMERS, DISCLOSURE OF STUDY ASSUMPTIONS

- This study assumes that the developer's distribution infrastructure will be in place by the requested energization date
- Any delays in the project by the developer could delay SCE's ability to meet the requested energization date
- The thermal rating of any conductor, connector, apparatus, and/or substation shall not exceed 100% of its rated capacity or loading limit
- Circuit voltage profiles shall be maintained to comply with SCE's CPUC Jurisdictional Rule 2 tariff requirements
- Operational flexibility and reliability of the Distribution System shall be maintained at all times
- For all interconnection scope the customer will need to work with SCE's Local Planning Department, and in doing so will get the most accurate information on timeline and potential financial responsibilities. Details pertaining to cost are not included in this report as its intent is to provide the customer with SCE's method of service and approximate timelines for energization.
- The results outlined in this report are based on available information at the time of analysis which may change at any time after the analysis is performed
- The proposed manner of service in this report is subject to change based on final design and may be required to comply with SCE's distribution design standards.
- Changes to customer load values, schedules, or other requests may require restudies which may cause delays to ongoing SCE engineering, planning and construction activities and ultimately impact the customer energize date.
- This report does not include costs for which the customer may be responsible for. In addition to costs for the proposed scope, additional costs associated with environmental studies may be required for the licensing or permitting of the proposed SCE facilities.
- This study does not evaluate right-of-way or easements which may be needed to provide service to the project. This study assumes that all easements and rights-of-way required for the construction of Distribution Upgrades and/or Facilities will be secured in a timely manner to accommodate the requested in-service date.
- This report does not consider potential milestone setbacks that could result from the local jurisdiction requiring underground construction of distribution facilities. SCE encourages the Customer to consult with the local jurisdiction to identify existing underground ordinance to reduce the risk of complication associated with said ordinance.
- Applicable to projects requesting primary service: This study does not include analysis related to coordination of system protection equipment. A coordination study may be required during final engineering. The coordination study may identify additional requirements such as installing new protection equipment, reprogramming and/or relocating existing protection equipment. The additional scope of work may impact the Customer's requested in-service date.
- This report does not reference the applicable tariff(s) that may apply to this installation. As line routes and further construction details are defined, SCE will evaluate each individual project and identify the appropriate tariff. The choice of tariffs will better define the Customer's responsibilities as well as each party's potential financial responsibilities. Service requests must follow SCE's new service requirements and PUC approved tariff provisions.
- When applicable, SCE discounts customer connected load amount using diversification factors that align with SCE's planning protocols.