
2016 Annual Full Capacity Option Study

WDAT1287



November 23, 2016

This study has been completed in coordination with the California Independent System Operator (ISO) per ISO Tariff Appendix DD Generator Interconnection and Deliverability Allocation Procedures (GIDAP)

Table of Contents

A.	Executive Summary.....	1
B.	Project and Interconnection Information.....	1
C.	Deliverability Assessment Study Assumptions	1
D.	Deliverability Assessment Results.....	3
E.	Conclusion.....	4

A. Executive Summary

In accordance with the California Independent System Operator Corporation (ISO) Tariff Appendix DD Section 9.2, [REDACTED] an Interconnection Customer (IC), submitted a request, which complies with Section 9.2.3, to determine whether their proposed [REDACTED] (Project) can be designated Full Capacity Deliverability Status or Partial Capacity Deliverability Status based on the available transmission capacity under the Annual Full Capacity Deliverability Option within the Queue Cluster 8 (QC8) Application Window.

The IC previously submitted a completed Interconnection Request (IR) to Southern California Edison Company (SCE) for their proposed Project with a Full Capacity Deliverability Status request (WDAT938). The Phase II Interconnection Study report for the Project was issued on December 6, 2013; and an addendum to the study report was issued on January 7, 2014. However, the Project did not receive a Transmission Plan Deliverability (TPD) allocation because the Project did not meet the minimum requirements. The IC elected Energy Only Deliverability Status after failing to get FCDS designation in the TPD allocation study.

On February 5, 2016, a second addendum to the Phase II Interconnection Study (Second Addendum) was issued which reduced the combined estimated cost, scope and construction schedule of the Distribution Provider's Interconnection Facilities, Distribution Upgrades and Network Upgrades.

The Project is a photovoltaic (PV) plant with a net generation export of [REDACTED]. The Project will interconnect to Southern California Edison Company's (Distribution Provider) Vestal-Growers-Kern River 366 kV Line via Growers Substation. The ISO delivery will be at the 220 kV bus of SCE's Vestal Substation. The cost and schedule for the Interconnection Facilities, Distribution Upgrades, and Reliability Network Upgrades required to interconnect the Project, under Energy Only Deliverability Status, remains unchanged as in the Second Addendum dated February 5, 2016.

The Annual Full Capacity Deliverability Option study has determined that there isn't transmission capacity available to support Full Capacity Deliverability Status or Partial Capacity Deliverability Status for the Project due to [REDACTED].

B. Project and Interconnection Information

For Project description and Project plan of service/point of interconnection discussion, please refer to the previously issued Phase II Interconnection Study report and associated addenda.

C. Deliverability Assessment Study Assumptions

The Deliverability Assessment base case modeled 2020 1-in-5-year heat wave ISO Control Area load. The key assumptions of the base case are described below.

Import Levels

The Deliverability Assessment base case modeled the 2016 Maximum Import Capability (MIC) for each branch group, based on the methodology for Import Capability Assignment Process for resource adequacy (ISO Tariff Section 40.5.2.2.1). In addition, MIC expansion target approved in the Transmission Planning Process is modeled. Table 2 describes the amount and modeling of imports included in this study.

Table 1: On-Peak Deliverability Assessment Import Target

[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]

New Transmission Projects

All ISO-approved transmission projects were modeled in the base case¹. In general, Delivery Network Upgrades required for generation interconnection projects up to and including Queue Cluster 8 were not included in the base case unless such upgrades have received regulatory approval. Reliability Network Upgrades required to interconnect the projects up to and including Queue Cluster 8, such as plan of service upgrades and RAS, were included in the base case model. Table 2 below list all the transmission projects that were modeled and relevant to the assessment of the Project.

Table 2: Transmission Projects Assumed in the Study

[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]

Generation Assumptions

All existing generators and generation projects up to and including QC8 were modeled according to their deliverability status.

Generation dispatch assumptions in Deliverability Assessment can be found at <http://www.ISO.com/Documents/Deliverability%20assessment%20methodologies>.

Project Plan of Service

Project specific plan of service assumptions remain the same as in the previously issued report(s).

D. Deliverability Assessment Results

The Project contributes to the [REDACTED]

¹ Based on the information from the 2013/2014 ISO Transmission Plan

E. Conclusion

The Annual Full Capacity Deliverability Option study has determined that there is no transmission capacity available to support Full Capacity Deliverability Status or Partial Capacity Deliverability Status for the Project due to [REDACTED]