Appendix A – WDT1748

Queue Cluster 14 Phase II Report

January 30, 2024

This study has been completed in coordination with the California Independent System Operator Corporation (ISO) per Southern California Edison Company's Wholesale Distribution Access Tariff (WDAT), Attachment I Generator Interconnection Procedures (GIP)

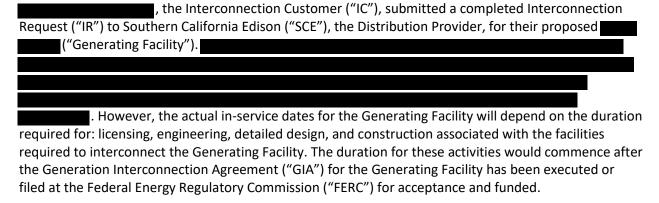
Interconnection Study Document History

No.	Date	Document Title	Description of Document
1	01/30/2024	Queue Cluster 14 Phase II	Final Phase II
1		Appendix A Report	interconnection study report

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A. INTRODUCTION



In accordance with FERC approved SCE's Wholesale Distribution Access Tariff ("WDAT") Attachment I Generator Interconnection Procedures ("GIP"), the Generating Facility was grouped with Queue Cluster 14 (QC14) Phase II projects to determine the impacts of the group as well as impacts of the Generating Facility on SCE's Distribution System and the ISO Grid. An Area Report, which contains the Subtransmission Assessment details, and Distribution Assessment Report have been prepared separately to discuss the combined impacts of all projects on the ISO Grid and impacts to facilities served out of the System System, respectively. This Appendix A report focuses only on the impacts or impact contributions of the Generating Facility to SCE's Electric System and is not intended to supersede any contractual terms or conditions specified in the forthcoming GIA.

B. REPORT OBJECTIVE

SCE performed a QC14 Phase II Study that included the Generating Facility, and this report addresses the results of the analysis.

The report provides the following:

- 1. Transmission and Distribution system impacts attributed to the Generating Facility.
- 2. System reinforcements or mitigation necessary to address the adverse impacts attributed to the Generating Facility under various system conditions.
- 3. A list of required facilities and a good faith estimate of the Generating Facility's cost responsibility and SCE's construction schedule², assuming SCE is constructing the required facilities. Such information is provided in Attachment 1 and Attachment 2 as separate documents in Appendix A report package for the Generating Facility. Specifically, the facilities that will be installed by SCE and the IC are detailed in Attachment 1.
- 4. Identification of potential short circuit duty impacts to Affected Systems served from the Transmission, Subtransmission or Distribution System.

¹ This includes non-ISO controlled Distribution System facilities at the subtransmission level (66 kV or 115 kV) and low voltage facilities that are 50 kV and below.

²It should be noted that construction is only part of the duration of months specified in the study, which includes final engineering, licensing, and other activities required to bring such facilities into service. These durations are from the execution of the GIA, receipt of: all required information, funding, and written authorization to proceed with design and engineering, procurement, and construction from the IC as will be specified in the GIA to commence the work.

accordingly an analysis

to determine the charging impacts on SCE's Electric System was conducted as well. The analyses focused on the Charging Capacity³ aspects of the Generating Facility and considered varying levels of system demand with minimal generation dispatch within the local distribution system.

Therefore, this report also discloses the following:

- a. The adequacy of SCE's Distribution System to support the Generating Facility under As-Available Charging Distribution Service.
- b. Provides a high-level explanation of potential charging restrictions on the Distribution System.
- c. The Service Level and associated As-Available Energy Charge Rate (\$/kWh) pursuant to Attachment K to the WDAT. Please refer to Attachment 2 of this report for the Service Level and associated As-Available Energy Charge Rate.

C. DESCRIPTION OF GENERATING FACILITY

Generating Facility: all equipment and facilities comprising the , as may have been amended during the Interconnection Study process, as summarized below:

Table C.1: Generating Facility general information per the IR



³ Charging Capacity: The load associated with the storage component of the Eligible Customer's Resource charged from the Distribution System that is used for later redelivery of the associated energy, net of Resource losses, to the Distribution System. Charging Capacity does not include load that is subject to the Distribution Provider's retail tariff.

Appendix A - QC14 Phase II

	Constitute Frank I with facility Constitute Facility
	Generation Export Limit for the Generating Facility
	. The IC and
	SCE acknowledge that should the Generating Facility exceed this value or if the Generating Facility is capable of exceeding this value, the IC shall be required to install, own and maintain a control
	limiting device or, alternatively, by means of configuring the Generating Facility's control system, as
	approved by SCE, that will ensure the Generating Facility complies with these restrictions.
	approved by Sel, that will ensure the deficiating racinty complies with these restrictions.
	Charging Capacity Limit for the Generating Facility
	. The IC and SCE
	acknowledge that should the Generating Facility exceed this value or is capable of exceeding this
	value the IC agrees to install, own, operate and maintain a control limiting device or, alternatively,
	by means of configuring the Generating Facility's control system.
	•
	scope of facilities that will be installed by SCE and the IC for physical interconnection of the
Jer	nerating Facility, to provide for are detailed in Attachment 1 to this Appendix A report. Figure C.1 illustrates the Generating
ac	ility and Figure C.2 illustrates the location of the Generating Facility. Additional Generating Facility
	ormation is provided in Table C.2.



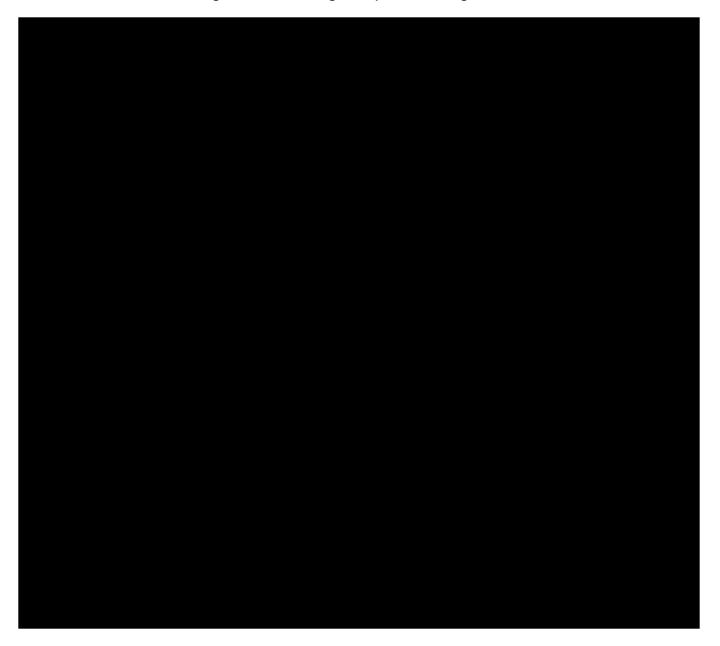
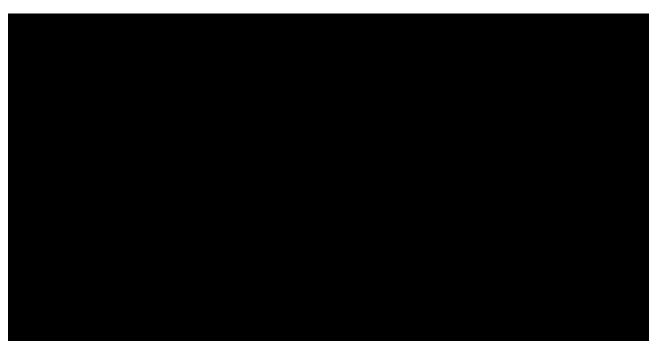




Figure C.2: Generating Facility Location Map

Table C.2: Additional Generating Facility Information per IR



The Generating Facility was modeled as described in Table C.1 and Table C.2 above.

D. STUDY ASSUMPTIONS

For detailed assumptions regarding the transmission, subtransmission and distribution system, please refer to the QC14 Phase II Area Report and Distribution Assessment Report, respectively. Below are the assumptions specific to the Generating Facility:

I. Environmental Activities, Permits, and Licensing.

Table D.3 Environmental Activities & Licensing evaluation per SCE Facilities or Upgrades



For further details on the environmental evaluation and permitting/licensing requirements for generator interconnection projects, refer to Appendix K of the Area report.

If no "X", "Y", or "N" is entered in a specific row of Table D.3, then assume no environmental scope of work or costs would apply to such SCE facilities disclosed in Attachment 1.

1. Assumed Licensing:

- a. If yes is indicated in Table D.3, SCE assumes construction of SCE's Interconnection Facilities ("IF") and/or Distribution Upgrades ("DU") needed to interconnect the Generating Facility will require a California Public Utilities Commission ("CPUC") license.
- b. If no is indicated in Table D.3, SCE assumes construction of SCE's IF and/or DU needed to interconnect the Generating Facility will not require a CPUC license.
- c. Such assumptions will be reviewed and verified after execution of a Generator Interconnection Agreement ("GIA") when detailed engineering and environmental review occur.

2. Environmental Activities Assumed Roles and Responsibilities:

i. If "IC/SCE-Shared" is marked in Table D.3:

SCE Scope of Work

- 1. SCE will act as the lead for regulatory agency communication for permits issued to SCE covering such SCE facilities.
- 2. If licensing is assumed, SCE will file for an "expedited" Certificate of Public Convenience and Necessity or "expedited" Permit to Construct by attaching the IC's certified final California Environmental Quality Act ("CEQA") document with SCE's scope of work sufficiently incorporated in lieu of a Proponent's Environmental Assessment ("PEA"). If a CEQA document is not required for the Generating Facility or if the Generating Facility's CEQA document does not sufficiently incorporate SCE's scope of work, SCE may be required to prepare a PEA for SCE's scope of work. In such cases, SCE's assumed environmental work and licensing level of effort will increase, resulting in the need to update cost and duration estimates, and potentially amend the GIA.
- 3. SCE environmental activities may include, but are not limited to, the following:
 - a) Perform all environmental studies and construction monitoring of SCE internal substation construction activities and provide study results to the IC for inclusion in its environmental documents, if applicable.
 - b) Collaborate with the IC during the environmental study phase on the IC's proposed study methodologies and findings, as studies are being planned and performed for SCE's scope of work.
 - c) Review IC's CEQA and/or National Environmental Policy Act ("NEPA") documents, technical studies, surveys, and other environmental documentation to ensure SCE's scope of work is adequately described in such documents (IC will include SCE's scope of work in its environmental documents. If the Generating Facility's CEQA and/or NEPA documents do not sufficiently incorporate SCE's scope of work, SCE's assumed environmental work and permitting level of effort may increase, resulting in the need to update cost and duration estimates, and potentially amend the GIA).
 - d) Review SCE's internal existing technical reports/documents when available.
 - e) Prepare SCE's project description, including scope changes during permitting/preconstruction or construction.

- f) Communicate scope changes to the IC's environmental team and discuss/approve subsequent actions including new surveys as necessary.
- g) Complete General Order 131-D Consistency Determination and Environmental Evaluation.
- h) Regulatory agency communication, consultation, reporting, and acquisition of SCE permits addressing SCE's facilities and scope of work.
- i) Prepare environmental requirements for construction clearance.
- j) Develop communication plan.
- k) Perform pre-construction coordination field visit.
- Provide Environmental Awareness/Worker Environmental Awareness Program ("WEAP") training.
- m) Perform construction monitoring oversight.
- n) Complete construction and post-construction site assessments.

IC Scope of Work

- 1. IC will perform all environmental studies and prepare draft environmental permit applications related to the installation of such SCE facilities, except for the SCE internal substation activities as described above. The IC's responsibilities include as applicable, but are not limited to: notifications to the Native American Heritage Commission ("NAHC") and follow-up notifications to the tribes and individuals in the NAHC contact list; performing cultural and paleontological resources records searches, cultural resources inventories (survey and recording), testing and evaluation and/or data recovery of archaeological sites, and appropriate documents in the form of inventory reports, research design, and/or data recovery reports; cultural and paleontological monitoring when/if required, and arranging curation agreements for artifacts and fossil specimens collected; performing a California Natural Diversity Database search, habitat assessment, and protocol or focused surveys for species with the potential of occurring in identified suitable habitat; conducting jurisdictional delineations for wetlands and other regulated waters; preparing draft environmental permit applications, preconstruction biological resource surveys for such SCE facilities, biological resource monitoring during construction of such SCE facilities; mitigation costs including, but not limited to, offsite/compensatory mitigation and onsite restoration, and developing mitigation plans or other environmental reports or submittals to support installation of such SCE facilities.
- Prior to commencing work and during execution of work, the IC should collaborate and obtain SCE concurrence on all work outlined above. Should the IC-performed environmental studies, surveys, or construction monitoring not meet the Federal or State industry standards in accordance with Applicable Laws and Regulations, and as determined by SCE, the IC shall be obligated to remedy deficiencies under SCE's direction.
- ii. If "SCE Only" is marked in Table D.3:
 - SCE will perform all required environmental studies, prepare environmental permit
 applications, obtain required environmental permits, and perform required monitoring
 of all SCE construction activities, and undertake habitat mitigation as required,
 including, but not limited to, offsite/compensatory mitigation and onsite restoration,
 related to the installation of such SCE facilities.

2. Under certain circumstances, such SCE facilities may need to be described and analyzed as part of the IC's CEQA and/or NEPA documents for the Generating Facility. Further coordination to discuss these circumstances may occur during GIA negotiations and/or after GIA execution. Any changes to the environmental and licensing assumptions may result in the need to update cost and duration estimates, and potentially amend the GIA.

3. Declaration Required:

As a requirement for Interconnection Customers' shared responsibility to perform the Environmental Activities for SCE-owned IF and DU as disclosed above, and to ensure proper accounting of costs used in the calculation of the ITCC and Operations & Maintenance ("O&M") charges, referred to as an Interconnection Facilities Charge and/or a Distribution Upgrades Charge, if applicable, in the forthcoming GIA for the Generating Facility, the IC is required to complete and submit an Environmental Services Costs Declaration for SCE-owned IF and/or DU required to interconnect the Generating Facility. An authorized representative of the IC will sign the declaration attesting to the actual costs spent on environmental services work that would otherwise have been performed by SCE for SCE-owned IF and DU (if applicable) required to interconnect the Generating Facility.

The declaration shall be provided to SCE by a specified date in the Generating Facility's forthcoming GIA Appendix B - Milestone table. Should the IC fail to provide the declaration by the specified deadline, SCE will hold the IC in default of the GIA pursuant to the terms therein. The costs stated by the IC in the declaration, once approved, will be used by SCE to adjust the ITCC and the applicable monthly O&M charges for the Generation Facility and will be reflected via an amendment to the GIA upon true-up.

The information stated in the declaration is subject to review and/or audit by SCE pursuant to the terms and conditions in the forthcoming GIA. Should an audit be deemed necessary by SCE, the IC will need to provide supporting documentation (copies of invoices/receipts) to substantiate the costs stated in the declaration within ten (10) business days from receipt of notice.

II. Energy Storage Considerations:

- SCE currently offers Charging Distribution Service pursuant to SCE's WDAT. In
 addition to the mitigation costs identified in this Study, Interconnection customers
 requesting As-Available Charging Distribution Service will be assessed a monthly
 charge pursuant to Attachment K Interconnection customers requesting Firm
 Charging Distribution Service will be assessed a monthly charge or mitigation costs
 identified in the Study, as applicable, pursuant to Attachment K. Please refer to
 Attachment 2 of this Study for the monthly rate assigned to the IC's Generating
 Facility.
- SCE is utilizing the Constraint Management System ("CMS") to implement near real time charging restrictions for BESS projects electing to receive ACDS on an interim basis while the Distributed Energy Resource Management System ("DERMS") is completed. Any project unable to participate in either CMS or DERMS and the only means available to the BESS project to receive ACDS is through a static charging schedule provided to the IC that will be updated on an as needed basis as new BESS projects interconnect, or at a very minimum once a year to adjust the charging

schedule in accordance to the annual load forecast. BESS projects deemed CMS compatible, will be added to the CMS on an interim basis until such time the project is migrated over to the DERMS once its operational.

• For additional energy storage considerations refer to the Distribution Assessment Report.

III. Other Items to Consider:

NA.

E. STUDY RESULTS

- 1. ISO Grid
 - a. Generation Export Analysis
 - i. Steady State Power Flow Reliability Assessment
 The results of the ISO Grid analysis, discussed in the Area report, indicate that

For details of the analysis and overload level please refer to the Area Report. Refer to Attachment 1 and Attachment 2 for additional scope and costs information related to these upgrades.

ii. Transient Analysis

Please refer to the QC14PII Area report for more information about the results of the Transmission level Transient Stability.

The transient stability study concluded that, with the addition of	
. Irai	nsient
stability plots for Off-Peak and On-Peak load conditions are provided in Appendix F.	

iii. Deliverability Assessment
Section G – Deliverability Assessment Results of this report provides information on any
Delivery Network Upgrades (Local or Area) assigned to the Generating Facility, if any.

iv. Short Circuit Duty Analysis

The SCD	evaluation	at	the	

	b.	As-	Available Charging Analysis
		The	e results of the
			Refer to the Area Report for additional details.
2.	No	n-IS0	O controlled Subtransmission System (66 kV or 115 kV)
	a.		neration Export Analysis
		I.	Steady State Power Flow Analysis
			·
		ii.	Post Transient Voltage Stability Analysis Refer to the Area Report for additional details pertaining to the post-transient voltage stability evaluation criteria and assessment results, respectively.
		iii.	Short Circuit Duty (SCD) Analysis
			The SCD evaluation at
			·
	b.	As-	Available Charging Analysis
3.	No	n-IS(O controlled Distribution System (66 kV and below)
Э.	a.		neration Export Analysis
	٠.,		Steady State Power Flow Analysis
			The study determined that the
			·
		ii.	Voltage Analysis
			The study determined that
		iii.	Protection
		111.	
			The study determined that
		iv.	Short Circuit Duty Analysis
		17.	
			The SCD evaluation at the Distribution level

b. As-Available Charging Analysis

i. Power Flow Analysis

The distribution assessment indicated

The details of the analysis are provided in the DAR.

1. As-Available Charging Restrictions

The as-available capacity is provided in Table 2-1 and Table 2-2 for the substation and circuit available capacity, based on the 2022 load forecast. This provides an estimated value of MW that the Generating Facility may be restricted to charge during a given month. This is subject to change as loading on the distribution system changes. Note that charging restrictions illustrated in the tables below for the respective areas within the distribution system (i.e. distribution substation or distribution circuit). The Generating Facility's actual charging restrictions will be based on the most restrictive loading conditions and real time information from the distribution and transmission systems.



ii. Implementation of ACDS Charging Restrictions for the Generating Facility

Refer to Attachment 1 and Attachment 2 for scope description and associated cost

responsibility for implementing the static charging schedule for the Generating Facility.

iii. Energy Charge Rate for ACDS

In accordance with SCE's Energy Storage filing at FERC amending its WDAT, if the IC elects to receive ACDS, the IC, will be responsible for paying an As-Available Energy Charge Rate (\$/kWh) per month, which is based on the metered energy usage of the Generating Facility and associated Service Level.

Please refer to Attachment K of the SCE WDAT, for information on the As-Available Energy Charge Rate applicable to the Generating Facility's BESS resource per its designated Service Level.

F. AFFECTED SYSTEMS

The Short Circuit Duty studies performed for the ISO Grid, Subtransmission System, and Distribution System have identified SCD impacts on Affected Systems. Specific to this Generating Facility, the corresponding SCD contribution to the Affected Systems is provided in Table F.1 below.

Table F.1: Short-Circuit Duty Evaluation of Neighboring Utilities Impacted by the Generating Facility



Refer to the Area Report and Distribution Assessment Report for additional details.

G. DELIVERABILITY ASSESSMENT RESULTS

Please refer to Section E of the NOL Area Report included in the QC14 Phase II report package for the details on the QC14 Phase II Deliverability Assessment.

For scope and cost information of any Network Upgrades assigned to the Generating Facility, please refer to Attachment 1 and Attachment 2/3 of this Appendix A report.

H. METERING

The Phase II Study metering scope and cost was based on proxy methodology that would presumably enable SCE to comply with its metering tariff(s). Since the IC is required to comply with SCE's Interconnection Handbook and GIP, the IC's Generating Facility's metering configuration will be evaluated post Phase II or post GIA. If post GIA, finalizing the Generating Facility's metering one-line and determining the number of meter sets required to comply with SCE's metering tariff(s) requirements will be performed

in parallel with the engineering and design phase of the project. The post GIA analysis may result in additional metering scope and cost and may impact the IC's requested ISD and COD. Any change to the Generating Facility's interconnection configuration or technology after the Phase II Study, including the metering configuration, will require the IC to submit an MMA request in accordance with the GIP.

I. INTERCONNECTION FACILITIES, NETWORK UPGRADES, AND DISTRIBUTION UPGRADES

Please see Attachment 1 for SCE's IF's, RNU's, Delivery Network Upgrades⁴ (DNUs), and DUs allocated to the Generating Facility for physical interconnection, to provide for the requested net MW output at the POI, the requested Deliverability, and the requested Charging Capacity. Please note that SCE considered current system configuration, approved SCE sponsored projects, and all queued generation in determining scope for IFs and/or plan of service but will not "reserve" the identified scope of upgrades for the proposed POI unless a GIA is executed per the specified timelines shown in Table K.1.

J. COST AND CONSTRUCTION DURATION ESTIMATE

1. Cost Estimate

The Generating Facility's estimated interconnection costs, adjusted for inflation and provided in 'constant' 2023 dollars escalated to the Generating Facility's feasible COD (as identified below in Table K.1), are provided in Attachment 2, including the applicable charges for Charging Distribution Service, and the Generating Facility's allocated cost for shared network upgrades are provided in Attachment 3 to this Appendix A report. The interconnection costs will be in the forthcoming GIA for the Generating Facility. However, should there be a delay in executing the GIA beyond 2024 (e.g., the IC decides to "park" the Generating Facility pursuant to GIP Section 4.6.13), a new cost estimate adjusted for inflation will be required and reflected into the forthcoming GIA for the Generating Facility.

2. Preliminary Durations for SCE Engineering, Design, and Construction to enable interconnection of the Generating Facility

The duration shown in Table J.1 represents the estimated time needed for SCE to design, procure, and construct the applicable facilities with the start date of the duration based on the effective date of the GIA; and necessarily include timely receipt of all required information and written authorizations to proceed (ATP), and timely receipt of construction payments and financial security postings and other milestones. The durations for the facilities identified for the Generating Facility is as follows:

Table J.1 Estimated Execution Duration for Generating Facility

Facilities	Description	Duration (months) 5	Notes

⁴ At the IC's discretion, the IC or parties other than SCE pursuant to Section 10.2 under GIP may construct an Option (B) Generating Facility Area Delivery Network Upgrades (ADNUs) not allocated TP Deliverability. If SCE does not construct the ADNUs, the IC is not required to make the third Interconnection Financial Security posting to SCE pursuant to Section 4.8.4.2.1 under GIP.

Short Circuit Duty Mitigation Durations: It is important to note that short-circuit duty upgrades identified as part of the QC14 Phase II interconnection studies were derived with the inclusion of all active higher-queued generation projects without regard to corresponding desired in-service dates or actual project status. Changes to the higher-queued generation projects as well as changes to generation projects in QC14, such as withdrawals, downsizing, suspensions, or deferrals to proposed in-service dates, may allow for the identified earliest in-service to be accelerated to align with the construction timing for the plan of service and Interconnection Facilities needed to interconnect the project. Ultimately, SCD upgrades will be scheduled based on actual development of generation resources identified to meaningfully increase SCD on the identified overstressed circuit breakers as determined based on execution of Generation Interconnection Agreements or other agreements that commit a project towards development.



Notes:

1. Construction Duration Estimates and Identified Upgrades

Any construction durations identified in this section may vary. During the cluster study process, SCE includes all queued and active generation projects without regard to corresponding desired in-service dates or actual project status to identify SCD, DUs, and SCE construction duration. Such duration, of course, affects the ISD for this specific project. As status for queued projects could change (withdrawals, downsizing, suspensions, or deferred in-service dates), as a result SCE may be able to accelerate in-service dates for projects affected by status changes. Furthermore, SCE will only begin design/construction of an identified SCD and DU when enough projects 1) execute and fund a Generation Interconnection Agreement and/or a Letter of Agreement with SCE and 2) those projects trigger the need for an upgrade.

2. Coordination of Environmental Work.

Where this study assumes that the IC will perform environmental work related to the installation of SCE's IFs, and DUs as specified in this report, the IC is advised that any durations provided above assume so and that the IC will perform this environmental work and Civil Construction related to the installation of SCE's IFs and/or DUs specified in this report and will

perform them in parallel with SCE's preliminary design and engineering. The IC is expected to engage SCE to obtain concurrence prior to commencement of any environmental work and during execution of that work. Since SCE will be using the IC's environmental documents and/or work products, IC delays producing them may delay SCE's ability to obtain required permits and/or license(s). Such delays would likely cause additional delays in the commencement of SCE's final engineering, procurement, and construction. These delays could increase any durations identified in this report and push out the feasible ISD provided in Table K.1 ISD and COD Assessment.

All civil construction related to SCE's IF and DUs must be completed and approved by SCE inspectors prior to SCE scheduling the electrical construction of the Interconnection Facilities and Distribution Upgrades.

3. Circuit Breaker Procurement Delays

Due to supply chain issues, the lead times associated with procuring equipment, particularly Circuit Breakers (CB), have increased across the industry. Specifically, this procurement challenge impacts the estimated duration to physically interconnect a generating facility, and any short circuit duty mitigation that requires replacing CBs. Consequently, estimated durations for these types of upgrades have increased and are reflected in this report under their applicable upgrade classification (generally as either a Reliability Network Upgrade, a Distribution Upgrade and/or Interconnection Facility). The estimated durations for CBs in this report are based on vendor information known to date and are subject to change.

3. Other Potential Costs to the Generating Facility

a. The IC will be required to procure and construct underground duct banks and related structures required for SCE's IF and DUs (Civil Construction⁶) in accordance with specifications and designs provided by SCE.

K. IN-SERVICE DATE AND COMMERCIAL OPERATION DATE ASSESSMENT

An ISD and COD assessment was performed for the Generating Facility to establish SCE's estimate of the earliest achievable ISD based on the cluster study process timelines and the time required for SCE to complete the facilities needed to enable physical interconnection as an Interim Deliverability or Energy Only Deliverability interconnection (as applicable) for the Generating Facility. This date may be different from the IC's requested ISD and will be the basis for establishing the associated milestones in the draft GIA.

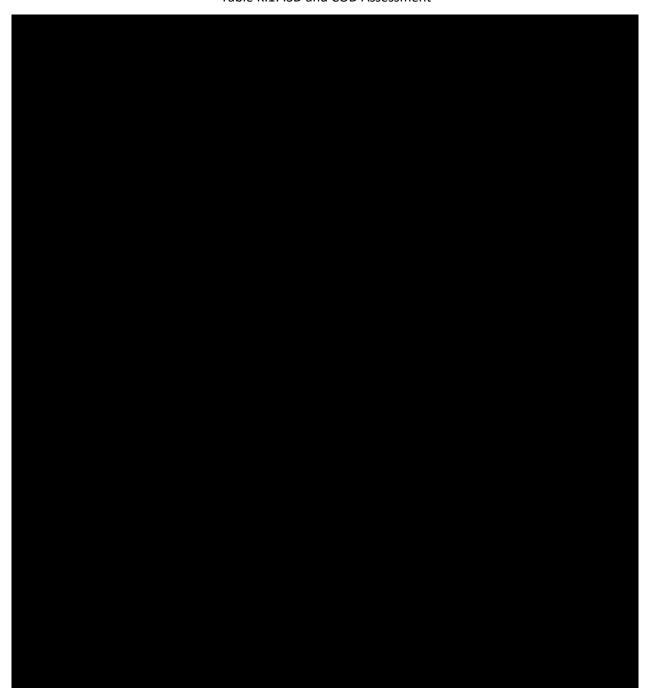
1. ISD Estimation Details

The IC understands and acknowledges that the Civil Construction in support of the interconnection for the Generating Facility may be classified as the IC-constructed SCE IF and/or DUs and may require transfer of ownership pursuant to Section 3 (1) under Appendix C of the GIA. The IC understands and acknowledges that it shall be responsible for the ITCC and ongoing monthly IF Charge and/or DUs charge of the portion of Civil Construction and prior to the ISD of the Civil Construction, IC shall provide SCE the final invoiced costs of the portion of Civil Construction transferred to SCE and shall be an acceptable form

For the QC14 Phase II Interconnection Study, the estimated earliest achievable ISD is derived by the time requirements to complete the following:

- 1. QC14 Interconnection Study Process
- 2. Tender a draft GIA
- 3. Negotiate and execute the GIA
- 4. Longest duration associated with the facilities required to interconnect the Generating Facility (i.e., IF, RNU, and DU), per the durations specified in table J.1. above.

Table K.1: ISD and COD Assessment





Notes on the Achievable ISD and COD calculation:

- This calculation assumes the estimated duration to construct those facilities required for the Generating Facility to achieve Interim Deliverability Status or Energy-Only Deliverability Status (as defined in the ISO Tariff) until the applicable DNUs are completed.
- 2) The project execution durations shown represents the estimated amount of time needed to engineer, design, procure, and construct the facilities from the effective date of the GIA; and timely receipt of the IC's initial specification information, written authorization to proceed ("ATP"), project payments, financial security postings, and timely completion of project milestones.
- 3) The IC-requested dates are specified in the IR submitted to SCE in accordance with GIP Section 4.6.1. Table K.1 provides SCE's estimated achievable ISD and COD for the Generating Facility in compliance with GIP Section 4.9.2. The actual ISD, Initial Synchronization Date, and COD will depend on licensing, engineering, detailed design, procurement, and construction requirements to interconnect the Generating Facility after the GIA has been executed or filed at the Federal Energy Regulatory Commission ("FERC") for acceptance.
- 4) Assumes that GIA is tendered after the TP Deliverability allocation results are disclosed, the required affidavit is submitted accepting or rejecting the deliverability allocation, and the IC has submitted written notification to SCE requesting a draft GIA.

2. ISD Conclusion

L. TIMING OF FULL CAPACITY DELIVERABILITY STATUS, INTERIM DELIVERABILITY STATUS, AREA CONSTRAINTS, AND OPERATIONAL INFORMATION

The Generating Facility would be granted its requested FCDS only if the Generating Facility receives a Transmission Plan Deliverability ("TPD") allocation in the forthcoming TPD Allocation Study Process. Furthermore, timing of obtaining the requested FCDS is dependent on the completion of assigned Delivery Network Upgrades ("DNU") and Precursor Network Upgrades ("PNU") ⁷ identified in the QC14 Phase II Transmission Deliverability Analysis. The identified DNU's and PNU's if any, may be updated in any subsequent annual reassessment. Until such time that these DNUs and PNUs are completed and placed in-service, the Generating Facility may be granted Interim Deliverability Status based on annual system availability. For a discussion on the deliverability study results and the potential timing of FCDS once a TPD allocation has been obtained, refer to Section E of the Area Report.

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⁷ PNUs are Network Upgrades required for an Interconnection Customer that consist of (1) Network Upgrades whose cost responsibility is assigned to an earlier Interconnection Customer that has executed its GIA; and (2) Network Upgrades in the approved ISO Transmission Plan.

Attachment 1:

Interconnection Facilities, Network Upgrades and Distribution Upgrades

Please refer to separate document

Attachment 2:

Escalated Cost and Time to Construct for Interconnection Facilities, Reliability Network Upgrades,
Delivery Network Upgrades, and Distribution Upgrades

Please refer to separate document

Attachment 3: Allocation of Network Upgrades for Cost Estimates and Maximum Network Upgrade Cost Responsibility Please refer to separate document

Attachment 4: SCE's Interconnection Handbook

Preliminary Protection Requirements for Interconnection Facilities are outlined in the SCE's Interconnection Handbook at the following link:

https://on.sce.com/InterconnectionHandbook.

Attachment 5: Short-Circuit Duty Calculation Study Results

Please refer to the Appendix H of the Area Report

Attachment 6: Not Used

Attachment 7: **Not Used**

Attachment 8: Distribution Assessment Report

Please refer to separate document