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# **Addendum to Phase II Report- WDAT925**

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## **ADDENDUM TO QUEUE CLUSTER 5 PHASE II REPORT**

December 29, 2013

This study has been completed in coordination with California Independent System Operator Corporation (CAISO) per CAISO Tariff Appendix DD Generator Interconnection and Deliverability Allocation Procedures (GIDAP) for Interconnection Requests in a Queue Cluster Window.

## Executive Summary

██████████ the Interconnection Customer (IC), has submitted a completed Interconnection Request (IR) to the Southern California Edison Company (SCE) for their proposed ██████████ under the terms of SCE's Wholesale Distribution Access Tariff (WDAT), WDAT925.

Subsequent to the release of the QC5 Phase II report package for the Project it was determined that the following items in the QC5 Phase II report package for the Project needed to be updated to reflect the treatment of the one-time costs as applicable per the specified upgrade classification.

1. Cost and Construction Duration Estimates for Upgrades in Area (Appendix E) of the Area report dated December 3, 2013.

In addition, the Interconnection Facilities, Network Upgrades and Distribution Upgrades (Attachment 2) of the Appendix A report for the Project updated to reflect the installation of a centralized RTU (if applicable)..

These items have been updated accordingly, and are attached as part of this Addendum report package. The corresponding changes replace and supersede those same sections in the Project's QC5 Phase II Appendix A report dated December 6, 2013.

### Summary of changes:

1. Replace the following in the QC5 Phase II report package:
  - a. Cost and Construction Duration Estimates for Upgrades in Area (Appendix E) of the Area report dated December 3, 2013 to reflect the updated estimated costs as stated above to reflect the change(s) mentioned above.
2. Replace the Interconnection Facilities, Network Upgrades and Distribution Upgrades (Attachment 2) of the Appendix A report for the Project dated December 6, 2013 to reflect the change mentioned above.

The remainder of the original report is unchanged.

**Attachment 2**

**Interconnection Facilities, Network Upgrades, and Distribution Upgrades**

Please refer to separate document.

## **Appendix E**

### **Cost and Construction Duration Estimates for Upgrades in Area**

Please refer to separate document.

**Attachment 2 to Queue Cluster 5 Phase II Addendum Report**

**WDAT925 –** 

**Interconnection Facilities, Network Upgrades, and Distribution Upgrades**


## Interconnection Facilities, Network Upgrades, and Distribution Upgrades

Distribution Provider's Interconnection Facilities, Network Upgrades, and Distribution Upgrades described in this Attachment are based on the Distribution Provider's preliminary engineering and design. Such descriptions are subject to modification to reflect the actual facilities that are constructed and installed following the Distribution Provider's final engineering and design, identification of field conditions, and compliance with applicable environmental and permitting requirements.

### 1. Interconnection Facilities.

- (a) **Interconnection Customer's Interconnection Facilities.** The Interconnection Customer shall:
- (i) Install [REDACTED] with an [REDACTED]
  - (ii) Procure and construct underground duct banks and related structures required for Distribution Provider's Interconnection Facilities and Distribution Upgrades ("Civil Construction")<sup>i</sup> in accordance with specifications and designs provided by the Distribution Provider.
  - (iii) Obtain all necessary permits and easements associated with installation of Civil Construction.
  - (iv) If applicable, provide the following:
    1. Completed Interconnection Customer information sheet
    2. Street improvement plan(s)
    3. Unique address for Point of Interconnection
    4. Public right-of-way (street) base map(s) as required by the interconnection
    5. Site plot plan on a 30:1 scale digital file as follows:
      - a. Easements/lease agreement(s)
      - b. Grading plan(s)
      - c. Sewer and storm plot plan(s)
      - d. Landscape, sprinkler, pedestal location(s)
      - e. Complete construction of underground systems for the Distribution Provider's Interconnection Facilities and Distribution Provider's Distribution Upgrades
  - (v) Acquire an agreement from the property owner of the parcel(s) [REDACTED] for the [REDACTED] for the Distribution Provider to have the following:
    1. The right to enter property owner's premises for any purpose connected with the Distribution Provider's Interconnection Facilities or interconnection service,
    2. The right for the use of a Distribution Provider approved locking device if Interconnection Customer wants to prevent unauthorized access to Distribution Provider's Interconnection Facilities,
    3. The right for safe and ready access for Distribution Provider's personnel free from unrestrained animals,
    4. The right for unobstructed ready access for Distribution Provider's vehicles and equipment to install, remove, repair, and maintain its Interconnection Facilities,

## Interconnection Facilities, Network Upgrades, and Distribution Upgrades

5. The right to remove Distribution Provider's Interconnection Facilities after termination of interconnection service.
- (vi) Install, in coordination with, and as specified by, the Distribution Provider, a dedicated T1 circuit from the local telephone company to support the Remote Terminal Unit ("RTU") communication to the Distribution Provider's energy management system in accordance with the Interconnection Handbook if an RTU is installed locally at the Generating Facility.
- (vii) Designate, to the T1 circuit provider, the Distribution Provider as a representative authorized to report trouble to, and to initiate repairs with, the communication circuit provider on the Interconnection Customer's behalf in the event of an interruption of service on the communication circuit if a T1 circuit is required for the support of an RTU installed locally at the Generating Facility.
- (viii) Allow the Distribution Provider to review the Interconnection Customer's telecommunication equipment design and perform inspections to ensure compatibility with the Distribution Provider's RTU, or equipment related to an alternative approved by the Distribution Provider, and related terminal equipment; allow the Distribution Provider to perform acceptance testing of the telecommunication equipment and the right to request and/or to perform correction of installation deficiencies.
- (ix) Provide required data signals, make available adequate space, facilities, and associated dedicated electrical circuits within a secure building having suitable environmental controls for the installation of the Distribution Provider's RTU in accordance with the Interconnection Handbook.
- (x) Make available adequate space, facilities, and associated dedicated electrical circuits within a secure building having suitable environmental controls for the installation of the Distribution Provider's telecommunications terminal equipment in accordance with the Interconnection Handbook.
- (xi) Install all required ISO-approved compliant metering equipment at the Generating Facility, in accordance with Section 10 of the ISO Tariff.
- (xii) Allow the Distribution Provider to install, in the switchgear provided by the Interconnection Customer, revenue meters, potential transformers ("PTs"), retail load at the Generating Facility in accordance with the Distribution Provider's electrical service requirements as described in the Interconnection Handbook.
- (xiii) Install all equipment necessary to comply with the power factor requirements of Article 9.6 of the GIA, including the ability to regulate power factor to a schedule (VAR schedule) in accordance with the Interconnection Handbook.
- (xiv) Provide switchboard drawings which shall comply with Distribution Provider's Electrical Service Requirements which can be obtained at:  

- (xv) Install disconnect facilities in accordance with the Distribution Provider's Interconnection Handbook to comply with the Distribution Provider's switching and tagging procedures.
- (xvi) Install a breaker within the Interconnection Customer's property line Requirements to comply with the Distribution Provider's protection requirements
- (xvii) Install all equipment and controls necessary to maintain the Generating Facility's output ramp rate within the parameters set forth, and provided to the

## Interconnection Facilities, Network Upgrades, and Distribution Upgrades

Interconnection Customer, by the Distribution Provider, in accordance with Attachment 5 of this GIA.

(b) **Distribution Provider's Interconnection Facilities.** The Distribution Provider shall:

(i) **Portland 33 kV Circuit.**

1. Install approximately 250 feet of [REDACTED]
2. Install [REDACTED]
3. [REDACTED]
4. Install [REDACTED] metering equipment, and associated wiring

(ii) **Telecommunications.**

Install all required equipment (including terminal equipment) supporting the RTU or alternative approved by the Distribution Provider, including the communications interface with the Distribution Provider's energy management system. In accordance with the Interconnection Handbook, the Distribution Provider shall provide the required interface equipment at the Generating Facility necessary to connect the RTU to the Interconnection Customer's T1 circuit if a RTU is installed locally at the Generating Facility. Additionally, the Distribution Provider will provide the interface equipment required to connect the T1 circuit to the Distribution Provider's energy management system if a RTU is installed locally at the Generating Facility. Notwithstanding that certain telecommunication equipment, including the telecommunications terminal equipment, will be located on the Interconnection Customer's side of the Point of Change of Ownership, the Distribution Provider shall own, operate and maintain such telecommunication equipment as part of the Distribution Provider's Interconnection Facilities if a RTU is installed locally at the Generating Facility.

(iii) **Real Properties, Transmission Project Licensing, and Environmental Health and Safety.**

Obtain easements and/or acquire land, obtain licensing and permits, and perform all required environmental activities for the installation of the Distribution Provider's Interconnection Facilities, including any associated telecommunication equipment for the Portland 33 kV Circuit.

(iv) **Metering.**

Install primary metering cabinet, revenue meters and appurtenant equipment required to meter the retail load at the Generating Facility. The meters and appurtenant equipment will be located on the Distribution Provider's side of the Point of Change of Ownership. The Distribution Provider shall own, operate and maintain such facilities as part of the Distribution Provider's Interconnection Facilities.

(v) **Power System Control.**

Install one (1) RTU at the Generating Facility to monitor typical generation elements such as MW, MVAR, terminal voltage and circuit breaker status for the Generating Facility and plant auxiliary load, and transmit the information received thereby to the Distribution Provider's grid control center.



## **Interconnection Facilities, Network Upgrades, and Distribution Upgrades**

Notwithstanding that the RTU will be located on the Interconnection Customer's side of the Point of Change of Ownership, the Distribution Provider shall own, operate and maintain the RTU as part of the Distribution Provider's Interconnection Facilities. Notwithstanding the foregoing, at the Distribution Provider's election, an alternative to installing a RTU locally at the Generating Facility may be implemented in accordance with specifications provided by the Distribution Provider to comply with the real-time telemetering requirements set forth in the Interconnection Handbook.

### **2. Network Upgrades.**

(a) **Stand Alone Network Upgrades.** None.

(b) **Other Network Upgrades.**

(i) **Reliability Network Upgrades.** None.

(ii) **Delivery Network Upgrades.**

1. **Area Delivery Network Upgrades.** None.

2. **Local Delivery Network Upgrades.** None.

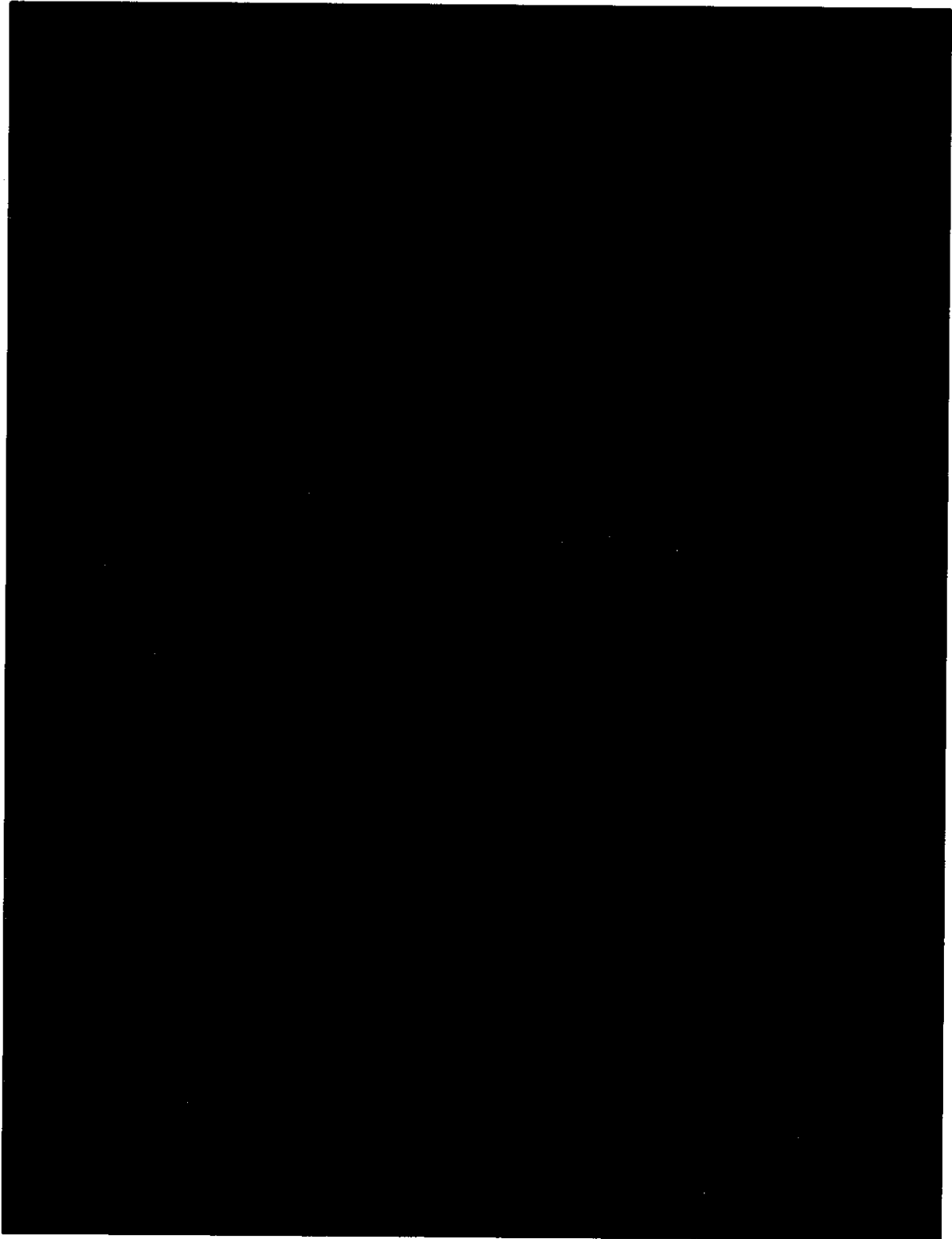
**3. Distribution Upgrades.** None.

**4. Affected System Upgrades.** Not Used.

**5. Point of Change of Ownership.** The Point of Change of Ownership shall be the point where the conductors of the Portland 33 kV Circuit are attached to the Interconnection Customer's 33 kV gang-operated disconnect switch.

**6. Point of Interconnection.** The Distribution Provider's Portland 33 kV Circuit out of Victor 115/33 kV Substation.

**7. One-Line Diagram of Interconnection to the Portland 33 kV Circuit out of Victor 115/33 kV Substation.**



## **Interconnection Facilities, Network Upgrades, and Distribution Upgrades**

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<sup>i</sup> The Interconnection Customer understands and acknowledges that the Civil Construction in support of the interconnection for the Project may be classified as Interconnection Customer-constructed Distribution Provider interconnection facilities and/or Distribution Upgrades and may require transfer of ownership pursuant to Section 3(l) under Appendix C of the GIA. The Interconnection Customer understands and acknowledges that it shall be responsible for the ITCC and ongoing monthly Interconnection Facilities Charge and/or Distribution Upgrades charge of the portion of Civil Construction transferred to Distribution Provider. In addition, following completion of construction of the Civil Construction and prior to the in-service date of the Civil Construction, Interconnection Customer shall provide to Distribution Provider the final invoiced costs of the portion of Civil Construction transferred to Distribution Provider and shall be an acceptable form to Distribution Provider.