



**FACILITY INTERCONNECTION REQUIREMENTS
FOR INTERCONNECTION TO THE CPS ENERGY
BULK ELECTRIC SYSTEM**

Effective Date: January 1, 2024

Document Control

Authorities

Document Owner	Role
Kenneth Bowen	Manager Transmission Planning
David Milner	Principal Transmission Planning Engineer

Approvals

Document Approver	Role	Date Approved
Ricardo Maldonado	VP T&D Engineering and Grid Transformation	12/21/2023
Rick Urrutia	VP Generation Operations	12/27/2023
Ricardo Renteria	Senior Director Substation and Transmission	12/21/2023
Adam Marin	Director Substation and Transmission Engineering	12/21/2023
George J. Tamez	Director Grid Transformation and Planning	12/21/2023

Distribution List

Name	CPS Energy Organization
Robert Stevens / Jimmy Jackson / Glenn Pressler	Compliance Reliability & Protocols
Document Owners & Document Approvers (see above)	(as listed above)

The revision history below reflects changes to the document or its structure.

Revision History

Revision	Reason for Issue	Issue Date	Next Review Date
1.0	Facility Connection Requirements Created In Response To New NERC FAC-001-0 Reliability Standard.	11/29/2007	As needed
1.1	Added NERC FAC-001-0 Requirement Numbers And Changed Verbiage To More Closely Match The Standard.	02/11/2009	As needed
1.2	Added References To ERCOT Guides And Protocols.	05/01/2011	As needed
1.3	Minor Change To Metering References.	09/01/2011	As needed
2.0	Major Revisions In Document Structure and Verbiage In Response To New NERC FAC-001-2 Reliability Standard.	12/09/2016	As needed
3.0	Added NERC FAC-001-3 requirements	12/27/2018	As needed
4.0	Added NERC FAC-001-4 requirements	12/28/2023	As needed

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INTRODUCTION

This document is organized to correspond with the NERC FAC-001-4 Reliability Standard and provides minimum requirements to interconnect with the CPS Energy BES. Other specific requirements may be determined at the time of interconnection.

Definitions and Acronyms

<i>CPS Energy BES</i>	Consistent with the NERC definition of BES (Bulk Electric System), with all inclusions and exclusions contained therein, the CPS Energy BES includes the 138 kV and 345 kV transmission Facilities owned by CPS Energy.
<i>End-User Facility</i>	An Interconnecting Facility that serves an Interconnecting Entity's customer load and is directly connected to the CPS Energy BES.
<i>ERCOT</i>	Electric Reliability Council of Texas, Inc.
<i>ERCOT BES</i>	Consistent with the NERC definition of BES, the ERCOT BES includes the 138 kV and 345 kV transmission Facilities of all Interconnecting Entities interconnected with the ERCOT grid, including the CPS Energy BES.
<i>FERC</i>	Federal Energy Regulatory Commission
<i>Good Utility Practice</i>	Has the same meaning as described in PUCT Substantive Rule §25.5.
<i>Interconnecting Entity</i>	An entity that currently interconnects or is proposing to interconnect Generation, Transmission or End-User Facilities to the CPS Energy BES.
<i>Interconnecting Facility</i>	Facilities owned by an Interconnecting Entity that are either currently interconnected or proposed to be interconnected with the CPS Energy BES.
<i>Large Load</i>	Consistent with ERCOT definition of Large Load, a Large Load is one or more Facilities at a single site with an aggregate peak Demand greater than or equal to 75 MW behind one or more common Points of Interconnection (POIs) or Service Delivery Points.
<i>Load</i>	Consistent with the NERC definition of Load, an end-use device or customer that receives power from the electric system.
<i>NERC</i>	North American Electric Reliability Corporation
<i>NESC</i>	National Electric Safety Code
<i>OSHA</i>	Occupational Safety and Health Administration
<i>Party or Parties</i>	CPS Energy and the Interconnecting Entity may be singularly referred to as "Party" or jointly referred to as "Parties" within this document.
<i>Point Of Interconnection (POI)</i>	The point(s) where ownership of the Interconnecting Facility changes from CPS Energy to the Interconnecting Entity.
<i>Power Quality</i>	The quality of the voltage and current waveforms at the POI.
<i>PUCT</i>	Public Utility Commission of Texas

<p><i>Qualified Change</i></p>	<p>Consistent with ERCOT definition, qualified change is defined here for each connection type:</p> <p><u><i>Generation Facility:</i></u> Has the same meaning for modifications to existing interconnections of generation Facilities as described in ERCOT Planning Guide Section 5.2.1(1).c, Applicability.</p> <p><u><i>Transmission Facility:</i></u> Modifications to existing transmission Facilities that are classified as Tier 1, 2, or 3 projects as defined in Protocols Section 3.11.4.3, Categorization of Proposed Transmission Projects. Modifications to existing transmission Facilities that are classified as Tier 4 projects as defined in Protocols Section 3.11.4.3, Categorization of Proposed Transmission Projects, and that are reported in the Transmission Project and Information Tracking (TPIT).</p> <p><u><i>End-user Facilities:</i></u> Modifications of an existing Load Facility, that after modification, the Load Facility qualifies as a Large Load. Modification of any existing Load Facility that increases the aggregate peak Demand of the Facility by 75 MW or more. Modification of an existing Large Load that changes or adds a Point of Interconnection or Service Delivery Point to a different electrical bus on a different electrical circuit.</p>
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REQUIREMENTS

R1. Transmission Owner Facility Interconnection Requirements

This document outlines CPS Energy's Facility Interconnection Requirements for entities wishing to interconnect with the CPS Energy BES. This document will be updated as needed and will be made available upon request.

All proposed Interconnecting Facilities shall be designed and operated in accordance with the Facility Interconnection Requirements contained herein and any applicable requirements of ERCOT, FERC, NERC, NESC, OSHA and the PUCT. Addition of an Interconnecting Facility or changes to an existing Interconnecting Facility shall not negatively impact system stability, reliability, operability, maintainability or utility of the CPS Energy BES. The CPS Energy Facility Interconnection Requirements, contained herein, address interconnection requirements for:

- 1.1. GENERATION FACILITIES**
- 1.2. TRANSMISSION FACILITIES**
- 1.3. END-USER FACILITIES**

R2. Generator Owner Facility Interconnection Requirements

CPS Energy, as a Generator Owner, does not own BES equipment with which a third party could interconnect. Therefore, CPS Energy, as a Generator Owner, is exempt from the requirement to have a Facility interconnection requirement.

R3. Transmission Owner Interconnection Study Procedures

The CPS Energy Facility Interconnection Requirements, contained herein, address the following:

3.1. Procedure to Coordinate System Studies and to Identify System Impacts

Procedures for coordinated studies and for identifying the impacts on affected systems for new interconnections or existing Interconnecting Facilities seeking to make a Qualified Change and their impact on the ERCOT and CPS Energy BES vary depending upon the type of Interconnecting Facility for which the Interconnecting Entity is seeking interconnection.

Generation Interconnecting Facility

CPS Energy performs a Full Interconnection Study for new or existing generation Interconnecting Facilities seeking to make a Qualified Change, in accordance with ERCOT Planning Guide Section 5 [Generation Resource Interconnection or Change Request].

Transmission Interconnecting Facility

CPS Energy follows ERCOT processes to develop a coordinated study to determine the impact on both the ERCOT and CPS Energy BES when either ERCOT, an Interconnecting Entity or CPS Energy identifies a potential need to add or seeking to make a Qualified Change to an existing transmission Interconnecting Facility.

For Tier 1, 2 and 3 projects, CPS Energy follows ERCOT processes in ERCOT Nodal Protocol Section 3.11.4 [Regional Planning Group Project Review Process] to perform studies and to

submit projects for ERCOT review.

For Tier 4 projects, as defined in ERCOT Nodal Protocol Section 3.11.4.3, that are reported in the Transmission Project and Information Tracking (TPIT) report, CPS Energy follows the Transmission Interconnection Study (TIS) process defined in Planning Guide Section 3.1.9.

End-User Interconnecting Facility

The process to study the impact of new interconnection or Qualified Change to an existing End-User Interconnecting Facilities on the CPS Energy BES begins when a customer commitment is secured, through an executed agreement, to a load ramp schedule that would meet the Qualified Change definition provided in this document. The study process includes defining the study area that the new load would impact, performing pertinent studies on the study area (steady-state, short-circuit, stability, as need is determined on case by case basis) and determining system performance impact due to the new or Qualified change.

If it is determined that changes to the CPS Energy BES or neighboring Interconnecting Entity's BES are necessary to accommodate the new interconnection or the Qualified Change to an existing End-User Interconnecting Facility, then the process defined in ERCOT Nodal Protocol Section 3.11.4 [Regional Planning Group Project Review Process] will be followed.

3.2. Notification

When it is determined through coordinated studies that the addition of new interconnection or a Qualified Change to an existing interconnecting Facilities affects the reliability of a neighboring Interconnecting Entity's BES, CPS Energy notifies the affected Party by following the appropriate ERCOT processes, which include responsibility of communicating and coordinating studies through appropriate ERCOT email lists, as described below for each type of Interconnecting Facility.

Generation Interconnecting Facility

ERCOT Planning Guide Section 5.3.2.5(1) requires Transmission Service Providers (TSPs) to share results of the Full Interconnection Study with ERCOT TSP's via the online Resource Integration and Ongoing Operations (RIOO) system.

Transmission Interconnecting Facility

ERCOT Nodal Protocol Section 3.11.4 [Regional Planning Group Project Review Process] allows TSPs to submit project proposals to the Regional Planning Group, through ERCOT. All stakeholders that are members of the Regional Planning Group have the opportunity to comment on the proposed project (Planning Guide Section 3.1.5 [Regional Planning Group Comment Process]). All neighboring Interconnecting Entities are members of the Regional Planning Group. Additionally, for projects identified as Tier 4, these projects are listed in the Transmission Project Information Tracking spreadsheet posted by ERCOT three times a year.

End-User Interconnecting Facility

When a new interconnection or a Qualified Change to an existing End-User Interconnecting Facility causes the need for a change to the CPS Energy or neighboring Interconnecting Entity's BES, then a project will be submitted to the ERCOT Regional Planning Group for review and comment.

3.3. Confirming

The geographic location (point of interconnection) is provided as part of the interconnection request and is utilized to ensure the request is within the ERCOT geographic and electrical footprint during the study process.

All CPS Energy Facilities are bounded by ERCOT Poll Settlement meters and therefore are within the ERCOT Balancing Authority. Additionally, all CPS Energy's transmission assets are well within the geographic and electrical footprint of the ERCOT (Balancing Authority) area, which ensures any end-user facilities and generation facilities are within the ERCOT area. Any transmission facilities connecting to an endpoint outside of the ERCOT region would have to be a DC tie-line, since AC tie-lines into the ERCOT system from any other Balancing Authority System are not allowed. CPS Energy does not own any DC tie-lines transmission facilities, nor do we have any current perspective to own such facility.

R4. Generator Owner Interconnection Study Procedures

As stated in R2, CPS Energy, as a Generator Owner, does not own BES equipment with which a third party could interconnect. Therefore, CPS Energy is exempt from the requirement to have Facility interconnection requirements.

- 4.1. Procedure To Coordinate System Studies do not apply to CPS Energy as a Generator Owner**
- 4.2. Interconnection Coordination do not apply to CPS Energy as a Generator Owner**
- 4.3. Procedures for Confirming do not apply to CPS Energy as a Generator Owner**

GUIDELINES AND TECHNICAL BASIS

Facilities interconnecting to the CPS Energy BES should adhere to the following guidelines.

Procedures For Requesting an Interconnection

Procedures vary for requesting an interconnection based on the type of Interconnecting Facility.

Generation Interconnecting Facility

ERCOT Planning Guide Section 5 [Generation Resource Interconnection or Change Request] defines the process for an Interconnecting Entity to request a new interconnection or existing interconnections seeking to make a Qualified Change.

Transmission Interconnecting Facility

Interconnecting Entities can submit a request for interconnection of a transmission Interconnecting Facility to the ERCOT Regional Planning Group or directly to CPS Energy Transmission Planning at transmissionplanning@cpsenergy.com.

End-User Interconnecting Facility

Interconnecting Entities can submit a request for interconnection of an End-User Interconnecting Facility through CPS Energy Key Account Managers or to the manager of Distribution Planning.

Data Requirements for Interconnection Studies

Certain data is required to be able to study the effects of an Interconnecting Facility on the ERCOT and CPS Energy BES.

Generation Interconnecting Facility

ERCOT Planning Guide Section 5 [Generation Resource Interconnection or Change Request] defines the necessary minimum data needed to perform interconnection studies.

Transmission Interconnecting Facility

Data requirements will be determined at the time of study for transmission Interconnecting Facilities since the type and scope of equipment being added or changed can vary widely.

End-User Interconnecting Facility

The minimum data needed to study the impact of a new interconnection or a Qualified Change to an End-User Interconnecting Facility is the location, a load ramp schedule and the anticipated in-service date.

Voltage Level and Power Capacity or Demand at POI

Voltage

The CPS Energy BES is comprised of 138 kV and 345 kV Facilities. Proposed Interconnecting Facilities will be interconnected at one of these voltage levels.

Power Capacity or Demand

Allowable power capacity or demand (MVA, MW, MVAR, PF) to be interconnected with the CPS Energy BES will be determined from the interconnection study.

Breaker Duty and Surge Protection

Breaker Duty

Breaker duty of AC high voltage circuit breakers is determined in accordance with ANSI/IEEE Standards C37 series for breakers rated on a "Symmetrical Current Basis" through breaker rating studies performed by CPS Energy. Breakers interconnecting with the CPS Energy BES shall not exceed 100% of their interrupting rating. For existing Interconnecting Facilities, Interconnecting

Entities shall schedule replacement of breakers expected to exceed 95% of their interrupting rating. For new Interconnecting Facilities, breakers shall be procured and installed with adequate margin to allow for system growth, as determined by CPS Energy breaker rating studies. Interconnecting Entities shall supply CPS Energy with breaker nameplate information for all breakers and fault-interrupting devices interconnected with the CPS Energy BES.

Surge Protection - Substation Equipment

Voltage sensitive devices used to protect equipment and systems from high voltage surges (such as lightning, switching, or temporary over-voltages) shall comply with CPS Energy Specification No. 774-07¹ [Arresters, Surge, Station Class, Metal-Oxide Varistor] and IEEE C62.11-2012 [IEEE Standard for Metal-Oxide Surge Arresters for AC Power Circuits (>1 kV)]. The Interconnecting Entity shall provide CPS Energy with a location plan and a simplified one-line diagram of the proposed Interconnecting Facilities illustrating surge protection devices.

Surge Protection - Transmission Equipment

Either Party shall provide pertinent information to the other Party regarding surge protection (such as arrester size, configuration, etc.), if applicable.

System Protection and Coordination

Interconnecting Entities are required to provide dependable and secure protective relay systems for their portion of the Interconnecting Facility. The protective relay systems shall be designed to meet applicable NERC and ERCOT requirements and in accordance with Good Utility Practices. The design must provide coordination for speed and sensitivity and shall not degrade the reliability of the CPS Energy BES. CPS Energy reserves the right to specify relay types and setting requirements for interconnection with the CPS Energy BES. CPS Energy may require submittal of operational and relay one-line diagrams, relaying schematics, relay types, proposed settings and equipment short circuit parameters for review and approval. Additionally, the Interconnecting Entity may be required to install under-frequency or under-voltage load shedding protection to meet NERC and ERCOT requirements.

Metering, Telecommunications and Remote SCADA Systems

Metering

The Interconnecting Entity shall provide metered quantities of MW, MVAR, and voltage at the POI. These values are allowed to have “relay accuracy” and will be used for SCADA and regulatory purposes. Other meter point quantities and/or installations may be required for generation, load or special applications located at the Interconnecting Facility. CPS Energy will specify the accuracy, equipment type and location for these metering points. CPS Energy may require the installation of ERCOT settlement metering at the Interconnecting Facility. This will depend on the location of the POI and will be determined at the time of application.

Reasonable access must be provided by Interconnecting Entity for the installation, testing and repair of metering equipment owned by CPS Energy. All meter points shall be shown on the relay one-line diagram and schematic drawings, indicating ratios, device types and accuracies. All metered points shall conform to NERC, state and local requirements. Under no circumstances shall

¹ This standard can be found by searching for 774-07 at the following website:
<https://www.cpsenergy.com/content/corporate/en/developers-builders/customer-engineering/standards-and-specifications.html>

metering facilities constrain the CPS Energy BES.

The meter point design shall conform to all applicable ERCOT guides, protocols and procedures. All devices used in metering shall conform to or exceed applicable ANSI/IEEE standards and ERCOT requirements. In the absence of appropriate ANSI/IEEE standards, the devices shall conform to the latest edition of the “EEI Handbook for Electrical Metering.”

Telecommunications

Each Party is responsible for the design, purchase, installation, testing, maintenance, and replacement of the RTU equipment, telemetry equipment, and communications circuits owned by that Party. Reasonable access must be provided by the Interconnecting Entity for the installation, testing and repair of RTU equipment, telemetry equipment, and communications circuits owned by CPS Energy.

Dedicated communications circuits are required for premise equipment (i.e. Remote Terminal Units (RTUs), telemetry equipment, etc.). Voice communications shall be established via normal telephone lines or mutually agreed upon circuits. Design of communication system should include redundancy and backup protection in accordance with Good Utility Practices. The Interconnecting Entity shall provide adequate and reliable telecommunication facilities to ensure reliable exchange of interconnection and operational information and, where applicable, shall be redundant and diversely routed.

Remote SCADA Systems

DNP3 is the required protocol to be used for the exchange of data between the two Interconnecting Entities. The Interconnecting Entity shall provide CPS Energy a RS232 (DB-9) serial port on their RTU to be used for this DNP3 data exchange. The Interconnecting Entity shall provide all cabling necessary for this data exchange.

Grounding and Safety Issues

Substation Equipment

Interconnecting Facilities shall follow ANSI/IEEE standards for grounding². Interconnecting Facility safety requirements shall address the grounding of all exposed metal parts of switches, structures, transformers tanks, metal walkways, fences, steelwork of buildings, panels, etc., so that a person touching or near any of this equipment cannot receive a dangerous shock if high-tension conductors flash over or come in contact with any of the equipment listed. This means that each individual piece of equipment shall have its own connection to the station grounding system, made of heavy copper, protected against mechanical damage, bonded together, and tied into the main station ground. The Interconnecting Entity shall provide CPS Energy with a location plan and a simplified one-line diagram that illustrate the grounding of the Interconnecting Facilities and shall provide a grounding study, if applicable.

Transmission Equipment

All new transmission line Interconnecting Facilities shall have one or more overhead shield wires as follows: Single circuit transmission lines, in vertical or delta configurations, shall have at least one shield wire; horizontally configured single, double and triple circuit transmission lines shall have at

² ANSI/IEEE Std. 80 [Guide for Safety in AC Substation Grounding];

ANSI/IEEE Std. 142 [Recommended Practice for Grounding of Industrial and Commercial Power Systems-Green Book];

ANSI Std. C33.8 [Standard for Grounding and Bonding Equipment]

least two shield wires. If required by CPS Energy, the Interconnecting Entity shall provide adequate transmission line grounding to mitigate lightning and surge flashovers by lowering foundation impedances with counterpoise and/or lightning rods, lightning arrestors or other design implementations.

Insulation and Insulation Coordination

Substation Equipment

Interconnecting Entities shall follow ANSI, IEEE and NEMA standards³ for insulation and insulation coordination of equipment for normal operating voltages and for temporary over-voltages caused by switching or lightning.

Transmission Equipment

Transmission line insulators shall be sufficiently sized for the applicable voltage level. Insulator CFO values shall be communicated between both Parties.

Voltage, Reactive Power and Power Factor Control

Devices required to control voltage, reactive power flow and power factor, such as capacitor banks, reactor banks, transformer tap changers, and generator reactive capability, will be determined in accordance with applicable ERCOT protocols and guides prior to interconnection.

Power Quality

The Interconnecting Entity shall abide by the following Power Quality standards. Depending upon the terms and conditions defined between CPS Energy and the Interconnecting Entity, the Interconnecting Entity shall maintain Power Quality Event data for a minimum of two years and make this data available to CPS Energy upon request.

Voltage: Any deviation of ±5% from CPS Energy nominal voltage for longer than ten cycles (0.166 seconds) is considered a Power Quality Event.

Voltage Unbalance: A voltage unbalance⁴ greater than 2.5% over a given demand period is considered a Power Quality Event.

$$\% \text{ Voltage Unbalance} = 100 * (\text{maximum deviation from average voltage}) / (\text{average voltage})$$

Current Unbalance: A current unbalance greater than 5% is considered a Power Quality Event.

$$\% \text{ Current Unbalance} = 100 * (\text{maximum deviation from average current}) / (\text{average current})$$

Synchronization: A phase angle difference of greater than ±10 degrees for greater than 15 cycles is considered a Power Quality Event.

Voltage Total Harmonic Distortion: Total Harmonic Distortion (THD) voltage in excess of limits defined in IEEE 519-1992 (and as shown in the table below) shall be considered a Power Quality Event.

Bus Voltage at the POI	Individual Voltage Distortion (%)	Voltage Total Harmonic Distortion (THD) (%)
69 kV and below	3.0	5.0
69.001 kV through 161 kV	1.5	2.5
161.001 kV and above	1.0	1.5

³ NEMA/IEEE Std. C29.1 – C29.9 [High Voltage Insulation Standards], ANSI C92.1 [Insulation Coordination], IEEE 1313.1 [Insulation Coordination], IEEE 1313.2 [Guide for the application of Insulation Coordination]

⁴ As defined by ANSI C84.1–1989 [Voltage Rating for Electric Power Systems and Equipment]

Table 1: THD Voltage Limits

Current Harmonic Distortion: Current Harmonic Distortion in excess of limits defined in IEEE 519-1992 Section 10.4 shall be considered a Power Quality Event.

Flicker: Measured voltage deviations of more than +5%, as defined by the IEEE 519-1992 Border Lines Of Irritation Curve is considered a Power Quality Event. A flicker meter designed in accordance with IEC 61000-4-15 is acceptable to measure flicker.

Power Factor: The Interconnecting Entity shall abide by ERCOT power factor requirements as defined in ERCOT Nodal Protocols.

Equipment Ratings

Minimum equipment ratings will be determined by the interconnection study.

Synchronizing Of Facilities

Interconnecting Entities that are interconnecting generation are responsible for synchronizing and properly interconnecting their Interconnecting Facilities to the CPS Energy BES. Each Interconnecting Facility shall have automatic or manual synchronizing capabilities with a “sync check” relay to supervise the synchronizing functions and shall be not be capable of interconnecting to a de-energized system unless given such authorization by CPS Energy.

Maintenance Coordination

Maintenance coordination will be performed in accordance with applicable ERCOT protocols and guides. If a maintenance outage taken by either Party has the potential to impact the other Party’s BES, the affected Party must be contacted for approval of the outage prior to the device(s) being removed from service. When switching is required to isolate equipment owned by both Parties, appropriate switching orders will be issued by each Party. CPS Energy will issue a “Clearance” if protective grounds are to be installed. Otherwise, a “Procedure” will be issued to document the abnormal state. Both parties will install tags and locks on the associated field equipment and install tags on all SCADA controlled points. Recloser relays may be disabled for the safety of field personnel and for system reliability when agreed to by both Parties, and will be accompanied by the appropriate documentation and installation of tags, if applicable. CPS Energy will issue a “Procedure” for this situation.

Abnormal Operating Conditions

Both Parties shall operate during abnormal conditions (frequency and voltage), as specified in ERCOT protocols and guides.

Inspection Requirements for Existing or New Facilities

CPS Energy has no formal inspection requirements for Interconnecting Facilities.

Communication Procedures During Normal and Emergency Operating Conditions

Normal and emergency operating procedures must be followed as specified in the ERCOT guides and protocols. The Interconnecting Entity will provide a 24 hour primary and secondary contact number to discuss real-time operational issues.