

Purpose of the Direct Current (DC) Power Download Document

This document describes Direct Current (DC) Power rate elements that are associated with all Central Office Collocation. Next this document will describe the optional DC Power Measurement process which applies to Central Office Collocations. Finally this document explains the DC Power Reduction and DC Power Restoration processes and the associated rate elements.

DC Power Rate Element Descriptions

The following language applies in all states, where separate charges for DC Power Capacity and DC Power Usage have been established. Additional charges may also apply per Exhibit A of your Interconnection Agreement (ICA).

-48 Volt DC Power Capacity and Usage Charges – Charges for –48 volt DC power to your collocated equipment, which is fused at a minimum of 125% of the request. The Capacity Charge recovers the cost of the capacity of the power plant available for your use. The Usage Charge recovers the cost of the power used. Both the Capacity Charge and the Usage Charge are applied on a per amp basis.

-48 Volt Capacity Charge – The –48 volt Capacity Charge is specified in Exhibit A and applies to the quantity of –48 volt DC power Capacity specified on your order.

- 48 Volt DC Power Usage Charge – The –48 volt DC Power Usage Charge is specified in Exhibit A and applies to the quantity of –48 volt DC power capacity specified on your order. Different rates may apply; if specified in Exhibit A.

- a) –48 volt DC Power Usage Charge – Applies on a per amp basis to all orders of greater than 60 amps. Qwest will initially apply the –48 volt DC Power Usage Charge from Exhibit A to the quantity of power ordered. There is a one amp minimum charge for –48 volt DC Power Usage for CLECs that have opted into the DC Power measurement. Qwest will adjust the monthly usage rate based upon the actual usage on a going forward basis if the CLEC has opted into DC Power measurement.
- b) –48 volt DC Power Usage Charge – Applies for your orders of 60 amps or less of –48 volt DC power usage. Qwest will apply the –48 volt DC Power Usage Charge in accordance with Exhibit A for the quantity of power ordered. Qwest will not adjust the billed usage based upon actual usage.

The following rate elements would apply in North Dakota, Oregon and South Dakota, where separate charges for Capacity and Usage have not been established.

-48 Volt DC Power Charge – Charges for –48 volt DC power to your collocated equipment, which is fused at a minimum of 125% of your requested power. There is a single charge applied monthly on a per amp basis for the use of the power plant and the actual AC power purchased from the electric company. This charge will be assessed based on the –48 volt DC power capacity specified on your order.

Direct Current Power Measurement

The CLEC will order DC power to meet their needs with a 20-ampere (amp) per feed minimum. CLECs can order multiple feeds of DC Power, one being designated as primary and each additional as secondary feed(s). If the CLEC orders more than 60 amps, Qwest typically terminates such feeds on a power board. If the CLEC orders 60 amps or less, the power feed is typically terminated at a Battery Distribution Fuse Board (BDFB). When the CLEC orders 60 amps or less the power usage rate is based on the CLEC's ordered amount of amps and reflects a discount from the rates for power feeds requested at greater than 60 amps.

Optional DC Power Measuring for feed greater than sixty (60) amps

Qwest will measure power usage on feeds greater than 60 amps on a semi-annual basis provided an amendment has been signed between Qwest and the CLEC. Qwest will also take measurements within 30 calendar Days of a written request by the CLEC after the CLEC's installation or removal of equipment. Qwest will perform a maximum of four (4) readings per year on a particular collocation site. Based on these measurements, Qwest will adjust the new monthly usage rate to the CLEC's actual usage. Until the initial semi-annual measurement is performed, or until such time that the CLEC places or removes equipment and a written request is received from the CLEC for Qwest to take a measurement, the ordered amount will be billed to the CLEC. If the CLEC wants a measurement after the installation or removal of equipment a written request should be sent to rfsmet@qwest.com containing the central office location and the 11 digit CLEC CLLI where you want Qwest to perform the measurement. The next measurement date may be generated as a result of the CLEC's request or Qwest's routine semi-annual measurement, and billing will be adjusted back to the time of the semi-annual measurement or written request for a power measurement. CLEC wanting to utilize the DC Power Measuring process may access the *Amendment* at the following link (*Link italicized text to:* <http://www.qwest.com/wholesale/clecs/amendments.html>).

Direct Current Power Reduction/Restoration

The following definitions are used to describe the intent of the language in the DC Power Reduction and DC Power Restoration processes.

Deactivation eliminates a secondary feed(s) (the power cable and fuse positions are not reserved).

Reduction Without Reservation reduces the ordered amps on a primary or secondary feed(s). The reduced feed(s) must be maintained with a minimum of 20 amps.

Reduction With Reservation reduces the ordered amps on a secondary feed(s) to zero, and reserves the fuse positions of the feed(s) at the power source and cabling to the power source is left in place.

Restoration Without Reservation restores power on primary and secondary feed(s) previously reduced as part of a Reduction Without Reservation request back to the original or lesser amp value(s), with a 20 amps minimum. Restoration of a reduced secondary or primary feed(s) without reservation is contingent upon the availability of spare amps at the power source at the time the restoration request is validated.

Restoration With Reservation restores power on previously reduced and reserved secondary feed(s) to at least 20 amps or up to the original amount of amps prior to reduction. Restoration of a reduced secondary feed(s) with reservation is contingent upon the availability of capacity (i.e., spare amps) at the power source at the time the restoration request is validated.

Direct Current Power Reduction

Description

Direct Current (DC) Power Reduction will allow you to reduce the ordered amps on your primary feed and /or secondary feed(s). DC Power Reduction With Reservation will also allow you to reduce ordered amps on a secondary feed(s) to zero and reserve the fuse positions. DC Power Reduction Without Reservation will allow you to reduce the ordered amps on a primary or secondary feed(s) down to a minimum of 20 amps. eliminate or reduce the value of multiple DC power feeds or reduce the value of a single feed to 20amps.

Terms and Conditions

You must have terms and conditions for DC ~~Power~~ Power reduction-Reduction in your Interconnection Agreement. If terms and conditions for DC ~~power~~ Power reduction-Reduction are not in the your Interconnection Agreement, an amendment must be negotiated before an application for this service may ~~be~~ submitted.

If you wish to reduce your amount of power and it will not be required for future use, Qwest will process the request as a standard augment order and not as a DC Power Reduction request. You may only request DC Power Reduction at Central Office based Collocations.

Qwest will allow you to reserve a fuse or breaker position on the ~~power board~~ Power Distribution Board also known as Power Board Distribution (PDB/PBD) or Battery Distribution Fuse Board (BDFB) for a recurring maintenance charge when reducing ~~at the multiple secondary feed(s)~~ to zero. The monthly maintenance charge does not reserve the ~~excess amount of power~~ but does hold the power cabling and fuse positions in place for your potential future power augment power restoration requests.

You may only submit a Collocation Application (New/Change/Augment) Form applications for DC Power Reduction for Collocation sites that have been previously accepted by you. DC Power reductions ~~Reductions~~ are not available ~~to for sites under construction, or for sites not previously accepted by you,~~ will follow standard change or augment procedures and rates. Standard change or augment procedures and rates apply to sites that do not meet the conditions for DC Power Reduction.

You must pay 100% of the quoted non-recurring charges to Qwest within thirty (30)-calendar Days of receipt of the quote. If Qwest does not receive the payment within the thirty (30)-calendar Day period, the quote will expire and your DC Power Reduction will be canceled. You will be charged a Quote Preparation Fee (QPF) for work performed up to the point of expiration.

Before submitting a Collocation Application (New/Change/Augment) Form for DC ~~p~~ Power r Reduction application, your financial obligations must be current, with the exception of formally disputed charges. Your financial obligations include your payment of 100% of all non-recurring quoted charges for the ~~collocation~~ Collocation site and all applicable monthly recurring charges that are more than thirty (30)-calendar days-Days past due. DC Power Reductions cannot be canceled after submitting 100% of non-recurring charges for the DC Power Reduction.

When eliminating a secondary feed, you may purchase the option to have the power cable and fuse position held for your future use. You will be required to pay a monthly Power Maintenance Charge until such time as you notify Qwest that you wish to either reenergize the feed or to discontinue the option. You may utilize the DC Power Reduction Without Reservation process to reduce the power on primary and secondary feeds down to a minimum of 20 amps. If you reduce secondary feed(s) to zero and do not reserve the fuse positions, it is considered a deactivation.

In instances where a shortage of fuse position is imminent, Qwest reserves the right to notify you of the need to exercise your option or relinquish the fuse position to Qwest. Upon receipt of such notification, you will have the option of energizing the secondary feed to at least 20amps or returning the fuse position to Qwest within 30 calendar days of receipt of notification. Recurring billing for the Power Maintenance Charge will be eliminated the day that you energizes the feed or return the fuse position to Qwest.

When purchasing DC Power Reduction With Reservation you will be requesting the reduction of the secondary feed(s) to zero and reserving the power cable and fuse positions for potential future use. You will be required to pay a monthly Power Maintenance Charge until such time as you notify Qwest that you wish to either restore the feed or discontinue the reservation.

You are responsible for outages and/or impacts to the service and equipment, you provided, due to the reduction in DC Power.

Restoration of the desired power is contingent on if desired power and fuse position are available. In instances where a shortage of fuse positions is imminent, Qwest reserves the right to notify you of the need to exercise your option or relinquish your reserved fuse positions to Qwest. Upon receipt of such notification, you will have the option of restoring the secondary feed to at least 20 amps or returning the fuse positions to Qwest within thirty (30)-calendar Days of receipt of notification. If Qwest does not receive a response within the thirty (30)-calendar Day timeframe, Qwest will deactivate your secondary feed and return the fuse positions to Qwest. Recurring billing for the Power Maintenance Charge will be eliminated the day that you restore the feed or return the fuse positions to Qwest.

You are responsible for outages and/or impacts to your service and equipment, you provided, due to your reduction of DC Power.

If you have requested to be present during the DC Power Reduction and do not keep the appointment or do not notify Qwest 48 hours prior to the scheduled time, Qwest will charge you a minimum one hour maintenance charge plus any additional costs incurred by Qwest.

Rates

Collocation charges will be based on the information you provided to Qwest on the Collocation Application (New/Change Augment) Application Form. Below is an example of additional charges that are unique to a Power Reduction Request and will be provided to you via a quote.

The nonrecurring charges that could apply:

- **Quote Preparation Fee (QPF):** ~~The cost of charge(s)~~ for performing a feasibility study and producing a quote for the power reduction request.
- **Power reduction-Reduction Charge:** Costs associated with reducing the fuse/breaker size. Rates are categorized in this manner based on the work involved and power distribution point (e.g., BDFB or power board). Where additional work is required such as rewiring the power leads at to the power source (or in some cases may require relocation of the feed(s) may be required) rates will be calculated on a Time-time and Materials-materials basis.
- **Power Restoration Charge (assessed if power is restored):** ~~Charge associated with restoring the power cable to the power source and is contingent on if desired power and fuse position is available. Qwest will evaluate work required to perform power restoration request and provide you with a quote utilizing standard power element charges (DC power usage, labor, and cabling charges etc.) found in your Interconnection Agreement. This charge will be on an individual case basis (ICB).~~

The recurring charges that could apply:

- **Power Maintenance Charge:** Monthly recurring charge(s) associated with the option to hold reserve the power infrastructure from fuse positions and power cables for a secondary feed(s) in place for your potential future needs.

Ordering

Submit a ~~Collocation Application~~Collocation Application (New/Change/Augment) form ~~Form~~(New, Augment or Change).

- The form and information on ordering Collocation can be found in the Ordering section of the ~~Collocation – General Information web page at~~(*Link italicized text to: <http://qwest.com/wholesale/pcat/collocation.html#apform>*).

On the application form indicate the specific power feed(s) to be reduced, (i.e., eliminate or reduce multiple feeds from 60 to 0 amps or reduce main feed from 60 to 20 amps).

Under the type Type of Order section check Augment and complete the appropriate DC Power Ordering information and – Augment sub-section. This will indicate to the Collocation Project Management Center (CPMC) that this is a request for DC Power reduction. ~~request category you should indicate that this is an Augment – DC Power Reduction request. This will indicate to the Collocation Project Management Center (CPMC) that this is a “reduce and hold” request for the power and not a standard removal.~~

A walkthrough will be performed prior to quote to determine the amount of work required to perform the power reduction and charges provided on the quote. Based on this evaluation of work the following pricing strategy will apply. Based on the work required to complete your DC power reduction Collocation order the following pricing strategy will apply:

- Only one QPF per application will be charged, ~~so if~~ If multiple feeds at the same ~~collocation~~Collocation space are reduced, or eliminated (i.e. main feed reduced to 20 amps and multiple feed totally reduced) you will only pay the associated power reduction charges, power maintenance fee if applicable, and one QPF.

The charge to reduce the power desired on a feed is based on the original amount of power ordered and the amount of work required to perform the reduction.

Billing

Billing ~~from for the~~ initial power value at the ~~collocation~~Collocation site will be modified to reflect the reduced amount upon receipt of payment for the quoted charges and will be made effective back to the date of acceptance of the DC Power Reduction Application ~~application~~ by the CPMC.

Direct Current Power Restoration

Description

DC Power Restoration will allow you to restore your previously reduced DC power feed(s) to a level less than or equal to your original DC power level.

Terms and Conditions

You must have terms and conditions for DC Power Restoration in your Interconnection Agreement. If the terms and conditions for DC Power Restoration are not in your Interconnection Agreement, an amendment must be negotiated before an application for this service can be submitted.

You can only request DC Power Restorations at Central Office based Collocations.

If you are requesting Restoration Without Reservation, Qwest will restore your fuse or breaker positions at the power source, if available, for your requested capacity up to the original amount. If capacity (including protector size) is not available at the original power board or BDFB you will be connected to an alternate power source and appropriate charges will apply.

Restoration With Reservation of secondary feed(s) is contingent upon power capacity. This applies when secondary feed(s) were reduced to zero and the fuse positions were reserved. If Qwest is unable to provide the requested power restoration of the held secondary feed(s) due to power capacity exhaust, Qwest will refund all collected Power Maintenance Charges.

You must pay 100% of the quoted non-recurring charges to Qwest within thirty (30)-calendar Days of receipt of the quote. If Qwest does not receive the payment within the thirty (30)-calendar Day period, the quote will expire and your DC Power Restoration will be canceled. You will be charged a QPF for work performed up to the point of expiration.

Before submitting a Collocation Application (New/Change/Augment) Form for DC Power Restoration, your financial obligations must be current, with the exception of formally disputed charges. Your financial obligations include your payment of 100% of all non-recurring quoted charges for the Collocation site and all applicable monthly recurring charges that are more than thirty (30)-calendar Days past due. DC Power Restoration cannot be canceled after submitting 100% of non-recurring charges.

If you have requested to be present during the DC Power Restoration and do not keep the appointment or do not notify Qwest 48 hours prior to the scheduled time, Qwest will charge you a minimum one hour maintenance charge plus any additional cost(s) incurred by Qwest.

Rates

Collocation charges will be based on the information you provided to Qwest on the Collocation Application (New/Change/Augment) Form. Below is an example of additional non-recurring charges that are unique to a Power Restoration request and will be provided to you via a quote.

- **Quote Preparation Fee (QPF):** The cost for performing a feasibility study and producing a quote for the power restoration request.
- **Power Restoration Charge (assessed if power is restored):** Charges associated with restoring the power are classified into two categories: 1) If the power cabling exists and the power capacity is available at the original power source, Qwest utilizes the standard power element charges. 2) If new power cabling is required to reach a new power source; Qwest will charge based on standard power Collocation augment rates.

Ordering

Submit a Collocation Application (New/Change/Augment) Form.

- The form and information for ordering Collocation can be found in the Ordering section of *Collocation – General Information* (Link italicized text to: <http://qwest.com/wholesale/pcat/Collocation.html>).

Under the Type of Order section check Augment and complete the appropriate DC Power Ordering information – Augment sub-section.

Based on the work required to complete your DC Power Restoration Collocation order the following pricing strategy will apply.

- Only one QPF per application will be charged. If secondary feed(s) at the same Collocation space are restored, you will only pay the associated power restoration charges and one QPF.

Billing

Billing for the current power value at the Collocation site will be modified to reflect the restored amount upon completion of your DC Power Restoration order.