

FPT-16.1
FORMULA POWER TRANSMISSION RATE

SECTION I. AVAILABILITY

This schedule supersedes the FPT-14.1 rate schedule for all firm transmission agreements that provide for application of FPT rates that may be adjusted not more frequently than once a year. This schedule is applicable only to such transmission agreements executed prior to October 1, 1996. It is available for firm transmission of non-Federal power using the Main Grid and/or Secondary System of the Federal Columbia River Transmission System. This schedule is for full-year and partial-year service and for either continuous or intermittent service when firm transmission service is required. For facilities at voltages lower than the Secondary System, a different rate schedule may be specified. Service under this schedule is subject to the General Rate Schedule Provisions (GRSPs), which follow the rate schedules in this document.

SECTION II. RATES

The monthly charge per kilowatt (kW) shall be one-twelfth of the sum of the Main Grid Charge and the Secondary System Charge, as applicable and as specified in the agreement.

The Main Grid and Secondary System charges are calculated each quarter according to the following formula:

$$\left(1 + \frac{\text{GSR}_q}{\$1.695/\text{kW}/\text{mo}}\right) * \text{FPT Base Charges}$$

Where:

GSR_q = The ACS-14 Reactive Supply and Voltage Control From Generation Sources Service Rate for Long-Term Firm PTP Transmission Service and NT Service, section II.B.1.a., that is effective for the quarter for which the FPT rate is being calculated, in \$/kW/mo.

FPT Base Charges = The following annual Main Grid and Secondary System charges:

MAIN GRID CHARGES	
1. Main Grid Distance	\$0.0679 per mile
2. Main Grid Interconnection Terminal	\$0.71/kW
3. Main Grid Terminal	\$0.79/kW
4. Main Grid Miscellaneous Facilities	\$3.87/kW
SECONDARY SYSTEM CHARGES	
1. Secondary System Distance	\$0.6676 per mile
2. Secondary System Transformation	\$7.30/kW
3. Secondary System Intermediate Terminal	\$2.82/kW
4. Secondary System Interconnection Terminal	\$2.00/kW

Main Grid Distance and Secondary System Distance charges shall be calculated to four decimal places. All other Main Grid and Secondary System charges shall be calculated to two decimal places.

The Main Grid Charge per kilowatt shall be the sum of one or more of the Main Grid annual charges, as specified in the agreement. The Secondary System Charge per kilowatt shall be the sum of one or more of the Secondary System annual charges, as specified in the agreement.

SECTION III. BILLING FACTORS

Unless otherwise stated in the agreement, the Billing Factor for the rates specified in section II shall be the largest of:

- A. The Transmission Demand;
- B. The highest hourly Scheduled Demand for the month; or
- C. The Ratchet Demand.

SECTION IV. ADJUSTMENTS, CHARGES, AND OTHER RATE PROVISIONS

A. ANCILLARY SERVICES

Ancillary Services that may be required to support FPT transmission service are available under the ACS rate schedule. FPT customers do not pay the ACS charges for Scheduling, System Control, and Dispatch Service or Reactive Supply and Voltage Control from Generation Sources Service, because these services are included in FPT service.

B. FAILURE TO COMPLY PENALTY

Customers taking service under this rate schedule are subject to the Failure to Comply Penalty Charge, specified in GRSP II.B.

~~C. POWER FACTOR PENALTY~~

~~Customers taking service under this rate schedule are subject to the Power Factor Penalty Charge, specified in GRSP II.C.~~

FPT-16.3
FORMULA POWER TRANSMISSION RATE

SECTION I. AVAILABILITY

This schedule supersedes the FPT-14.3 rate schedule for all firm transmission agreements that provide for application of FPT rates that may be adjusted not more frequently than once every three years. This schedule is applicable only to such transmission agreements executed prior to October 1, 1996. It is available for firm transmission of non-Federal power using the Main Grid and/or Secondary System of the Federal Columbia River Transmission System. This schedule is for full-year and partial-year service and for either continuous or intermittent service when firm transmission service is required. For facilities at voltages lower than the Secondary System, a different rate schedule may be specified. Service under this schedule is subject to the General Rate Schedule Provisions (GRSPs), which follow the rate schedules in this document.

SECTION II. RATES

The monthly charge per kilowatt (kW) shall be one-twelfth of the sum of the Main Grid Charge and the Secondary System Charge, as applicable and as specified in the agreement.

The Main Grid and Secondary System charges are calculated each quarter according to the following formula:

$$\left(1 + \frac{\text{GSR}_q}{\$1.666/\text{kW}/\text{mo}} \right) * \text{FPT Base Charges}$$

Where:

GSR_q = The ACS-14 Reactive Supply and Voltage Control From Generation Sources Service Rate for Long-Term Firm PTP Transmission Service and NT Service, section II.B.1.a., that is effective for the quarter for which the FPT rate is being calculated, in \$/kW/mo.

FPT Base Charges = The following annual Main Grid and Secondary System charges:

MAIN GRID CHARGES	
1. Main Grid Distance	\$0.0679 per mile
2. Main Grid Interconnection Terminal	\$0.71/kW
3. Main Grid Terminal	\$0.79/kW
4. Main Grid Miscellaneous Facilities	\$3.87/kW
SECONDARY SYSTEM CHARGES	
1. Secondary System Distance	\$0.6676 per mile
2. Secondary System Transformation	\$7.30/kW
3. Secondary System Intermediate Terminal	\$2.82/kW
4. Secondary System Interconnection Terminal	\$2.00/kW

Main Grid Distance and Secondary System Distance charges shall be calculated to four decimal places. All other Main Grid and Secondary System charges shall be calculated to two decimal places.

The Main Grid Charge per kilowatt shall be the sum of one or more of the Main Grid annual charges, as specified in the agreement. The Secondary System Charge per kilowatt shall be the sum of one or more of the Secondary System annual charges, as specified in the agreement.

SECTION III. BILLING FACTORS

Unless otherwise stated in the agreement, the Billing Factor for the rates specified in section II shall be the largest of:

- A. The Transmission Demand;
- B. The highest hourly Scheduled Demand for the month; or
- C. The Ratchet Demand.

SECTION IV. ADJUSTMENTS, CHARGES, AND OTHER RATE PROVISIONS

A. ANCILLARY SERVICES

Ancillary Services that may be required to support FPT transmission service are available under the ACS rate schedule. FPT customers do not pay the ACS charges for Scheduling, System Control, and Dispatch Service or Reactive Supply and Voltage Control from Generation Sources Service, because these services are included in FPT service.

B. FAILURE TO COMPLY PENALTY

Customers taking transmission service under FPT agreements are subject to the Failure to Comply Penalty Charge, specified in GRSP II.B.

~~C. POWER FACTOR PENALTY~~

~~Customers taking transmission service under FPT agreements are subject to the Power Factor Penalty Charge, specified in GRSP II.C.~~

**IR-16
INTEGRATION OF RESOURCES RATE**

SECTION I. AVAILABILITY

This schedule supersedes the IR-14 rate schedule and is available for transmission of non-Federal power for full-year firm transmission service and non-firm transmission service in amounts not to exceed the customer's total Transmission Demand using Federal Columbia River Transmission System Network and Delivery facilities. This schedule is applicable only to Integration of Resource (IR) agreements executed prior to October 1, 1996. Service under this schedule is subject to the General Rate Schedule Provisions (GRSPs), which follow the rate schedules in this document.

SECTION II. RATES

The IR rates in sections A and B, below, are calculated each quarter. These rates shall be calculated to three decimal places. The monthly IR rate shall be as provided in section A or section B.

A. RATE

The rate shall be the sum of:

1. \$1.736 per kilowatt per month (\$/kW/mo); and
2. ACS-14 Reactive Supply and Voltage Control From Generation Sources Service Rate for Long-Term Firm PTP Transmission Service and NT Service, section II.B.1.a., effective for the quarter for which the IR rate is being calculated, in \$/kW/mo.

B. SHORT DISTANCE DISCOUNT (SDD) RATE

For Points of Integration (POI) specified in the IR agreement as being short-distance POIs, for which Network facilities are used for a distance of less than 75 circuit miles, the monthly rate shall be the sum of:

1. \$0.257/kW/mo; and
2. ACS-14 Reactive Supply and Voltage Control From Generation Sources Service Rate for Long-Term Firm PTP Transmission Service and NT Service, section II.B.1.a., effective for the quarter for which the IR rate is being calculated, in \$/kW/mo; and
3. $(0.6 + (0.4 * \text{transmission distance}/75)) * \$1.479/\text{kW/mo}$

Where:

The transmission distance is the circuit miles between a designated POI for a generating resource of the customer and a designated Point of Delivery serving load of the customer. Short-distance POIs are determined by BPA after considering factors in addition to transmission distance.

SECTION III. BILLING FACTORS

The Billing Factor for rates specified in section II shall be the largest of:

- A. The annual Transmission Demand, or, if defined in the agreement, the annual Total Transmission Demand;
- B. The highest hourly Scheduled Demand for the month; or
- C. The Ratchet Demand.

To the extent that the agreement provides for the IR customer to be billed for transmission service in excess of the Transmission Demand or Total Transmission Demand, as defined in the agreement, at an hourly non-firm rate, such excess transmission service shall not contribute to the Billing Factor for the IR rates in section II, provided that the IR customer requests such treatment and BPA approves such request in accordance with the prescribed provisions in the agreement. The rate for transmission service in excess of the Transmission Demand will be pursuant to the Point-to-Point Rate (PTP-14) for Hourly Non-Firm Service.

When the Scheduled Demand or Ratchet Demand is the Billing Factor, short-distance POIs shall be charged the Rate specified in section II.A. for the amount in excess of Transmission Demand.

SECTION IV. ADJUSTMENTS, CHARGES, AND OTHER RATE PROVISIONS

A. ANCILLARY SERVICES

Ancillary Services that may be required to support IR transmission service are available under the ACS rate schedule. IR customers do not pay the ACS charges for Scheduling, System Control, and Dispatch Service or Reactive Supply and Voltage Control from Generation Sources Service, because these services are included in IR service.

B. DELIVERY CHARGE

Customers taking service over Delivery facilities are subject to the Delivery Charge, specified in GRSP II.A.

C. FAILURE TO COMPLY PENALTY

Customers taking service under this rate schedule are subject to the Failure to Comply Penalty Charge, specified in GRSP II.B.

~~D. POWER FACTOR PENALTY~~

~~Customers taking service under this rate schedule are subject to the Power Factor Penalty Charge, specified in GRSP II.C.~~

E. RATCHET DEMAND RELIEF

Under appropriate circumstances, BPA may waive or reduce the Ratchet Demand. An IR customer seeking a reduction or waiver must demonstrate good cause for relief, including a demonstration that:

1. The event that resulted in the Ratchet Demand
 - a. was the result of an equipment failure or outage that could not reasonably have been foreseen by the customer; and
 - b. did not result in harm to BPA's transmission system or transmission services, or to any other Transmission Customer; or
2. The event that resulted in the Ratchet Demand
 - a. was inadvertent;
 - b. could not have been avoided by the exercise of reasonable care;
 - c. did not result in harm to BPA's transmission system or transmission services, or to any other Transmission Customer; and

d. was not part of a recurring pattern of conduct by the IR customer.

If the IR customer causes a Ratchet Demand to be established in a series of months during which the IR customer has not received notice from BPA of such Ratchet Demands by billing or otherwise, and the Ratchet Demand(s) established after the first Ratchet Demand were due to the lack of notice, then BPA may establish a Ratchet Demand for the IR customer based on the highest Ratchet Demand in the series. This highest Ratchet Demand will be charged in the month it is established and the following 11 months. All other Ratchet Demands based on such a series (including the Ratchet Demand established in the first month if it is not the highest Ratchet Demand) will be waived.

Ratchet Demand Relief is not available in the month in which the Ratchet Demand was established. For that month, the Customer will be assessed charges based upon the highest hourly Scheduled Demand Billing Factor.

F. SELF-SUPPLY OF REACTIVE SUPPLY AND VOLTAGE CONTROL FROM GENERATION SOURCES SERVICE

A credit for self-supply of Reactive Supply and Voltage Control from Generation Sources Service will be available for IR customers on a basis equivalent to the credit for PTP Transmission Customers.

NT-16
NETWORK INTEGRATION RATE

SECTION I. AVAILABILITY

This schedule supersedes the NT-14 rate schedule. It is available to Transmission Customers taking Network Integration Transmission (NT) Service over Federal Columbia River Transmission System Network and Delivery facilities and to Transmission Customers taking Conditional Firm Service. Terms and conditions of service are specified in the Open Access Transmission Tariff. This schedule is available also for transmission service of a similar nature that may be ordered by the Federal Energy Regulatory Commission (FERC) pursuant to sections 211 and 212 of the Federal Power Act (16 U.S.C. §§ 824j and 824k). Service under this schedule is subject to the General Rate Schedule Provisions (GRSPs), which follow the rate schedules in this document.

SECTION II. RATE

\$1.741 per kilowatt per month

SECTION III. BILLING FACTOR

- A. The monthly Billing Factor shall be the customer's Network Load on the hour of the Monthly Transmission System Peak Load.

SECTION IV. ADJUSTMENTS, CHARGES, AND OTHER RATE PROVISIONS

A. ANCILLARY SERVICES

Customers taking service under this rate schedule are subject to the ACS Scheduling, System Control, and Dispatch Service Rate and the Reactive Supply and Voltage Control from Generation Sources Service Rate. Other Ancillary Services that are required to support NT Service are also available under the ACS rate schedule.

B. DELIVERY CHARGE

Customers taking NT Service over Delivery facilities are subject to the Delivery Charge, specified in GRSP II.A.

C. FAILURE TO COMPLY PENALTY

Customers taking NT Service under this rate schedule are subject to the Failure to Comply Penalty Charge, specified in GRSP II.B.

D. — POWER FACTOR PENALTY

~~Customers taking NT service under this rate schedule are subject to the Power Factor Penalty Charge, specified in GRSP II.C.~~

E. SHORT-DISTANCE DISCOUNT (SDD)

A Customer’s monthly NT bill shall be adjusted to reflect a Short Distance Discount (SDD) when a Customer has a resource that (1) is designated as a Network Resource (DNR) in the customer’s NT Service Agreement for at least 12 months, and (2) uses FCRTS facilities for less than 75 circuit miles for delivery to the Network Load. A DNR that is a system sale (the DNR is not associated with a specific generating resource) does not qualify for the SDD. Any DNR that is eligible for the SDD (DNR SD) must be noted as such in the NT Service Agreement.

The NT monthly bill will be reduced by a credit equal to:

$$\text{Avg. Generation of the DNR SD during HLH} * \text{NT Rate} * \frac{75 - \text{Tx Distance}}{75} * 0.4$$

Where:

Average Generation during HLH =

The output serving Network Load during HLH on a firm basis over the billing month, divided by the number of HLH during the month, multiplied by the ratio of the Qualifying Capacity of the DNR SD output serving the Customer’s Point(s) of Delivery (POD) to the total DNR SD designated capacity.

The output serving Network Load is:

1. in the case of a scheduled DNR SD, the sum of firm schedules to Network Load.
2. in the case of Behind the Meter Resources, the metered output of the resource.

NT Rate = \$1.741 per kilowatt per month

Tx Distance = The contractually specified distance measured in circuit miles between the DNR SD Point of Receipt (POR) and the Customer's nearest POD(s) within 75 circuit miles of the DNR SD.

1. BPA shall use the peak load for the prior calendar year for the POD nearest to the DNR SD to calculate how much of the DNR SD's designated capacity is allocated to that POD. If the peak load for the prior calendar year of the closest POD is less than the DNR SD's designated capacity, then BPA shall use the next nearest POD that is within 75 circuit miles of the DNR SD, continuing until the DNR SD's designated capacity is fully allocated to the qualifying PODs, subject to section 2 below. The Tx Distance shall be the sum of the distance from the DNR SD to each of the PODs, weighted by the DNR SD designated capacity allocated to each POD.
2. The amount of designated capacity from all DNR SD allocated to any POD may not exceed the POD's peak load.
3. For a DNR SD directly connected to the customer's system (including Behind the Meter Resources) or a DNR SD that does not use BPA's network facilities, the Tx Distance shall be zero.

Qualifying Capacity = The sum of all DNR SD designated capacity allocated to the Customer's POD(s).
For a DNR SD directly connected to the customer's system (including Behind the Meter Resources) or a DNR SD that does not use BPA's network facilities, the Qualifying Capacity shall be the total DNR SD designated capacity.

Behind the Meter Resource = A resource that is used solely to serve the NT Customer's Network Load and is internal to the NT Customer's system.

F. DIRECT ASSIGNMENT FACILITIES

BPA shall collect the capital and related costs of a Direct Assignment Facility under the Advance Funding (AF) rate or the Use-of-Facilities (UFT) rate. Other associated costs, including but not limited to operations, maintenance, and general plant costs, also shall be recovered from the Network Customer under an applicable rate schedule.

G. INCREMENTAL COST RATES

The rates specified in section II are applicable to service over available transmission capacity. Network Customers that integrate new Network Resources, new Member Systems, or new native load customers that would require BPA to construct Network Upgrades shall be subject to the higher of the rates specified in section II or incremental cost rates for service over such facilities. Incremental cost rates would be developed pursuant to section 7(i) of the Northwest Power Act.

H. RATE ADJUSTMENT DUE TO FERC ORDER UNDER FPA § 212

Customers taking service under this rate schedule are subject to the Rate Adjustment Due to FERC Order under FPA § 212, specified in GRSP II.D.

**PTP-16
POINT-TO-POINT RATE**

SECTION I. AVAILABILITY

This schedule supersedes the PTP-14 rate schedule. It is available to Transmission Customers taking Point-to-Point (PTP) Transmission Service over Federal Columbia River Transmission System (FCRTS) Network and Delivery facilities, for hourly non-firm service over such FCRTS facilities, for customers with Integration of Resources agreements, and to customers taking Conditional Firm (CF) Transmission Service. Terms and conditions of PTP are specified in the Open Access Transmission Tariff. This schedule is available also for transmission service of a similar nature that may be ordered by the Federal Energy Regulatory Commission (FERC) pursuant to sections 211 and 212 of the Federal Power Act (16 U.S.C. §§ 824j and 824k). Service under this schedule is subject to the General Rate Schedule Provisions (GRSPs), which follow the rate schedules in this document.

SECTION II. RATES

A. LONG-TERM FIRM PTP TRANSMISSION SERVICE

\$1.479 per kilowatt per month

B. SHORT-TERM FIRM AND NON-FIRM PTP TRANSMISSION SERVICE

For each reservation, the rates shall not exceed:

1. Monthly, Weekly, and Daily Firm and Non-Firm Service

a. Days 1 through 5 \$0.068 per kilowatt per day

b. Day 6 and beyond \$0.049 per kilowatt per day

2. Hourly Firm and Non-Firm Service

4.26 mills per kilowatthour

SECTION III. BILLING FACTORS

A. ALL FIRM SERVICE AND MONTHLY, WEEKLY, AND DAILY NON-FIRM SERVICE

The Billing Factor for each rate specified in sections II.A. and II.B. for all service shall be the Reserved Capacity, which is the greater of:

1. the sum of the capacity reservations at the Point(s) of Receipt (POR), or
2. the sum of the capacity reservations at the Point(s) of Delivery (POD).

B. REDIRECT SERVICE

Redirecting Long-Term Firm PTP to Short-Term Firm PTP service will not result in an additional charge if the capacity reservation does not exceed the amount reserved in the existing service agreement.

SECTION IV. ADJUSTMENTS, CHARGES, AND OTHER RATE PROVISIONS

A. ANCILLARY SERVICES

Customers taking service under this rate schedule are subject to the ACS Scheduling, System Control, and Dispatch Service Rate and the Reactive Supply and Voltage Control from Generation Sources Service Rate. Other Ancillary Services that are required to support PTP Transmission Service on the Network are available under the ACS rate schedule.

B. DELIVERY CHARGE

Customers taking PTP Transmission Service over Delivery facilities are subject to the Delivery Charge, specified in GRSP II.A.

C. FAILURE TO COMPLY PENALTY

Customers taking service under this rate schedule are subject to the Failure to Comply Penalty Charge, specified in GRSP II.B.

D. INTERRUPTION OF NON-FIRM PTP TRANSMISSION SERVICE

If daily, weekly, or monthly Non-Firm PTP Transmission Service is interrupted, the rates charged under section II.B.1. shall be prorated over the total hours in the day to give credit for the hours of such interruption.

When Reserved Capacity becomes the Billing Factor for Hourly Non-Firm Service, the rates charged under section II.B.2. shall apply as follows:

1. If the need for curtailment is caused by conditions on the FCRTS, the Billing Factor will be as follows:
 - a. If Hourly Non-Firm PTP Transmission Service is curtailed or interrupted before the close of the hourly non-firm scheduling window, the Billing Factor will be the Reserved Capacity minus the curtailed capacity.

- b. If Hourly Non-Firm PTP Transmission Service is curtailed or interrupted after the close of the hourly non-firm scheduling window, the Billing Factor will be the Transmission Customer's actual schedule in the hour.
2. If the need for curtailment is caused by conditions on another transmission provider's transmission system, the Billing Factor will be the Reserved Capacity.

~~E. POWER FACTOR PENALTY~~

~~Customers taking service under this rate schedule are subject to the Power Factor Penalty Charge, specified in GRSP II.C.~~

F. RESERVATION FEE

Customers that postpone the commencement of Long-Term Firm Point-To-Point Transmission Service by requesting an extension of the Service Commencement Date will be subject to the Reservation Fee, specified in GRSP II.E.

G. SHORT-DISTANCE DISCOUNT (SDD)

When a Point of Receipt and Point of Delivery use FCRTS facilities for a distance of less than 75 circuit miles and are designated as being short distance in the PTP Service Agreement, the monthly capacity reservations for the relevant POR and POD shall be adjusted, for the purpose of computing the monthly bill for annual service, by the following factor:

$$0.6 + (0.4 * \text{transmission distance} / 75)$$

Such adjusted monthly POR and POD reservations shall be used to compute the billing factors in section III.A. to calculate the monthly bill for Long-Term Firm PTP Transmission Service. The POD capacity reservation eligible for the SDD may be no larger than the POR capacity reservation. System sales do not qualify for SDD. The distance used to calculate the SDD will be contractually specified and based upon path(s) identified in power flow studies. If a set of contiguous PODs qualifies for an SDD, the transmission distance used in the calculation of the SDD shall be between the POR and the POD farthest from the POR.

If the customer requests secondary PORs or PODs that use SDD-adjusted capacity reservations for any period of time during a month, the SDD shall not be applied that month.

H. UNAUTHORIZED INCREASE CHARGE

Customers that exceed their capacity reservations at any POR or POD shall be subject to the Unauthorized Increase Charge, specified in GRSP II.G.

I. DIRECT ASSIGNMENT FACILITIES

BPA shall collect the capital and related costs of a Direct Assignment Facility under the Advance Funding (AF) rate or the Use-of-Facilities (UFT) rate. Other associated costs, including but not limited to operations, maintenance, and general plant costs, also shall be recovered from the PTP Transmission Customer under an applicable rate schedule.

J. INCREMENTAL COST RATES

The rates specified in section II are applicable to service over available transmission capacity. Customers requesting new or increased firm service that would require BPA to construct Network Upgrades to alleviate a capacity constraint may be subject to incremental cost rates for such service if incremental cost is higher than embedded cost. Incremental cost rates would be developed pursuant to section 7(i) of the Northwest Power Act.

K. RATE ADJUSTMENT DUE TO FERC ORDER UNDER FPA § 212

Customers taking service under this rate schedule are subject to the Rate Adjustment Due to FERC Order under FPA § 212, specified in GRSP II.D.

IS-16
SOUTHERN INTERTIE RATE

SECTION I. AVAILABILITY

This schedule supersedes the IS-14 rate schedule. It is available to Transmission Customers taking Point-to-Point Transmission (PTP) Service over the Federal Columbia River Transmission System (FCRTS) Southern Intertie facilities. Terms and conditions of service are specified in the Open Access Transmission Tariff or, for customers that executed Southern Intertie agreements with BPA before October 1, 1996, will be as provided in the customer's agreement with BPA. This schedule is available also for transmission service of a similar nature that may be ordered by the Federal Energy Regulatory Commission (FERC) pursuant to sections 211 and 212 of the Federal Power Act (16 U.S.C. §§ 824j and 824k). Service under this schedule is subject to the General Rate Schedule Provisions (GRSPs), which follow the rate schedules in this document.

SECTION II. RATES

A. LONG-TERM FIRM PTP TRANSMISSION SERVICE

\$1.128 per kilowatt per month

B. SHORT-TERM FIRM AND NON-FIRM PTP TRANSMISSION SERVICE

For each reservation, the rates shall not exceed:

1. Monthly, Weekly, and Daily Firm and Non-Firm Service

a. Days 1 through 5 \$0.052 per kilowatt per day

b. Day 6 and beyond \$0.037 per kilowatt per day

2. Hourly Firm and Non-Firm Service

3.25 mills per kilowatthour

SECTION III. BILLING FACTORS

A. ALL FIRM SERVICE AND MONTHLY, WEEKLY, AND DAILY NON-FIRM SERVICE

The Billing Factor for each rate specified in sections II.A. and II.B. for all services shall be the Reserved Capacity, which is the greater of:

1. the sum of the capacity reservations at the Point(s) of Receipt (POR), or
2. the sum of the capacity reservations at the Point(s) of Delivery (POD).

For Southern Intertie transmission agreements executed prior to October 1, 1996, the Billing Factor shall be as specified in the agreement.

B. REDIRECT SERVICE

Redirecting Long-Term Firm PTP to Short-Term Firm PTP service will not result in an additional charge if the capacity reservation does not exceed the amount reserved in the existing service agreement.

SECTION IV. ADJUSTMENTS, CHARGES, AND OTHER RATE PROVISIONS

A. ANCILLARY SERVICES

Customers taking service under this rate schedule are subject to the ACS Scheduling, System Control, and Dispatch Service Rate and the Reactive Supply and Voltage Control from Generation Sources Service Rate. Other Ancillary Services that are required to support PTP Transmission Service on the Southern Intertie are available under the ACS rate schedule.

B. FAILURE TO COMPLY PENALTY

Customers taking service under this rate schedule are subject to the Failure to Comply Penalty Charge specified in GRSP II.B.

C. INTERRUPTION OF NON-FIRM PTP TRANSMISSION SERVICE

If daily, weekly, or monthly Non-Firm PTP Transmission Service is interrupted, the rates charged under section II.B.1. shall be prorated over the total hours in the day to give credit for the hours of such interruption.

When Reserved Capacity becomes the Billing Factor for Hourly Non-Firm Service, the rates charged under section II.B.2. shall apply as follows:

1. If the need for curtailment is caused by conditions on the FCRTS, the Billing Factor will be as follows:
 - a. If Hourly Non-Firm PTP Transmission Service is curtailed or interrupted before the close of the hourly non-firm scheduling window, the Billing Factor will be the Reserved Capacity minus the curtailed capacity.
 - b. If Hourly Non-Firm PTP Transmission Service is curtailed or interrupted after the close of the hourly non-firm scheduling window, the Billing Factor will be the Transmission Customer's actual schedule in the hour.
2. If the need for curtailment is caused by conditions on another transmission provider's transmission system, the Billing Factor will be the Reserved Capacity.

~~D. — POWER FACTOR PENALTY~~

~~Customers taking service under this rate schedule are subject to the Power Factor Penalty Charge specified in GRSP II.C.~~

E. RESERVATION FEE

Customers that postpone the commencement of Long-Term Firm Point-To-Point Transmission Service by requesting an extension of their Service Commencement Date will be subject to the Reservation Fee specified in GRSP II.E.

F. UNAUTHORIZED INCREASE CHARGE

Customers that exceed their capacity reservations at any POR or POD shall be subject to the Unauthorized Increase Charge, specified in GRSP II.G.

G. DIRECT ASSIGNMENT FACILITIES

BPA shall collect the capital and related costs of a Direct Assignment Facility under the Advance Funding (AF) rate or the Use-of-Facilities (UFT) rate. Other associated costs, including but not limited to operations, maintenance, and general plant costs, also shall be recovered from the Transmission Customer under an applicable rate schedule.

H. INCREMENTAL COST RATES

The rates specified in section II are applicable to service over available transmission capacity. Customers requesting new or increased firm service that would require BPA to construct new facilities or upgrades to alleviate a capacity constraint may be subject to incremental cost rates for such service if incremental cost is higher than embedded cost. Incremental cost rates would be developed pursuant to section 7(i) of the Northwest Power Act.

I. RATE ADJUSTMENT DUE TO FERC ORDER UNDER FPA § 212

Customers taking service under this rate schedule are subject to the Rate Adjustment Due to FERC Order under FPA § 212, specified in GRSP II.D.

UFT-16
USE-OF-FACILITIES TRANSMISSION RATE

SECTION I. AVAILABILITY

This schedule supersedes the UFT-14 rate schedule unless otherwise provided in the agreement, and is available for firm transmission over specified Federal Columbia River Transmission System (FCRTS) facilities. Service under this schedule is subject to the General Rate Schedule Provisions (GRSPs), which follow the rate schedules in this document.

SECTION II. RATE

The monthly charge per kilowatt of Transmission Demand/capacity reservations specified in the agreement shall be one-twelfth of the annual cost of capacity of the specified facilities divided by the sum of Transmission Demands/capacity reservations (in kilowatts) using such facilities. Such annual cost shall be determined in accordance with section III.

SECTION III. DETERMINATION OF TRANSMISSION RATE

- A. From time to time, but not more often than once a year, BPA shall determine the following data for the facilities that have been constructed or otherwise acquired by BPA and that are used to transmit electric power:
1. The annual cost of the specified FCRTS facilities, as determined from the capital cost of such facilities and annual cost ratios developed from the Federal Columbia River Power System financial statement, including interest and amortization, operation and maintenance, administrative and general, and general plant costs.

The annual cost per kilowatt of facilities listed in the agreement that are owned by another entity and used by BPA for making deliveries to the transferee shall be determined from the costs specified in the agreement between BPA and such other entity.
 2. The yearly noncoincident peak demands of all users of such facilities or other reasonable measurement of the facilities' peak use.
- B. The monthly charge per kilowatt of billing demand shall be one-twelfth of the sum of the annual cost of the FCRTS facilities used, divided by the sum of Transmission Demands/capacity reservations. The annual cost per kilowatt of Transmission Demand/capacity reservation for a facility constructed or otherwise acquired by BPA shall be determined in accordance with the following formula:

$$\frac{A}{D}$$

Where:

- A = The annual cost of such facility as determined in accordance with A.1. above.
D = The sum of the yearly noncoincident demands on the facility as determined in accordance with A.2. above.

For facilities used solely by one customer, BPA may charge a monthly amount equal to the annual cost of such sole-use facilities, determined in accordance with section III.A.1., divided by 12.

For facilities used by more than one customer, BPA may charge a monthly amount equal to the annual cost of such facilities prorated based on relative use of the facilities, divided by 12.

SECTION IV. DETERMINATION OF BILLING FACTORS

Unless otherwise stated in the agreement, the Billing Factor shall be the largest of:

- A. The Transmission Demand/capacity reservation in kilowatts specified in the agreement;
- B. The highest hourly Measured or Scheduled Demand for the month; or
- C. The Ratchet Demand.

SECTION V. ADJUSTMENTS, CHARGES, AND OTHER RATE PROVISIONS

A. ANCILLARY SERVICES

Ancillary services that are required to support UFT transmission service are available under the ACS rate schedule.

B. FAILURE TO COMPLY PENALTY

Customers taking service under this rate schedule are subject to the Failure to Comply Penalty Charge, specified in GRSP II.B.

~~**C. POWER FACTOR PENALTY CHARGE**~~

~~Customers taking service under this rate schedule are subject to the Power Factor Penalty Charge, specified in GRSP II.C.~~

GENERAL RATE SCHEDULE PROVISIONS

SECTION I. GENERALLY APPLICABLE PROVISIONS

**SECTION II. ADJUSTMENTS, CHARGES, AND
SPECIAL RATE PROVISIONS**

A. DELIVERY CHARGE

Transmission Customers shall pay a Delivery Charge for service over DSI Delivery facilities and Utility Delivery facilities.

1. RATES

a. DSI Delivery

Use-of-Facilities (UFT-14) Rate, section III

b. Utility Delivery

\$1.399 per kilowatt per month

2. BILLING FACTOR

a. Utility Delivery

The monthly Billing Factor for the Utility Delivery rate in section 1.b. shall be the total load on the hour of the Monthly Transmission Peak Load at the Points of Delivery specified as Utility Delivery facilities.

The monthly Utility Delivery Billing Factor shall be adjusted for customers that pay for Utility Delivery facilities under the Use-of-Facilities (UFT) rate schedule. The kilowatt credit shall equal the transmission service over the Delivery facilities used to calculate the UFT charge. This adjustment shall not reduce the Utility Delivery Charge billing factor below zero.

B. FAILURE TO COMPLY PENALTY CHARGE

If a party fails to comply with BPA's dispatch, curtailment, redispatch, or load shedding orders, the party will be assessed the Failure to Comply Penalty Charge. Parties that are unable to comply with a dispatch, curtailment, load shedding, or redispatch order due to a *force majeure* on their system will not be subject to the Failure to Comply Penalty Charge provided that they immediately notify BPA of the situation upon occurrence of the *force majeure*.

1. RATES

The Failure to Comply Penalty Charge shall be the greater of 500 mills per kilowatthour or 150 percent of an hourly energy index in the Pacific Northwest.

If no adequate hourly index exists, an alternative index will be used. At least 30 days prior to the use of such index BPA will post on its OASIS Web site the name of the index to be used. BPA will not change the index more often than once per year unless BPA determines that the existing index is no longer a reliable price index.

2. BILLING FACTOR

The Billing Factor for the Failure to Comply Penalty Charge shall be the kilowatthours that were not curtailed, redispatched, shed, changed, or limited within ten (10) minutes after issuance of the order in any of the following situations:

- a. Failure to shed load when directed to do so by BPA in accordance with the Load Shedding provisions of the Open Access Transmission Tariff or any other applicable agreement between the parties. This includes failure to shed load pursuant to such orders within the time period specified by the North American Electric Reliability Council (NERC), Western Electricity Coordinating Council (WECC), or Northwest Power Pool (NWPP) criteria.
- b. Failure of a generator in the BPA Control Area or which directly interconnects to the FCRTS to change or limit generation levels when directed to do so by BPA in accordance with Good Utility Practice as defined in the OATT. This includes failure to change generation levels pursuant to such orders within the time period specified by NERC, WECC, or NWPP criteria.
- c. Failure to curtail or redispatch a reservation or schedule or failure to curtail or redispatch actual transmission use of the Contract or Service Agreement when directed to do so by BPA in accordance with the curtailment or redispatch provisions of the Open Access Transmission

Tariff or any other applicable agreement between the parties. This includes failure to curtail or redispatch pursuant to such scheduling protocols or orders within the time period specified by NERC, WECC, or NWPP criteria.

3. ASSESSMENT OF OTHER COSTS RESULTING FROM THE FAILURE TO COMPLY

In addition to the Failure to Comply Penalty Charge, the party will be assessed the costs of alternate measures taken by BPA in order to manage the reliability of the FCRTS due to the failure to comply.

The party will also be assessed monetary penalties imposed on BPA by a regional reliability organization, electric reliability organization, or FERC for a violation of a reliability standard authorized under section 215 of the Energy Policy Act of 2005, if the violation was caused by the party's failure to comply.

C. POWER FACTOR PENALTY CHARGE

1. DESCRIPTION OF THE POWER FACTOR PENALTY CHARGE

~~ANY PARTY THAT IS INTERCONNECTED WITH THE FCRTS SHALL BE CHARGED FOR ITS REACTIVE POWER REQUIREMENTS AS DESCRIBED IN THIS SECTION, UNLESS OTHERWISE SPECIFIED IN AN AGREEMENT EXISTING PRIOR TO OCTOBER 1, 1995.~~

~~EACH POINT OF INTERCONNECTION OR POINT OF DELIVERY SHALL BE MONITORED AND BILLED INDEPENDENTLY FOR DETERMINING THE PARTY'S TOTAL REACTIVE POWER REQUIREMENTS AND ALL ASSOCIATED BILLING FACTORS, INCLUDING THE REACTIVE DEADBAND. IF A PARTY IS TAKING TRANSMISSION SERVICE UNDER MULTIPLE RATE SCHEDULES, THE PARTY WILL PAY FOR ITS REACTIVE POWER REQUIREMENTS AS IF IT IS TAKING DELIVERY UNDER ONLY ONE RATE SCHEDULE.~~

2. CONDITIONS FOR APPLICATION OF THE POWER FACTOR PENALTY CHARGE

A. MEASURED DATA

~~THE POWER FACTOR PENALTY CHARGE WILL APPLY TO ONLY THE PARTY'S REACTIVE POWER REQUIREMENTS FOR WHICH MEASURED DATA EXIST.~~

B. PARTY'S GENERATING RESOURCE CONNECTED TO THE FCRTS

~~IRRESPECTIVE OF THE DIRECTION OF REAL POWER FLOW, THE POWER FACTOR PENALTY CHARGE SHALL APPLY TO POINTS OF INTERCONNECTION WHERE A PARTY'S GENERATING RESOURCE IS DIRECTLY CONNECTED TO THE FCRTS, UNLESS THE PARTY'S GENERATING RESOURCE IS EITHER:~~

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~~(1) A SYNCHRONOUS GENERATOR EQUIPPED WITH A VOLTAGE REGULATOR, OR~~

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~~(2) EQUIPPED WITH REACTIVE POWER CONTROL DEVICES THAT COMPLY WITH BPA'S APPLICABLE INTERCONNECTION STANDARDS.~~

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~~SUCH RESOURCE MUST ACTIVELY SUPPORT THE VOLTAGE SCHEDULE AT THE POINT OF INTEGRATION AT ALL TIMES WHEN THE RESOURCE IS IN SERVICE, AS DETERMINED BY BPA, FOR THIS EXEMPTION TO APPLY. GENERATING RESOURCES THAT DO NOT SATISFY THE ABOVE CRITERIA SHALL NOT BE EXEMPT FROM THE POWER FACTOR PENALTY CHARGE.~~

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~~C. BI DIRECTIONAL REAL POWER FLOW~~

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~~FOR POINTS OTHER THAN THOSE SPECIFIED IN SECTION 2.B., THE POWER FACTOR PENALTY CHARGE WILL NOT BE APPLIED, AND NO NEW RATCHET DEMAND FOR REACTIVE POWER WILL BE ESTABLISHED, AT A SPECIFIC POINT IF THE METERED REAL POWER (ON AN HOURLY INTEGRATED BASIS) FLOWS FROM THE PARTY'S SYSTEM TO THE FCRTS AT THAT POINT FOR AS LITTLE AS ONE HOUR DURING THE BILLING PERIOD. HOWEVER, THE PARTY WILL STILL PAY ANY PREVIOUSLY INCURRED DEMAND RATCHET CHARGES. THE DIRECTION OF THE REAL POWER FLOW WILL BE DETERMINED BASED ON METERED QUANTITIES, NOT ON SCHEDULED QUANTITIES.~~

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~~D. SERVICE BY TRANSFER~~

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~~POINTS OF DELIVERY THAT ARE SERVED BY TRANSFER OVER ANOTHER UTILITY'S TRANSMISSION SYSTEM WILL NOT BE SUBJECT TO THE POWER FACTOR PENALTY CHARGE UNLESS THERE ARE SIGNIFICANT BPA NETWORK FACILITIES BETWEEN THE PARTY'S POINTS OF DELIVERY AND THE TRANSFEROR'S SYSTEM.~~

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~~E. SPECIFIC POINTS EXEMPT FROM THE POWER FACTOR PENALTY CHARGE~~

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~~THE POWER FACTOR PENALTY CHARGE WILL NOT APPLY TO THE FOLLOWING POINTS:~~

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~~NEVADA-OREGON BORDER (NOB)~~

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~~BIG EDDY 500 KV~~

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~~BIG EDDY 230 KV~~

~~JOHN DAY 500 KV~~

~~MALIN 500 KV~~

~~CAPTAIN JACK 500 KV~~

~~GARRISON 500 KV~~

~~TOWNSEND 500 KV~~

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~~F. SPECIAL CIRCUMSTANCES~~

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~~THE PARTY MAY SUBMIT REQUESTS TO BPA FOR CONSIDERATION OF UNIQUE CIRCUMSTANCES. BPA WILL EVALUATE THE REQUEST AND MAY MAKE ARRANGEMENTS WITH THE PARTY TO ADDRESS THE SPECIAL CIRCUMSTANCES.~~

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~~3. RATES~~

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~~BPA WILL BILL THE PARTY FOR REACTIVE POWER AT EACH POINT EACH MONTH AS FOLLOWS:~~

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~~REACTIVE DEMAND~~

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~~\$0.28 PER KVAR OF LAGGING REACTIVE DEMAND IN EXCESS OF THE REACTIVE DEADBAND DURING HLH IN ALL MONTHS OF THE YEAR.~~

~~\$0.24 PER KVAR OF LEADING REACTIVE DEMAND IN EXCESS OF THE REACTIVE DEADBAND DURING LLH IN ALL MONTHS OF THE YEAR.~~

~~NO CHARGE FOR LEADING REACTIVE DEMAND DURING HLH.~~

~~NO CHARGE FOR LAGGING REACTIVE DEMAND DURING LLH.~~

~~4. BILLING FACTORS~~

~~A. REACTIVE DEADBAND~~

~~THE REACTIVE DEADBAND (MEASURED IN KVAR) IS USED TO DETERMINE THE REACTIVE BILLING DEMAND AND RATCHET DEMAND FOR THE POWER FACTOR PENALTY CHARGE.~~

~~THE REACTIVE DEADBAND FOR EACH BILLING PERIOD IS THE MAXIMUM HOURLY INTEGRATED METERED REAL POWER DEMAND (MEASURED IN KW) AT EACH POINT DURING THE BILLING PERIOD MULTIPLIED BY 25 PERCENT.~~

~~THE REACTIVE DEADBAND FOR EITHER HLH OR LLH:~~

~~(1) IS COMPUTED ONCE PER BILLING PERIOD (THE SAME QUANTITY IS USED FOR BOTH HLH AND LLH),~~

~~(2) DOES NOT VARY DURING THE BILLING PERIOD, AND~~

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~~(3) IS BASED ON THE MAXIMUM HOURLY INTEGRATED METERED REAL POWER DEMAND DURING THAT BILLING PERIOD.~~

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~~B. REACTIVE BILLING DEMAND~~

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~~THE PARTY'S REACTIVE BILLING DEMAND SHALL BE CALCULATED INDEPENDENTLY FOR LAGGING REACTIVE POWER AND LEADING REACTIVE POWER AT EACH POINT FOR WHICH A POWER FACTOR PENALTY CHARGE IS ASSESSED.~~

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~~ALL REACTIVE DEMANDS SHALL BE ESTABLISHED IN THE PARTICULAR HLH OR LLH AT EACH POINT DURING WHICH THE PARTY'S MAXIMUM APPLICABLE REACTIVE DEMAND IS PLACED ON BPA, REGARDLESS OF THE TIME OF THE REAL POWER PEAK AT EACH POINT.~~

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~~ALL REACTIVE DEMAND AT EACH POINT SHALL BE ESTABLISHED ON A NON-COINCIDENTAL BASIS, REGARDLESS OF WHETHER THE PARTY IS BILLED FOR REAL POWER OR TRANSMISSION AT SUCH POINT ON A COINCIDENTAL OR NON-COINCIDENTAL BASIS, UNLESS OTHERWISE SPECIFIED IN THE AGREEMENT BETWEEN BPA AND THE PARTY, OR COINCIDENTAL BILLING IS, IN BPA'S SOLE DETERMINATION, MORE PRACTICAL FOR BPA.~~

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~~THERE WILL BE SEPARATE REACTIVE DEMANDS FOR LAGGING (HLH) AND LEADING (LLH) DEMANDS. THE PARTY'S REACTIVE BILLING DEMAND FOR EACH POINT FOR THE BILLING MONTH SHALL BE THE LARGER OF:~~

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~~(1) THE LARGEST MEASURED REACTIVE DEMAND IN EXCESS OF THE REACTIVE DEADBAND DURING THE BILLING PERIOD, OR~~

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~~(2) THE RATCHET DEMAND FOR REACTIVE POWER.~~

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~~THE RATCHET DEMAND FOR REACTIVE POWER IS EQUAL TO 100 PERCENT OF THE LARGEST MEASURED REACTIVE DEMAND IN EXCESS OF THE REACTIVE DEADBAND DURING THE PRECEDING 11 MONTH PERIOD. EACH POINT SHALL HAVE A SEPARATE RATCHET DEMAND FOR LAGGING (HLH) AND LEADING (LLH) REACTIVE DEMAND.~~

~~5. ADJUSTMENTS FOR REACTIVE LOSSES~~

~~MEASURED DATA SHALL BE ADJUSTED FOR REACTIVE LOSSES, IF APPLICABLE, BEFORE DETERMINATION OF THE REACTIVE BILLING DEMAND.~~

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47. RATCHET DEMAND

The Ratchet Demand in kilowatts or kilovars is the maximum demand established during a specified period of time during or prior to the current billing period. The Ratchet Demand shall be the maximum demand established during the previous 11 billing months. If a Transmission Demand has been decreased pursuant to the terms of the transmission agreement during the previous 11 billing months, such decrease will be reflected in determining the Ratchet Demand. ~~The Ratchet Demand for reactive power is defined in the Power Factor Penalty Charge at GRSP II.C.~~

48. REACTIVE POWER

Reactive Power is the out-of-phase component of the total volt-amperes in an electric circuit. Reactive Power ~~has two components: reactive d~~Demand is ~~(expressed in kilovars or kVAr.)~~ and ~~reactive-Reactive Power e~~Energy is ~~(expressed in kilovarhours or kVArh).~~