

**Rate Schedule L-NT1
ATTACHMENT H to OATT
(Supersedes Rate Schedule L-NT1 dated
October 1, 2011, through September 30, 2016)**

**UNITED STATES DEPARTMENT OF ENERGY
WESTERN AREA POWER ADMINISTRATION**

**ROCKY MOUNTAIN REGION
Loveland Area Projects**

NETWORK INTEGRATION TRANSMISSION SERVICE

Effective

The first day of the first full billing period beginning on or after October 1, 2016, and extending through September 30, 2021, or until superseded by another rate schedule, whichever occurs earlier.

Applicable

The Transmission Customer will compensate the Loveland Area Projects Transmission Service Provider (LAPT) each month for Network Integration Transmission Service under the applicable Network Integration Transmission Service Agreement and the Annual Transmission Revenue Requirement described herein.

Formula Rate

$$\text{Monthly Charge} = \frac{\text{Annual Transmission Revenue Requirement (\$)}}{12} \times \text{Network Service Customer's Load Ratio Share}$$

A calculated Annual Transmission Revenue Requirement will go into effect every October 1 based on updated financial projections and the true-up of previous projections. The Annual Transmission Revenue Requirement will be posted on the LAPT Open Access Same-Time Information System website.

**Rate Schedule L-FPT1
SCHEDULE 7 to OATT
(Supersedes Rate Schedule L-FPT1 dated
October 1, 2011, through September 30, 2016)**

**UNITED STATES DEPARTMENT OF ENERGY
WESTERN AREA POWER ADMINISTRATION**

**ROCKY MOUNTAIN REGION
Loveland Area Projects**

**LONG-TERM FIRM AND SHORT-TERM FIRM POINT-TO-POINT
TRANSMISSION SERVICE**

Effective

The first day of the first full billing period beginning on or after October 1, 2016, and extending through September 30, 2021, or until superseded by another rate schedule, whichever occurs earlier.

Applicable

The Transmission Customer shall compensate the Loveland Area Projects Transmission Service Provider (LAPT) each month for reserved capacity under the applicable Firm Point-to-Point Transmission Service Agreement and the formula rate described herein.

Formula Rate

$$\begin{array}{l} \text{Firm} \\ \text{Point-to-Point} \\ \text{Transmission} \\ \text{Service Formula Rate} \end{array} = \frac{\text{Annual Transmission Revenue Requirement (\$)}}{\text{Firm Transmission Capacity Reservations (kW) plus} \\ \text{Network Integration Transmission Service Capacity (kW)}}$$

A calculated charge will go into effect every October 1 based on the formula above, updated financial and load projections, and the true-up of previous projections. The annual charge will be posted on the LAPT Open Access Same-Time Information System (OASIS) website.

**Rate Schedule L-FPT1
SCHEDULE 7 to OATT
(Supersedes Rate Schedule L-FPT1 dated
October 1, 2011, through September 30, 2016)**

Discounts

Three principal requirements apply to discounts for transmission service as follows: (1) any offer of a discount made by LAPT must be announced to all eligible customers solely by posting on the LAPT OASIS website; (2) any customer-initiated requests for discounts, including requests for use by LAP Marketing, must occur solely by posting on the LAPT OASIS website; and (3) once a discount is negotiated, details must be immediately posted on the LAPT OASIS website. For any discount agreed upon for service on a path, from Point(s) of Receipt to Point(s) of Delivery, LAPT must offer the same discounted transmission service rate for the same time period to all eligible customers on all unconstrained transmission paths that go to the same point(s) of delivery on the transmission system.

**Rate Schedule L-NFPT1
SCHEDULE 8 to OATT
(Supersedes Rate Schedule L-NFPT1 dated
October 1, 2011, through September 30, 2016)**

**UNITED STATES DEPARTMENT OF ENERGY
WESTERN POWER AREA ADMINISTRATION**

**ROCKY MOUNTAIN REGION
Loveland Area Projects**

NON-FIRM POINT-TO-POINT TRANSMISSION SERVICE

Effective

The first day of the first full billing period beginning on or after October 1, 2016, and extending through September 30, 2021, or until superseded by another rate schedule, whichever occurs earlier.

Applicable

The Transmission Customer will compensate the Loveland Area Projects Transmission Service Provider (LAPT) for Non-Firm Point-to-Point Transmission Service under the applicable Non-Firm Point-to-Point Transmission Service Agreement and the formula rate described herein.

Formula Rate

$$\begin{array}{l} \text{Maximum Non-Firm Point-to-Point} \\ \text{Transmission Service Formula Rate} \end{array} = \begin{array}{l} \text{Firm Point-to-Point} \\ \text{Transmission Service Formula Rate} \end{array}$$

A calculated charge will go into effect every October 1 based on the formula above, updated financial and load projections, and the true-up of previous projections. The annual charge will be posted on the LAPT Open Access Same-Time Information System (OASIS) website.

Discounts

Three principal requirements apply to discounts for transmission service as follows: (1) any offer of a discount made by LAPT must be announced to all eligible customers solely by posting on the LAPT OASIS website; (2) any customer-initiated requests for discounts, including

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SCHEDULE 8 to OATT
(Supersedes Rate Schedule L-NFPT1 dated
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requests for use by LAP Marketing, must occur solely by posting on the LAPT OASIS; and

(3) once a discount is negotiated, details must be immediately posted on the LAPT OASIS. For any discount agreed upon for service on a path, from Point(s) of Receipt to Point(s) of Delivery, LAPT must offer the same discounted transmission service charge for the same time period to all eligible customers on all unconstrained transmission paths that go to the same point(s) of delivery on the transmission system.

**Rate Schedule L-UU1
SCHEDULE 10 to OATT
(Supersedes Rate Schedule L-UU1 dated
October 1, 2011, through September 30, 2016)**

**UNITED STATES DEPARTMENT OF ENERGY
WESTERN AREA POWER ADMINISTRATION**

**ROCKY MOUNTAIN REGION
Loveland Area Projects**

UNRESERVED USE PENALTIES

Effective

The first day of the first full billing period beginning on or after October 1, 2016, and extending through September 30, 2021, or until superseded by another rate schedule, whichever occurs earlier.

Applicable

The Transmission Customer shall compensate the Loveland Area Projects Transmission Service Provider (LAPT) each month for any unreserved use of the transmission system (Unreserved Use) under the applicable transmission service formula rates as described herein. Unreserved Use occurs when an eligible customer uses transmission service it has not reserved or a Transmission Customer uses transmission service in excess of its reserved capacity. Unreserved Use may also include a Transmission Customer's failure to curtail transmission when requested, a Network Integration Transmission Service (Network) Customer's scheduled delivery of off-system non-designated purchases using transmission capacity reserved for designated Network resources, and a Network Customer's use of Network service or secondary service to facilitate a wholesale sale that does not serve a Network load.

**Rate Schedule L-UU1
SCHEDULE 10 to OATT
(Supersedes Rate Schedule L-UU1 dated
October 1, 2011, through September 30, 2016)**

Penalty Rate

The penalty charge for a Transmission Customer who engages in Unreserved Use is 200 percent of the Loveland Area Project's approved formula rate for Firm Point-to-Point Transmission Service assessed as follows: the Unreserved Use Penalty for a single hour of Unreserved Use is based upon the charge for daily Firm Point-to-Point Transmission Service. The Unreserved Use Penalty for more than one assessment for a given duration (e.g., daily) increases to the next longest duration (e.g., weekly). The Unreserved Use Penalty for multiple instances of Unreserved Use (e.g., more than one hour) within a day is based on the charge for daily Firm Point-to-Point Transmission Service. The Unreserved Use Penalty for multiple instances of Unreserved Use isolated to one calendar week is based on the charge for weekly Firm Point-to-Point Transmission Service. The Unreserved Use Penalty for multiple instances of Unreserved Use during more than one week in a calendar month is based on the charge for monthly Firm Point-to-Point Transmission Service.

A Transmission Customer who exceeds their reserved capacity at any point of receipt or point of delivery, or an eligible customer who uses transmission service at a point of receipt or point of delivery it has not reserved, is required to pay for all ancillary services provided by LAPT and associated with the Unreserved Use. The Transmission Customer will pay for ancillary services based on the amount of transmission service it used and did not reserve.

**Rate Schedule L-AS1
SCHEDULE 1 to OATT
(Supersedes Rate Schedule SP-SD4
and Rate Schedule L-AS1 dated
October 1, 2011, through September 30, 2016)**

**UNITED STATES DEPARTMENT OF ENERGY
WESTERN AREA POWER ADMINISTRATION**

**ROCKY MOUNTAIN REGION
Colorado River Storage Project
Loveland Area Projects
Western Area Colorado Missouri Balancing Authority**

SCHEDULING, SYSTEM CONTROL, AND DISPATCH SERVICE

Effective

The first day of the first full billing period beginning on or after October 1, 2016, and extending through September 30, 2021, or until superseded by another rate schedule, whichever occurs earlier.

Applicable

This rate schedule applies to Colorado River Storage Project Transmission (CRCM) and Loveland Area Projects Transmission (LAPT) as Transmission Service Providers (TSPs) and to Western Area Colorado Missouri Balancing Authority (WACM) as the Control Area operator. Scheduling, System Control, and Dispatch Service is required to schedule the movement of power through, out of, within, or into WACM. This service can be provided only by the operator of the Control Area in which the transmission facilities used for transmission service are located.

The CRCM and LAPT TSPs must offer this service and the Federal Transmission Customers must purchase this service from the CRCM and LAPT TSPs. WACM provides this service on behalf of all TSPs within WACM and those TSPs must purchase this service from WACM.

**Rate Schedule L-AS1
SCHEDULE 1 to OATT
(Supersedes Rate Schedule SP-SD4
and Rate Schedule L-AS1 dated
October 1, 2011, through September 30, 2016)**

The charge will be applied to all schedules, except those for the delivery of transmission losses to WACM. WACM will accept any number of scheduling changes over the course of the day without any additional charge. Unless other arrangements are made with WACM, the charge will be allocated equally among all TSPs, both Federal and non-Federal, listed on the schedule who are inside WACM. The Federal transmission segments of the schedule are exempt from invoicing, as costs for these segments are included in the CRCM and LAPT transmission service rates.

Formula Rate

$$\begin{array}{l} \text{Charge} \\ \text{per} \\ \text{Schedule} \end{array} = \frac{\text{Annual Cost of Scheduling Personnel and Related Costs (\$)}}{\text{Number of Schedules per Year, excluding schedules for Delivery of Losses to WACM}}$$

The annual cost of scheduling personnel and related costs includes annual costs associated with transmission scheduling (i.e., personnel, facilities, equipment and software, as well as credits representing fees for agent services).

The number of schedules per year is the yearly total of daily tags which result in a schedule, excluding loss schedules.

A calculated charge will go into effect every October 1 based on the formula above and updated financial and schedule data. The annual charge will be posted on the CRCM and LAPT Open Access Same-Time Information System websites.

**Rate Schedule L-AS2
SCHEDULE 2 to OATT
(Supersedes Rate Schedule SP-RS4
and Rate Schedule L-AS2 dated
October 1, 2011, through September 30, 2016)**

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**ROCKY MOUNTAIN REGION
Colorado River Storage Project
Loveland Area Projects
Western Area Colorado Missouri Balancing Authority**

**REACTIVE SUPPLY AND VOLTAGE CONTROL FROM
GENERATION OR OTHER SOURCES SERVICE**

Effective

The first day of the first full billing period beginning on or after October 1, 2016, and extending through September 30, 2021, or until superseded by another rate schedule, whichever occurs first.

Applicable

This rate schedule applies to Colorado River Storage Project (CRCM) and Loveland Area Projects (LAPT) as Transmission Service Providers (TSPs) and to Western Area Colorado Missouri Balancing Authority (WACM) as the Control Area operator. Reactive Supply and Voltage Control from Generation or Other Sources Services (VAR Support Service) is required to maintain transmission voltages on the TSPs transmission facilities within acceptable limits, using generation facilities and non-generation resources capable of providing this service to produce or absorb reactive power. Thus, VAR Support Service must be provided for each transaction on the transmission facilities within the Control Area. The amount of VAR Support Service supplied to the transmission transactions will be based on the VAR Support Service necessary to maintain transmission voltages within limits generally accepted in the region and consistently adhered to by WACM.

**Rate Schedule L-AS2
SCHEDULE 2 to OATT
(Supersedes Rate Schedule SP-RS4
and Rate Schedule L-AS2 dated
October 1, 2011, through September 30, 2016)**

The CRCM and LAPT TSPs must offer this service for each transaction and the Federal Transmission Customers must purchase this service from the CRCM and LAPT TSPs, unless the Transmission Customer has generating resources capable of providing VARs directly connected to a Federal transmission facility owned and operated by CRCM and/or LAPT and has executed a contract stipulating all the provisions of their self-supply. If WACM provides VAR Support Service on behalf of any non-Federal TSP, VAR Support Service will be assessed based on either the TSP's reserved capacity or the tagged megawatt usage of the TSP's Transmission Customers.

Formula Rate

$$\begin{array}{l} \text{VAR} \\ \text{Support Service} \\ \text{Formula Rate} \end{array} = \frac{\text{Annual Revenue Requirement for VAR Support Service (\$)}}{\text{Transmission Transactions Requiring} \\ \text{VAR Support Service (kW)}}$$

The annual revenue requirement for VAR Support Service equals the revenue requirement for Federal generation times the % of resource capacity used for VAR Support Service (1 minus power factor) plus other resources, e.g., energy and transmission costs for condensing Federal generating units minus applicable revenue credits related to WACM providing service.

The transmission transactions requiring VAR Support Service equals transmission capacity use of the Federal transmission systems; including point-to-point and network service on LAPT and CRCM transmission systems.

A calculated charge will go into effect every October 1 based on the formula above and updated financial and capacity data. The annual charge will be posted on the CRCM and LAPT Open Access Same-Time Information System websites.

**Rate Schedule L-AS3
SCHEDULE 3 to OATT
(Supersedes Rate Schedule SP-FR4
and Rate Schedule L-AS3 dated
October 1, 2011, through September 30, 2016)**

**UNITED STATES DEPARTMENT OF ENERGY
WESTERN AREA POWER ADMINISTRATION**

**ROCKY MOUNTAIN REGION
Colorado River Storage Project
Loveland Area Projects
Western Area Colorado Missouri Balancing Authority**

REGULATION AND FREQUENCY RESPONSE SERVICE

Effective

The first day of the first full billing period beginning on or after October 1, 2016, and extending through September 30, 2021, or until superseded by another rate schedule, whichever occurs earlier.

Applicable

This rate schedule applies to Colorado River Storage Project (CRCM) and Loveland Area Projects (LAPT) as Transmission Service Providers (TSPs) and to Western Area Colorado Missouri Balancing Authority (WACM) as the Control Area operator. Regulation and Frequency Response Service (Regulation Service) is necessary to provide for the continuous balancing of resources, generation, and interchange with load and for maintaining scheduled interconnection frequency at sixty cycles per second (60 Hz). Regulation Service is accomplished by committing on-line generation whose output is raised or lowered, predominantly through the use of automatic generation control (AGC) equipment as necessary, to follow the moment-by-moment changes in load. All loads inside the Control Area consume regulation; therefore, WACM, by default, provides Regulation Service to all loads inside the Control Area.

**Rate Schedule L-AS3
SCHEDULE 3 to OATT
(Supersedes Rate Schedule SP-FR4
and Rate Schedule L-AS3 dated
October 1, 2011, through September 30, 2016)**

The CRCM and LAPT TSPs offer this service when transmission service is used to serve load within WACM and the Federal Transmission Customers must purchase this service from the CRCM and LAPT TSPs or make alternative comparable arrangements with WACM to satisfy their regulation obligations. For the Load Serving Entities (LSEs) who are not taking transmission service from CRCM and LAPT, WACM will assess Regulation Service charges for their load and for their variable resources inside WACM.

The formula rate will be assessed to all applicable Federal Transmission Customers and to all applicable non-Federal LSEs serving load inside WACM.

Formula Rate

$$\begin{array}{l}
 \text{Regulation} \\
 \text{Service} \\
 \text{Formula Rate}
 \end{array}
 = \frac{\text{Total Annual Revenue Requirement for Regulation Service (\$)}}{\begin{array}{l}
 \text{Load inside WACM Requiring Regulation Service (kW)} \\
 + \\
 \text{(Installed Nameplate Capacity of Wind Generators Serving Load inside WACM} \\
 \text{X} \\
 \text{Wind Capacity Multiplier) (kW)} \\
 + \\
 \text{(Installed Nameplate Capacity of Solar Generators Serving Load inside WACM} \\
 \text{X} \\
 \text{Solar Capacity Multiplier) (kW)}
 \end{array}}$$

The total annual revenue requirement for Regulation Service includes such costs as LAP and CRSP plant costs, purchases of regulation products, purchases of power in support of the generating units' ability to regulate, purchases of transmission for regulating units trapped geographically inside another balancing authority, purchases of transmission required to relocate energy due to regulation/load following issues, and lost on-peak sales opportunities resulting from the requirement to generate at night to permit units to have "down" regulating capability.

**Rate Schedule L-AS3
SCHEDULE 3 to OATT
(Supersedes Rate Schedule SP-FR4
and Rate Schedule L-AS3 dated
October 1, 2011, through September 30, 2016)**

The total load for Regulation Service equals load inside WACM requiring Regulation Service, plus the installed nameplate capacity of wind generators serving load inside WACM times the wind capacity multiplier, plus the installed nameplate capacity of solar generators serving load inside WACM times the solar capacity multiplier.

A calculated charge will go into effect every October 1 based on the formula above and updated financial, load, and capacity multiplier data. The annual charge and multipliers will be posted on the CRCM and LAPT Open Access Same-Time Information System websites.

Types

There are two different applications of this Formula Rate:

1. Load-based Assessment: The charge is assessed on an entity's auxiliary load (total metered load less applicable Federal entitlements) and on the amount stated in any BA or transmission service agreements. The charge is also applied to the installed nameplate capacity of all variable energy resources, including wind and solar generators, serving load inside WACM multiplied by the applicable annually calculated Capacity Multiplier.
2. Self-provision Assessment: WACM allows entities with AGC to self-provide for all or a portion of their loads. Entities with AGC are known as Sub-Balancing Authorities (SBA) and must meet all of the following criteria:
 - a. Have a well-defined boundary, with WACM-approved revenue-quality metering, accurate as defined by the North American Electric Reliability Corporation (NERC), to include Megawatt flow data availability at 6-second or smaller intervals;

**Rate Schedule L-AS3
SCHEDULE 3 to OATT
(Supersedes Rate Schedule SP-FR4
and Rate Schedule L-AS3 dated
October 1, 2011, through September 30, 2016)**

- b. Have AGC responsive unit(s);
- c. Demonstrate Regulation Service capability; and
- d. Execute a contract with WACM in which entities agree to:
 - i. Provide all requested data to WACM.
 - ii. Meet SBA error criteria as described below.

Self-provision is measured by use of the entity's 1-minute average Area Control Error (ACE) to determine the amount of self-provision. The ACE is used to calculate the Regulation Service charges every hour as follows:

- a. If the entity's 1-minute average ACE for the hour is less than or equal to 0.5 percent of its hourly average load, no Regulation Service charge is assessed for that hour.
- b. If the entity's 1-minute average ACE for the hour is greater than or equal to 1.5 percent of its hourly average load, WACM assesses Regulation Service charges to the entity's entire auxiliary load, using the hourly Load-based Assessment applied to the entity's auxiliary 12-cp load for that month.
- c. If the entity's 1-minute average ACE for the hour is greater than 0.5 percent of its hourly average load, but less than 1.5 percent of its hourly average load, WACM assesses Regulation Service charges based on linear interpolation of zero charge and full charge, using the hourly Load-based Assessment applied to the entity's auxiliary 12-cp load for that month.

**Rate Schedule L-AS3
SCHEDULE 3 to OATT
(Supersedes Rate Schedule SP-FR4
and Rate Schedule L-AS3 dated
October 1, 2011, through September 30, 2016)**

- d. WACM monitors the entity's Self-provision on a regular basis. If WACM determines the entity has not been attempting to self-regulate, WACM will, upon notification, employ the Load-based Assessment described in No. 1, above.

Alternative Arrangements

Exporting Variable Resource Requirement: WACM does not provide Regulation Service to variable resources inside the WACM Control Area which are not used to serve load inside the WACM Control Area. An entity that exports the output from a variable generator to another Control Area will be required to dynamically meter or dynamically schedule the resource out of the WACM Control Area to another Control Area unless arrangements, satisfactory to WACM, are made for the entity to acquire this service from a third party or self-supply (as outlined below). A variable generator is one whose output is volatile and variable due to factors beyond direct operational control and, therefore, is not dispatchable.

Self- or Third-party supply: WACM may allow an entity to supply some or all of its required regulation, or contract with a third party to do so. This entity must have revenue quality metering at every load and generation point, accurate as defined by NERC, to include MW flow data availability at 6-second or smaller intervals. WACM will evaluate the entity's metering, telecommunications and regulating resource, as well as the required level of regulation, and determine whether the entity qualifies to self-supply under this provision. If approved, the entity is required to enter into a separate agreement with WACM which will specify the terms of the self-supply application.

**Rate Schedule L-AS3
SCHEDULE 3 to OATT
(Supersedes Rate Schedule SP-FR4
and Rate Schedule L-AS3 dated
October 1, 2011, through September 30, 2016)**

Customer Accommodation

For entities unwilling to take Regulation Service, self-provide as described above, or acquire the service from a third party, WACM will assist the entity in dynamically metering its loads/resources to another Control Area. Until such time as meter configuration is accomplished, the entity will be responsible for charges assessed under the formula rate in effect.

**Rate Schedule L-AS4
SCHEDULE 4 to OATT
(Supersedes Rate Schedule L-AS4 dated
October 1, 2011, through September 30, 2016)**

**UNITED STATES DEPARTMENT OF ENERGY
WESTERN AREA POWER ADMINISTRATION**

**ROCKY MOUNTAIN REGION
Loveland Area Projects
Western Area Colorado Missouri Balancing Authority**

ENERGY IMBALANCE SERVICE

Effective

The first day of the first full billing period beginning on or after October 1, 2016, and extending through September 30, 2021, or until superseded by another rate schedule, whichever occurs earlier.

Applicable

This rate schedule applies to Loveland Area Projects (LAPT) as the Transmission Service Provider (TSP) and to Western Area Colorado Missouri Balancing Authority (WACM) as the Control Area operator. WACM provides Energy Imbalance Service when a difference occurs between the scheduled and the actual delivery of energy to a load located within the Control Area over a single hour. Energy Imbalance Service is calculated as resources minus obligations (adjusted for transmission and transformer losses) for any combination of generation, scheduled transfers, transactions, or actual load integrated over each hour.

The LAPT TSP must offer this service when the transmission service is used to serve load within WACM and the Federal Transmission Customers must purchase this service from the LAPT TSP or make alternative comparable arrangements with WACM to satisfy their Energy Imbalance obligations. By default, WACM, as the Control Area operator, provides Energy

**Rate Schedule L-AS4
SCHEDULE 4 to OATT
(Supersedes Rate Schedule L-AS4 dated
October 1, 2011, through September 30, 2016)**

Imbalance Service to all entities within its Control Area footprint. All entities who serve load inside WACM must enter into separate agreements with WACM which will specify the terms of the Energy Imbalance Service.

Formula Rate

Imbalances are calculated in three deviation bands as follows. The term “metered load” is defined to be “metered load adjusted for losses.”

1. An imbalance of less than or equal to 1.5 percent of metered load (or 4 MW, whichever is greater) for any hour is settled financially at 100 percent of the WACM weighted average hourly energy price.
2. An imbalance between 1.5 percent and 7.5 percent of metered load (or 4 to 10 MW, whichever is greater) for any hour is settled financially at 90 percent of the WACM weighted average hourly energy price when net energy scheduled exceeds metered load or 110 percent of the WACM weighted average hourly energy price when net energy scheduled is less than metered load.
3. An imbalance greater than 7.5 percent of metered load (or 10 MW, whichever is greater) for any hour is settled financially at 75 percent of the WACM weighted average hourly energy price when net energy scheduled exceeds metered load or 125 percent of the WACM weighted average hourly energy price when net energy scheduled is less than metered load.

Pricing:

All Energy Imbalance Service provided by WACM is accounted for hourly and settled financially. The WACM aggregate imbalance determines the energy pricing used in all

Rate Schedule L-AS4
SCHEDULE 4 to OATT
(Supersedes Rate Schedule L-AS4 dated
October 1, 2011, through September 30, 2016)

deviation bands. A surplus dictates the use of sale pricing; a deficit dictates the use of purchase pricing. When no hourly data is available, the pricing defaults for sales and purchase pricing are applied in the following order:

1. Weighted average sale or purchase pricing for the day (on- and off-peak).
2. Weighted average sale or purchase pricing for the month (on- and off-peak).
3. Weighted average sale or purchase pricing for the prior month (on- and off-peak).
4. Weighted average sale or purchase pricing for the month prior to the prior month (and continuing until sale or purchase pricing is located) (on- and off-peak).

Expansion of the bandwidth may be allowed during the following instances:

1. Response to the loss of a physical resource.
2. During transition of large base-load thermal resources (capacity greater than 200 MW) between off-line and on-line following a reserve sharing group response, when the unit generates less than the predetermined minimum scheduling level.

During periods of Balancing Authority operating constraints, WACM reserves the right to eliminate credits for over-deliveries. The cost to WACM of any charge assessed by a reliability oversight agency due to a violation of operating standards resulting from under-delivery or over-delivery of energy may be passed through to Energy Imbalance Service Customers.

**Rate Schedule L-AS9
SCHEDULE 9 to OATT
(Supersedes Rate Schedule L-AS9 dated
October 1, 2011, through September 30, 2016)**

**UNITED STATES DEPARTMENT OF ENERGY
WESTERN AREA POWER ADMINISTRATION**

**ROCKY MOUNTAIN REGION
Loveland Area Projects and
Western Area Colorado Missouri Balancing Authority**

GENERATOR IMBALANCE SERVICE

Effective

The first day of the first full billing period beginning on or after October 1, 2016, and extending through September 30, 2021, or until superseded by another rate schedule, whichever occurs earlier.

Applicable

This rate schedule applies to Loveland Area Projects (LAPT) as the Transmission Service Provider (TSP) and to Western Area Colorado Missouri Balancing Authority (WACM) as the Control Area operator. WACM provides Generator Imbalance Service when there is a difference between actual generation and scheduled generation for each hour.

The LAPT TSP must offer this service when transmission service is used to deliver energy to serve load within WACM and the Federal Transmission Customers must purchase this service from the LAPT TSP or make alternative comparable arrangements with WACM to satisfy their Generator Imbalance obligations. By default, WACM, as the Control Area operator, provides Generator Imbalance Service to all entities within its Control Area footprint. All entities who have generation inside WACM must enter into separate agreements with WACM which will specify the terms of the Generator Imbalance Service.

**Rate Schedule L-AS9
SCHEDULE 9 to OATT
(Supersedes Rate Schedule L-AS9 dated
October 1, 2011, through September 30, 2016)**

This formula rate applies to all jointly-owned generators (unless arrangements are made to allocate actual generation to each individual owner), variable generators (unless arrangements are made to assess the variable generator under Rate Schedule L-AS4), and any non-variable generators without associated load inside the WACM Control Area.

Formula Rate

Imbalances are calculated in three deviation bands as follows:

1. An imbalance of less than or equal to 1.5 percent of metered generation (or 4 MW, whichever is greater) for any hour is settled financially at 100 percent of the WACM weighted average hourly energy price.
2. An imbalance between 1.5 percent and 7.5 percent of metered generation (or 4 to 10 MW, whichever is greater) for any hour is settled financially at 90 percent of the WACM weighted average hourly energy price when actual generation exceeds scheduled generation or 110 percent of the WACM weighted average hourly energy price when actual generation is less than scheduled generation.
3. An imbalance greater than 7.5 percent of metered generation (or 10 MW, whichever is greater) for any hour is settled financially at 75 percent of the WACM weighted average hourly energy price when actual generation exceeds scheduled generation or 125 percent of the WACM weighted average hourly energy price when actual generation is less than scheduled generation.

Variable generators are exempt from 25 percent penalties. All imbalances greater than 1.5 percent of metered generation are subject only to a 10 percent penalty.

Rate Schedule L-AS9
SCHEDULE 9 to OATT
(Supersedes Rate Schedule L-AS9 dated
October 1, 2011, through September 30, 2016)

Pricing:

All Generator Imbalance Service provided by WACM is accounted for hourly and settled financially. The WACM aggregate imbalance determines the energy pricing used in all deviation bands. A surplus dictates the use of sale pricing; a deficit dictates the use of purchase pricing. When no hourly data is available, the pricing defaults for sales and purchase pricing are applied in the following order:

1. Weighted average sale or purchase pricing for the day (on- and off-peak).
2. Weighted average sale or purchase pricing for the current month (on- and off-peak).
3. Weighted average sale or purchase pricing for the prior month (on- and off-peak).
4. Weighted average sale or purchase pricing for the month prior to the prior month (and continuing until sale or purchase pricing is located) (on- and off-peak).

Expansion of the bandwidth may be allowed during the following instances:

1. Response to the loss of a physical resource.
2. During transition of large base-load thermal resources (capacity greater than 200 MW) between off-line and on-line following a reserve sharing group response, when the unit generates less than the predetermined minimum scheduling level.

During periods of Balancing Authority operating constraints, WACM reserves the right to eliminate credits for over-deliveries. The cost to WACM of any charge assessed by a reliability oversight agency due to a violation of operating standards resulting from under-delivery or over-delivery of energy may be passed through to Generator Imbalance Service Customers.

**Rate Schedule L-AS5
SCHEDULE 5 to OATT
(Supersedes Rate Schedule L-AS5 dated
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**UNITED STATES DEPARTMENT OF ENERGY
WESTERN AREA POWER ADMINISTRATION**

**ROCKY MOUNTAIN REGION
Loveland Area Projects and
Western Area Colorado Missouri Balancing Authority**

OPERATING RESERVE - SPINNING RESERVE SERVICE

Effective

The first day of the first full billing period beginning on or after October 1, 2016, and extending through September 30, 2021, or until superseded by another rate schedule, whichever occurs earlier.

Applicable

This rate schedule applies to Loveland Area Projects (LAPT) as the Transmission Service Provider (TSP) and to Western Area Colorado Missouri Balancing Authority (WACM) as the Control Area operator. Spinning Reserve Service is needed to serve load immediately in the event of a system contingency. Spinning Reserve Service may be provided by generating units that are on-line and loaded at less than maximum output.

The LAPT TSP must offer this service when transmission service is used to serve load within WACM and the Federal Transmission Customers must purchase this service from the LAPT TSP or make alternative comparable arrangements with WACM to satisfy their Spinning Reserve obligations. WACM may be willing to provide Spinning Reserves to other entities, providing the entities enter into separate agreements with WACM which will specify the terms of the Spinning Reserve Service.

**Rate Schedule L-AS5
SCHEDULE 5 to OATT
(Supersedes Rate Schedule L-AS5 dated
October 1, 2011, through September 30, 2016)**

Formula Rate

The LAPT TSP and WACM have no Spinning Reserves available for sale. At a customer's request, the Rocky Mountain Region will purchase Spinning Reserves and pass through the cost and any activation energy, plus a fee for administration. The customer will be responsible for providing the transmission to deliver the Spinning Reserves purchased.

**Rate Schedule L-AS6
SCHEDULE 6 to OATT
(Supersedes Rate Schedule L-AS6 dated
October 1, 2011, through September 30, 2016)**

**UNITED STATES DEPARTMENT OF ENERGY
WESTERN AREA POWER ADMINISTRATION**

**ROCKY MOUNTAIN REGION
Loveland Area Projects and
Western Area Colorado Missouri Balancing Authority**

OPERATING RESERVE – SUPPLEMENTAL RESERVE SERVICE

Effective

The first day of the first full billing period beginning on or after October 1, 2016, and extending through September 30, 2021, or until superseded by another rate schedule, whichever occurs earlier.

Applicable

This rate schedule applies to the Loveland Area Projects (LAPT) as the Transmission Service Provider (TSP) and the Western Area Colorado Missouri Balancing Authority (WACM) as the Control Area operator. Supplemental Reserve Service is needed to serve load in the event of a system contingency; however, it is not available immediately to serve load but rather within a short period of time. Supplemental Reserve Service may be provided by generating units that are on-line but unloaded, by quick-start generation, or by interruptible load.

The LAPT TSP must offer this service when the transmission service is used to serve load within WACM and the Federal Transmission Customers must purchase this service from the LAPT TSP or make alternative comparable arrangements with WACM to satisfy their Supplemental Reserve obligations. WACM may be willing to provide Supplemental Reserves to other entities, providing the entities enter into separate agreements with WACM which will specify the terms of the Supplemental Reserve Service.

**Rate Schedule L-AS6
SCHEDULE 6 to OATT
(Supersedes Rate Schedule L-AS6 dated
October 1, 2011, through September 30, 2016)**

Formula Rate

The LAPT TSP and WACM have no Supplemental Reserves available for sale. At a customer's request, the Rocky Mountain Region will purchase Supplemental Reserves and pass through the cost and any activation energy, plus a fee for administration. The customer will be responsible for providing the transmission to deliver the Supplemental Reserves purchased.

**Rate Schedule L-AS7
(Supersedes Rate Schedule L-AS7 dated
October 1, 2011, through September 30, 2016)**

**UNITED STATES DEPARTMENT OF ENERGY
WESTERN AREA POWER ADMINISTRATION**

**ROCKY MOUNTAIN REGION
Western Area Colorado Missouri Balancing Authority**

TRANSMISSION LOSSES SERVICE

Effective

The first day of the first full billing period beginning on or after October 1, 2016, and extending through September 30, 2021, or until superseded by another rate schedule, whichever occurs earlier.

Applicable

The Western Area Colorado Missouri Balancing Authority (WACM) provides Transmission Losses Service (Losses) to all Transmission Service Providers (TSPs) who market transmission inside the WACM Control Area (Customers). Transmission Losses are assessed for all real-time and prescheduled transactions on transmission facilities inside the WACM Control Area. For transactions (schedules) which involve more than one TSP inside the WACM Control Area, the loss obligation falls on the last TSP listed on the schedule. This prevents double and triple assessment of the losses for schedules which involve more than one TSP. The Customer is allowed the option of energy repayment or financial repayment. Customers must declare annually their preferred methodology of energy payback. Energy repayment may be either concurrently or seven days later, to be delivered using the same profile as the related transmission transaction. The Losses applicable to the Colorado River Storage Project (CRCM) and Loveland Area Projects (LAPT) TSPs will be passed directly to the CRCM and LAPT Transmission Customers.

**Rate Schedule L-AS7
(Supersedes Rate Schedule L-AS7 dated
October 1, 2011, through September 30, 2016)**

Formula Rate

The loss factor currently in effect is posted on WACM's Business Practices which is posted on the CRCM and LAPT Open Access Same-Time Information System websites.

When a transmission loss energy obligation is not provided (or is under-provided) by a Customer for a transmission transaction, the energy owed for Transmission Losses Service is calculated and a charge is assessed to the Customer based on the WACM weighted average hourly purchase price.

Pricing for loss energy due 7 days later, and not received by WACM, will be priced at the 7-day-later-price based on the WACM weighted average hourly purchase price.

There will be no financial compensation or energy return to Customers for over-delivery of Transmission Losses Service, as there should be no condition beyond the control of the Customer that results in overpayment.

Customers may settle financially or with energy. The pricing for this service will be the WACM weighted average hourly purchase price. When no hourly data is available, pricing defaults will be applied in the following order:

1. Weighted average purchase pricing for the day (on- and off-peak).
2. Weighted average purchase pricing for the current month (on- and off-peak).
3. Weighted average purchase pricing for the prior month (on- and off-peak).
4. Weighted average purchase pricing for the month prior to the prior month (and continuing until purchase pricing is located (on- and off-peak)).

**UNITED STATES DEPARTMENT OF ENERGY
WESTERN AREA POWER ADMINISTRATION**

**ROCKY MOUNTAIN REGION
Loveland Area Projects**

SALES OF SURPLUS PRODUCTS

Effective

The first day of the first full billing period beginning on or after October 1, 2016, and extending through September 30, 2021, or until superseded by another rate schedule, whichever occurs earlier.

Applicable

This rate schedule applies to Loveland Area Projects (LAP) Marketing and is applicable to the sale of the following LAP surplus energy and capacity products: reserves, regulation, and frequency response. If any of the above LAP surplus products are available, LAP can make the product(s) available for sale, providing entities enter into separate agreement(s) with LAP Marketing which will specify the terms of sale(s).

Formula Rate

The charge for each product will be determined at the time of the sale based on market rates, plus administrative costs. The customer will be responsible for acquiring transmission service necessary to deliver the product(s).