

Excerpts of Scheduling Provisions

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Contract Body:

From 04/07/08—Draft Master Template

*Include in **LOAD FOLLOWING** template:*

10. SCHEDULING

Option 1: Include for Transfer Service customers with a BPA NT Transmission Agreement:

Transmission Scheduling Service (03/27/08 Version)

From October 1, 2011, through September 30, 2028, Power Services shall provide and «Customer Name» shall purchase Transmission Scheduling Service. The Parties shall administer «Customer Name»'s Transmission Scheduling Service consistent with Exhibit F, Transmission Scheduling Service.

End Option 1. See pages 2-5 for this version of the Exhibit

Option 2: Include for non-transfer customers with a BPA NT Transmission Agreement:

Transmission Scheduling Service (03/27/08 Version)

Over the term of this Agreement, «Customer Name» may be required to purchase, or may have the option to purchase, Transmission Scheduling Service from Power Services in accordance with Exhibit F, Scheduling. If «Customer Name» is required or elects to purchase Transmission Scheduling Service from Power Services, Exhibit F, Scheduling shall be replaced with the Transmission Scheduling Service exhibit. If «Customer Name» is not purchasing Transmission Scheduling Service from Power Services, «Customer Name» shall comply with the scheduling requirements described in sections 2 and 3 of Exhibit F, Scheduling.

End Option 2. See pages 6-7 for this version of the Exhibit

Option 3: Include for customers with a BPA PTP Transmission Agreement:

Transmission Scheduling Service (04/03/08 Version)

«Customer Name» shall be responsible for scheduling transmission to serve its Total Retail Load. In addition, «Customer Name» shall comply with the scheduling requirements described in Exhibit F, Scheduling.

End Option 3. See page 8 for this version of the Exhibit

END LOAD FOLLOWING template.

*Include in **BLOCK** and **SLICE/BLOCK** templates:*

10. SCHEDULING (03/27/08 Version)

«Customer Name» shall schedule power in accordance with Exhibit F, Scheduling.

See pages 9-10 for the Block version of this exhibit

See pages 11-14 for the Slice/Block version of this exhibit

END BLOCK and SLICE/BLOCK templates.

From 04/07/08—Draft Master Template

*Include in **LOAD FOLLOWING** template:*

Option 1: Include for Transfer Service customers with a BPA NT Agreement:

EXHIBIT F TRANSMISSION SCHEDULING SERVICE

1. PURPOSE AND PARAMETERS *(02/11/08 Version)*

(a) **Purpose**

Transmission Scheduling Service is provided by Power Services to help «Customer Name» manage certain aspects of its BPA Network Integration Transmission Service Agreement (BPA NT Agreement), to allow BPA to use the inherent resource flexibilities of «Customer Name»'s Network rights in combination with other Network customers rights to manage BPA's power resources efficiently, and to provide seamless scheduling for Transfer Service customers.

(b) **Parameters of Transmission Scheduling Service**

Beginning October 1, 2011, and through the term of this Agreement, Power Services shall provide and «Customer Name» shall purchase Transmission Scheduling Service. Power Services shall schedule «Customer Name»'s federal and non-federal generation resources to «Customer Name»'s Total Retail Load under «Customer Name»'s BPA NT Agreement and/or other transmission agreement(s). Power Services shall not provide Transmission Scheduling Service for anything other than delivery to «Customer Name»'s Total Retail Load.

Power Services shall perform all necessary prescheduling and real time scheduling functions, and make other arrangements and adjustments consistent with any RSS products «Customer Name» is purchasing from Power Services. «Customer Name» shall continue to be responsible for all non-scheduling provisions of its transmission agreement(s) used to serve «Customer Name»'s Total Retail Load including, but not limited to, the designation and undesignation of Network Resources, as defined by the applicable OATT.

Transmission Scheduling Service shall be subject to the rates, terms and conditions specified in BPA's applicable Wholesale Power Rate Schedules and GRSPs.

2. ASSIGNMENT OF SCHEDULING RIGHTS *(02/08/08 Version)*

Prior to commencement of Transmission Scheduling Service, «Customer Name» shall:

- (a) notify Transmission Services that Power Services is the scheduling entity for service taken under «Customer Name»'s BPA NT Agreement;

- (b) assign Power Services the right to acquire and manage secondary service pursuant to section 28.4 of the BPA OATT as necessary to fulfill BPA's obligations under this Agreement; and
- (c) provide copies of «Customer Name»'s transmission agreement(s) used to serve «Customer Name»'s Total Retail Load.

Additionally, over the term of this Agreement, «Customer Name» shall provide Power Services with any additional transmission agreements «Customer Name» enters into which are used for service to its Total Retail Load and all amendments and modifications to current copies of «Customer Name»'s transmission agreement(s).

3. **LOAD FORECAST** *(02/08/08 Version)*

If a daily load forecast is required by «Customer Name»'s transmission agreement(s), BPA shall develop the daily and hourly load forecasts for «Customer Name»'s Total Retail Load.

«Customer Name» shall cooperate with BPA in all load forecasting. If any load specific information is needed for developing daily or hourly load forecast, «Customer Name» shall provide such information in a timely manner.

4. **SCHEDULING OF «CUSTOMER NAME»'s NON-FEDERAL RESOURCES**

(a) **Prescheduling**

«Customer Name» shall submit a delivery schedule to Power Services for its non-federal resource for delivery to its Total Retail Load which will include information such as the source of the schedule, the point of receipt, any oasis reservation reference numbers needed for the delivery of non-federal power, the daily MW profile and all purchasing selling entities in the path. The delivery schedule shall be submitted to Power Services before the earliest of:

- (1) 0800 hours PPT on preschedule day or
- (2) one hour prior to the earliest of the transmission prescheduling deadlines associated with «Customer Name»'s transmission agreement(s) delivery of power to «Customer Name»'s Total Retail Load.

«Customer Name» shall submit all required prescheduled information in a format specified by Power Services.

At Power Services' request, «Customer Name» shall provide Power Services information on real power losses associated with «Customer Name»'s transmission agreement(s).

(b) **Real Time Scheduling**

Power Services shall accept megawatt adjustments to «Customer Name»'s nonfederal resource schedule(s) up to the earliest of 45 minutes prior to the hour of delivery or 25 minutes prior to the earliest of the transmission real time scheduling deadlines associated with delivery of power to «Customer Name»'s Total Retail Load.

«Customer Name» shall submit all required real time scheduling information in a format specified by Power Services.

(c) **Transmission Curtailments and Generation Outages(02/28/08 Version)**

The timelines below apply to «Customer Name» if «Customer Name» has not acquired Forced Outage Reserves from Power Services:

(1) **Curtailment or Outage Prior to 45 Minutes Before Delivery Hour**

«Customer Name» shall be responsible for securing replacement energy within or to the BPA Balancing Authority Area and notifying Power Services of the revised schedule prior to 45 minutes before the hour of delivery.

If Power Services is unable to secure secondary network transmission for the replacement resource because «Customer Name» did not notify Power Services of the revised schedule prior to 45 minutes prior to the hour of delivery or secondary network transmission is unavailable, «Customer Name» shall be subject to charges consistent with the provisions of this Agreement and all related products and BPA's rate schedules, including UAI charges.

(2) **Curtailment or Outage After 45 Minutes Before Delivery Hour**

Power Services shall not accept replacement schedules for transmission curtailments generation outages that occur after 45 minutes before delivery hour. «Customer Name» shall be subject to charges consistent with the provisions of this Agreement and all related products and BPA's rate schedules, including UAI charges.

5. E-TAGS

To the extent E-Tags are required by transmission provider(s), Power Services shall create all E-Tags necessary for delivery of energy to «Customer Name»'s Total Retail Load.

6. GENERATION IMBALANCE

«Customer Name» is responsible for costs associated with deviations between the scheduled non-federal generation for an hour and the actual generation produced across such hour. Provided, however, if «Customer Name» submits a delivery schedule consistent with all provisions of this section, and BPA receives that schedule, and a generation imbalance results from the BPA error, BPA will accept

responsibility for the generation imbalance associated with the BPA scheduling error.

7. PENALTIES*(03/21/08 Version)*

If «Customer Name» fails to submit pre-scheduling or real-time scheduling information to BPA as required and by the deadlines in section 4 above, then «Customer Name» may be subject to applicable unauthorized increase charges, consistent with BPA's applicable Wholesale Power Rate Schedules and GRSPs.

8. AFTER THE FACT

BPA and «Customer Name» agree to reconcile all transactions, schedules and accounts at the end of each month (as early as possible within the first 10 calendar days of the next month). BPA and «Customer Name» will verify all transactions per this Agreement, as to product or type of service, hourly amounts, daily and monthly totals, and related charges.

9. REVISIONS *(see page 10 for a different version that BPA is considering to this section)*

BPA may unilaterally revise this exhibit:

- (a) to implement changes that BPA determines are necessary to allow it to meet its power and scheduling obligations under this Agreement, or
- (b) to comply with requirements of the WECC, NAESB, or NERC, or their successors or assigns.

Revisions are effective 45 days after BPA provides written notice of the revisions to «Customer Name» unless, in BPA's sole judgment, less notice is necessary to comply with an emergency change to the requirements of the WECC, NAESB, NERC, or their successors or assigns. In this case, BPA shall specify the effective date of such revisions.

End Option 1

(PS«X/LOC»- «File Name with Path».DOC) «mm/dd/yy» *{Drafter's Note: Insert date of finalized contract here}*

From 04/07/08—Draft Master Template

Option 2: Include for non-transfer customers with a BPA NT Agreement:

EXHIBIT F SCHEDULING

1. TRANSMISSION SCHEDULING SERVICE

If «Customer Name»:

- (a) acquires BPA's Diurnal Flattening Service; and/or,
- (b) acquires BPA's Secondary Crediting Service; and/or
- (c) purchases power from BPA at a Tier 2 rate,

then Power Services shall provide and «Customer Name» shall purchase Transmission Scheduling Service. In such case, the Parties shall revise this exhibit to include the terms and conditions of such service.

If «Customer Name» is not required to purchase Transmission Scheduling Service, pursuant to the paragraph above, then «Customer Name», with six months notice, may purchase Transmission Scheduling Service from Power Services and the Parties shall modify this exhibit to add the terms and conditions of such service.

2. SCHEDULING OF NON-FEDERAL GENERATION

«Customer Name» shall electrically copy BPA Power Services on all preschedule and real-time E-tags associated with the delivery of «Customer Name»'s non-federal resources, if any, as listed in Exhibit A, Net Requirements.

3. AFTER THE FACT

BPA and «Customer Name» agree to reconcile all transactions, schedules and accounts at the end of each month (as early as possible within the first 10 calendar days of the next month). BPA and «Customer Name» shall verify all transactions per this Agreement, as to product or type of service, hourly amounts, daily and monthly totals, and related charges.

4. REVISIONS *(see page 10 for a different version that BPA is considering to this section)*

BPA may unilaterally revise this exhibit:

- (a) to implement changes that BPA determines are necessary to allow it to meet its power and scheduling obligations under this Agreement, or
- (b) to comply with requirements of the WECC, NAESB, or NERC, or their successors or assigns.

Revisions are effective 45 days after BPA provides written notice of the revisions to «Customer Name» unless, in BPA's sole judgment, less notice is necessary to comply with an emergency change to the requirements of the WECC, NAESB, NERC, or

Excerpts of Scheduling Provisions

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their successors or assigns. In this case, BPA shall specify the effective date of such revisions.

End Option 2

(PS«X/LOC»- «File Name with Path».DOC) «mm/dd/yy» *{Drafter's Note: Insert date of finalized contract here}*

From 04/07/08—Draft Master Template

Option 3: Include for customers with a BPA PTP Transmission Agreement:

EXHIBIT F SCHEDULING

1. SCHEDULING OF NON-FEDERAL GENERATION

«Customer Name» shall electrically copy BPA Power Services on all preschedule and real-time E-tags associated with the delivery of «Customer Name»'s non-federal resources, if any, as listed in Exhibit A, Net Requirements.

2. AFTER THE FACT

BPA and «Customer Name» agree to reconcile all transactions, schedules and accounts at the end of each month (as early as possible within the first 10 calendar days of the next month). BPA and «Customer Name» shall verify all transactions per this Agreement, as to product or type of service, hourly amounts, daily and monthly totals, and related charges.

3. REVISIONS *(see page 10 for a different version that BPA is considering to this section)*

BPA may unilaterally revise this exhibit:

- (a) to implement changes that BPA determines are necessary to allow it to meet its power and scheduling obligations under this Agreement, or
- (b) to comply with requirements of the WECC, NAESB, or NERC, or their successors or assigns.

Revisions are effective 45 days after BPA provides written notice of the revisions to «Customer Name» unless, in BPA's sole judgment, less notice is necessary to comply with an emergency change to the requirements of the WECC, NAESB, NERC, or their successors or assigns. In this case, BPA shall specify the effective date of such revisions.

End Option 3

END LOAD FOLLOWING template.

(PS«X/LOC»- «File Name with Path».DOC) «mm/dd/yy» *{Drafter's Note: Insert date of finalized contract here}*

From 04/14/08—Draft Exhibit for Block (*This version has been revised since it was last shared with customers in mid April. The shaded portion of section 3 may be included in all other versions of this exhibit, based on customer comments.*)

Include in BLOCK template:

EXHIBIT F
SCHEDULING (4/25/08 version)

1. SCHEDULING FEDERAL RESOURCES

«Customer Name» is responsible for creating electronic tags for all deliveries of federal power purchased under this Agreement.

The following variation for shaping capacity does not apply to the RPSA contract Drafter’s Note: Include if customer is purchasing Shaping Capacity:

Reviewer’s Note: The following 2 paragraphs are currently located in section of 2(d)(2) and 2(d)(3) of Exhibit C, Purchase Obligations and will be deleted from Exhibit C when the templates are revised.

«Customer Name» shall submit its hourly megawatt schedule to Power Services by 1100 Pacific Prevailing Time (PPT) as follows:

Day Before Preschedule:		
Friday	For	Tuesday
Monday	For	Wednesday
Tuesday	For	Thursday
Wednesday	For	Friday, Saturday
Thursday	For	Sunday, Monday

For non-standard scheduling days specified by WECC (e.g. holidays), «Customer Name» shall preschedule at least 24 hours earlier than as specified by WECC. «Customer Name» shall not have the right to change planned amounts of Firm Requirements Power on a shorter timeline than as stated above.

With written notice, BPA may require Customer Name», when using Shaping Capacity, to submit its hourly megawatt schedule to Power Services by 0900 hours PPT instead of 1100 hours PPT.

End Option

2. AFTER THE FACT

BPA and «Customer Name» agree to reconcile all transactions, schedules and accounts at the end of each month (as early as possible within the first 10 calendar days of the next month). BPA and «Customer Name» will verify all transactions per this Agreement, as to product or type of service, hourly amounts, daily and monthly totals, and related charges

3. REVISIONS

BPA may unilaterally revise this exhibit: (i) to implement changes that are applicable to all customers who are subject to this Exhibit and that BPA determines are reasonably necessary to meet its power and scheduling obligations under this Agreement or (ii) to comply with requirements of the WECC, NAESB, or NERC, or their successors or assigns.

Revisions are effective 45 days after BPA provides written notice of the revisions to «Customer Name» unless, in BPA's sole judgment, less notice is necessary to comply with an emergency change to the requirements of the WECC, NAESB, NERC, or their successors or assigns. In this case, BPA shall specify the effective date of such revisions.

END BLOCK template.

From 04/14/08—Draft Slice/Block Template

Include in SLICE/BLOCK templates:

EXHIBIT F POWER SCHEDULING

1. SCHEDULING FEDERAL POWER

«Customer Name» is responsible for creating Electronic Tags (E-tags) for all deliveries of Federal Power purchased under this Agreement. «Customer Name» shall provide copies of Federal Power E-tags to Power Services consistent with the requirements of this Scheduling Exhibit.

2. COORDINATION REQUIREMENTS

(a) Prescheduling

«Customer Name» shall submit a Federal Power delivery schedule to Power Services Scheduling including physical and market paths for schedules, and MW amounts for the following day(s) to BPA by 1100 Pacific Prevailing Time the day on which prescheduling occurs, except as specified by WECC (e.g. end of month and holidays). Preschedule E-Tags are due to Power Services in accordance with the parameters specified in Section 4 below.

Include in Slice/Block template

(b) Real-Time Scheduling

«Customer Name» shall have the right to submit new or modified schedules in real-time for the Slice portion of their schedules in accordance with the parameters specified in Section 4 below.

End Slice/Block Template

(c) After The Fact

BPA and «Customer Name» agree to reconcile all transactions, schedules and accounts at the end of each month (as early as possible within the first 10 calendar days of the next month). BPA and «Customer Name» will verify all transactions per this Agreement, as to product or type of service, hourly amounts, daily and monthly totals, and related charges.

Include in Slice/Block template

3. SLICE SCHEDULING REQUIREMENTS (4/4/08 Version – Slice)

(a) For the purposes of sections 3 and 4, the following definitions shall be incorporated from Exhibit M, Slice Computer Application and Implementation Procedures, by reference.

- (1) Delivery Request
- (2) Input Variables
- (3) Simulated Output Energy Schedules

- (b) «Customer Name» shall be responsible for arranging the delivery of its Slice Output to its ultimate destination on an hourly basis. Schedule submissions to Power Services will primarily be via Power Services approved electronic methods, which may include Slice specific interfaces. However, other Power Services agreed upon submission methods (verbal, fax, etc.) are acceptable if electronic systems are temporarily not available. Transmission scheduling arrangements are handled under separate agreements/provisions with the designated transmission provider, and may not necessarily meet the same requirements as Power Services scheduling arrangements.

Reviewer's Note: The concept of period-average or period-ending Delivery Limits will be further developed in upcoming product discussions.

- (c) Schedules of Slice Output submitted to Power Services by «Customer Name» for preschedule shall comply with period-average and period ending Delivery Limits and operating limits established in the Simulator, which may include period-ending storage bounds, and period-average discharge and generation values.
- (d) The timeline within which Power Services shall approve or deny «Customer Name»'s Delivery Requests, as represented by «Customer Name»'s E-tags, shall conform to Power Services then current preschedule and real-time scheduling guidelines as specified in Section 4 below.
- (1) For the purpose of approving requests for deliveries of Slice Output Power Services shall approve valid E-tags, as described in section 3(d)(2) below, «Customer Name» submits to Power Services prior to the Power Services scheduling deadline, as specified in Section 4 below.
 - (2) Valid Power Service E-tags shall (1) identify BPA-Power Service as the generation providing entity, (2) identify «Customer Name» as first downstream PSE, (3) reflect total E-tag MW amounts that are less than or equal to «Customer Name»'s Delivery Requests. Valid Balancing Authority E-tags have different standards (such as valid OASIS numbers, etc.) than valid Power Service E-tags.
 - (3) The Power Services Slice Scheduler shall have the sole, unilateral discretion to accept or deny E-tags «Customer Name» submits to Power Services after the Power Services scheduling deadline, regardless of the reason for the late submission, and irrelevant of submission method (electronic, verbal, fax, etc.)
 - (4) Changes to tagged energy amounts required by the Balancing Authority for reliability purposes shall be accommodated by Power Services and «Customer Name» at the time of such notification by the Balancing Authority.

- (e) «Customer Name» shall be responsible for verifying the sum of its tagged and non-tagged energy schedules (e.g., transmission loss schedules, etc., that are not tagged) is equal to its Delivery Request for each delivery hour.
 - (1) «Customer Name» shall be have the right to submit adjusted Input Variables to PS, pursuant to section 4(a) below, in order to alter the associated Simulated Output Energy Schedules within established Delivery Limits, such that «Customer Name»'s Delivery Request is equal to the sum of its tagged and non-tagged energy amounts for each delivery hour.
 - (2) For each delivery hour, the amount «Customer Name»'s hourly tagged and non-tagged energy amount is in excess of its Delivery Request shall be subject to the UAI charge, and the amount «Customer Name»'s hourly tagged and non-tagged energy amount is less than its Delivery Request shall be forfeited.

4. SCHEDULING DEADLINES

- (a) **Input Variables Submissions Affecting Each Delivery Hour**
«Customer Name» shall have until 15 minutes prior to the start of each delivery hour to submit revised Input Variables to PS in order to affect the associated Simulated Output Energy Schedules for that delivery hour. The Power Services Slice Scheduler shall have the sole, unilateral discretion to reject for any reason «Customer Name»'s Input Variables associated with the upcoming delivery hour that are submitted to Power Service after 15 minutes prior to the start of the start of that delivery hour.
- (b) **Real-Time E-Tag Submissions Affecting Each Delivery Hour**
Power Service shall approve valid E-tags, as described in section 3(d)(2) above, that affect each delivery hour and are submitted to PS by «Customer Name» prior to the Power Service E-tag scheduling deadline, which is 30 minutes prior to the start of that delivery hour. The Power Services Slice Scheduler shall have the sole, unilateral discretion to accept or deny E-tags «Customer Name» submits for each delivery hour after the Power Service scheduling deadline for that delivery hour, regardless of the reason for the late submission, and irrelevant of submission method (electronic, verbal, fax, etc.) Tag changes mandated by the Balancing Authority for reliability reasons will be managed pursuant to Section 3(d)(4) above.
- (c) **Preschedule E-Tag Submissions**
Unless otherwise mutually agreed, all «Customer Name» preschedule E-Tags will be submitted to Power Services according to NERC instructions and deadlines for E-tagging, as specified or modified by the BA and WECC.

End Slice/Block Template

Reviewer's Note: Additional consideration for each product may be necessary if customer is purchasing RSS.

5. SCHEDULING NON-FEDERAL POWER

Reviewer's Note: This section is yet to be developed and may be dependent on the note above relating to RSS.

6. REVISIONS (see page 10 for a different version that BPA is considering to this section)

BPA may unilaterally revise this exhibit: (a) to implement changes that BPA determines are necessary to allow it to meet its power and scheduling obligations under this Agreement or (b) to comply with requirements of the WECC, NAESB, or NERC, or their successors or assigns.

Revisions are effective 45 days after BPA provides written notice of the revisions to «Customer Name» unless, in BPA's sole judgment, less notice is necessary to comply with an emergency change to the requirements of the WECC, NAESB, NERC, or their successors or assigns. In this case, BPA shall specify the effective date of such revisions.

(PS«X/LOC»- «File Name with Path».DOC) «mm/dd/yy» *{Drafter's Note: Insert date of finalized contract here}*
END SLICE/BLOCK templates

(PS«X/LOC»- «File Name with Path».DOC) «mm/dd/yy» *{Drafter's Note: Insert date of finalized contract here}*